



**CALL NO. 101**

**CONTRACT ID. 214210**

**FRANKLIN COUNTY**

**FED/STATE PROJECT NUMBER NHPP 1601(008)**

**DESCRIPTION VERSAILLES ROAD (US 60)**

**WORK TYPE ASPHALT PAVEMENT & ROADWAY REHAB**

**PRIMARY COMPLETION DATE 7/31/2022**

**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 - 11%**

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

**TABLE OF CONTENTS**

PART I	SCOPE OF WORK <ul style="list-style-type: none"><li>• PROJECT(S), COMPLETION DATE(S), &amp; LIQUIDATED DAMAGES</li><li>• CONTRACT NOTES</li><li>• FEDERAL CONTRACT NOTES</li><li>• ASPHALT MIXTURE</li><li>• FUEL AND ASPHALT PAY ADJUSTMENT</li><li>• COMPACTION OPTION A</li><li>• SPECIAL NOTE(S) APPLICABLE TO PROJECT</li><li>• LIQUIDATED DAMAGES</li><li>• WASTE AND BORROW SITES</li><li>• COORDINATION OF WORK WITH OTHER CONTRACTS</li><li>• DOUBLE ASPHALT SEAL COAT</li><li>• ASPHALT MILLING AND TEXTURING</li><li>• TYPICAL SECTION DIMENSIONS</li><li>• TRAFFIC CONTROL PLAN</li><li>• DURABLE PAVEMENT EDGE DETAILS</li><li>• TRAFFIC SIGNAL LOOP DETECTORS</li><li>• RIGHT OF WAY CERTIFICATION</li><li>• UTILITY IMPACT &amp; RAIL CERTIFICATION NOTES</li><li>• KPDES STORM WATER PERMIT, BMP AND ENOI</li><li>• DETAIL SHEET(S)</li></ul>
PART II	SPECIFICATIONS AND STANDARD DRAWINGS <ul style="list-style-type: none"><li>• SPECIFICATIONS REFERENCE</li><li>• SUPPLEMENTAL SPECIFICATION</li><li>• [SN-11M] BARCODE LABEL ON PERMANENT SIGNS</li><li>• 2020 STANDARD DRAWINGS THAT APPLY</li></ul>
PART III	EMPLOYMENT, WAGE AND RECORD REQUIREMENTS <ul style="list-style-type: none"><li>• FEDERAL-AID CONSTRUCTION CONTRACTS - FHWA 1273</li><li>• NONDISCRIMINATION OF EMPLOYEES</li><li>• EXECUTIVE BRANCH CODE OF ETHICS</li><li>• PROJECT WAGE RATES LOCALITY 3 / FEDERAL</li><li>• NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EEO FRANKLIN</li></ul>
PART IV	INSURANCE
PART V	BID ITEMS

**PART I**

**SCOPE OF WORK**

**ADMINISTRATIVE DISTRICT - 05**

**CONTRACT ID - 214210**  
**NHPP 1601(008)**  
**COUNTY - FRANKLIN**  
**PCN - 0503700602102**  
**NHPP 1601(008)**

VERSAILLES ROAD (US 60) (MP 13.25) CONSTRUCT ADDITIONAL LEFT-TURN LANE STORAGE ALONG US 60  
FOR LEFT TURNS ONTO I-64 EB AND I-64 WB RAMPS (MP 13.40), A DISTANCE OF 0.15 MILES.ASPHALT  
PAVEMENT & ROADWAY REHAB SYP NO. 05-00187.00.  
GEOGRAPHIC COORDINATES LATITUDE 38:10:25.50 LONGITUDE 84:48:41.10

**COMPLETION DATE(S):**  
COMPLETED BY 07/31/2022                      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.

### **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.

### **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.

## **Special Notes Applicable to Project – General Notes & Description of Work**

---

### **CAUTION**

The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

### **STATIONING**

The contractor is advised that the planned locations of work were established from a beginning station number, which is STA 168+00 and corresponds to Milepoint 13.218 along US 60.

### **ON-SITE INSPECTION**

Before submitting a bid for the work, make a thorough inspection of the site and determine existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid to be evidence of this inspection having been made. The Department will not honor any claims for money or time extension resulting from site conditions.

### **RIGHT OF WAY LIMITS**

The Department has not established the exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured and environmentally cleared by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.

### **CONTROL**

Perform all work under the absolute control of the Department of Highways. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and his/her decision shall be final and binding upon the Contractor.

General Notes & Description of Work  
Page 2 of 3

**DESCRIPTION OF WORK**

Except as specified herein, perform all work in accordance with the Department's Standard Specifications, Supplemental Specifications, applicable Special Notes and Special Provisions, and applicable Standard and Sepia Drawings, current editions. Furnish all materials, labor, equipment, and incidentals for the following work:

**US 60 Dual Left Turn Lanes.** Saw Cut existing pavement for widening. Removal of existing pavement is included in Common Excavation quantity. Solid Rock Excavation and Ditch Excavation is also required for the widening. Widen US 60 and Ramps as shown on the Typical Sections, Plans, Profiles, and Cross Sections. Pavement and Lane Tapers are noted on the Plan Sheets. Refer to the Interchange Layout Sheet for alignment and curve data. Construct Edge Key and widen Ramps as noted in the Typical Sections and on the Plans. Resurface US 60 and asphalt Ramps. Restripe US 60 for dual left turn lanes onto I-64 Eastbound and Westbound Ramps.

**I-64 Westbound Off Ramp.** Construct an additional right turn lane at the intersection of I-64 Westbound Off Ramp (Ramp C) and US 60 for dual right turn lanes from the Off Ramp onto US 60. Extend the I-64 Westbound Off Ramp left turn lane to provide additional storage. Modify the US 60 NB left turn lane onto Jett Blvd. as shown in the Plans. Refer to the Typical Sections, Plans, Profiles, and Cross Sections for more information. Pavement and Lane Tapers are noted on the Plan Sheets. Refer to the Interchange Layout Sheet for alignment and curve data.

**I-64 Overpass.** A vertical clearance of 16' shall be maintained between proposed US 60 pavement and I-64 overpass bridge beams.

**Edge Key.** This work includes cutting out the existing asphalt surface to a minimum depth and width as detailed elsewhere in the Plans so that the new surface may heel into the existing surface. The Contract unit price bid Linear Foot for "Edge Key" includes all necessary materials, labor, and equipment necessary to perform the work and dispose of the removed asphalt material. Refer to the Typical Sections for Edge Key Details and more information.

**Traffic Signals.** Remove existing signal equipment. Rebuild the signals at US 60 and I-64 Eastbound Ramps and at US 60 and I-64 Westbound Ramps according to Traffic Signal Plan Set. Refer to the Traffic Signal Plan Set for more information.

**Lighting.** The existing high mast light pole located on the southwest quadrant of US 60 and I-64 Westbound On Ramp is being disturbed during construction. Refer to the Lighting Plan Set for more information on relocating existing pole.

**Pipe Replacements & Extensions.** There are locations throughout the project where culvert pipes are being extended or replaced. Locations and estimated quantities are noted on the Pipe Drainage Summary, Plan Sheets, and Pipe Drainage Sheets. For pipe extensions where the existing pipe is RCP, remove the existing headwall and first section of existing RCP attached to the headwall (approx. 3-4' ft). Other items that may be included with the pipe extensions/replacements include culvert headwalls, ditch excavation, Curb Box Inlets, Drop Box Inlets, channel lining, erosion control blanket, etc. Refer to the Special Note for Pipe Replacements/Extensions for more information on this item of work.

If a pipe collar or bend connection is needed for construction of a pipe extension, it shall be incidental to the cost of the pipe being constructed.

## General Notes & Description of Work

### Page 3 of 3

**Erosion Control Blanket.** A quantity of 500 square yards of Erosion Control Blanket has been included in the contract for potential use along areas of regraded shoulders, ditch lines, fills slopes and/or back slopes, inlets and outlets of pipes, and any other areas as directed by the Engineer. The Contractor and Engineer should work together to determine the location and best use of Erosion Control Blanket throughout this project. The Engineer will make the final determination as to the quantities and placement of Erosion Control Blanket.

**Striping and Pavement Markings.** All markings are Durable Paint. Thermo is to be used on asphalt and Tape is to be used on concrete. Water blasting existing stripe, pavement marking removal, and remove pavement lens is for the undisturbed concrete pavement. Install inlaid pavement markers per Standard Drawings. Refer to the Striping Plans, Striping Summary, Special Note for Staking, and Pavement Marking Detail Sheets for more information.

**Removal of Existing Signing and Installation of Proposed Signing.** A quantity of "Remove Sign" has been included in the Sign Summary for removal of existing signing along the corridor. The Department will consider all signs attached to one or more connected posts as a single sign. The Department will measure each sign assembly removed and not each individual sign removed. See the Signing Plan Sheets for locations of signs to be removed. An estimated quantity of new signing, sign post, and Type D installation is included on the Proposed Signing Summary. Refer to the Plan Sheets, Special Note for Signing, and Special Note for Staking for more details.

**Remove, Store & Reinstall Signs.** A quantity of "Remove-Store and Reinstall Sign" has been included in the contract for existing sheet signs that may obstruct or interfere with proposed construction activities. Do not remove an existing sign until just prior to working in the vicinity of the sign. Reinstall the sign as soon as possible once the construction activities in the vicinity of the sign has reached a stage that the sign will no longer be an obstruction or interfere with the work. The intent is for the sign to be "down" the minimum length of time necessary.

**Existing Roadway Signs.** The contractor is to take care not to damage any existing roadway signs labeled as Do Not Disturb (DND) on the Plans, or as directed by District 5 Traffic representatives and/or the Engineer. Any roadway signs that are damaged during construction are to be replaced at the contractor's expense in accordance with section 105.08 of the standard specifications.

**Rock Excavation.** A quantity of 2,113 CUYD of solid rock excavation is included in the Roadway Excavation quantity. Locations of Rock Excavation include the left side of Ramp D and right side of Ramp D Slip Ramp. Refer to the Typical Sections and Cross Sections for more information.

**Maintenance of Traffic.** Refer to the Traffic Control Plan and Phasing Plan Sheets for more information on Maintenance of Traffic. Temporary Signs, Delineator for Barrier – White, Barricade Type III, Relocate Temporary Concrete Barrier, Portable Changeable Message Sign, Arrow Panel, Crash Cushion TY VI Class BT TL3, Relocate Crash Cushion, Concrete Barrier Wall TY 9T, Temporary Striping, Painted Arrows, Striping Removal, and Law Enforcement Officer are included on the General Summary for Maintenance of Traffic. Pavement Quantities for Maintenance of Traffic are also included on the Paving Summary. The bid item Maintenance of Traffic shall include all items not specifically listed on the Summary Sheets that are needed to maintain and control traffic throughout construction. Refer to the Traffic Control Plan and MOT Plan Sheets for more information.

## SPECIAL NOTE FOR STAKING

---

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

1. Contrary to Section 201, perform items 1-2 usually performed by the Engineer.
2. Verify the dimensions, type, and quantities of the culvert pipes, entrance pipes, and/or box culverts as listed and detailed in the proposal, and determine flow line elevations and slopes necessary to provide positive drainage. Revise as necessary to accommodate the existing site conditions; to provide proper alignment of the drainage structures with existing and/or proposed ditches, stream channels, swales, and the roadway lines and grades; and to ensure positive drainage upon completion of the work.
3. Using stakes, paint marks on the pavement, mag nails, and/or any other means approved by the Engineer, the Contractor shall mark and/or stake the proposed sign locations in the field. NOTE: The proposed signs are listed in the proposal by approximate location and are NOT to be taken as the exact location for the signs. During staking operations the Contractor shall review the signing layout and existing field conditions and look for potential conflicts, including but not limited to utilities, driveways, visual obstructions, etc. When conflicts are found, adjust the staked location of signs to mitigate conflicts. Because the sign locations in the proposal are approximate and the location of some signs may need to be adjusted due to conflicts, during staking operations the Contractor shall refer to and utilize the information in the Manual on Uniform on Traffic Control Devices (MUTCD), current edition. The MUTCD cover items such as: appropriate sign location, advance placement distances, and spacing requirements for signing. The intent is for the proposed signs to be consistent with, and meet the requirements of, the MUTCD. Once the proposed sign locations have been staked, notify and coordinate with the District Traffic Engineer, and perform a review of the staked locations. Adjust the staked locations, as directed by the District Traffic Engineer and obtain approval of the final staked locations. This review will also be used to determine if there are any existing signs that require removal and/or relocation. Provide the District Traffic Engineer with 2 weeks of notice when a route will be ready for a review of the staked locations. NOTE: The District Traffic Engineer may determine that the proposed signing, including sign types and messages, needs to be adjusted and/or modified from what is shown in the proposal. Therefore, the Contractor shall not order any sign material for a route until the route has been staked and final sign location approval has been given by the District Traffic Engineer.
4. Produce and furnish to the Engineer "As Built" information for the construction of US 60 and Ramps widening for dual left turn lanes and the drainage improvements. For construction of dual left turn lanes, as built information will consist of a record of the final pavement cross slopes every 50 feet, along US 60 and the Ramps. For the drainage improvements, as built information will consist of a final record of the actual types, sizes, and locations of the drainage structures (i.e. box inlets, headwalls, junction boxes, etc.), culvert pipes, and/or box culverts constructed. Final elevation data of the drainage



Staking  
Page 2 of 2

improvements is not necessary.

5. Using paint marks on the pavement, and/or any other means approved by the Engineer, the Contractor shall layout and pre-mark the proposed striping, pavement markings, etc. Adjust as necessary to accommodate the existing site conditions and to provide proper alignment of the proposed thru and turning lanes. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the striping and/or pavement markings.
6. Prior to incorporating into the work, obtain the Engineers approval of all revisions determined by the Contractor.
7. Perform any and all other staking operations required to control and construct the work.

## **SPECIAL NOTE FOR EROSION CONTROL**

---

### **I. DESCRIPTION**

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

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

### **II. MATERIALS**

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

### **III. CONSTRUCTION**

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

## Erosion Control

### Page 2 of 3

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

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

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

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

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

The use of Temporary Mulch is encouraged.

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

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

Erosion Control  
Page 3 of 3

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

**IV. MEASUREMENT**

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

**V. BASIS OF PAYMENT**

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

## SPECIAL NOTES FOR PIPE REPLACEMENTS / EXTENSIONS

---

### I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Maintaining and Controlling Traffic; (2) Constructing pipe replacements and/or pipe extensions; (3) Embankment and/or Excavation; (4) Erosion Control; and (6) Any other work as specified by this contract.

### II. MATERIALS

Provide for sampling and testing of all materials in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these notes.

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Culvert Pipe.** Furnish pipe meeting the requirements of Section 810. Select pipe for pH range Medium and minimum fill cover height according to the applicable Standard or Sepia Drawings, current editions. Verify maximum and minimum fill cover height required for new pipe prior to construction and obtain the Engineer's approval of the class or gauge of pipe and type of coating prior to delivering pipe to project. Furnish approved connecting bands or pipe anchors and toe walls.

**C. Flowable Fill.** Furnish Flowable Fill for Pipe Backfill per Section 601.03.03(B).

**D. Erosion Control.** See Special Note for Erosion Control.

### III. CONSTRUCTION METHODS

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Erosion Control.** See Special Note for Erosion Control.

**C. Site Preparation.** Be responsible for all site preparation including, but not limited to, saw cutting and removing pavement; clearing and grubbing; staking; incidental excavation and backfilling; common and solid rock excavation; embankment in place; removal of obstructions, or any other items; restoration of pavements, slopes, and all disturbed areas; final dressing and cleanup; and disposal of materials. Limit clearing and grubbing to the absolute minimum required to construct the drainage features. Perform all site preparation only as approved or directed by the Engineer.

Pipe Replacements/Extensions  
Page 2 of 5

- D. Removing Headwalls, Pipe, and Excavation.** Remove existing headwalls, drop box inlets, curb box inlets, and lengths of culvert and/or entrance pipes at the approximate locations noted on the summary and pipe sections. The Engineer will determine the exact locations and lengths of pipe to be removed at the time of construction. When removing pipe, or any portion of pipe under the roadway, saw cut the existing asphalt pavement and base to a neat edge prior to excavation and removal of the existing pipe. NOTE: Saw cutting the pavement shall be incidental. Obtain the Engineer's approval of trench width and/or saw cutting limits prior to saw cutting the pavement. Excavate the trench and remove the pipe as directed, or approved, by the Engineer without disturbing existing underground utilities.
- E. Constructing Pipe, Headwalls, and Drainage Boxes.** Construct culvert and/or entrance pipes, pipe extensions, headwalls, drainage boxes, and other drainage structures at the locations shown in the proposal or as designated by the Engineer. The contractor will establish, with the approval of the Engineer, the final centerlines, flow lines, and skews to obtain the best fit with the existing and/or proposed ditches and other proposed improvements. (See the Special Note for Staking.) Construct pipe bedding according to Section 701 and the applicable Standard or Sepia Drawings, current editions. Use approved connecting bands or concrete anchors as required. Prior to backfilling pipe, obtain the Engineer's approval of the pipe installation. Provide Positive drainage upon completion of pipe installation.
- F. Pipe Backfill.** Backfill entrance pipes according to Section 701.03.06. Contrary to Section 701.03.06, backfill culvert pipes with flowable fill for the width of the roadway and as shown on the Pipe Backfill Detail. Steel plates will likely be required to maintain traffic while the flowable fill cures. For Asphalt pavement: Once the flowable fill has sufficiently cured, place the Asphalt Base in lifts with thicknesses of 3-4 inches, up to the surface of the existing pavement. Seal with Leveling & Wedging. Allow the asphalt base and leveling & wedging to be exposed to traffic for a minimum of 14 days to allow for settlement. During the waiting period, level & wedge any settlement as directed by the Engineer. After the waiting period has been met for the last pipe replacement constructed, the final milling and/or surfacing operations can begin, unless directed otherwise by the Engineer. For Concrete pavement: Once the flowable fill has sufficiently cured, place 12" JPC Concrete pavement, up to the surface of the existing pavement.
- G. Embankments.** Backfill pipe and culvert extensions, and construct shoulder embankments as directed by the Engineer. The contractor shall bench into the existing slope and apply proper compaction according to Section 206. Provide positive drainage of ditches, shoulders, and slopes at all times during, and upon completion of construction.
- H. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Repair or replace damaged roadway features in like kind materials and design, as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.

Pipe Replacements/Extensions  
Page 3 of 5

- I. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that 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. Be responsible for repairing all utility damage that occurs as a result of pipe replacement and pipe extension operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.
- J. Right-of-Way Limits.** The Department has not established exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.
- K. Clean Up, Disposal of Waste.** Clean up the project area as work progresses. Dispose of all removed concrete, pipe, pavement, debris, excess and unsuitable excavation, and all other waste at approved sites off the Right of Way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- L. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- M. Erosion Control.** See the Special Note for Erosion Control.

**IV. METHOD OF MEASUREMENT**

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Site Preparation.** Other than the bid items listed, site preparation will NOT be measured for payment, but shall be incidental to culvert and/or entrance pipe bid items, as applicable.

Pipe Replacements/Extensions  
Page 4 of 5

- C. Remove Headwall, Remove Drop Box Inlet, Remove Curb Box Inlet.** The Department will measure the removal of existing headwalls, drop box inlets, and curb box inlets as Each. Any excavation, including rock excavation, necessary to remove existing drainage structures will NOT be measured for payment, but shall be incidental to the bid item “Remove Headwall”.
  - D. Remove Pipe.** Removal of existing culvert and entrance pipe shall be measured according to Section 701.04.14. Any excavation, including rock excavation, necessary to remove existing pipe will NOT be measured for payment, but shall be incidental to the bid item “Remove Pipe”.
  - E. Culvert and Entrance Pipe.** The Department will measure the quantities according to Section 701.04. Any excavation, in addition to the Roadway Excavation quantity provided in the summary, including rock excavation, necessary to install culvert or entrance pipe shall be incidental to the corresponding pipe bid items.
  - F. Headwalls, Drainage Boxes.** The Department will measure according to Section 710. Any excavation, including rock excavation, necessary to construct headwalls and/or drainage boxes will NOT be measured for payment, but shall be incidental to the applicable bid item.
  - G. Excavation, Pipe Backfill, Embankments.** The Department will NOT measure for payment the following items: any excavation, in addition to the Roadway Excavation quantity provided in the summary, including rock excavation, necessary to remove the existing pipe and/or install the proposed culvert or entrance pipe, pipe backfill material, flowable fill, and re-constructing shoulder embankments, but shall considered these items incidental to the bid items for culvert and entrance pipe.
  - H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental to the project bid items. Seeding and Protection shall be measured according to Section 212.
  - I. Erosion Control.** See the Special Note for Erosion Control.
- V. BASIS OF PAYMENT**
- A. Maintain and Control Traffic.** See the Traffic Control Plan.
  - B. Remove Headwall, Remove Drop Box Inlet, Remove Curb Box Inlet.** The Department will make payment for the completed and accepted quantities of Each headwall, drop box inlet, and curb box inlet removed. Payment at the Contract unit price per Each shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing headwall.



Pipe Replacements/Extensions  
Page 5 of 5

- C. Remove Pipe.** The Department will make payment according to Section 701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing pipe.
- D. Culvert and Entrance Pipe.** The Department will make payment according to Section 701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals necessary for installing and backfilling new culvert and entrance pipe.
- E. Headwalls, Drainage Boxes.** The Department will make payment according to Section 710.
- F. Erosion Control.** See the Special Note for Erosion Control.

## **SPECIAL NOTE FOR SIGNAGE**

---

All sign sheeting shall be from the Cabinet's List of Approved Materials.

All permanent signs and sign components shall be fabricated using Type XI sheeting.

The following signs and sign components shall be fabricated using Type XI fluorescent yellow sheeting:

- Horizontal Alignment Signs and Plaques, including signs shown in Figure 2C-1 of the MUTCD
- All Advisory Speed (W13-1P) plaques

The following signs shall be fabricated using Type XI fluorescent yellow-green sheeting:

- School and school bus warning signs, including the fluorescent yellow-green signs shown in Figures 7B-1 and 7B-6 of the MUTCD and other school-related warning signs that are not included in the MUTCD.
- Bicycle Warning (W11-1) signs and SHARE THE ROAD (W16-1P) plaques or diagonal downward pointing arrow (W16-7P) plaques that supplement Bicycle Warning signs.
- Pedestrian Warning signs and diagonal downward pointing arrow plaques that supplement Pedestrian Warning signs.
- In-Street Pedestrian Crossing (R1-6) signs and Overhead pedestrian Crossing (R1-9) signs
- Supplemental plaques to any of the previously listed signs

## SPECIAL NOTE FOR SIGNING

---

### I. DESCRIPTION

Except as provided herein, this work shall be performed in accordance with the current edition of the Manual on Uniform Traffic Control Devices (MUTCD), the Department's current Standard Specifications and Interim Supplemental Specifications, applicable Standard and Sepia Drawings, and applicable Special Provisions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

- (1) Maintaining and Controlling Traffic; (2) Furnish, Fabricate, and Erect Signs; and
- (3) All other work specified in the Contract.

### II. MATERIALS

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Erosion Control.** See Special Note for Erosion Control.

### III. CONSTRUCTION METHODS

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Site Preparation.** Be responsible for all site preparation including, but not limited to: clearing and grubbing, staking, excavation, backfill, and removal of obstructions or any other material not covered by other items. Perform all site preparation only as approved, or directed, by the Engineer.

**C. Staking.** See Special Note for Staking.

**D. Signs and Posts.** Before beginning installation, the Contractor shall furnish to the Engineer drawings, descriptions, manufacturer's cuts, etc. covering all material to be used. Mill test reports for beams, steel panels, and each different gauge of aluminum or steel sheeting used must be submitted to the Division of Construction and approved prior to erection.

Fabricate sheet signs from .080 or .125 gauge aluminum alloy 5052-H38 or 6061-T6, in accordance with ASTM B-209, and to the size and shape specified. Prepare the side of the sheet to be used as the sign face to receive the retroreflective background material

Signing  
Page 2 of 6

according to the recommendations of the sheeting and retroreflective material manufacturer(s). Sheeting used as background material for sign faces is to be the color specified and visually in accordance with the standard requirements of ASTM D-4956, and meet the requirements of Section 830 of the Standard Specifications. Contrary to Section 830.02.06, only the types and colors of sheeting as specified in the proposal will be accepted. All retroreflective material shall be fabricated and assembled in accordance with the specifications and/or recommendations of the manufacturer(s).

All hardware for the erection of sheeting signs shall be rust resistant: stainless steel, zinc coated, aluminum, or an Engineer approved material. All beams and posts shall be of sufficient lengths to extend from the top of the sign to the required embedment in the anchor. Splicing of the sign post shall NOT be allowed. For installations in soil, Type I steel posts shall be mounted on either a standard anchor, with soil stabilizer plate, or on a Type D breakaway sign support. Refer to Sheeting Sign Detail Sheet 1 of 2 for installation details for a standard anchor with soil stabilizer plate. When installing a standard anchor with soil stabilizer plate, if solid rock is encountered, the Contractor shall drill a hole to the required depth into the rock, install the anchor into the hole, and backfill the anchor post with concrete, or other method approved by the Engineer. The cost shall be incidental to Type I steel post, and a soil stabilizer plate will not be required. Refer to Standard Drawing RGX-065, current edition, for installation details of Type D breakaway sign supports. Approved manufacturers for Type D breakaway sign supports have been placed on the list of approved materials. For installations on existing concrete, such as a sidewalk, concrete median, etc., or installations on existing asphalt, such as flush medians, Type I steel posts shall be mounted on a Type D Surface Mount. For Type D Surface Mounts use only Kleen Break Model 425 by Xcessories Squared of Auburn, IL. If the Surface Mount is to be installed on sufficiently cured concrete, use part number XKBSM42520-G. If the Surface Mount is to be installed on asphalt surface, use part numbers XKB42520-G and AXT225-36-G. Prior to installation, the Contractor shall submit to the Engineer shop drawings of the Type D Surface Mount(s). Install the Type D Surface Mount(s) according to all the applicable requirements of the manufacturer (see shop drawings). All steel post shall meet the requirements of Section 832. All hardware including, but not limited to, sign post anchors, soil stabilizer plates, nuts, bolts, washers, fasteners, fittings, and bracing, or any other incidentals necessary to erect the signs shall be furnished by the Contractor and will be incidental to the work.

New concrete bases, posts, support anchors, signs, etc. are to be installed prior to dismantling any existing sign(s). The removal of existing signs, posts, and support anchors is to be performed concurrently with the installation of new signs, posts, and support anchors, under the same lane closure during the same work shift. Completely remove existing sign support anchors or remove them to a minimum depth of six (6) inches below existing ground line and backfill the disturbed area to the existing ground line.

When listed in the summaries, Reflective Sign Post Panels shall be 2" wide x 60" tall (or 84" tall for urban installations) and shall have three 3/8" holes (one hole in the top 3", one hole near the center, and one hole in the bottom 3") that align with the holes on the Type I

Signing  
Page 3 of 6

steel post. Sheeting for the Reflective Sign Post Panels shall be the same Type and color as the sign installed on the post. Examples include:

- Red, fluorescent yellow, and fluorescent yellow-green (Type XI Sheeting)
- White and yellow (Type XI Sheeting).

All manufactured sheeting signs shall be free of visual defects including, but not limited to: cracks, tears, ridges, humps, discoloration, etc., and defective signs shall be replaced at no additional cost to the Department.

All sign blanks shall be hole punched by the manufacturer for either horizontal or vertical installation. Attach all aluminum sheeting signs to square post with 3/8" all steel rivets and nylon washers.

Post will be attached to the anchor with 5/16" corner bolts and 5/16" flanged nuts, and all post and anchor cuts shall be treated with a Cold Galvanizing Compound spray.

Sign posts shall be erected vertically by using a bubble level. The tolerance shall be a two (2) degree angle in any direction. For locations where there are more than one sign is mounted beside each other, the posts shall be spaced to provide approximately six inches (6") of spacing between signs.

**E. Property Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the Contractor's activities. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.

**F. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that 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. Be responsible for repairing all utility damage that occurs due to the Contractor's operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.

Signing  
Page 4 of 6

**G. Caution.** The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

**H. Control.** Perform all work under the absolute control of the Department. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces, and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties.

Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and the Engineer's decision shall be final and binding upon the Contractor.

**I. Clean Up, Disposal of Waste.** Clean up the project area as work progresses. Dispose of all removed concrete, debris, and other waste as per Section 204.03.08. The Department will incur no cost to obtain the disposal sites. The Department will NOT make direct payment for disposal of waste and debris from the project. Existing anchors, signs, posts, and any other hardware or material removed from the site are to become the property of the Contractor. See Special Provision for Waste and Borrow Sites.

**J. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

**K. Erosion Control.** See Special Note for Erosion Control.

#### IV. METHOD OF MEASUREMENT

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Site Preparation.** Other than the bid items listed, the Department will NOT measure Site Preparation for payment, but shall be incidental to the project bid items.

Signing  
Page 5 of 6

- C. Signs.** The Department will measure the finished in-place area of signs in Square Feet.
- D. Sign Posts.** The Department will measure the finished in-place length of sign posts in Linear Feet, from the top of the anchor, or top of the sign support, to the top of the sign post. Laps, cutoffs, excess, and waste will NOT be measured for payment.
- E. Type D Breakaway Sign Supports.** The Department will measure Type D sign supports as Each support installed.
- F. Type D Surface Mounts.** The Department will measure Type D Surface Mounts as Each surface mount installed.
- G. Class A Concrete for Signs.** The Department will measure the Class A Concrete used in conjunction with Type D breakaway sign support installations in Cubic Yards. Any concrete that is required as backfill due to hitting rock during a standard installation shall be incidental to the bid item STEEL POST TYPE I, and soil stabilizers will not be required.
- H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental. Seeding and Protection shall be measured according to Section 212.
- I. Erosion Control.** See Special Note for Erosion Control.
- J. Remove Sign.** The Department will consider all signs attached to one or more connected posts as a single sign. The Department will measure as Each sign assembly removed and NOT each individual sign removed.
- K. Items Provided by KYTC.** The Department will NOT measure for payment the installation of signs and/or surface mounts provided by KYTC. These activities shall be incidental to the bid item STEEL POST TYPE I.

**V. BASIS OF PAYMENT**

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Signs.** The Department will make payment for the completed and accepted quantities under the bid item SBM ALUM SHEET SIGNS .125 IN or .080 IN. The Department will consider payment full compensation for all work and incidentals necessary to install the signs, as required by these notes and the details found elsewhere in the proposal, at the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.

Signing  
Page 6 of 6

- C. Sign Posts.** The Department will make payment for the completed and accepted quantities under the bid item STEEL POST TYPE I. The Department will consider payment full compensation for all work and incidentals necessary to install the sign posts as required by these notes and the details found elsewhere in the proposal.
- D. Type D Breakaway Sign Supports.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D. The Department will consider payment full compensation for all work and incidentals necessary to install the Type D breakaway sign supports as required by Standard Drawing RGX-065, current edition.
- E. Type D Surface Mounts.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D (SURFACE MOUNT). The Department will consider payment full compensation for all work and incidentals necessary to install the Type D surface mounts according to all applicable manufacturer requirements.  
NOTE: The permissible Type D Surface Mount alternative is: Kleen Break Model 425 for Surface Mount Concrete Installations by Xcessories Squared of Auburn, IL
- F. Class A Concrete for Signs.** The Department will make payment for the completed and accepted quantities, used in conjunction with Type D breakaway sign support installations, under the bid item CLASS A CONCRETE FOR SIGNS. The Department will consider payment full compensation for all work and incidentals necessary to install the concrete as required by Standard Drawing RGX-065, current edition.
- G. Remove Sign.** The Department will make payment for the completed and accepted quantities under the bid item REMOVE SIGN. The Department will consider payment full compensation for all work and incidentals necessary to remove the existing signs, posts, anchors, and any other sign material or hardware, from the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.
- H. Erosion Control.** See Special Note for Erosion Control.



SPECIAL NOTE FOR INLAID PAVEMENT MARKERS

I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard and Supplemental Specifications and applicable Standard and Sepia Drawings, current editions. Article references are to the Standard Specifications. This work shall consist of:

- (1) Maintain and Control Traffic; and (2) Furnish and install Inlaid Pavement Markers (IPMs) in recessed grooves; and (3) Any other work as specified by these notes and the Contract.

II. MATERIALS

The Department will sample all materials in accordance with the Department's Sampling Manual. Make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

- A. **Maintain and Control Traffic.** See the Traffic Control Plan.
- B. **Markers.** Provide reflective lenses with depth control breakaway positioning tabs. Before furnishing the markers, provide to the Engineer the manufacturer’s current recommendations for adhesives and installation procedures. Use one brand and design throughout the project. Use markers meeting the specifications in the table below.

SPECIFICATIONS FOR HOUSING AND REFLECTOR	
Material:	Polycarbonate Plastic
Weight:	Housing 2.00 oz.
	Reflector 2.00oz.
Housing Size:	5.00" x 3.00" x 0.70" high
Specific Intensity of Reflectivity at 0.2° Observation Angle	
White:	3.0 at 0°entrance angle
	1.2 at 20°entrance angle
Yellow:	60% of white values
Red:	25% of white values

- C. **Adhesives.** Use adhesives that conform to the manufacturer’s recommendations.

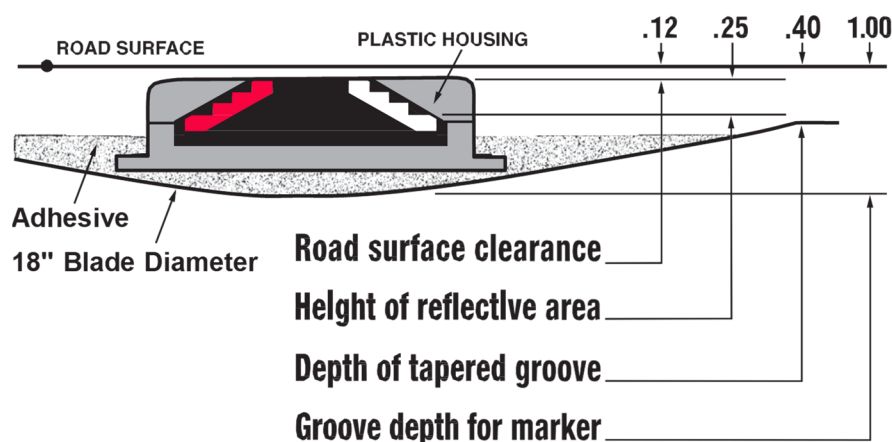
# Inlaid Pavement Markers

## Page 2 of 4

### III. CONSTRUCTION

- A. Experimental Evaluation.** The University of Kentucky Transportation Center will be evaluating this installation of IPMs. Notify the Engineer a minimum of 14 calendar days prior to beginning work. The Engineer will coordinate the University's activities with the Contractor's work.
- B. Maintain and Control Traffic.** See the Traffic Control Plan.
- C. Installation.** Install IPMs in recessed grooves cut into the final course of asphalt pavement according to the manufacturer's recommendations. Do not cut the grooves until the pavement has cured sufficiently to prevent tearing or raveling. Cut installation grooves using diamond blades on saws that accurately control groove dimensions. Remove all dirt, grease, oil, loose or unsound layers, and any other material from the marker area which would reduce the bond of the adhesive. Maintain pavement surfaces in a clean condition until placing markers.

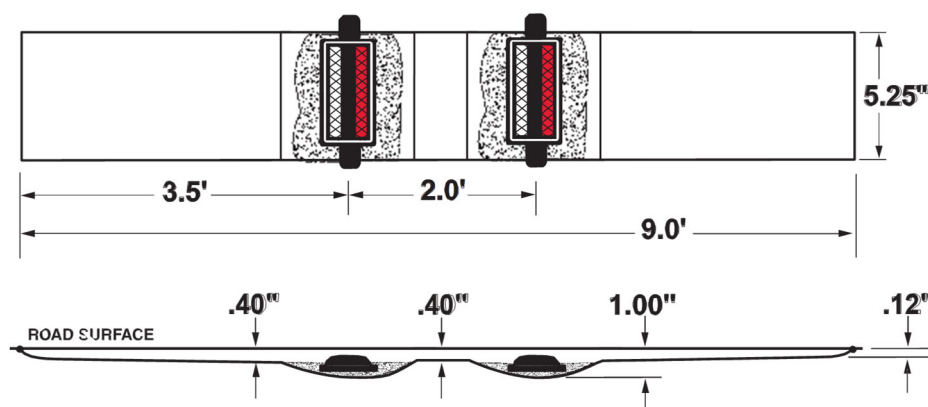
Prepare the pavement surfaces, and install the markers in the recessed groove according to the drawing below. Ensure that the adhesive bed area is equal to the bottom area of the marker, and apply adhesive in sufficient quantity to force excess out around the entire perimeter of the marker. Use materials, equipment, and construction procedures that ensure proper adhesion of the markers to the pavement surface according to the manufacturer's recommendations. Remove all excess adhesive from in front of the reflective faces. If any adhesive or foreign matter cannot be removed from the reflective faces, or if any marker fails to properly adhere to the pavement surface, remove and replace the marker at no additional cost to the Department.



- D. Location and Spacing.** Install the markers in the pattern for high reflectivity with two (2) IPMs per groove. Locate and space markers as shown in the current Standard Drawings or Sepias. (Note: use Inlaid Pavement Markers wherever Type V Pavement Markers are called for.) Do not install markers on bridge decks. Do not install a marker

# Inlaid Pavement Markers Page 3 of 4

on top of a pavement joint or crack. Offset the recessed groove a minimum of 2 inches from any longitudinal pavement joint or crack and at least one inch from the painted stripe, ensuring that the finished line of markers is straight with minimal lateral deviation. Give preference to maintaining the 2-inch offset between recessed groove and joint as opposed to keeping the line of markers straight.



Place inlaid markers as much in line with existing pavement striping as possible. Place markers installed along an edge line or channelizing line so that the near edge of the plastic housing is no more than one inch from the near edge of the line. Place markers installed along a lane line between and in line with the dashes. Do not place markers over the lines except where the lines deviate visibly from their correct alignment, and then only after obtaining the Engineer's prior approval of the location.

If conflicts between recessed groove placement in relation to pavement joint and striping cannot be resolved, obtain the Engineer's approval to eliminate the marker or revise the alignment.

- E. Disposal of Waste.** Dispose of all removed asphalt pavement, debris, and other waste at sites off the right of way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- F. Restoration.** Be responsible for all damage to public and/or private property resulting from the work. Restore all damaged features in like kind materials and design at no additional cost to the Department.
- G. On-Site Inspection.** Make a thorough inspection of the site prior to submitting a bid and be thoroughly familiar with existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid as evidence of this inspection having been made and will not honor any claims for money or grant Contract time extensions resulting from site conditions.

Inlaid Pavement Markers  
Page 4 of 4

**H. Caution.** The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer

**IV. MEASUREMENT**

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Inlaid Pavement Markers.** The Department shall measure as Each. One (1) installation of "INLAID PAVEMENT MARKER" will consist of grooving the pavement, removing asphalt cuttings and debris, preheating pavement to remove moisture, adhesives, and installation of two (2) markers with all lenses in accordance with this note.

**Note: Each pay item of Inlaid Pavement Marker will require two markers.**

**V. PAYMENT**

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Inlaid Pavement Markers.** The Department will make payment for the completed and accepted quantities of completely installed "INLAID PAVEMENT MARKERS" at the Contract unit price, Each. Accept payment as full compensation for all labor, equipment, materials, and incidentals necessary to accomplish this work to the satisfaction of the Engineer. A system of one (1) groove and two (2) markers shall be paid as one "INLAID PAVEMENT MARKER". The bid item "INLAID PAVEMENT MARKER" shall be used regardless of the color and type of lenses required.

## **SPECIAL NOTES FOR COMPLETION DATES & LIQUIDATED DAMAGES**

---

The ultimate fixed completion date for this project will be **July 31, 2022**. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

Contrary to Section 108.09, Liquidated Damages will be assessed for the months of December through March.

Contrary to Section 108.09, Liquidated Damages will be assessed regardless of whether seasonal limitations prohibit the Contractor from performing work on the controlling operation.

All liquidated damages will be applied accumulatively.

All other applicable portions of Section 108 apply.

## **SPECIAL PROVISION FOR WASTE AND BORROW SITES**

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

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

## **COORDINATION OF WORK WITH OTHER CONTRACTS**

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

1-3193 Coordination Contracts  
01/02/2012

## **SPECIAL NOTE FOR DOUBLE ASPHALT SEAL COAT**

Use RS-2 or RS-2C asphalt material that is compatible with the seal aggregate. Apply the first course of asphalt seal coat at the rate of 3.2 lbs/sy of asphalt and 30 lbs/sy of size #78 seal coat aggregate. Apply the second course at 2.8 lbs/sy of asphalt and 20 lbs/sy of size #9M seal coat aggregate. The Engineer may adjust the rate of application as conditions warrant. Use caution in applying liquid asphalt material to avoid over spray getting on curbs, gutter, barrier walls, bridges, guardrail, and other roadway appurtenances.

The Department will not measure any surface preparation required prior to applying the asphalt seal coat, but shall be incidental to “Asphalt Material for Asphalt Seal Coat”.

1-3215 Double Asphalt Seal Coat  
01/02/2012



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

Begin paving operations within **48 hours** of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, the Department will assess liquidated damages at the rate prescribed by Section 108.09 until such time as paving operations are begun.

Take possession of the millings and recycle the millings or dispose of the millings off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department.

1-3520 48 hours Contractor keeps millings  
01/2/2012

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

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

1-3725 Typical Section Dimensions  
01/02/2012

## **TRAFFIC CONTROL PLAN**

---

### **TRAFFIC CONTROL GENERAL**

Except as provided herein, traffic shall be maintained in accordance with the current editions of the Manual on Uniform Traffic Control Devices (MUTCD), Standard Specifications, and the Standard and Sepia Drawings. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to “Maintain and Control Traffic”.

The lump sum bid to “Maintain and Control Traffic” shall also include, but is not limited to, the following items and operations:

- A. All grading and necessary drainage for the temporary roadway and removal thereof, when it is no longer needed.
- B. All labor and materials necessary for construction and maintenance of traffic control devices and markings.
- C. All flag persons and traffic control devices such as, but not limited to, flashers, sign barricades and vertical panels, plastic drums (steel drums will not be permitted) and cones necessary for the control and protection of vehicular and pedestrian traffic as specified in these notes, the plans, the MUTCD, or the Engineer.

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. Any temporary traffic control items, devices, materials, and incidentals shall remain the property of the contractor unless otherwise addressed, when no longer needed.

### **PROJECT PHASING & CONSTRUCTION PROCEDURES**

Refer to the Plan Set – Maintenance of Traffic sheets for construction phasing. In summary:

- Phase 1: Widening at the beginning and end of project
- Phase 2: Widening of Ramps
- Phase 3: Widening of US 60
- Phase 4: Completion of Surfacing, Striping, and Signing

The Contractor shall completely cover any signs, either existing, permanent, or temporary, which do not properly apply to the current traffic phasing, and shall maintain the covering until the signs are applicable or are removed.

In general, all traffic control devices shall be placed starting and proceeding in the direction of the flow of traffic and removed starting and proceeding in the direction opposite the flow of traffic.

The Engineer and the Contractor, or their authorized representatives, shall review the signing before traffic is allowed to use any lane closures, crossovers or detours. All signing shall be approved by the Engineer before work can be started by the Contractor.

## Traffic Control Plan Page 2 of 11

Do not erect lane closures on the following days and times:

Labor Day Weekend	3 PM Friday, Sept. 3, 2021 – 6 PM Monday, Sept. 6, 2021
Thanksgiving Weekend	3 PM Wednesday, Nov. 24, 2021- 9 AM Monday, Nov. 29, 2021
Christmas Holiday	3 PM Thursday, Dec. 23, 2021 – 9 AM Monday, Dec. 27, 2021
New Year's	3 PM Thursday, Dec. 30, 2021 – 6 PM Sunday, Jan. 2, 2022
Independence Day Weekend	3 PM Friday, July 1, 2022 – 6 PM Tuesday, July 5, 2022

Additionally,

- No lane closures or traffic stoppage from 6:00am to 9:00am and from 3:00pm to 6:00pm on Monday through Friday
- Temporary lane closures between 9:00am and 3:00pm will be allowed on Monday through Friday and for a limited number of weekends with approval from the Engineer
- Traffic stoppages of 15 minutes or less will be allowed between 9:00am and 3:00pm on Monday through Friday and on the weekends with approval from the Engineer

The Engineer may specify additional days and hours when lane closures will not be allowed.

At locations with three or more lanes, maintain one lane of traffic in each direction at all times during construction. At locations with two lanes, maintain alternating one way traffic during construction and provide a minimum clear lane width of 10 feet. At locations with one lane, such as at exit and entrance ramps, a partial lane closure is permitted during construction, as long as a minimum clear lane width of 10 feet is maintained. NOTE: During any lane closure or partial lane closure, make provisions for the passage of vehicles of up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus or emergency vehicle on an official run arrives on the scene, make provisions for the passage of the school bus or emergency vehicle as quickly as possible.

The Department will allow night work on this project. Obtain the Engineer's approval of the method of lighting prior to performing night work.

Take these restrictions into account in submitting bid. The Department will not consider any claims for money or grant contract time extensions for any delays to the Contractor as a result of these restrictions.

### **LANE AND SHOULDER CLOSURES**

When the road is open to through traffic, do not leave lane closures in place during non-working hours. Maintain lane closures only during hours of actual operations. Reduce lane closures to a shoulder closure, or remove as appropriate, when active operations do not require a lane closure. The Engineer will permit shoulder closures during non-working hours; however do not park equipment or store materials on a closed shoulder during non-working hours. The Engineer may designate days and hours when lane and/or shoulder closures will not be allowed.

Traffic Control Plan  
Page 3 of 11

## **LAW ENFORCEMENT PRESENCE**

At the Direction of the Engineer, Law Enforcement presence will be required at directed locations and times for traffic control.

## **TEMPORARY SIGNS**

Temporary sign posts and splices shall be compliant with NCHRP 350 or MASH. Manufacturer's documentation validating this compliance shall be provided to the Engineer prior to installation. Temporary signs, including any splices, shall be installed according to manufacturer's specifications and installation recommendations. Contrary to section 112.04.02, only long-term temporary signs (temporary signs intended to be continuously in place for more than 3 days) will be measured for payment. Short-term temporary signs (temporary signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

## **ARROW PANELS**

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Arrow Panels only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged Arrow Panels or for panels signs the Engineer directs be replaced due to poor condition or readability for payment. Retain possession of the Arrow Panels upon completion of the work.

## **CHANGEABLE MESSAGE SIGNS**

Provide changeable message signs in advance of and within the project at locations determined by the Engineer. If work is in progress concurrently in both directions or if more than one lane closure is in place in the same direction of travel, provide additional changeable message signs as directed by the Engineer. Place 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 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 Engineer may vary the designated locations as the work progresses. The Engineer will determine the messages to be displayed. In the event of damage or mechanical/electrical failure, repair or replace the Changeable Message Sign within 24 hours. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Changeable Message Signs only once for payment, regardless of how many times

Traffic Control Plan  
Page 4 of 11

they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged Changeable Message Signs or for signs the Engineer directs be replaced due to poor condition or readability. Retain possession of the Changeable Message Signs upon completion of the work.

## **TEMPORARY ENTRANCES**

The Engineer will not require the Contractor to provide continuous access to farms, single family, duplex, or triplex residential properties during working hours; however, provide reasonable egress and ingress to each such property when actual operations are not in progress at that location. Limit the time during which a farm or residential entrance is blocked to the minimum length of time required for actual operations, not extended for the Contractor's convenience, and in no case exceeding six (6) hours. Notify all residents twenty-four hours in advance of any driveway or entrance closings and make any accommodations necessary to meet the access needs of disabled residents.

Except as allowed by the Phasing as specified above, maintain direct access to all side streets and roads, schools, churches, commercial properties and apartments or apartment complexes of four or more units at all times.

The Department will measure asphalt materials required to construct and maintain any temporary entrances which may be necessary to provide temporary access; however, the Department will not measure aggregates, excavation, and/or embankment, but shall be incidental to Maintain and Control Traffic. The Engineer will determine the type of surfacing material, asphalt or aggregate, to be used at each entrance.

## **TRAFFIC SIGNAL LOOPS**

Install traffic signal loops according to the Special Notes for Traffic Signal Loop Replacement. Coordinate the placement of the loops with the Engineer.

## **BARRICADES**

The Department will not measure barricades used in lieu of barrels and cones for channelization or delineation, but shall be incidental to Maintain and Control Traffic according to Section 112.04.01.

The Department will measure barricades used to protect pavement removal areas in individual units. Each. The Department will measure for payment the maximum number of barricades in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual barricades only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged barricades the Engineer directs to be replaced due to poor condition or reflectivity. Retain possession of the Barricades upon completion of the work.

Traffic Control Plan  
Page 5 of 11

## **PAVEMENT EDGE DROP-OFFS**

Do not allow a pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation with an elevation difference greater than 1½". Place Warning signs (MUTCD W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual post the signs on both sides of the traveled way. Wedge all transverse transitions between resurfaced and unresurfaced areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course.

Protect pavement edges that traffic is not expected to cross, except accidentally, as follows:

Less than 2" - No protection required. Warning signs should be placed in advance and throughout the drop-off area.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. During daylight working hours only, the Engineer will allow the Contractor to use cones in lieu of plastic drums, panels, and barricades. Wedge the drop-off with DGA or asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

Greater than 4" – Positive separation or wedge with a 3:1 or flatter slope. If there is five feet or more distance between the edge of pavement and drop-off, then drums, panels, or barricades may be used. If the drop-off is greater than 12 inches, positive separation is strongly encouraged. If concrete barriers are used, special reflective devices or steady burn lights should be used for overnight installations. Barricades may be used if the drop-off is greater than 12 inches.

For temporary conditions, drop-offs greater than four inches may be protected with plastic drums, vertical panels, or barricades for short distances during daylight hours while work is being done in the drop-off area.

Payment will be allowed for CSB material used for wedging.

Pedestrians & Bicycles - Protect pedestrian and bicycle traffic as directed by the engineer.

## **THERMOPLASTIC INTERSECTION MARKINGS**

Consider the locations listed on the summary as approximate only. Prior to milling and/or resurfacing, locate and document the locations of the existing markings. After resurfacing, replace the markings at their approximate existing locations or as directed by Engineer. Place markings not existing prior to resurfacing as directed by the Engineer.

Traffic Control Plan  
Page 6 of 11

## **REMOVE PAVEMENT MARKINGS**

When pavement markings are to be removed from any surface other than the final surface the pavement marking shall be removed by either an abrasive or burning process to the satisfaction of the Engineer. If the abrasive method is used, the area affected is to be coated with black (or more precisely, a color similar to that of the adjacent pavement surface) traffic paint. Painting of existing markings with bituminous or other materials to obliterate the markings shall not be allowed. Any temporary pavement markings made on the final surface pavement shall use temporary tape to avoid damage to the surface when removing markings.

## **PAVEMENT MARKINGS**

If there is to be a deviation from the existing striping plan, the Engineer will furnish the Contractor a striping plan prior to placement of the final surface course. Install Temporary Striping according to Section 112 with the following exceptions:

1. Include edge lines in Temporary Striping; and
2. Place Temporary or Permanent Striping before opening a lane to traffic; and
3. If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course, use an approved removable lane tape; however, the Department will not measure removable lane tape for separate payment, but will measure and pay for removable lane tape as temporary striping.



## **USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS**

The following policy is based upon current Changeable Message Signs (CMS) standards and practice from many sources, including the Federal Highway Administration (FHWA), other State Departments of Transportation, and Traffic Safety Associations. It is understood that each CMS installation or use requires individual consideration due to the specific location or purpose. However, there will be elements that are constant in nearly all applications. Accordingly these recommended guidelines bring a level of uniformity, while still being open to regional experience and engineering judgment.

### **Application**

The primary purpose of CMS is to advise the driver of unexpected traffic and routing situations. Examples of applications where CMS can be effective include:

- Closures (road, lane, bridge, ramp, shoulder, interstate)
- Changes in alignment or surface conditions
- Significant delays, congestion
- Construction/maintenance activities (delays, future activities)
- Detours/alternative routes
- Special events with traffic and safety implications
- Crash/incidents
- Vehicle restrictions (width, height, weight, flammable)
- Advance notice of new traffic control devices
- Real-time traffic conditions (must be kept up to date)
- Weather /driving conditions, environmental conditions, Roadway Weather Information Systems
- Emergency Situations
- Referral to Highway Advisory Radio (if available)
- Messages as approved by the County Engineer's Office

### **CMS should not be used for:**

- Replacement of static signs (e.g. road work ahead), regulatory signage (e.g. speed limits), pavement markings, standard traffic control devices, conventional warning or guide signs.
- Replacement of lighted arrow board
- Advertising (Don't advertise the event unless clarifying "action" to be taken by driver – e.g. Speedway traffic next exit)
- Generic messages
- Test messages (portable signs only)
- Describe recurrent congestion (e.g. rush hour)
- Public service announcements (not traffic related)

## Traffic Control Plan Page 8 of 11

### **Messages**

Basic principles that are important to providing proper messages and insuring the proper operation of a CMS are:

- Visible for at least ½ mile under ideal daytime and nighttime conditions
- Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- No more than two message panels should be used (three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- Do not use the sign for two unrelated messages
- Should not scroll text horizontally or vertically
- Should not contain both the words left and right
- Use standardized abbreviations and messages
- Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- Avoid use of speed limits
- Use words (not numbers) for dates

### **Placement**

Placement of the CMS is important to insure that the sign is visible to the driver and provides ample time to take any necessary action. Some of the following principles may only be applicable to controlled access roadways. The basic principles of placement for a CMS are:

- When 2 signs are needed, place on same side of roadway and at least 1,000 feet apart
- Place behind semi-rigid/rigid protection (guardrail, barrier) or outside of the clear zone
- Place 1,000 feet in advance of work zone; at least one mile ahead of decision point
- Normally place on right side of roadway; but should be placed closest to the affected lane so that either side is acceptable
- Signs should not be dual mounted (one on each side of roadway facing same direction)
- Point trailer hitch downstream
- Secure to immovable object to prevent theft (if necessary)
- Do not place in sags or just beyond crest
- Check for reflection of sun to prevent the blinding of motorist
- Should be turned ~3 degrees outward from perpendicular to the edge of pavement
- Bottom of sign should be 7 feet above the elevation of edge of roadway
- Should be removed when not in use

Traffic Control Plan  
Page 9 of 11

**Standard Abbreviations**

The following is a list of standard abbreviations to be used on CMS:

<b><u>Word</u></b>	<b><u>Abbrev</u></b>	<b><u>Example</u></b>
Access	ACCS	ACCIDENT AHEAD/ USE ACCS RD NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/ USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/ DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/ MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/ USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/ USE ALT RTE
Cardinal Directions	N, S, E, W	N I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/ MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/ USE I275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3 MI
Construction	CONST	CONST WORK AHEAD/ EXPECT DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND I64 CLOSED/ DETOUR EXIT 20
Emergency	EMER	EMER VEH AHEAD/ PREPARE TO STOP
Entrance, Enter	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/ DETOUR EXIT 10
Freeway	FRWY, FWY	GN SYNDR FWY CLOSED/ DETOUR EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ ALL TRAF EXIT 25
Highway	HWY	ACCIDENT ON AA HWY/ EXPECT DELAYS
Hour	HR	ACCIDENT ON AA HWY/ 2 HR DELAY
Information	INFO	TRAF INFO TUNE TO 1240 AM
Interstate	I	E-BND I64 CLOSED/ DETOUR EXIT 20
Lane	LN	LN CLOSED MERGE LEFT
Left	LFT	LANE CLOSED MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/ SLOW
Major	MAJ	MAJ DELAYS I75/ USE ALT RTE
Mile	MI	ACCIDENT 3 MI AHEAD/ USE ALT RTE
Minor	MNR	ACCIDENT 3 MI MNR DELAY
Minutes	MIN	ACCIDENT 3 MI/ 30 MIN DELAY
Northbound	N-BND	N-BND I75 CLOSED/ DETOUR EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/ USE I275 NEXT RIGHT
Parking	PKING	EVENT PKING NEXT RGT
Parkway	PKWY	CUM PKWAY TRAF/ DETOUR EXIT 60
Prepare	PREP	ACCIDENT 3 MI/ PREP TO STOP
Right	RGT	EVENT PKING NEXT RGT
Road	RD	HAZMAT IN RD/ ALL TRAF EXIT 25
Roadwork	RDWK	RDWK NEXT 4 MI/ POSSIBLE DELAYS
Route	RTE	MAJ DELAYS I75/ USE ALT RTE
Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
Slippery	SLIP	SLIP COND POSSIBLE/ SLOW SPD
Southbound	S-BND	S-BND I75 CLOSED/ DETOUR EXIT 50
Speed	SPD	SLIP COND POSSIBLE/ SLOW SPD

Traffic Control Plan  
Page 10 of 11

**Standard Abbreviations (cont)**

<b><u>Word</u></b>	<b><u>Abbrev</u></b>	<b><u>Example</u></b>
Street	ST	MAIN ST CLOSED/ USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/ DETOUR EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/ USE I275 NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/ DETOUR EXIT 50
Work	WRK	CONST WRK 2MI/ POSSIBLE DELAYS

Certain abbreviations are prone to inviting confusion because another word is abbreviated or could be abbreviated in the same way. DO NO USE THESE ABBREVIATIONS:

<b><u>Abbrev</u></b>	<b><u>Intended Word</u></b>	<b><u>Word Erroneously Given</u></b>
ACC	Accident	Access (Road)
CLRS	Clears	Colors
DLY	Delay	Daily
FDR	Feeder	Federal
L	Left	Lane (merge)
LOC	Local	Location
LT	Light (traffic)	Left
PARK	Parking	Park
POLL	Pollution (index)	Poll
RED	Reduce	Red
STAD	Stadium	Standard
TEMP	Temporary	Temperature
WRNG	Warning	Wrong

**Typical Messages**

The following is a list of typical messages used on CMS. The list consists of the reason or problem that you want the driver to be aware of and the action that you want the driver to take.

<b><u>Reason/Problem</u></b>	<b><u>Action</u></b>
ACCIDENT	ALL TRAFFIC EXIT RT
ACCIDENT/XX MILES	AVOID DELAY USE XX
XX ROAD CLOSED	CONSIDER ALT ROUTE
XX EXIT CLOSED	DETOUR
BRIDGE CLOSED	DETOUR XX MILES
BRIDGE/(SLIPPERY, ICE, ETC.)	DO NOT PASS
CENTER/LANE/CLOSED	EXPECT DELAYS
DELAY(S), MAJOR/DELAYS	FOLLOW ALT ROUTE
DEBRIS AHEAD	KEEP LEFT
DENSE FOG	KEEP RIGHT
DISABLED/VEHICLE	MERGE XX MILES
EMER/VEHICLES/ONLY	MERGE LEFT
EVENT PARKING	MERGE RIGHT
EXIT XX CLOSED	ONE-WAY TRAFFIC
FLAGGER XX MILES	PASS TO LEFT
FOG XX MILES	PASS TO RIGHT

Typical Messages (cont)

Reason/Problem	Action
FREEWAY CLOSED	PREPARE TO STOP
FRESH OIL	REDUCE SPEED
HAZMAT SPILL	SLOW
ICE	SLOW DOWN
INCIDENT AHEAD	STAY IN LANE
LANES (NARROW, SHIFT, MERGE, ETC.)	STOP AHEAD
LEFT LANE CLOSED	STOP XX MILES
LEFT LANE NARROWS	TUNE RADIO 1610 AM
LEFT 2 LANES CLOSED	USE NN ROAD
LEFT SHOULDER CLOSED	USE CENTER LANE
LOOSE GRAVEL	USE DETOUR ROUTE
MEDIAN WORK XX MILES	USE LEFT TURN LANE
MOVING WORK ZONE, WORKERS IN ROADWAY	USE NEXT EXIT
NEXT EXIT CLOSED	USE RIGHT LANE
NO OVERSIZED LOADS	WATCH FOR FLAGGER
NO PASSING	
NO SHOULDER	
ONE LANE BRIDGE	
PEOPLE CROSSING	
RAMP CLOSED	
RAMP (SLIPPERY, ICE, ETC.)	
RIGHT LANE CLOSED	
RIGHT LANE NARROWS	
RIGHT SHOULDER CLOSED	
ROAD CLOSED	
ROAD CLOSED XX MILES	
ROAD (SLIPPERY, ICE, ETC.)	
ROAD WORK	
ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)	
ROAD WORK XX MILES	
SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)	
NEW SIGNAL XX MILES	
SLOW 1 (OR 2) - WAY TRAFFIC	
SOFT SHOULDER	
STALLED VEHICLES AHEAD	
TRAFFIC BACKUP	
TRAFFIC SLOWS	
TRUCK CROSSING	
TRUCKS ENTERING	
TOW TRUCK AHEAD	
UNEVEN LANES	
WATER ON ROAD	
WET PAINT	
WORK ZONE XX MILES	
WORKERS AHEAD	



EXISTING  
FILL SLOPE or  
DITCH FORESLOPE



1. DETAILS DO NOT APPLY TO OVERLAYS LESS THAN 1 INCH THICK.
2. THE DURABLE PAVEMENT EDGE DEVICE MAY BE DISENGAGED AT DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT, AS APPROVED BY THE ENGINEER.

DRAWING NOT TO SCALE

## DURABLE PAVEMENT EDGE DETAILS

## **SPECIAL NOTE FOR TRAFFIC SIGNAL LOOP DETECTORS**

**1.0 DESCRIPTION.** Be advised that there are existing traffic signal loop detectors within the construction limits of this project. Except as specified herein, perform traffic signal loop replacement in accordance with the Department's Standard/Supplemental Specifications, Special Provisions, Special Notes, and Standard/Septa Drawings, current editions and as directed by the Engineer. Article references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for replacement of traffic signal loop installation(s) and all other work specified as part of this contract.

**1.1 Pre-bid Requirements.** Conform to Subsection 723.03.17

**2.0 MATERIALS.** Except as specified herein, furnish materials in accordance with Subsection 732.02 and Section 835. Provide for materials to be sampled and tested in accordance with the Department's Sampling Manual. Make 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 this Special Note.

**2.1 Maintain and Control Traffic.** See Traffic Control Plan.

**2.2 Sand.** Furnish natural sand meeting the requirements of Subsection 804.04.01.

**2.3 Seeding.** Furnish Seed Mix Type I.

**2.4 Loop Saw Slot and Fill.** Furnish loop sealant, backer rod, and non-shrink grout according to the Saw Slot Detail.

**2.5 Junction Boxes.** Furnish junction box type B, #57 aggregate, and geotextile filter type IV according to junction box detail.

**2.6 Cable No. 14/1 Pair (Lead-in).** Furnish cable that is specified in Section 835. Cable shall be ran splice free. This shall include splice kits to connect to the loop wire.

**2.7 Conduit.** Furnish and install appropriate conduit from transitions to the roadway, junction boxes and poles. See details below.

**3.0 CONSTRUCTION.** Except as specified herein, install and test Traffic Signal Loop Detectors in accordance with Section 723 and the drawings.

**3.1 Testing.** Conform to Subsection 723.03.17 (A)

**3.2 Coordination.** Conform to Subsection 723.03.17 (B)

**3.3 Connection.** Conform to Subsection 723.03.17 (C)

**3.4 Maintain and Control Traffic.** See Traffic Control Plan.

**3.5 Milling.** Conform to Subsection 723.03.17 (F)

**3.6 Loop Saw Slot and Fill.** Conform to Subsection 723.03.13 (A).

Traffic Signal Loop Detectors  
Page 2 of 8

- 3.7 Backfilling and Disturbed Areas. Conform to Subsection 723.03.11.
- 3.8 Removal. Conform to Subsection 723.03.16.
- 3.9 Property/Roadway Damage. Conform to Subsection 723.03.17 (J).
- 3.10 Right-of-Way Limits. Conform to Subsection 723.03.17 (K).
- 3.11 Utility Clearance. Conform to Subsection 716.03.01.

3.12 Control. Obtain the Engineer’s approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to permit other contractors, state forces, public utility companies, and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with each other’s work will be reduced to a minimum. The Contractor agrees to make no claims against the Department for additional compensation due to delays or other conditions created by the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to ensure the completion of the work in general harmony and in a satisfactory manner, and the Engineer’s decision shall be final and binding upon the Contractor.

- 3.13 Bore and Jack. Conform to Subsection 723.03.06 (I).
- 3.14 Open Cut Roadway. Conform to Subsection 723.03.06 (I).

4.0 MEASUREMENT. See Subsection 723.04 for bid item notes. Additional bid items include the following:

4.1 Loop Test. The Department will measure the quantity as each individual unit loop tested. The Department will not measure disconnection, reconnection, traffic control, re-splicing per specifications, before and after testing per note above, and any associated hardware for payment and will consider them incidental to this item of work.

5.0 PAYMENT. The Department will make payment for the completed and accepted quantities of listed items according to Subsection 723.05 in addition to the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
Conduit 1”	4792	Linear Foot
PVC Conduit – 1 ¼ inch – sch 80	24900EC	Linear Foot
PVC Conduit – 2 inch – sch 80	24901EC	Linear Foot
Conduit 2”	4795	Linear Foot
Electrical Junction Box type B	4811	Each
Loop Test	24963ED	Each
Trenching and Backfilling	4820	Linear Foot
Loop Wire	4830	Linear Foot

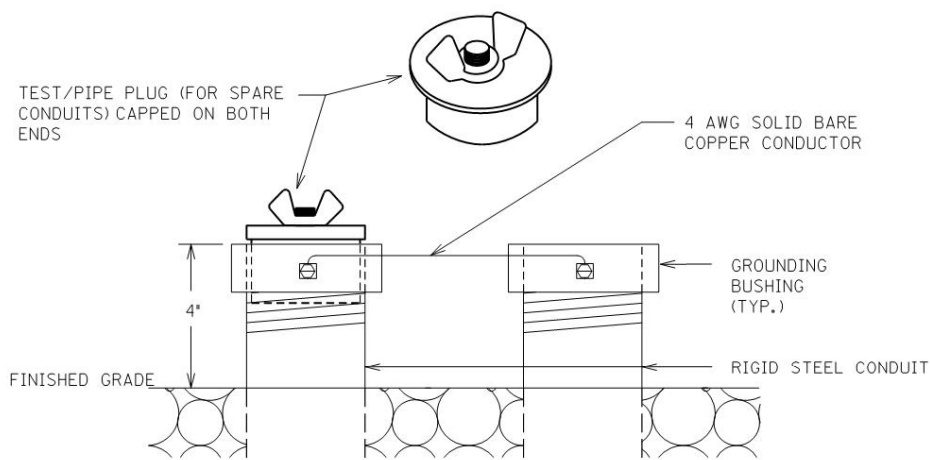


Traffic Signal Loop Detectors  
Page 3 of 8

Cable-No. 14/1 Pair	4850	Linear Foot <sup>1</sup>
Loop Saw Slot and Fill	4895	Linear Foot <sup>1</sup>
Bore and Jack Conduit	21543EN	Linear Foot <sup>3</sup>
Open Cut Roadway	4821	Linear Foot <sup>3</sup>

The Department will consider payment as full compensation for all work required under these notes and the Standard Specifications.

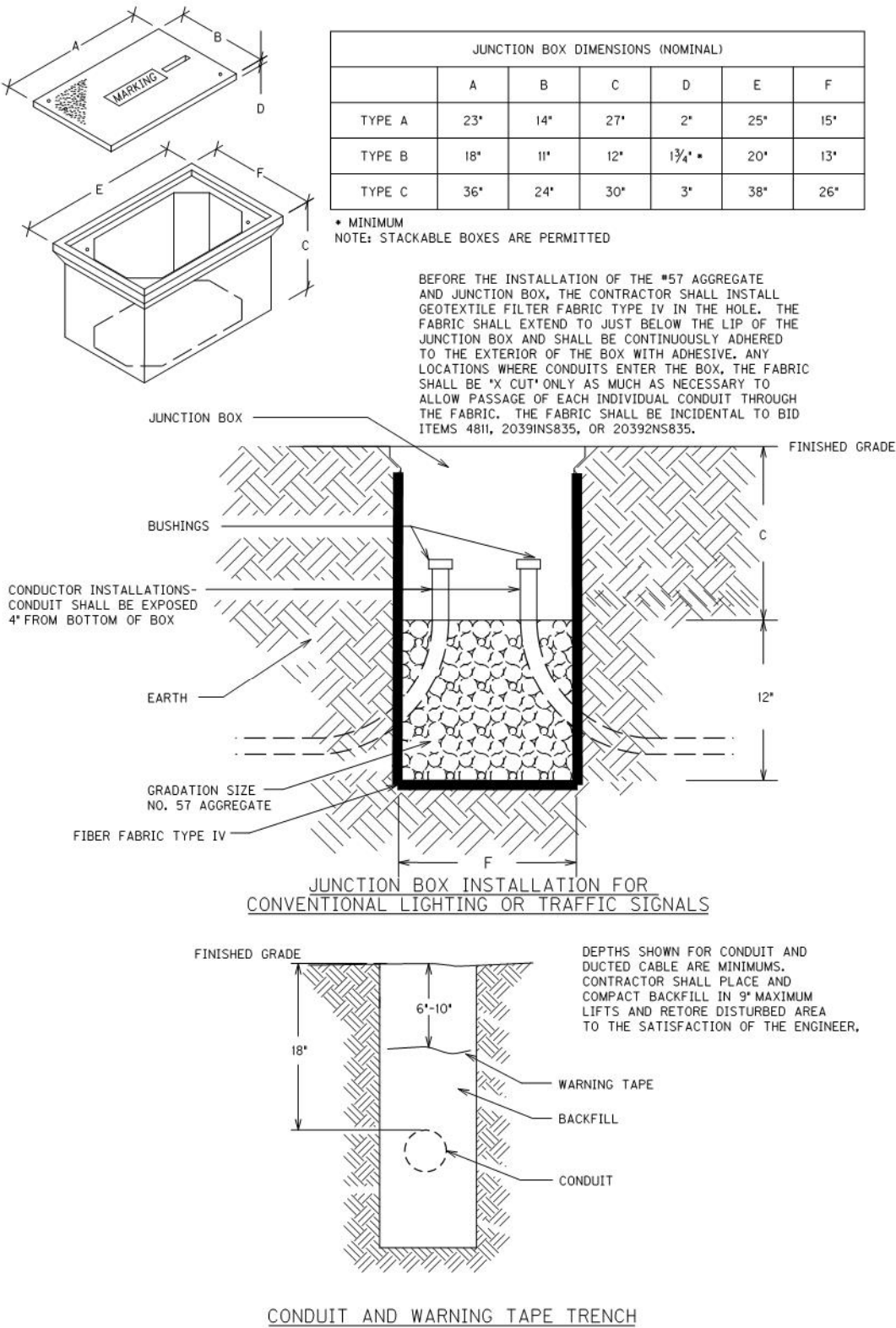
Revised: 10/17/2019



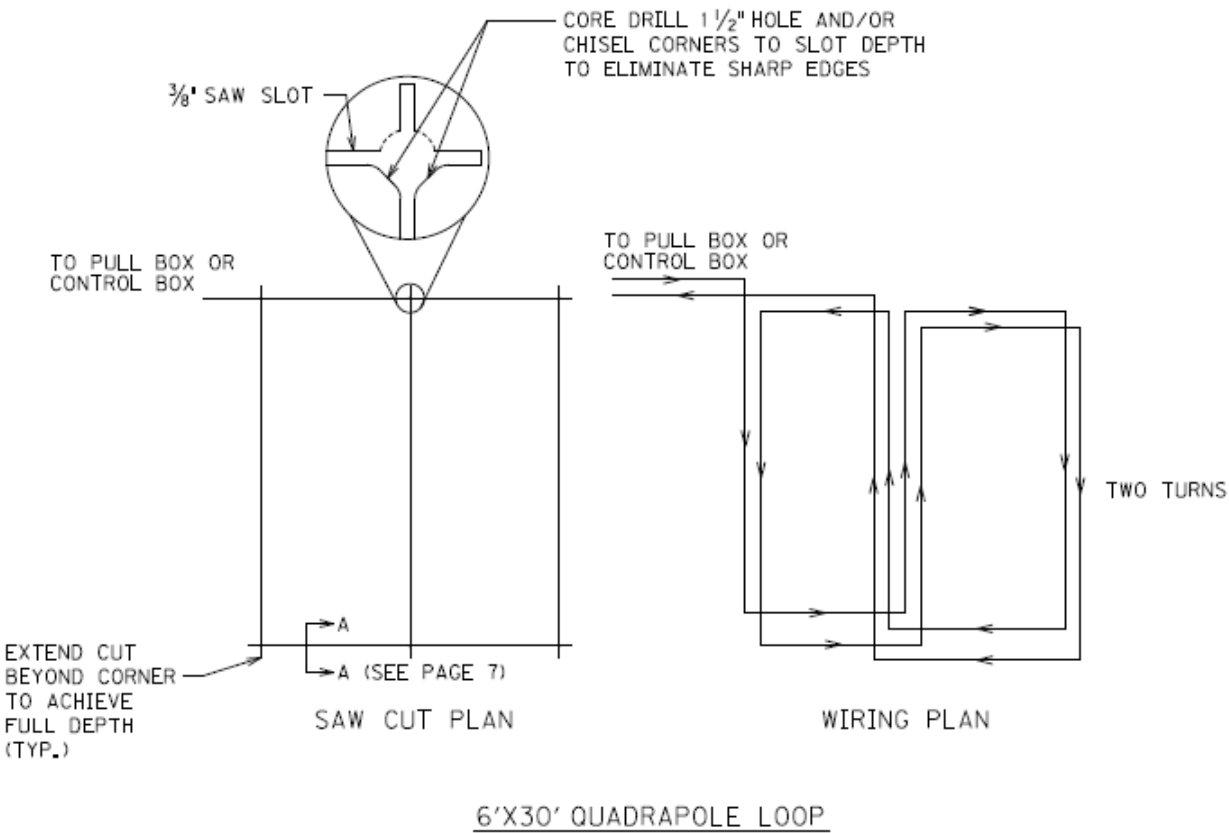
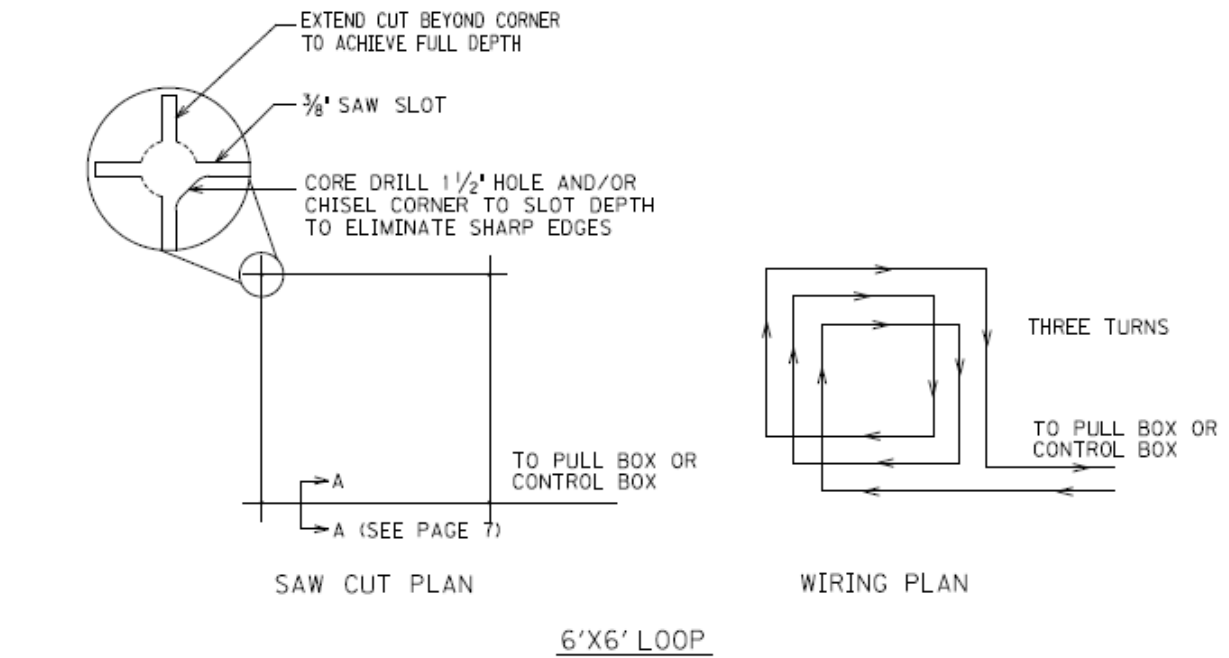
TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL

Traffic Signal Loop Detectors

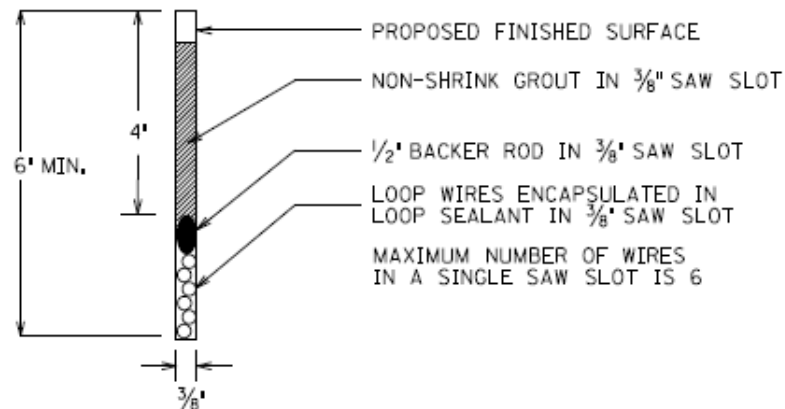
Page 4 of 8



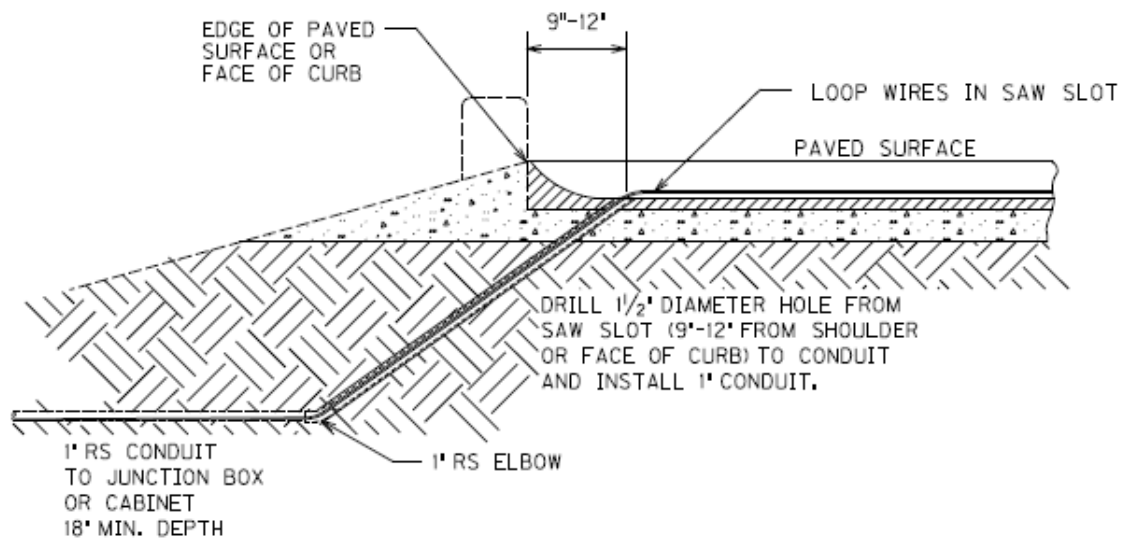
Traffic Signal Loop Detectors  
Page 5 of 8



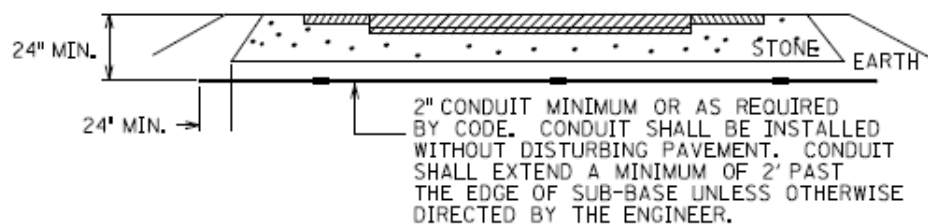
Traffic Signal Loop Detectors  
Page 6 of 8



SECTION A-A (SAW SLOT DETAIL)



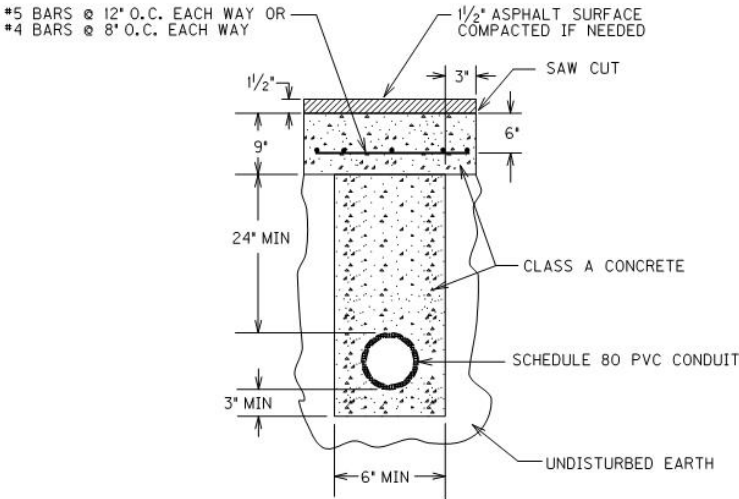
SAW SLOT EDGE OF PAVEMENT TRANSITION



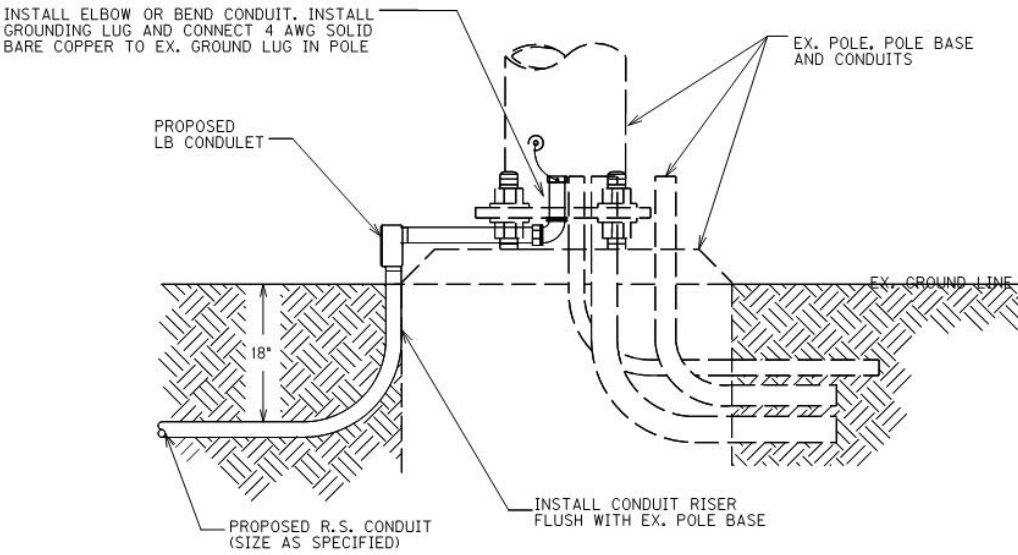
CONDUIT UNDER EXISTING PAVEMENT DETAIL

Traffic Signal Loop Detectors

Page 7 of 8

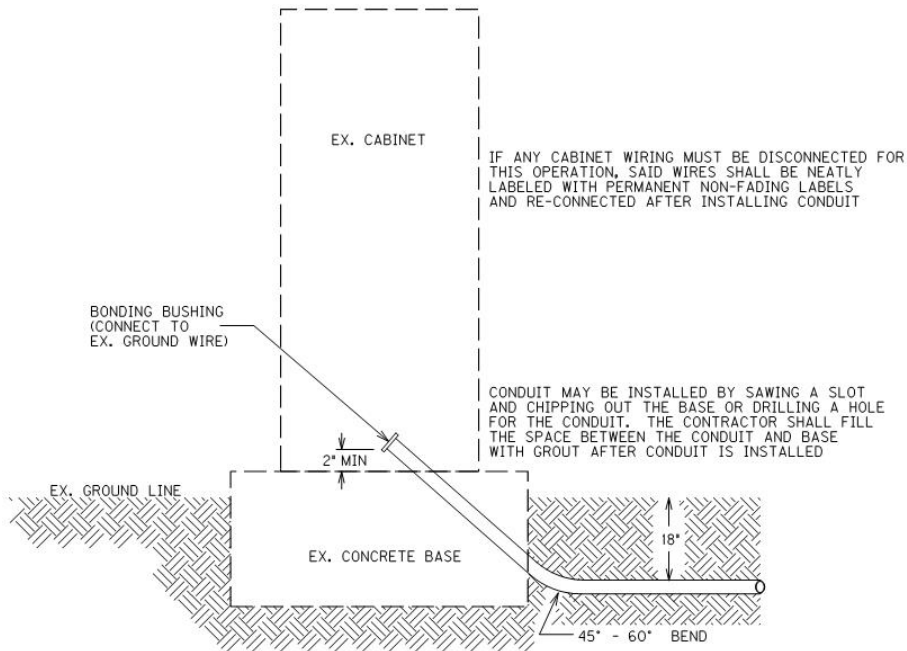


OPEN CUT PAVEMENT DETAIL



CONDUIT INSTALLATION IN EX. POLE BASE

Traffic Signal Loop Detectors  
Page 8 of 8



CONDUIT INSTALLATION IN EX. CABINET BASE



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

TC 62-226  
Rev. 01/2016  
Page 1 of 1

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
5-187.00	Franklin	FD52 037 0060 012-014	NHPP 1601(108)
PROJECT DESCRIPTION			
Construct additional left-turn lane storage along US 60 for left turns onto I-64 EB and I-64 WB Ramps.			
<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	
Signature		Signature	Tom Boykin
Date		Date	
Right of Way Director		FHWA	
Printed Name		Printed Name	No Signature Required
Signature		Signature	as per FHWA-KYTC
Date	2021.06.15 09:03:39 -05'00'	Date	Current Stewardship Agreement

UTILITIES AND RAIL CERTIFICATION NOTE

Franklin County - NHPP 1601(108)  
FD52 037 0060 013-014  
Construct Additional Left-Turn Lane Storage along US 60 for  
Left Turns Onto I-64 EB and I-64 WB Ramps  
Item No. 5-187

GENERAL PROJECT NOTE ON UTILITY PROTECTION

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

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

12" water main and sanitary sewer are located approximately 230' to the west of US 60 in-between the I-64 ramps. The 12" water main and sanitary sewer cross under Ramp B at approximate Sta. 52+00. Utility Poles with communication and electric lines are located along the west of US 60.

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

THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS  
AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

None when applicable

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE COMPANY OR THE  
COMPANY'S SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

None when applicable

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

None when applicable

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)



## UTILITIES AND RAIL CERTIFICATION NOTE

**Franklin County - NHPP 1601(108)**  
**FD52 037 0060 013-014**  
**Construct Additional Left-Turn Lane Storage along US 60 for**  
**Left Turns Onto I-64 EB and I-64 WB Ramps**  
**Item No. 5-187**

### 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.

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.***

## UTILITIES AND RAIL CERTIFICATION NOTE

**Franklin County - NHPP 1601(108)**  
**FD52 037 0060 013-014**  
**Construct Additional Left-Turn Lane Storage along US 60 for**  
**Left Turns Onto I-64 EB and I-64 WB Ramps**  
**Item No. 5-187**

### AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
1. AT&T KY 894 East Main Street Ext Georgetown, KY 40325	Frank Ambrose	<a href="mailto:fa2207@att.com">fa2207@att.com</a> O: (502) 867-8240
2. Frankfort Plant Board – Electric PO BOX 308 Frankfort, KY 40601	Vent Foster	<a href="mailto:vfoster@FEWPB.com">vfoster@FEWPB.com</a> (502) 352-4402
3. Frankfort Plant Board – CATV PO BOX 308 Frankfort, KY 40601	Shane Holt	<a href="mailto:sholt@FEWPB.com">sholt@FEWPB.com</a> (502) 352-4546
4. Frankfort Plant Board – Water PO BOX 308 Frankfort, KY 40601	David Billings	<a href="mailto:dbillings@FEWPB.com">dbillings@FEWPB.com</a> (502) 352-4468
5. Frankfort Sewer Department 1200 Kentucky Ave. Frankfort, KY 40601	Katie Beard	<a href="mailto:kbeard@frankfort.ky.gov">kbeard@frankfort.ky.gov</a> O: (502) 875-2448
6. AT&T Legacy 7555 E. Pleasant Valley Rd. Suite 140 Independence, OH 44131	Mike Diederich	<a href="mailto:md4145@att.com">md4145@att.com</a> (216) 750-0135
7. Kentucky Wired 209 St. Clair St., 4 <sup>th</sup> Floor Frankfort, KY 40601	Mike Hayden	<a href="mailto:mike.hayden@ky.gov">mike.hayden@ky.gov</a> (502) 782-2535
8. Windstream 111 S Main St Elizabethtown, KY 42071	Mark Ware	<a href="mailto:mark.ware@windstream.com">mark.ware@windstream.com</a> (270) 765-1818

***NOTE: The Utilities Contact List is provided as informational only, and may not be a complete list of all Utility Companies with facilities in the project area.***

KYTC BMP Plan for Project CID 21 - 4210



**Kentucky Transportation Cabinet**

**Highway District 5**

**And**

**\_\_\_\_\_ (2), Construction**

**Kentucky Pollutant Discharge Elimination System**

**Permit KYR10**

**Best Management Practices (BMP) plan**

**Groundwater protection plan**

**For Highway Construction Activities**

**For**

**Construction of Additional Left-Turn Lane Storage**

**along US 60 for Left Turns onto I-64 EB and I-64**

**WB Ramps in Franklin County**

**Project: CID 21 - 4210**

## KYTC BMP Plan for Project CID **21 - 4210**

### **Project information**

Note – (1) = Design (2) = Construction (3) = Contractor

1. Owner – Kentucky Transportation Cabinet, District 5
2. Resident Engineer: (2)
3. Contractor name: (2)  
Address: (2)  
  
Phone number: (2)  
Contact: (2)  
Contractor's agent responsible for compliance with the KPDES permit requirements (3):
4. Project Control Number: (2)
5. Route (Address): US 60
6. Latitude/Longitude (project mid-point): 38° 10' 25.5", -84° 48' 41.4"
7. County (project mid-point): Franklin
8. Project start date (date work will begin): (2)
9. Projected completion date: (2)

## KYTC BMP Plan for Project CID 21 - 4210

### A. Site description:

1. Nature of Construction Activity (from letting project description): Asphalt Pavement & Roadway Rehab
2. Order of major soil disturbing activities: (2) and (3)
3. Projected volume of material to be moved: 6386 CY (Cut) & 781 CY (Fill)
4. Estimate of total project area (acres): 6.98
5. Estimate of area to be disturbed (acres): 3.96
6. Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information.
7. Data describing existing soil condition: (1) & (2)
8. Data describing existing discharge water quality (if any): (1) & (2)
9. Receiving water name: Slickway Branch
10. TMDLs and Pollutants of Concern in Receiving Waters: *No TDML's were involved on this project.*
11. Site map – Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.
12. Potential sources of pollutants:  
The primary source of pollutants is solids that are mobilized during storm events. Other sources of pollutants include oil/fuel/grease from servicing and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. (3)

## KYTC BMP Plan for Project CID 21 - 4210

### B. Sediment and Erosion Control Measures:

1. Plans for highway construction projects will include erosion control sheets that depict Disturbed Drainage Areas (DDAs) and related information. These plan sheets will show the existing project conditions with areas delineated by DDA within the right of way limits, the discharge points and the areas that drain to each discharge point. Project managers and designers will analyze the DDAs and identify Best Management Practices (BMPs) that are site specific. The balance of the BMPs for the project will be listed in the bid documents for selection and use by the contractor on the project with approval by the resident engineer.

Projects that do not have DDAs annotated on the erosion control sheets will employ the same concepts for development and managing BMP plans.

2. Following award of the contract, the contractor and resident engineer will annotate the erosion control sheets showing location and type of BMPs for each of the DDAs that will be disturbed at the outset of the project. This annotation will be accompanied by an order of work that reflects the order or sequence of major soil moving activities. The remaining DDAs are to be designated as "Do Not Disturb" until the contractor and resident engineer prepare the plan for BMPs to be employed. The initial BMP's shall be for the first phase (generally Clearing and Grubbing) and shall be modified as needed as the project changes phases. The BMP Plan will be modified to reflect disturbance in additional DDA's as the work progresses. All DDA's will have adequate BMP's in place before being disturbed.
3. As DDAs are prepared for construction, the following will be addressed for the project as a whole or for each DDA as appropriate:
  - Construction Access – This is the first land-disturbing activity. As soon as construction begins, bare areas will be stabilized with gravel and temporary mulch and/or vegetation.
  - At the beginning of the project, all DDAs for the project will be inspected for areas that are a source of storm water pollutants. Areas that are a source of pollutants will receive appropriate cover or BMPs to arrest the introduction of pollutants into storm water. Areas that have not been opened by the contractor will be inspected periodically (once per month) to determine if there is a need to employ BMPs to keep pollutants from entering storm water.
  - Clearing and Grubbing – The following BMP's will be considered and used where appropriate.

## KYTC BMP Plan for Project CID **21 - 4210**

- Leaving areas undisturbed when possible.
- Silt basins to provide silt volume for large areas.
- Silt Traps Type A for small areas.
- Silt Traps Type C in front of existing pipes and drop inlets which are to be saved
- Diversion ditches to catch sheet runoff and carry it to basins or traps or to divert it around areas to be disturbed.
- Brush and/or other barriers to slow and/or divert runoff.
- Silt fences to catch sheet runoff on short slopes. For longer slopes, multiple rows of silt fence may be considered.
- Temporary Mulch for areas which are not feasible for the fore mentioned types of protections.
- Non-standard or innovative methods.
- Cut & Fill and placement of drainage structures - The BMP Plan will be modified to show additional BMP's such as:
  - Silt Traps Type B in ditches and/or drainways as they are completed
  - Silt Traps Type C in front of pipes and drop inlets after they are placed
  - Channel Lining
  - Erosion Control Blanket
  - Temporary mulch and/or seeding for areas where construction activities will be ceased for 21 days or more.
  - Non-standard or innovative methods
- Profile and X-Section in place – The BMP Plan will be modified to show elimination of BMP's which had to be removed and the addition of new BMP's as the roadway was shaped. Probable changes include:
  - Silt Trap Type A, Brush and/or other barriers, Temporary Mulch, and any other BMP which had to be removed for final grading to take place.
  - Additional Silt Traps Type B and Type C to be placed as final drainage patterns are put in place.
  - Additional Channel Lining and/or Erosion Control Blanket.
  - Temporary Mulch for areas where Permanent Seeding and Protection cannot be done within 21 days.
  - Special BMP's such as Karst Policy
- Finish Work (Paving, Seeding, Protect, etc.) – A final BMP Plan will result from modifications during this phase of construction. Probable changes include:
  - Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
  - Permanent Seeding and Protection

## KYTC BMP Plan for Project CID 21 - 4210

- Placing Sod
- Planting trees and/or shrubs where they are included in the project
- BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are: *This project does not include storm water BMPs or flow controls for post-construction use.*

### C. Other Control Measures

1. No solid materials, including building materials, shall be discharged to waters of the commonwealth, except as authorized by a Section 404 permit.
2. Waste Materials

All waste materials that may leach pollutants (paint and paint containers, caulk tubes, oil/grease containers, liquids of any kind, soluble materials, etc.) will be collected and stored in appropriate covered waste containers. Waste containers shall be removed from the project site on a sufficiently frequent basis as to not allow wastes to become a source of pollution. All personnel will be instructed regarding the correct procedure for waste disposal. Wastes will be disposed in accordance with appropriate regulations. Notices stating these practices will be posted in the office.

3. Hazardous Waste

All hazardous waste materials will be managed and disposed of in the manner specified by local or state regulation. The contractor shall notify the Section Engineer if there any hazardous wastes being generated at the project site and how these wastes are being managed. Site personnel will be instructed with regard to proper storage and handling of hazardous wastes when required. The Transportation Cabinet will file for generator, registration when appropriate, with the Division of Waste Management and advise the contractor regarding waste management requirements.

4. Spill Prevention

The following material management practices will be used to reduce the risk of spills or other exposure of materials and substances to the weather and/or runoff.

- **Good Housekeeping:**



## KYTC BMP Plan for Project CID 21 - 4210

The following good housekeeping practices will be followed onsite during the construction project.

- An effort will be made to store only enough product required to do the job
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure
- Products will be kept in their original containers with the original manufacturer's label
- Substances will not be mixed with one another unless recommended by the manufacturer
- Whenever possible, all of the product will be used up before disposing of the container
- Manufacturers' recommendations for proper use and disposal will be followed
- The site contractor will inspect daily to ensure proper use and disposal of materials onsite

### ➤ **Hazardous Products:**

These practices will be used to reduce the risks associated with any and all hazardous materials.

- Products will be kept in original containers unless they are not resealable
- Original labels and material safety data sheets (MSDS) will be reviewed and retained
- Contractor will follow procedures recommended by the manufacturer when handling hazardous materials
- If surplus product must be disposed of, manufacturers' or state/local recommended methods for proper disposal will be followed

**The following product-specific practices will be followed onsite:**

### ➤ **Petroleum Products:**

Vehicles and equipment that are fueled and maintained on site will be monitored for leaks, and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products onsite will be stored in tightly sealed containers, which are clearly labeled and will be protected from exposure to weather.

The contractor shall prepare an Oil Pollution Spill Prevention Control and Countermeasure plan when the project that involves the storage of petroleum products in 55 gallon or larger containers with a total combined storage capacity of 1,320 gallons. This is a requirement of 40 CFR 112.

## KYTC BMP Plan for Project CID 21 - 4210

This project (will / will not) (3) have over 1,320 gallons of petroleum products with a total capacity, sum of all containers 55 gallon capacity and larger.

### ➤ **Fertilizers:**

Fertilizers will be applied at rates prescribed by the contract, standard specifications or as directed by the resident engineer. Once applied, fertilizer will be covered with mulch or blankets or worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

### ➤ **Paints:**

All containers will be tightly sealed and stored indoors or under roof when not being used. Excess paint or paint wash water will not be discharged to the drainage or storm sewer system but will be properly disposed of according to manufacturers' instructions or state and local regulations.

### ➤ **Concrete Truck Washout:**

Concrete truck mixers and chutes will not be washed on pavement, near storm drain inlets, or within 75 feet of any ditch, stream, wetland, lake, or sinkhole. Where possible, excess concrete and wash water will be discharged to areas prepared for pouring new concrete, flat areas to be paved that are away from ditches or drainage system features, or other locations that will not drain off site. Where this approach is not possible, a shallow earthen wash basin will be excavated away from ditches to receive the wash water

### ➤ **Spill Control Practices**

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup will be clearly posted. All personnel will be made aware of procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include as appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.

## KYTC BMP Plan for Project CID 21 - 4210

- Spills of toxic or hazardous material will be reported to the appropriate state/local agency as required by KRS 224 and applicable federal law.
- The spill prevention plan will be adjusted as needed to prevent spills from reoccurring and improve spill response and cleanup.
- Spills of products will be cleaned up promptly. Wastes from spill cleanup will be disposed in accordance with appropriate regulations.

### D. Other State and Local Plans

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials. *There are no other local (MS4) requirements that are expected to be necessary for this project.*

### E. Maintenance

1. The BMP plan shall include a clear description of the maintenance procedures necessary to keep the control measures in good and effective operating condition.
- Maintenance of BMPs during construction shall be a result of weekly and post rain event inspections with action being taken by the contractor to correct deficiencies.
  - Post Construction maintenance will be a function of normal highway maintenance operations. Following final project acceptance by the cabinet, district highway crews will be responsible for identification and correction of deficiencies regarding ground cover and cleaning of storm water BMPs. The project manager shall identify any BMPs that will be for the purpose of post construction storm water management with specific guidance for any non-routine maintenance. *There are no such BMP's for this project.*

### F. Inspections

Inspection and maintenance practices that will be used to maintain erosion and sediment controls:

## KYTC BMP Plan for Project CID 21 - 4210

- All erosion prevention and sediment control measures will be inspected at least once each week and following any rain of one-half inch or more.
- Inspections will be conducted by individuals that have successfully completed the KEPSC-RI course as required by Section 213.02.02 of the Standard Specifications for Road and Bridge Construction, current edition.
- Inspection reports will be written, signed, dated, and kept on file.
- Areas at final grade will be seeded and mulched within 14 days.
- Areas that are not at final grade where construction has ceased for a period of 21 days or longer and soil stock piles shall receive temporary mulch no later than 14 days from the last construction activity in that area.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of being reported.
- Built-up sediment will be removed from behind the silt fence before it has reached halfway up the height of the fence.
- Silt fences will be inspected for bypassing, overtopping, undercutting, depth of sediment, tears, and to ensure attachment to secure posts.
- Sediment basins will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 50 percent of the design capacity and at the end of the job.
- Diversion dikes and berms will be inspected and any breaches promptly repaired. Areas that are eroding or scouring will be repaired and re-seeded / mulched as needed.
- Temporary and permanent seeding and mulching will be inspected for bare spots, washouts, and healthy growth. Bare or eroded areas will be repaired as needed.
- All material storage and equipment servicing areas that involve the management of bulk liquids, fuels, and bulk solids will be inspected weekly for conditions that represent a release or possible release of pollutants to the environment.

## G. Non – Storm Water discharges

It is expected that non-storm water discharges may occur from the site during the construction period. Examples of non-storm water discharges include:

- Water from water line flushings.
- Water from cleaning concrete trucks and equipment.
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Uncontaminated groundwater and rain water (from dewatering during excavation).

## KYTC BMP Plan for Project CID 21 - 4210

All non-storm water discharges will be directed to the sediment basin or to a filter fence enclosure in a flat vegetated infiltration area or be filtered via another approved commercial product.

### H. Groundwater Protection Plan (3)

This plan serves as the groundwater protection plan as required by 401 KAR 5:037.

➤ Contractors statement: (3)

The following activities, as enumerated by 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan, will or may be may be conducted as part of this construction project:

\_\_\_\_\_ 2. (e) land treatment or land disposal of a pollutant;

\_\_\_\_\_ 2. (f) Storing, ..., or related handling of hazardous waste, solid waste or special waste, ..., in tanks, drums, or other containers, or in piles, (This does not include wastes managed in a container placed for collection and removal of municipal solid waste for disposal off site);

\_\_\_\_\_ 2. (g) .... Handling of materials in bulk quantities (equal or greater than 55 gallons or 100 pounds net dry weight transported held in an individual container) that, if released to the environment, would be a pollutant;

\_\_\_\_\_ 2. (j) Storing or related handling of road oils, dust suppressants, ....., at a central location;

\_\_\_\_\_ 2. (k) Application or related handling of road oils, dust suppressants or deicing materials, (does not include use of chloride-based deicing materials applied to roads or parking lots);

\_\_\_\_\_ 2. (m) Installation, construction, operation, or abandonment of wells, bore holes, or core holes, (this does not include bore holes for the purpose of explosive demolition);

Or, check the following only if there are no qualifying activities

\_\_\_\_\_ There are no activities for this project as listed in 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan.

The contractor is responsible for the preparation of a plan that addresses the 401 KAR 5:037 Section 3. (3) Elements of site specific groundwater protection plan:

## KYTC BMP Plan for Project CID **21 - 4210**

- (a) General information about this project is covered in the Project information;
- (b) Activities that require a groundwater protection plan have been identified above;
- (c) Practices that will protect groundwater from pollution are addressed in section C. Other control measures.
- (d) Implementation schedule – all practices required to prevent pollution of groundwater are to be in place prior to conducting the activity;
- (e) Training is required as a part of the ground water protection plan. All employees of the contractor, sub-contractor and resident engineer personnel will be trained to understand the nature and requirements of this plan as they pertain to their job function(s). Training will be accomplished within one week of employment and annually thereafter. A record of training will be maintained by the contractor with a copy provide to the resident engineer.
- (f) Areas of the project and groundwater plan activities will be inspected as part of the weekly sediment and erosion control inspections
- (g) Certification (see signature page.)

## Contractor and Resident Engineer Plan certification

The following certification applies to all parties that are signatory to this BMP plan:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Further, this plan complies with the requirements of 401 KAR 5:037. By this certification, the undersigned state that the individuals signing the plan have reviewed the terms of the plan and will implement its provisions as they pertain to ground water protection.

## Resident Engineer and Contractor Certification:

(2) Resident Engineer signature

Signed \_\_\_\_\_ title \_\_\_\_\_,  
Typed or printed name<sup>2</sup> signature

(3) Signed \_\_\_\_\_ title \_\_\_\_\_,  
 Typed or printed name<sup>1</sup> \_\_\_\_\_ signature \_\_\_\_\_

1. Contractors Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

2. KyTC note: to be signed by the Chief District Engineer or a person designated to have the authority to sign reports by such a person (usually the resident engineer) in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601 Reference the Project Control Number (PCN) and KPDES number when one has been issued.

KYTC BMP Plan for Project CID **21 - 4210**

**Sub-Contractor Certification**

The following sub-contractor shall be made aware of the BMP plan and responsible for implementation of BMPs identified in this plan as follows:

Subcontractor

Name:  
Address:  
Address:  
  
Phone:

The part of BMP plan this subcontractor is responsible to implement is:

I certify under penalty of law that I understand the terms and conditions of the general Kentucky Pollutant Discharge Elimination System permit that authorizes the storm water discharges, the BMP plan that has been developed to manage the quality of water to be discharged as a result of storm events associated with the construction site activity and management of non-storm water pollutant sources identified as part of this certification.

Signed \_\_\_\_\_title\_\_\_\_\_, \_\_\_\_\_  
Typed or printed name<sup>1</sup>signature

1. Sub Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

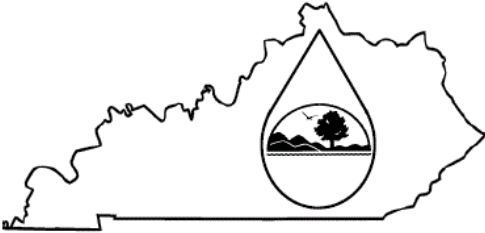


**CID 21-4210**  
**Franklin County**  
**Construct Additional Left-Turn Lane Storage along US 60 for**  
**Left Turns Onto I-64 EB and I-64 WB Ramps**  
**Item No.: 5-187.00**

---

An electronic Notice of Intent (eNOI) for obtaining coverage under the Kentucky Pollutant Discharge Elimination System (KPDES) General Permit for Stormwater Discharges Associated with Construction Activities (KYR10) has been drafted, a copy of which is attached. Upon award, the Contractor will be identified in Section III of the form as the "Building Contractor" and the eNOI will be submitted for approval to the Kentucky Division of Water. The Contractor shall be responsible for advancing the work within this contract in a manner that is compliant with all applicable and appropriate KYTC specifications for sediment and erosion control, as well as meeting the requirements of the KYR10 permit and the KDOW.

**eForm Submittal ID: 238642**



KENTUCKY POLLUTION DISCHARGE  
ELIMINATION SYSTEM (KPDES)

Notice of Intent (NOI) for coverage of Storm Water Discharge  
Associated with Construction Activities Under the KPDES Storm  
Water General Permit KYR100000

Click here for Instructions  
(Controls/KPDES\_FormKYR10\_Instructions.htm)

Click here to obtain information and a copy of the KPDES General Permit.  
(<http://dep.ky.gov/formslibrary/Documents/KYR10PermitPage.pdf>)

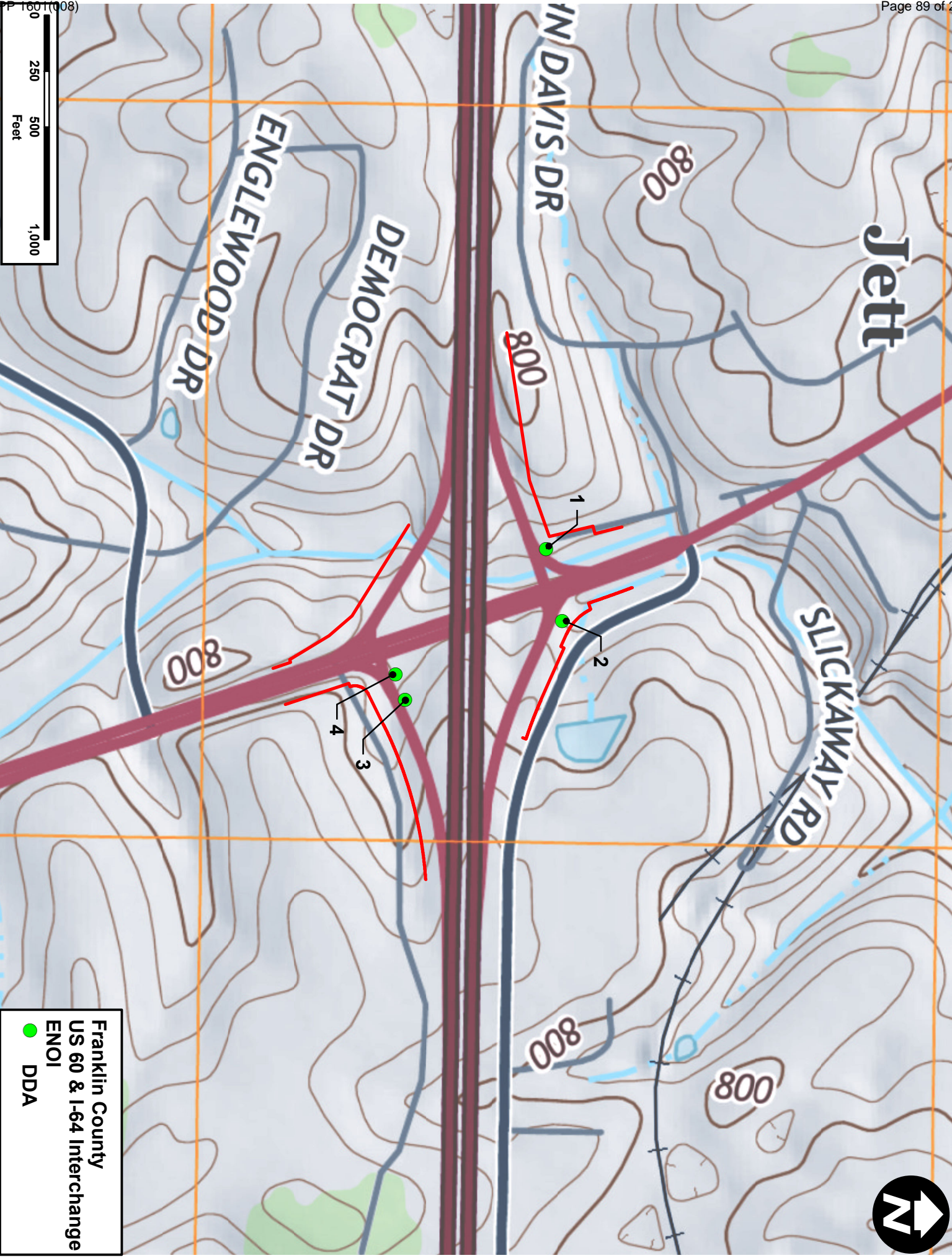
(\*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Reason for Submittal:(*) Application for New Permit Coverage		Agency Interest ID: Agency Interest ID		Permit Number:(✓) KPDES Permit Number	
If change to existing permit coverage is requested, describe the changes for which modification of coverage is being sought:(✓) <div></div>					
<div>ELIGIBILITY: Stormwater discharges associated with construction activities disturbing individually one (1) acre or more, including, in the case of a common plan of development, contiguous construction activities that cumulatively equal one (1) acre or more of disturbance.</div> <div>EXCLUSIONS: The following are excluded from coverage under this general permit: 1) Are conducted at or on properties that have obtained an individual KPDES permit for the discharge of other wastewaters which requires the development and implementation of a Best Management Practices (BMP) plan; 2) Any operation that the DOW determines an individual permit would better address the discharges from that operation; 3) Any project that discharges to an Impaired Water listed in the most recent Integrated Report, §305(b) as impaired for sediment and for which an approved TMDL has been developed.</div>					
SECTION I -- FACILITY OPERATOR INFORMATION (PERMITTEE)					
Company Name:(✓) Kentucky Transportation Cabinet, District 5		First Name:(✓) Matthew		M.I.: MI	Last Name:(✓) Bullock
Mailing Address:(*) 8310 Westport Rd, PO Box 22129		City:(*) Louisville		State:(*) Kentucky	
eMail Address:(*) Matt.Bullock@ky.gov		Business Phone:(*) 502-210-5400		Alternate Phone: Phone	
SECTION II -- GENERAL SITE LOCATION INFORMATION					
Project Name:(*) KYTC Project: CID 214210		Status of Owner/Operator(*) State Government		SIC Code(*) 1611 Highway and Street Constr	
Company Name:(✓) Company Name		First Name:(✓) First Name		M.I.: MI	Last Name:(✓) Last Name
Site Physical Address:(*) US 60					
City:(*) Frankfort		State:(*) Kentucky		Zip:(*) 40601	
County:(*) Franklin		Latitude(decimal degrees)(*)DMS to DD Converter ( <a href="https://www.fcc.gov/media/radio/dms-decimal">https://www.fcc.gov/media/radio/dms-decimal</a> ) 38.173758		Longitude(decimal degrees)(*) -84.811467	
SECTION III -- SPECIFIC SITE ACTIVITY INFORMATION					
Project Description:(*) Highway Safety Improvement Project consisting of trenching existing asphalt shoulders and placement of full depth asphalt pavement, extension of various culvert pipes, sign					
a. For single projects provide the following information					
Total Number of Acres in Project:(✓)			Total Number of Acres Disturbed:(✓)		

<div>6.98</div>	<div>3.96</div>																																				
Anticipated Start Date:(✓) <div></div>	Anticipated Completion Date:(✓) <div></div>																																				
b. For common plans of development provide the following information																																					
Total Number of Acres in Project:(✓) <div># Acre(s)</div>	Total Number of Acres Disturbed:(✓) <div># Acre(s)</div>																																				
Number of individual lots in development, if applicable:(✓) <div># lot(s)</div>	Number of lots in development:(✓) <div># lot(s)</div>																																				
Total acreage of lots intended to be developed:(✓) <div>Project Acres</div>	Number of acres intended to be disturbed at any one time:(✓) <div>Disturbed Acres</div>																																				
Anticipated Start Date:(✓) <div></div>	Anticipated Completion Date:(✓) <div></div>																																				
List Building Contractor(s) at the time of Application:(*) <div><div>+ Company Name</div><div></div></div>																																					
SECTION IV -- IF THE PERMITTED SITE DISCHARGES TO A WATER BODY THE FOLLOWING INFORMATION IS REQUIRED ?																																					
Discharge Point(s): <table><tr><td></td><td>Unnamed Tributary?</td><td>Latitude</td><td>Longitude</td><td>Receiving Water Name</td><td></td></tr><tr><td>1</td><td>Yes</td><td>38.173024</td><td>-84.810317</td><td>Slickway Branch</td><td>Delete</td></tr><tr><td>2</td><td>Yes</td><td>38.172890</td><td>-84.810682</td><td>Slickway Branch</td><td>Delete</td></tr><tr><td>3</td><td>Yes</td><td>38.174947</td><td>-84.811504</td><td>Slickway Branch</td><td>Delete</td></tr><tr><td>4</td><td>No</td><td>38.174751</td><td>-84.812614</td><td>Slickway Branch</td><td>Delete</td></tr><tr><td colspan="6">+ </td></tr></table>			Unnamed Tributary?	Latitude	Longitude	Receiving Water Name		1	Yes	38.173024	-84.810317	Slickway Branch	Delete	2	Yes	38.172890	-84.810682	Slickway Branch	Delete	3	Yes	38.174947	-84.811504	Slickway Branch	Delete	4	No	38.174751	-84.812614	Slickway Branch	Delete	+					
	Unnamed Tributary?	Latitude	Longitude	Receiving Water Name																																	
1	Yes	38.173024	-84.810317	Slickway Branch	Delete																																
2	Yes	38.172890	-84.810682	Slickway Branch	Delete																																
3	Yes	38.174947	-84.811504	Slickway Branch	Delete																																
4	No	38.174751	-84.812614	Slickway Branch	Delete																																
+																																					
SECTION V -- IF THE PERMITTED SITE DISCHARGES TO A MS4 THE FOLLOWING INFORMATION IS REQUIRED ?																																					
Name of MS4: <div></div>																																					
Date of application/notification to the MS4 for construction site permit coverage: <div>Date</div>	Discharge Point(s):(*) <table><tr><td></td><td>Latitude</td><td>Longitude</td><td></td><td></td></tr><tr><td colspan="5">+ </td></tr></table>		Latitude	Longitude			+																														
	Latitude	Longitude																																			
+																																					
SECTION VI -- WILL THE PROJECT REQUIRE CONSTRUCTION ACTIVITIES IN A WATER BODY OR THE RIPARIAN ZONE?																																					
Will the project require construction activities in a water body or the riparian zone?:(*)	<div>No</div>																																				
If Yes, describe scope of activity: (✓)	<div>describe scope of activity</div>																																				
Is a Clean Water Act 404 permit required?:(*)	<div>No</div>																																				
Is a Clean Water Act 401 Water Quality Certification required?:(*)	<div>No</div>																																				

SECTION VII -- NOI PREPARER INFORMATION						
First Name:(*) <div>First Name</div>		M.I.: <div>MI</div>	Last Name:(*) <div>Last Name</div>		Company Name:(*) <div>Company Name</div>	
Mailing Address:(*) <div>Mailing Address</div>		City:(*) <div>City</div>		State:(*) <div><div></div></div>	Zip:(*) <div>Zip</div>	
eMail Address:(*) <div>eMail Address</div>			Business Phone:(*) <div>Phone</div>		Alternate Phone: <div>Phone</div>	
SECTION VIII -- ATTACHMENTS						
Facility Location Map:(*)			<div>Upload file</div>			
Supplemental Information:			<div>Upload file</div>			
SECTION IX -- CERTIFICATION						
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.						
Signature:(*) <div>Signature</div>			Title:(*) <div>Title</div>			
First Name:(*) <div>First Name</div>		M.I.: <div>MI</div>	Last Name:(*) <div>Last Name</div>			
eMail Address:(*) <div>eMail Address</div>		Business Phone:(*) <div>Phone</div>		Alternate Phone: <div>Phone</div>		Signature Date:(*) <div>Date</div>
<div><div>Click to Save Values for Future Retrieval</div><div>Click to Submit to EEC</div></div>						





Franklin County  
US 60 & I-64 Interchange

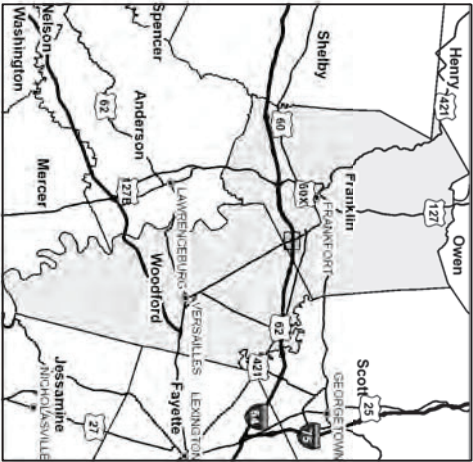
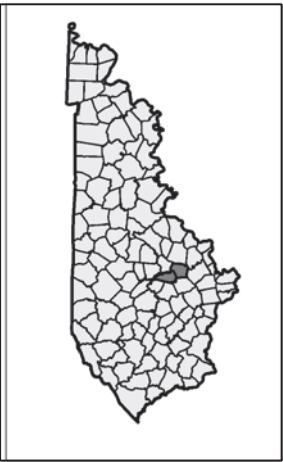
●

 ENOI

●

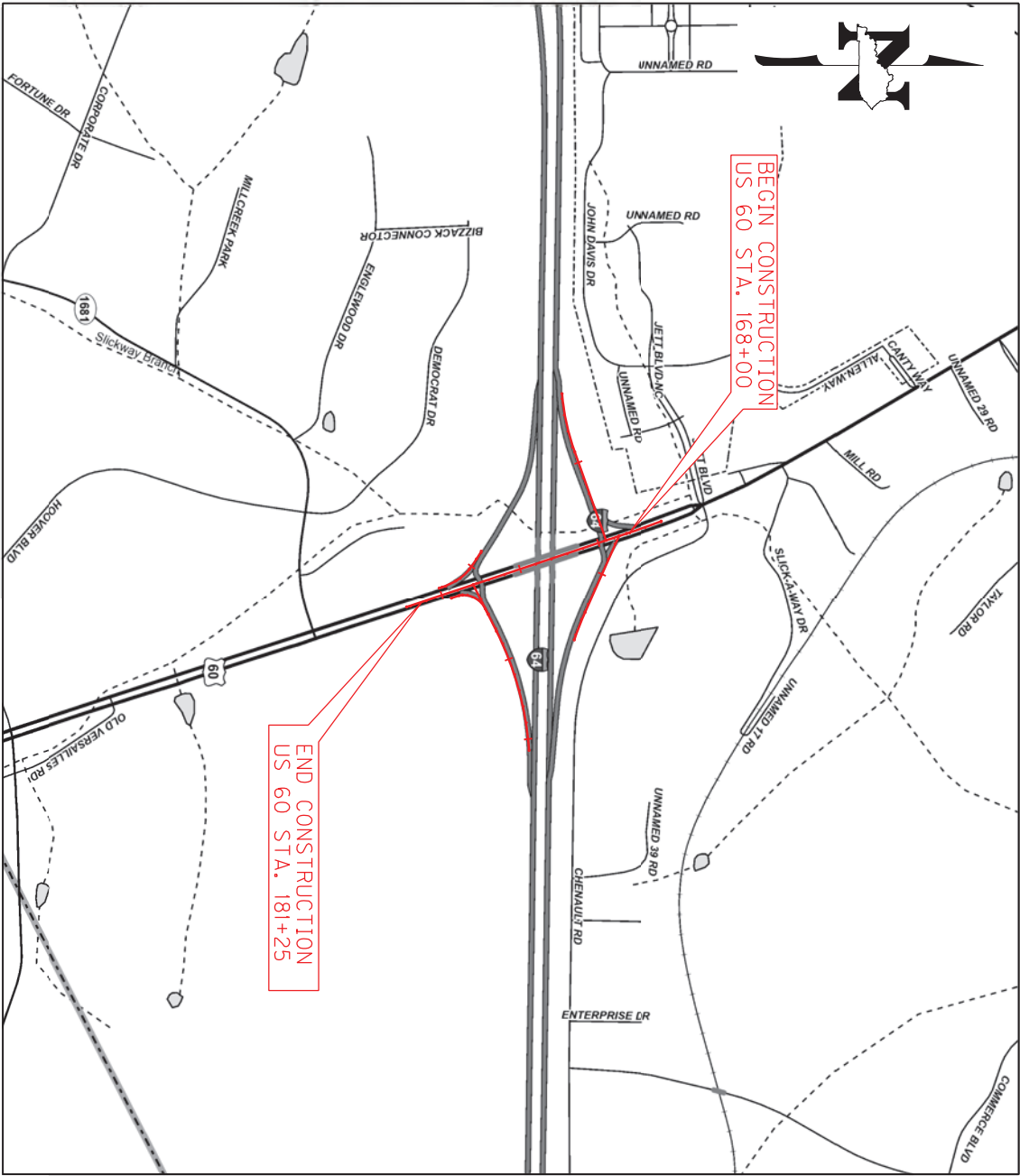
 DDA

COUNTY OF	ITEM NO.
FRANKLIN	5-187



**Commonwealth of Kentucky**  
**DEPARTMENT OF HIGHWAYS**

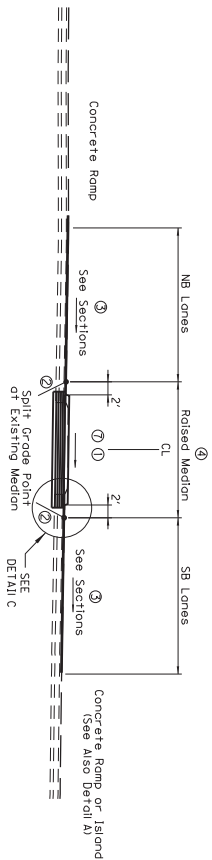
**PLANS OF**  
**PROPOSED PROJECT**  
**FRANKLIN COUNTY**  
**US 60 AT INTERSTATE 64**





COUNTY OF	ITEM NO.
FRANKLIN	5-187

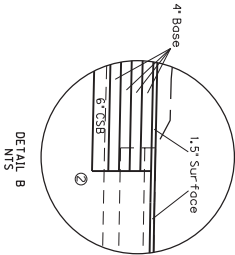
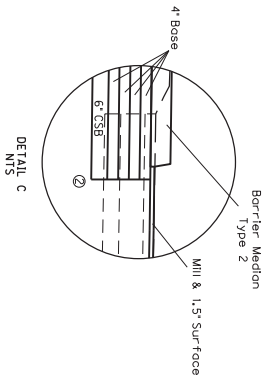
- ① STRAIGHT LINE SLOPE BETWEEN GRADE POINTS STA. 168+00 TO 169+08  
CROWNED SLOPED BETWEEN GRADE POINTS STA. 177+73 TO 177+86
- ② SAW CUT EXISTING PAVEMENT FOR WIDENING  
(REMOVAL TO BE INCLUDED IN EXCAVATION QUANTITIES)  
FOR PAVEMENT REMOVED BY MILLING, SAW CUT  
QUANTITY TO BE ELIMINATED
- ③ ALL CROSS SLOPE BREAKS TO OCCUR AT LANE LINES
- ④ LANE AND MEDIAN WIDTHS TAPER:  
168+00 TO 170+25
- ⑤ SEE ALSO EDGE KEY DETAIL - TYPICAL SECTION  
SHEET 5 OF 5
- ⑥ WIDTH MAY VARY AS NEEDED FOR REMOVAL OF  
EXISTING RAISED OR GRASS MEDIAN
- ⑦ RAISED MEDIAN WIDTH  
168+00 TO 169+25 TO 169+02.25  
TAPER FROM STA. 169+02.25 TO 169+40



**US 60 WIDENING WITH RAISED MEDIAN**  
**STA. 168+20 TO 169+66.5**

**MEDIAN AND SHOULDER**

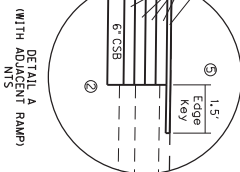
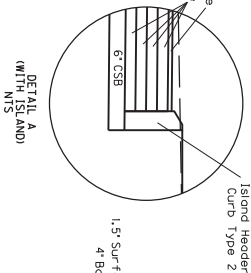
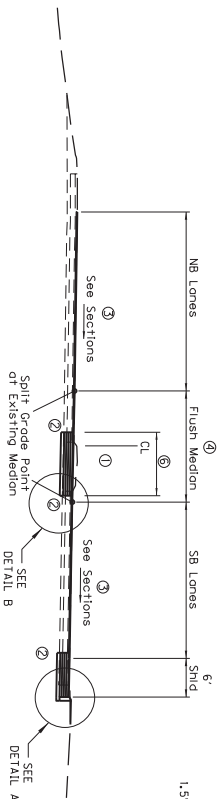
- 1.5' SURFACE — [ 1.5' DEPTH CLASS 3 ASPHALT SURFACE 0.38A PG 76-22
- 22.0' BASE — [ 4.0' DEPTH CLASS 3 ASPHALT BASE 1.00D PG 76-22  
[ 12.0' DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22  
[ 4.0'+4.0'+4.0'  
[ 6' COMPACTED DEPTH CRUSHED STONE BASE



**US 60 WIDENING WITH FLUSH MEDIAN**  
**STA. 168+00 TO 168+20**  
**STA. 177+73 TO 177+86.4**

**MEDIAN AND SHOULDER**

- 1.5' SURFACE — [ 1.5' DEPTH CLASS 3 ASPHALT SURFACE 0.38A PG 76-22
- 22.0' BASE — [ 4.0' DEPTH CLASS 3 ASPHALT BASE 1.00D PG 76-22  
[ 12.0' DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22  
[ 4.0'+4.0'+4.0'  
[ 6' COMPACTED DEPTH CRUSHED STONE BASE



NOT TO SCALE

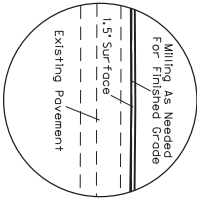
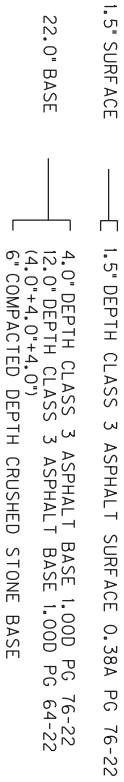
US 60  
WIDENING DETAILS  
TYPICAL SECTION (1 OF 5)

COUNTY OF	ITEM NO.
FRANKLIN	5-187

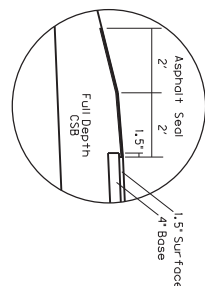
- ① WIDENING MAY BEGIN INSIDE EXISTING EDGE OF DRIVING LANE TO OBTAIN 4' MINIMUM WIDTH
- ② SAW CUT EXISTING PAVEMENT FOR WIDENING REMOVAL TO BE INCLUDED IN EXCAVATION QUANTITIES; QUANTITY TO BE ELIMINATED
- ③ ALL CROSS SLOPE BREAKS TO OCCUR AT LANE LINES
- ④ LANE AND MEDIAN WIDTHS TAPER: 169+00 TO 181+25 AND 179+00 TO 181+25
- ⑤ DO NOT DISTURB EXISTING MEDIAN ISLAND
- ⑥ SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER
- ⑦ WIDTH VARIES - SEE PLANS
- ⑧ EXTEND FULL DEPTH ASPHALT PAVEMENT THROUGH SHOULDER AT STA. 169+90 TO 170+20 (FOR RAMP TURNING RADIUS)

US 60 WIDENING WITH ISLAND RECONSTRUCTION STA. 177+86.4 TO 178+66.2

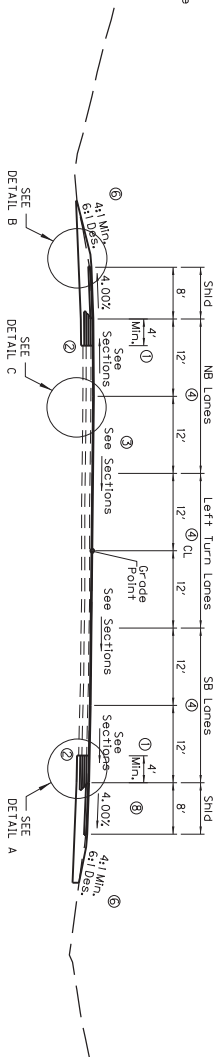
DRIVING LANES AND SHOULDER



DETAIL C  
NTS

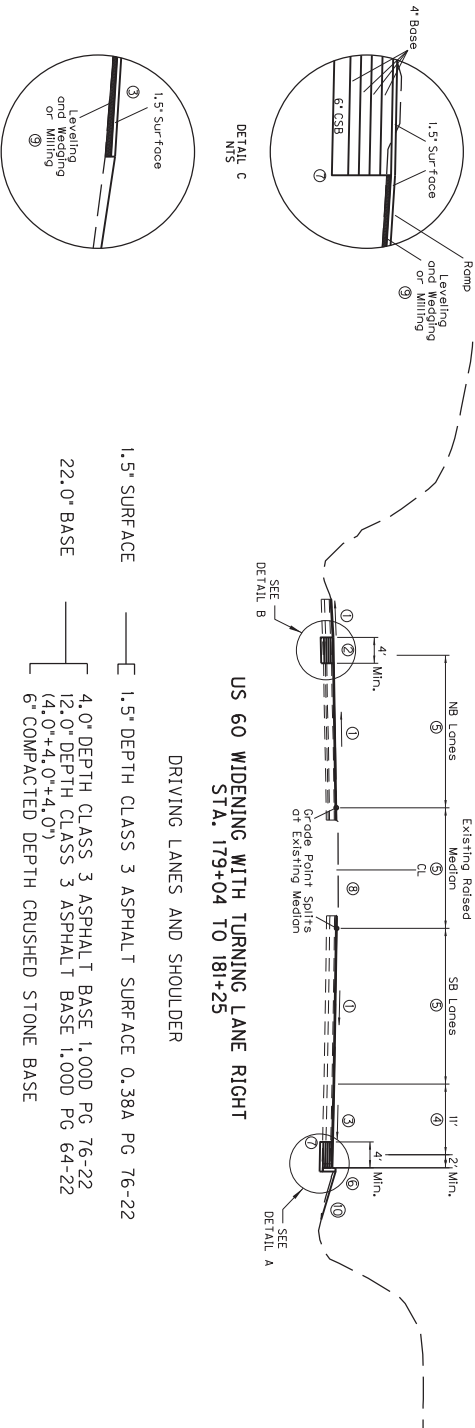


DETAIL B  
NTS

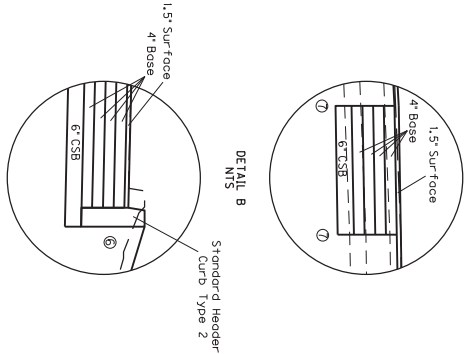
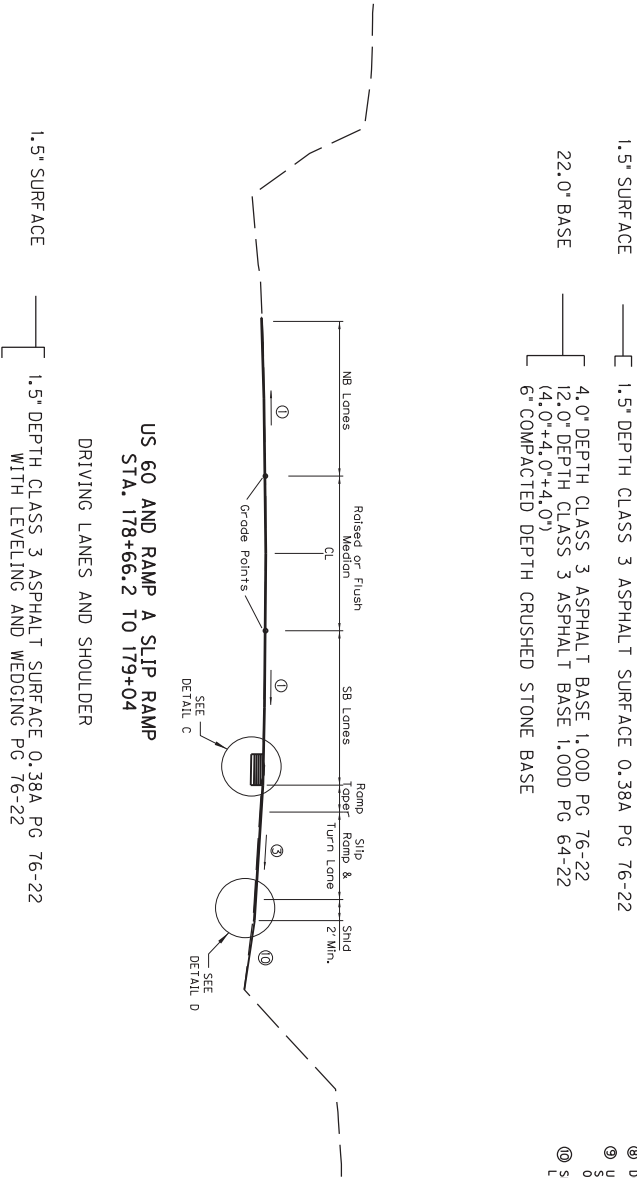




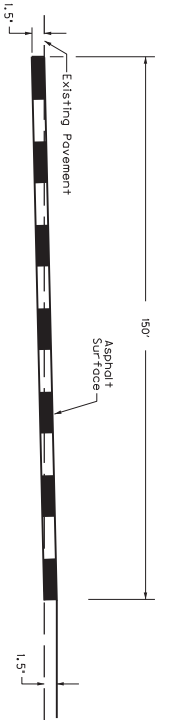
COUNTY OF	ITEM NO.
FRANKLIN	5-187



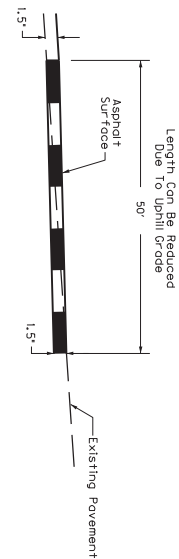
- SEE SECTIONS FOR CROSS SLOPES; ALL BREAKS TO OCCUR AT LANE LINES (EXCEPT FOR WIDENING LEFT)
- BEGIN FULL DEPTH PAVEMENT WIDENING LEFT STA. 179+09.9 NEW PAVEMENT TO MATCH DRIVING LANE CROSS SLOPE (TRANSITION TO SHOULDER SLOPE STA. 181+15 TO 181+25)
- MATCH EXISTING CROSS SLOPE
- TRANSITION FROM SLIP RAMP TO 12' AT STA. 179+84.6
- TRANSITION TO EXISTING WIDTHS STA. 179+00 TO 181+25
- BEGIN STANDARD WEDGER CURE AND FULL DEPTH PAVEMENT WIDENING STA. 179+38.8
- SAW CUT EXISTING PAVEMENT FOR WIDENING FOR PAVEMENT REMOVED BY MILLING, SAW CUT QUANTITY TO BE ELIMINATED
- DO NOT DISTURB EXISTING MEDIAN ISLAND
- USE MILLING AND OVERLAY TO MATCH EXISTING RAMP GRADE FOR PAVEMENT REMOVED BY MILLING, SAW CUT OVERLAY TO ADJUST TO WIDENED US 60 STA. 178+50 TO 179+04
- SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER



RAMP B EDGE KEY DETAIL  
BEGINNING OF OVERLAY



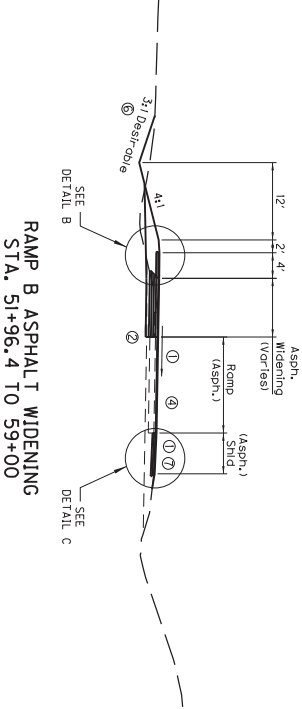
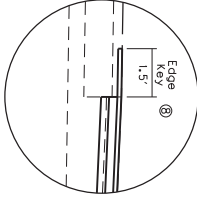
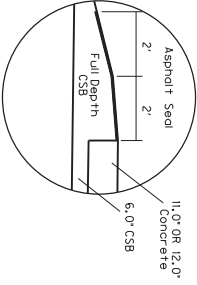
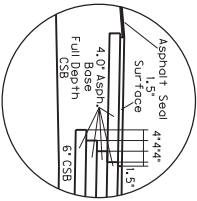
RAMP B EDGE KEY DETAIL  
END OF OVERLAY



NOT TO SCALE

US 60 AND 1-64 RAMP  
WIDENING DETAILS  
TYPICAL SECTION (3 OF 5)

COUNTY OF	ITEM NO.
FRANKLIN	5-187



RAMP B ASPHALT WIDENING  
STA. 51+96.4 TO 59+00

DRIVING LANES

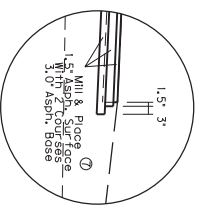
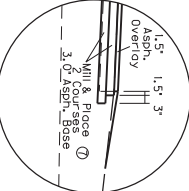
- 1.5' SURFACE — 1.5' DEPTH CLASS 3 ASPHALT SURFACE 0.38A PG 76-22
- 22.0' BASE — 4.0' DEPTH CLASS 3 ASPHALT BASE 1,00D PG 76-22
- 12.0' DEPTH CLASS 3 ASPHALT BASE 1,00D PG 64-22 (4.0'+4.0'+4.0')
- 6' COMPACTED DEPTH CRUSHED STONE BASE

LEFT SHOULDER

- 1.5' SURFACE — 1.5' DEPTH CLASS 3 ASPHALT SURFACE 0.38A PG 76-22
- 22.0' BASE — 4.0' DEPTH CLASS 3 ASPHALT BASE 1,00D PG 64-22 (4.0'+4.0'+4.0')
- 6' COMPACTED DEPTH CRUSHED STONE BASE

RIGHT SHOULDER

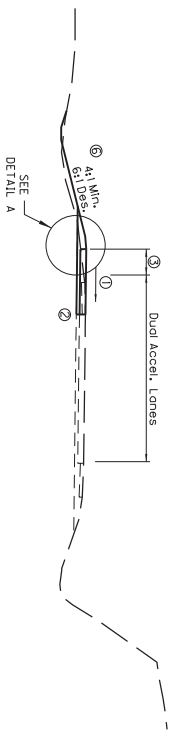
- 1.5' SURFACE — 1.5' DEPTH CLASS 3 ASPHALT SURFACE 0.38A PG 76-22
- 6.0' BASE — MILL EXISTING PAVEMENT AND PLACE 6.0' DEPTH CLASS 3 ASPHALT BASE 1,00D PG 64-22 (3.0'+3.0')



DETAIL C (WITHOUT ADJACENT LANE OVERLAY - EDGE KEY) NTS

DETAIL C (WITH ADJACENT LANE OVERLAY) NTS

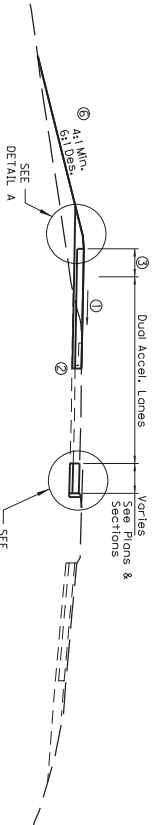
DETAIL C (WITHOUT ADJACENT LANE OVERLAY) NTS



RAMP D FULL CONCRETE WIDENING  
STA. 80+49.7 TO 81+84

DRIVING LANES AND LEFT SHOULDER

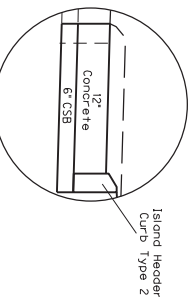
- 11.0' SURFACE — 11.0' JPC CONCRETE
- 6.0' BASE — 6' COMPACTED DEPTH CRUSHED STONE BASE



RAMP B FULL CONCRETE WIDENING  
STA. 50+41.8 TO 51+96.4

DRIVING LANES AND LEFT SHOULDER

- 12.0' SURFACE — 12.0' JPC CONCRETE
- 6.0' BASE — 6' COMPACTED DEPTH CRUSHED STONE BASE

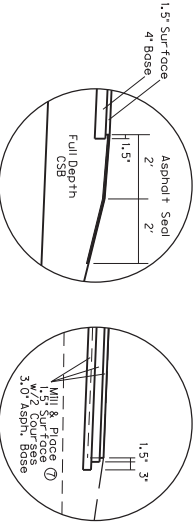
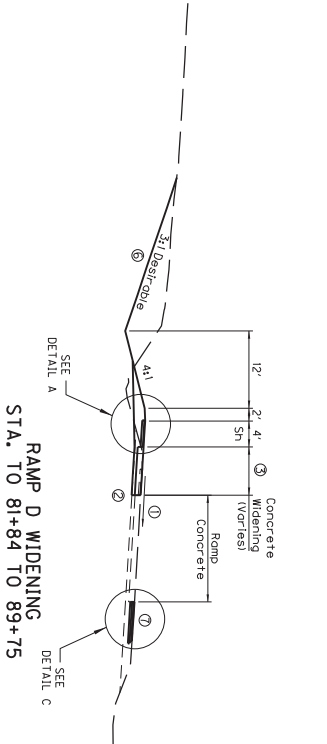


DETAIL D NTS

NOT TO SCALE

1-64 RAMP  
WIDENING DETAILS  
TYPICAL SECTION (4 OF 5)

COUNTY OF	ITEM NO.
FRANKLIN	5-187



**RAMP D WIDENING**  
STA. TO 81+84 TO 89+75

**DRIVING LANES**

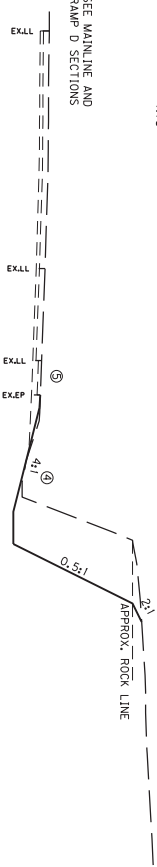
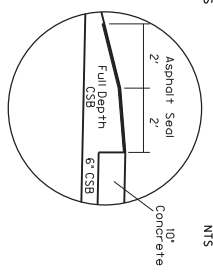
- 11" SURFACE
- 6.0" BASE

**LEFT SHOULDER**

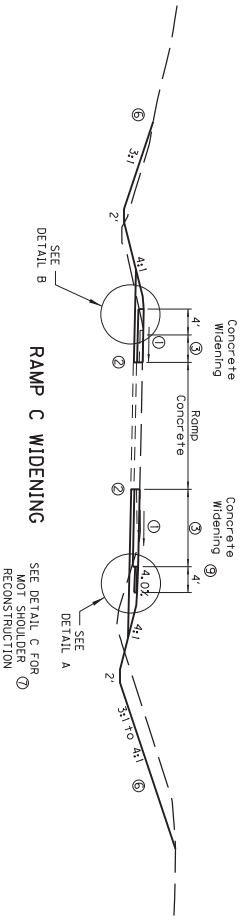
- 1.5" SURFACE
- 15.5" BASE

**RIGHT SHOULDER (FOR MAINTENANCE OF TRAFFIC) ⑦**

- 1.5" SURFACE
- 6.0" BASE



**SLIP RAMP FROM MAINLINE TO RAMP D**



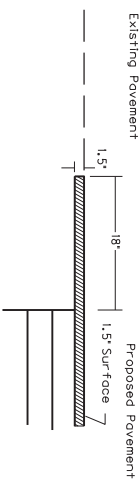
**DRIVING LANES AND LEFT SHOULDER**

- 10.0" SURFACE
- 6.0" BASE
- 1.5" SURFACE
- 14.5" BASE

**RIGHT SHOULDER**

- 1.5" SURFACE
- 6.0" BASE

**LEFT OR RIGHT SHOULDER (FOR MAINTENANCE OF TRAFFIC) ⑦**



**EDGE KEY DETAIL**

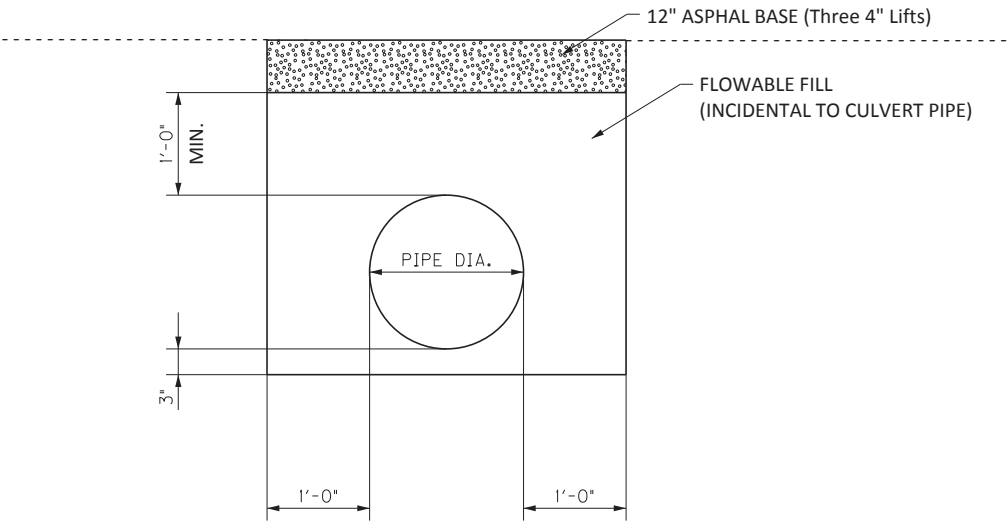
Work under this item shall include cutting out the existing asphalt surface to a minimum depth and width as shown, so that the new surface may heel into the existing surface. The contract unit price bid per linear foot for EDGE KEY shall include all necessary materials, labor, equipment, etc. to perform the work and dispose of the asphalt material removed.

NOT TO SCALE

1-64 RAMP  
WIDENING DETAILS  
TYPICAL SECTION (5 OF 5)

CULVERT PIPE AND STORM SEWER PIPE

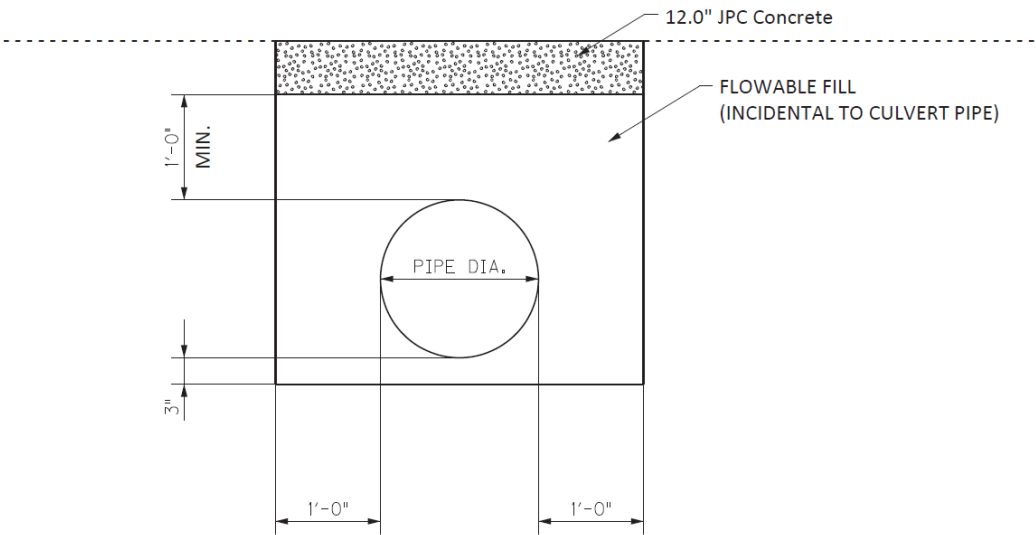
ASPHALT - BACKFILL DETAIL



ASPHALT- INITAL BACKFILL

Culvert Pipe Replacements shall be constructed according to the Inital Backfill Detail shown above, or as directed by the Engineer. Allow the asphalt base to be exposed to traffic a minimum of 14 days to allow for settlement. After the 14 day waiting period, asphalt surface overlay may begin.

CONCRETE - BACKFILL DETAIL



CONCRETE - INITAL BACKFILL

FRANKLIN COUNTY - US 60 & I-64 RAMPS			
MILEPOST 13.186 TO 13.567			
ITEM NO. 5-187.00			
MASTER SUMMARY			
SHEET 1 OF 3			
ITEM NUMBER	ITEM	UNIT	QUANTITY
3	CRUSHED STONE BASE (1)	TON	5,261
78	CRUSHED AGGREGATE SIZE NO 2 (2)	TON	4
100	ASPHALT SEAL AGGREGATE (1)	TON	36.2
103	ASPHALT SEAL COAT (1)	TON	4.3
194	LEVELING AND WEDGING PG76-22 (1)	TON	30
214	CLASS 3 ASPH BASE 1.00D PG 64-22 (1)	TON	2,340
216	CLASS 3 ASPH BASE 1.00D PG 76-22 (1)	TON	431
336	CLASS 3 ASPH SURF 0.38A PG 76-22 (1)	TON	1,241
356	ASPHALT MATERIAL FOR TACK (1)	TON	10.9
461	CULVERT PIPE-15 IN (2)	LF	10
462	CULVERT PIPE-18 IN (2)	LF	21
464	CULVERT PIPE-24 IN (2)	LF	55
524	STORM SEWER PIPE - 24 IN (2)	LF	48
1001	PERFORATED PIPE - 6 IN (2)	LF	18
1011	NON-PERFORATED PIPE - 6 IN (2)	LF	32
1029	PERF PIPE HEADWALL TY 3-6 IN (2)	EACH	3
1033	PERF PIPE HEADWALL TY 4-6 IN (2)	EACH	1
1310	REMOVE PIPE (2)	LF	104
1433	SLOPED BOX OUTLET TYPE 1 - 18 IN (2)	EACH	2
1434	SLOPED BOX OUTLET TYPE 1 - 24 IN (2)	EACH	4
1487	CURB BOX INLET TYPE F (2)	EACH	3
1490	DROP BOX INLET TYPE 1 (2)	EACH	2
1585	REMOVE DROP BOX INLET (2)	EACH	2
1705	REMOVE CURB & GUTTER BOX INLET (2)	EACH	3
1718	REMOVE INLET	EACH	1
1875	STANDARD HEADER CURB TY 2	LF	125
1891	ISLAND HEADER CURB TYPE 2	LF	338
1904	REMOVE CURB	LF	573
1917	STANDARD BARRIER MEDIAN TY 2	SQYD	115.7
1984	DELINEATOR FOR BARRIER - WHITE	EACH	12
2003	RELOCATE TEMP CONC BARRIER	LF	440
2014	BARRICADE TYPE III	EACH	14
2069	JPC PAVEMENT-10 IN (1)	SQYD	744
2070	JPC PAVEMENT-12 IN (1)	SQYD	416
2071	JPC PAVEMENT-11 IN (1)	SQYD	705
2159	TEMPORARY DITCH	LF	1,875
2160	CLEAN TEMPORARY DITCH	LF	938
2200	ROADWAY EXCAVATION	CUYD	7,269
2242	WATER	M GAL	53
2483	CHANNEL LINING CLASS II	TON	934
2484	CHANNEL LINING CLASS III	TON	381
2545	CLEARING AND GRUBBING	LS	1
2562	TEMPORARY SIGNS	SQFT	575
2569	DEMobilIZATION	LS	1
2585	EDGE KEY	LF	152.7
2607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE (2)	SQYD	460
2625	REMOVE HEADWALL (2)	EACH	10
2650	MAINTAIN & CONTROL TRAFFIC	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	6
ALL ITEMS CARRIED OVER FROM GENERAL SUMMARY UNLESS NOTED OTHERWISE.			
(1)	CARRIED OVER FROM THE PAVING SUMMARY		
(2)	CARRIED OVER FROM THE DRAINAGE SUMMARY		

FRANKLIN COUNTY - US 60 & I-64 RAMPS			
MILEPOST 13.186 TO 13.567			
ITEM NO. 5-187.00			
MASTER SUMMARY			
SHEET 2 OF 3			
ITEM NUMBER	ITEM	UNIT	QUANTITY
2676	MOBILIZATION FOR MILL & TEXT	LS	1
2677	ASPHALT PAVE MILLING & TEXTURING	TON	974
2696	SHOULDER RUMBLE STRIPS	LF	5,725
2701	TEMPORARY SILT FENCE	LF	1,875
2703	SILT TRAP TYPE A	EACH	4
2704	SILT TRAP TYPE B	EACH	4
2705	SILT TRAP TYPE C	EACH	4
2706	CLEAN SILT TRAP TYPE A	EACH	4
2707	CLEAN SILT TRAP TYPE B	EACH	4
2708	CLEAN SILT TRAP TYPE C	EACH	4
2726	STAKING	LS	1
2775	ARROW PANEL	EACH	2
2898	RELOCATE CRASH CUSHION	EACH	3
3171	CONCRETE BARRIER WALL TY 9T	LF	580
5950	EROSION CONTROL BLANKET	SQYD	670
5952	TEMPORARY MULCH	SQYD	13,677
5953	TEMP SEEDING AND PROTECTION	SQYD	10,258
5963	INITIAL FERTILIZER	TON	0.36
5964	MAINTENANCE FERTILIZER	TON	0.59
5985	SEEDING AND PROTECTION	SQYD	10,970
5992	AGRICULTURAL LIMESTONE	TON	7.11
6400	GMSS GALV STEEL TYPE A (3)	LBS	3,146
6405	SBM ALUMINUM PANEL SIGNS (3)	SQFT	435
6406	SBM ALUM SHEET SIGNS .080 IN (3)	SQFT	163.31
6407	SBM ALUM SHEET SIGNS .125 IN (3)	SQFT	285.08
6410	STEEL POST TYPE 1 (3)	LF	608
6441	GMSS GALV STEEL TYPE C (3)	LBS	1,056
6490	CLASS A CONCRETE FOR SIGNS (3)	CUYD	16.56
6491	STEEL REINFORCEMENT FOR SIGNS (3)	LBS	220
6510	PAVEMENT STRIPING - TEMP PAINT - 4 IN	LF	4,000
6530	PAVEMENT STRIPING REMOVAL - 4 IN	LF	5,880
6542	PAVE STRIPING-THERMO-6 IN W (4)	LF	5,373
6543	PAVE STRIPING-THERMO-6 IN Y (4)	LF	3,692
6546	PAVE STRIPING-THERMO-12 IN W (4)	LF	429
6547	PAVE STRIPING-THERMO-12 IN Y (4)	LF	104
6556	PAVE STRIPING-DUR TY 1-6 IN W (4)	LF	2,348
6557	PAVE STRIPING-DUR TY 1-6 IN Y (4)	LF	1,576
6560	PAVE STRIPING-DUR TY 1-12 IN W (4)	LF	247
6568	PAVE MARKING - THERMO STOP BAR - 24 IN (4)	LF	144
6569	PAVE MARKING - THERMO CROSS-HATCH (YELLOW) (4)	SQ FT	50
6574	PAVE MARKING - THERMO CURV ARROW (4)	EACH	17
6598	PAVEMENT MARKING REMOVAL (4)	SQ FT	884
8903	CRASH CUSHION TY VI CLASS BT TL3	EACH	2
10020NS	FUEL ADJUSTMENT (1)	DOLL	8,211
10030NS	ASPHALT ADJUSTMENT (1)	DOLL	15,869
20208NC	PAVEMENT MARKING - PAINTED ARROWS	EACH	4
20411ED	LAW ENFORCEMENT OFFICER	HOUR	140
ALL ITEMS CARRIED OVER FROM GENERAL SUMMARY UNLESS NOTED OTHERWISE.			
(1) CARRIED OVER FROM THE PAVING SUMMARY			
(3) CARRIED OVER FROM THE SIGNING SUMMARY			
(4) CARRIED OVER FROM THE STRIPING AND PAVEMENT MARKING SUMMARY			

FRANKLIN COUNTY - US 60 & I-64 RAMPS			
MILEPOST 13.186 TO 13.567			
ITEM NO. 5-187.00			
MASTER SUMMARY			
SHEET 3 OF 3			
ITEM NUMBER	ITEM	UNIT	QUANTITY
20419ND	ROADWAY CROSS SECTION (3)	EACH	2
21134ND	REMOVE-STORE AND REINSTALL SIGN (3)	EACH	3
21373ND	REMOVE SIGN (3)	EACH	24
21596ND	GMSS TYPE D (3)	EACH	16
21596ND	GMSS TYPE D (SURFACE MOUNT) (3)	EACH	1
22045NN	FLUME INLET TYPE 2 - MOD	EACH	1
22520EN	PAVE MARKING - THERMO YIELD BAR-36 IN (4)	LF	15
22520EN	PAVE MARKING - THERMO YIELD BAR-36 IN (TY 1 TAPE) (4)	LF	15
22664EN	WATER BLASTING EXISTING STRIPE (4)	LF	2,250
23253ES717	PAVE MARK TY 1 TAPE CROSS HATCH (AND CHEVRONS) (4)	SQ FT	444
23254ES717	PAVE MARK TY 1 TAPE DOTTED LANE EXT (4)	LF	58.33
23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN (4)	LF	45
23268ES717	PAVE MARK TY 1 TAPE - MERGE ARROW (4)	EACH	4
23270ES717	PAVE MARK TY 1 TAPE - CURV ARROW (4)	EACH	14
23607EC	PAVE MARK THERMO - LANE REDUCTION ARROW (4)	EACH	2
24489EC	INLAID PAVEMENT MARKER	EACH	130
24631EC	BARCODE SIGN INVENTORY (3)	EACH	51
24679ED	PAVE MARK THERMO CHEVRON (4)	SQ FT	48
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN (WHITE) (4)	LF	196.75
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN (YELLOW) (4)	LF	20.75
24894EC	REMOVE (PAVEMENT MARKER LENS) (4)	EACH	6
24969ED	LONGITUDINAL SAW CUT	LF	3,922
ALL ITEMS CARRIED OVER FROM GENERAL SUMMARY UNLESS NOTED OTHERWISE.			
(3) CARRIED OVER FROM THE SIGNING SUMMARY			
(4) CARRIED OVER FROM THE STRIPING AND PAVEMENT MARKING SUMMARY			

ITEM	DESCRIPTION	UNIT	TOTAL PROJECT
1718	REMOVE INLET	EACH	1
1875	STANDARD HEADER CURB TY 2	LF	125
1891	ISLAND HEADER CURB TY 2	LF	338
1904	REMOVE CURB	LF	573
1917	STANDARD BARRIER MEDIAN TY 2	SY	115.7
1984	DELINEATOR FOR BARRIER - WHITE	EACH	12
2003	RELOCATE TEMPORARY CONCRETE BARRIER	LF	440
2014	BARRICADE TYPE III	EACH	14
2159	TEMPORARY DITCH	LF	1875
2160	CLEAN TEMPORARY DITCH	LF	938
2200	ROADWAY EXCAVATION	CU YD	7269
2242	WATER	M GAL	53
2483	CHANNEL LINING CLASS II	TON	934
2484	CHANNEL LINING CLASS III	TON	381
2545	CLEARING AND GRUBBING	LS	1
2562	TEMPORARY SIGNS	SQ FT	575
2569	DEMOLIBLIZATION	LS	1
2585	EDGE KEY	LF	152.7
2650	MAINTAIN AND CONTROL TRAFFIC	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	6
2676	MOBILIZATION FOR MILLING AND TEXTURING	LS	1
2677	ASPHALT PAVEMENT MILLING AND TEXTURING	TON	974
2696	SHOULDER RUMBLE STRIPS	LF	5725
2701	TEMPORARY SILT FENCE	LF	1875
2703	SILT TRAP TYPE "A"	EACH	4
2704	SILT TRAP TYPE "B"	EACH	4
2705	SILT TRAP TYPE "C"	EACH	4
2706	CLEAN SILT TRAP TYPE "A"	EACH	4
2707	CLEAN SILT TRAP TYPE "B"	EACH	4
2708	CLEAN SILT TRAP TYPE "C"	EACH	4
2726	STAKING	LS	1
2775	ARROW PANEL	EACH	2
2898	RELOCATE CRASH CUSHION	EACH	3
3171	CONCRETE BARRIER WALL TY 9T	LF	580
5950	EROSION CONTROL BLANKET	SQ YD	670
5952	TEMPORARY MULCH	SQ YD	13677
5953	TEMPORARY SEEDING AND PROTECTION	SQ YD	10258
5963	INITIAL FERTILIZER	TON	0.36
5964	MAINTENANCE FERTILIZER	TON	0.59
5985	SEEDING AND PROTECTION	SQ YD	10970
5992	AGRICULTURAL LIMESTONE	TON	7.11
6510	PAVEMENT STRIPING - TEMP PAINT - 4 INCH	LF	4000
6530	PAVEMENT STRIPING REMOVAL 4"	LF	5880
8903	CRASH CUSHION TY VI CLASS BT TL3	EACH	2
20208NC	PAVEMENT MARKING - PAINTED ARROWS	EACH	4
20411ED	LAW ENFORCEMENT OFFICER	HOURL	140
22045NN	FLUME INLET TYPE 2 - MODIFIED	EACH	1
24489EC	INLAID PAVEMENT MARKERS	EACH	130
24969ED	LONGITUDINAL SAW CUT	LF	3922

- ① APPROXIMATELY 4.2 ACRES
- ② FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY; ESTIMATED AT 75 MGAL PER MILE
- ③ FOR MAINTENANCE OF TRAFFIC
- ④ TO INCLUDE ALL ITEMS NOT SPECIFICALLY LISTED ON SUMMARY SHEETS NEEDED TO MAINTAIN AND CONTROL TRAFFIC THROUGHOUT CONSTRUCTION
- ⑤ NO PROPOSED DIGITAL TERRAIN MODEL (DTM) WAS DEVELOPED FOR THIS PROJECT; USE CROSS SECTIONS FOR ALL PROPOSED ROADWAY ELEVATIONS
- ⑥ SHORTENED TO FIT EXISTING DITCH
- ⑦ EXISTING FLUME
- ⑧ INCLUDES 45.8 LF FOR MAINTENANCE OF TRAFFIC SHOULDER RECONSTRUCTION
- ⑨ INCLUDES QUANTITIES FOR MAINTENANCE OF TRAFFIC LANE SHIFTS
- ⑩ CALCULATED USING AVERAGE END AREAS (492 CU YD)

⑨ EXCAVATION INCLUDES:

5088	CY COMMON EXCAVATION
2113	CY SOLID ROCK EXCAVATION
68	CY DITCH EXCAVATION (FROM PIPE SUMMARY)

7269 CY TOTAL EXCAVATION

EMBANKMENT INCLUDES:

912	CY EMBANKMENT
912	CY TOTAL EMBANKMENT

NOTE:  
ESTIMATE FOR EARTHWORK CALCULATIONS FOR DESIGN ONLY. THE CONTRACTOR IS ADVISED THAT THE EARTHWORK CALCULATIONS SHOWN ARE FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY.

COUNTY OF	ITEM NO.
FRANKLIN	5-187

GENERAL SUMMARY	QUANTITIES CARRIED OVER TO MASTER SUMMARY
-----------------	---

NOT TO SCALE



PAVING AREAS

CODE	ITEM	US 60	US 60 SHOULDER	RAMP B	RAMP B SHOULDER	RAMP C	RAMP C SHOULDER	RAMP D	RAMP D SHOULDER	TOTAL PROJECT
SQUARE YARDS										
CONCRETE PAVEMENT										
02069	10" JPC CONCRETE					744				744
02071	11" JPC CONCRETE							705		705
02070	12" JPC CONCRETE			416						416
00003	6" COMPACTED DEPTH CRUSHED STONE BASE			424		744		705		1873
00003	FULL DEPTH COMPACTED CRUSHED STONE BASE								**	
ASPHALT SURFACE OVERLAY										
00336	1.5" CLASS 3 ASPH SURF 0.38A PG 76-22	9608								9608
00194	LEVELING AND WEDGING PG 76-22		***							
ASPHALT PAVEMENT DRIVING LANES										
00336	1.5" CLASS 3 ASPH SURF 0.38A PG 76-22	1251		589						1840
00216	4.0" CLASS 3 ASPH BASE 1.00D PG 76-22	1357		599						1956
00214	12.0" CLASS 3 ASPH BASE 1.00D PG 64-22 (4.0"+4.0"+4.0")	4394		1953						6347
00003	6" COMPACTED DEPTH CRUSHED STONE BASE	1587		704		***				2291
00003	FULL DEPTH COMPACTED CRUSHED STONE BASE									
ASPHALT PAVEMENT SHOULDERS										
00336	1.5" CLASS 3 ASPH SURF 0.38A PG 76-22		1269		202		202		307	1980
00214	4.0" CLASS 3 ASPH BASE 1.00D PG 64-22		1269		202		208		317	1996
00003	10.5" COMPACTED DEPTH CRUSHED STONE BASE						225			225
00003	11.5" COMPACTED DEPTH CRUSHED STONE BASE								344	344
00003	18" COMPACTED DEPTH CRUSHED STONE BASE		1269		202					1471
00003	FULL DEPTH COMPACTED CRUSHED STONE BASE		+				++		+++	
00100	ASPHALT SEAL AGGREGATE		639		385		364		418	1806
00103	ASPHALT SEAL COAT		639		385		364		418	1806
MOT PAVEMENT										
00336	1.5" CLASS 3 ASPH SURF 0.38A PG 76-22				661		143		583	1387
00214	6.0" CLASS 3 ASPH BASE 1.00D PG 64-22 (3.0"+3.0")				1382		465		1215	3062
00356	ASPHALT MATERIAL FOR TACK	18427	1269	2552	1584		673		1532	26037

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	US 60	US 60 SHOULDER	RAMP B	RAMP B SHOULDER	RAMP C	RAMP C SHOULDER	RAMP D	RAMP D SHOULDER	TOTAL PROJECT
00003	CRUSHED STONE BASE ①	TON	548	2167	387	766	257	318	243	575	5261
00100	ASPHALT SEAL AGGREGATE ③	TON		12.8		7.7		7.3		8.4	36.2
00103	ASPHALT SEAL COAT ②	TON		1.5		0.9		0.9		1.0	4.3
00194	LEVELING AND WEDGING PG76-22 ⑤	TON	12								30
00214	CLASS 3 ASPH BASE 1.00D PG 64-22	TON	967	279	430	272		122		270	2340
00216	CLASS 3 ASPH BASE 1.00D PG 76-22	TON	299	132							431
00336	CLASS 3 ASPH SURF 0.38A PG 76-22	TON	913	105	49	72		29		73	1241
00356	ASPHALT MATERIAL FOR TACK ④	TON	7.7	0.5	1.1	0.7		0.3		0.6	10.9
02069	10" JPC CONCRETE	SO YD					744				744
02070	12" JPC CONCRETE	SO YD			416						416
02071	11" JPC CONCRETE	SO YD						705			705
10020NS	FUEL ADJUSTMENT	DOLL									8211
10030NS	ASPHALT ADJUSTMENT	DOLL									15869

NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② ESTIMATED AT 2.4 LB PER SQ. YD. (TWO APPLICATIONS)
- ③ ESTIMATED AT 20 LBS. PER SQ. YD. (TWO APPLICATIONS)
- ④ ESTIMATED @ 0.84 LBS / SY
- ⑤ INCLUDES ADDITIONAL QUANTITY TO BE USED AT THE DIRECTION OF THE ENGINEER

CALCULATED USING AVERAGE END AREAS :

• 35 CY (172 TONS)  
•• 30 CY (162 TONS)  
••• 209 CY (1024 TONS)  
•••• 409 CY (1963 TONS)  
++ 88 CY (182 TONS)  
+++ 138 CY (286 TONS)

PAVING SUMMARY

QUANTITIES CARRIED OVER TO MASTER SUMMARY

NOT TO SCALE

COUNTY OF	ITEM NO.
FRANKLIN	5-187

# DRAINAGE SUMMARY

ITEM CODE	SKEW	COVER HEIGHT (FT)	DESIGN PH LEVEL	CRUSHED AGGR. SIZE No 2	CULVERT PIPE 15 INCH	CULVERT PIPE 18 INCH	CULVERT PIPE - 24 INCH	STORM SEWER PIPE - 24 INCH	PERFORATED PIPE - 6 INCH	NON-PERF. PIPE - 6 INCH	6 IN PERFORATED PIPE HEADWALL TY 3	6 IN PERFORATED PIPE HEADWALL TY 4	REMOVE PIPE	SLOPED BOX OUTLET TYPE 1 - 18 INCH	SLOPED BOX OUTLET TYPE 1 - 24 INCH	CURB BOX INLET TYPE F	DROP BOX INLET TYPE 1	REMOVE DROP BOX INLET	REMOVE CURB & GUTTER BOX INLET	ROADWAY EXCAVATION DITCH EXCAVATION	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	REMOVE HEADWALL
UNIT TO BID				TON	LN FT	LN FT	LN FT	LN FT	LN FT	LN FT	EACH	EACH	LN FT	EACH	EACH	EACH	EACH	EACH	EACH	CU YD	SQ YD	EACH
US 60					4								5			1				1		
168+14.9	0°	3 M											9			1					10	
177+95.56	0°	3 M											4								12	
179+17.73	4°33'54" Rt.	2 M			4			7					4				1	1			25	
179+50	0°	1 M						26					33				1	1			94	
180+05		1 M						15					8								54	
RAMP B																						
51+23.9	0°	2 M			6											1				1	16	
RAMP C		M																				
10+10.35				2					10		2		13									2
11+04.30	0°	3 M					24						4		2					2	87	2
RAMP D																						
81+40.61	0°37' Rt.	3 M				17							6	2						66	50	2
81+93.88				1					4		8	1	11									1
83+09.35							31						4		2						112	2
86+94.87	43°28'11" Lt.	3 M		1					4	8		1	7									1
PROJECT TOTAL				4	10	21	55	48	18	32	3	1	104	2	4	3	2	2	3	68	460	10

IF A PIPE COLLAR OR BEND CONNECTION IS NEEDED FOR CONSTRUCTION OF A PIPE EXTENSION,  
IT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PIPE BEING CONSTRUCTED.

NOT TO SCALE

DRAINAGE  
SUMMARY

QUANTITIES CARRIED OVER TO  
MASTER SUMMARY

SIGN LOCATION			SEE PANEL DETAIL SHEET FOR QUANTITIES																				
Assembly ID	Side of Road	Approx Offset (ft)	Approx Station	Approx. Mile Point	Facing Traffic Traveling	MUTCD Code	Sign Description	Sign Text / Remarks	Sign Dimensions (in x in)	SHEETING			SBM Alum Sheet Signs 0.080 IN (SQ FT)	SBM Alum Sheet Signs 0.125 IN (SQ FT)	Installation Type	Bracing Req'd	# of Sign Posts	Estimated Length of 2" Post (ft)	Estimated Length of 2-1/2" Post (ft)	2-1/4" Stiffener Req'd (incent to post)	TOTAL Estimated Sign Post Length (LF)	Barcode Sign Inv. (EACH)	
										Text/ Symbol Color	Background Color	Sheeting Type											
P-2	RT	62	166+00	13.180	SB					36 x 48	Black	FL Yellow	Xi		12.00	Strnd w/ Soil Plate		2	15.00				1
S-5	RT	41	168+26	13.223	SB	W1-8R	Right Chevron			48 x 48	Black	White	Xi	20.00		Strnd w/ Soil Plate		2	16.00				1
S-9	RT	16	53+03		WB	RS-10a	No Pedestrians, Bicycles, Motor-Driven Cycles			48 x 60	Black	White	Xi			Strnd w/ Soil Plate		2				32.00	1
S-12	RT	16	53+93		WB	W4-2L	Lane Ends Merge Left			48 x 48	Black	Yellow	Xi		16.00	Strnd w/ Soil Plate		2	15.00			30.00	1
S-13	RT	13	51+14		WB	W9-1R	Right Lane Ends			48 x 48	Black	Yellow	Xi		16.00	Strnd w/ Soil Plate		2	15.00			30.00	1
S-15	LT	47	172+19	13.298	NB	R3-1	No Right Turn			36 x 36	Red & Black	White	Xi	9.00		Strnd w/ Soil Plate	Yes	1	14.00			14.00	1
S-16	LT	63	170+65	13.268	NB	M3-4	West			24 x 12	Black	White	Xi	2.00		Strnd w/ Soil Plate		1	15.25			15.25	1
					NB	M1-1	Interstate Route Sign (2-digit)	I-64	24 x 24	White	Blue & Red	Xi	4.00										
					NB	M6-1L	Left Arrow		21 x 15	Black	White	Xi	2.19										
S-17	LT	54	170+17	13.259	NB	R6-1L	One Way			54 x 18	Black	White	Xi		6.75	Strnd w/ Soil Plate		2				27.00	1
					SB	R6-1R	One Way		54 x 18	Black	White	Xi		6.75									
					EB	RS-1	Do Not Enter		48 x 48	White	Red	Xi		16.00									
S-18	LT	33	9+20	RAMP C	EB	RS-1a	Wrong Way			42 x 30	White	Red	Xi	13.50		Strnd w/ Soil Plate		1	13.50			13.50	1
S-19	LT	33	7+90	RAMP C	WB	W3-3	Signal Ahead			48 x 48	Red, Green & Black	Yellow	Xi	15.00		Strnd w/ Soil Plate		1	15.00			15.00	1
S-21	RT	21	9+31	RAMP C	WB	Destination	Kentucky State	REMOVE, STORE AND REINSTALL SIGNS SEE DETAIL SHEETS			White	Green	Xi			Type D	Yes	2				24.00	
					WB	Destination	Verailles / Frankfort			White	Green	Xi											
					EB	RS-1a	Wrong Way			White	Red	Xi											
S-22	RT	20	10+50	RAMP C	WB	R3-1	Historic Downtown Frankfort	REMOVE, STORE & REINSTALL SIGNS SEE DETAIL SHEETS			White	Brown	Xi			Type D	Yes	2				24.00	
						R3-1	Center for KY History			White	Brown	Xi											
						R3-1	Rebecca Ruth Candy Tours			White	Brown	Xi											
S-23	LT	1	169+58	13.248	NB	M3-4	West			24 x 12	Black	White	Xi	4.50		Type D Surface Mount	Yes	1				15.25	1
					NB	M1-1	Interstate Route Sign (2-digit)	I-64	24 x 24	White	Blue & Red	Xi	9.00										
					NB	M6-1L	Left Arrow		21 x 15	Black	White	Xi	4.38										
S-24	LT	62	168+88	13.235	SB	R3-2	No Left Turn			36 x 36	Red & Black	White	Xi	9.00		Strnd w/ Soil Plate		2				27.00	1
					NB	R6-1L	One Way		54 x 18	Black	White	Xi		6.75									
					SB	R6-1R	One Way		54 x 18	Black	White	Xi		6.75									
S-29	RT	48	175+38	13.358	SB	RS-1	Do Not Enter			48 x 48	White	Red	Xi		16.00	Strnd w/ Soil Plate						27.00	1
S-30	LT	54	176+70	13.383	SB	R3-1	No Right Turn			36 x 36	Red & Black	White	Xi	9.00		Strnd w/ Soil Plate		1				14.00	1
					NB	M3-2	East		24 x 12	Black	White	Xi	2.00										
					NB	M1-1	Interstate Route Sign (2-digit)	I-64	24 x 24	White	Blue & Red	Xi	4.00										
S-32	RT	49	177+26	13.394	SB	M6-1L	Left Arrow			21 x 15	Black	White	Xi	2.19		Strnd w/ Soil Plate		1				15.25	1
					SB	R6-1L	One Way		54 x 18	Black	White	Xi		6.75									
					NB	R6-1R	One Way		54 x 18	Black	White	Xi		6.75									
S-33	RT	47	177+92	13.406	WB	RS-1	Do Not Enter			48 x 48	White	Red	Xi		16.00	Strnd w/ Soil Plate		2				27.00	1
					SB	R6-1L	One Way		54 x 18	Black	White	Xi		6.75									
					NB	R6-1R	One Way		54 x 18	Black	White	Xi		6.75									
S-35	RT	39	178+37	13.415	WB	RS-1	Do Not Enter			48 x 48	White	Red	Xi		16.00	Strnd w/ Soil Plate						27.00	1
S-37	RT	37	178+67	13.420	SB	W4-3R	Added Lane (on Right)			48 x 48	Black	Yellow	Xi		16.00	Strnd w/ Soil Plate		2				30.00	1
					SB	W1-8R	Right Chevron		36 x 48	Black	FL Yellow	Xi		12.00									
					EB	R6-1R	One Way		54 x 18	Black	White	Xi		6.75									
S-38	RT	58	179+30	13.432	WB	R6-1L	One Way			54 x 18	Black	White	Xi		16.00	Strnd w/ Soil Plate		2				27.00	1
					NB	RS-1	Do Not Enter		48 x 48	White	Red	Xi		16.00									
					NB	R6-1L	One Way		54 x 18	Black	White	Xi		6.75									

SIGN LOCATION										Sign Summary				FRANKLIN County				US 60 @ I-64 Ramps													
Assembly ID	Side of Road	Approx Offset (ft)	Approx Station	Approx. Mile Point	Feeding Traffic Traveling	MUTCD Code	Sign Description	Sign Text / Remarks	Sign Dimensions (In x in)	SHEETING			SBM Alum Sheet Signs 0.080 IN (SQ FT)	SBM Alum Sheet Signs 0.125 IN (SQ FT)	Installation Type	Bracing Req'd	# of Sign Posts	Estimated Length of 2" Post (ft)	Estimated Length of 2-1/2" Post (ft)	2-1/4" Stiffener Req'd (Incent)	TOTAL Estimated Sign Post Length (LF)	Barcode Sign Inv. (EACH)									
										Text/ Symbol Color	Background Color	Sheeting Type																			
P-40	LT	45	179+00	13.427	NB																										
S-42	LT	94	178+19	13.411	EB	R1-2	Yield		48 x 48	White	Red	XI		10.83	Strnd w/ Soil Plate		1	15.00			15.00	1									
S-44	RT	13	82+64	RAMP D	EB	RS-10a	No Pedestrians, Bicycles, Motor-Driven Cycles		48 x 60	Black	White	XI	20.00		Strnd w/ Soil Plate		2	16.00			32.00	1									
S-45	RT	0	177+90	13.406	NB	M3-2	East	I-64	24 x 12	Black	White	XI	2.00					15.25		15.25	15.25	1									
																							SB	M1-1	Interstate Route Sign (2-digit)	24 x 24	White	Blue & Red	XI	4.00	
																							SB	M6-1L	Left Arrow	21 x 15	White	Blue	XI	2.19	
S-46	RT	12	81+65	RAMP D	EB	R3-2	No Left Turn		36 x 36	Red & Black	White	XI	9.00		Strnd w/ Soil Plate		2	15.00			30.00	1									
S-47	RT	15	83+65	RAMP D	EB	W9-1R	Right Lane Ends		48 x 48	Black	Yellow	XI		16.00	Strnd w/ Soil Plate		2	15.00			30.00	1									
S-50	LT	51	184+30	13.527	NB	M3-4	West	I-64	24 x 12	Black	White	XI	2.00																		
																							NB	M1-1	Interstate Route Sign (2-digit)	24 x 24	White	Blue & Red	XI	4.00	
																							NB	M6-3	Straight Arrow	21 x 15	Black	White	XI	2.19	
																							NB	M3-2	East	24 x 12	Black	White	XI	2.00	
																							NB	M1-1	Interstate Route Sign (2-digit)	24 x 24	White	Blue & Red	XI	4.00	
					NB	M5-2R	Advance Right 45° Turn Arrow	I-64	21 x 15	Black	White	XI	2.19		Strnd w/ Soil Plate	Yes	1			15.25	15.25	1									
					NB																	1									

SEE PANEL DETAIL SHEET FOR QUANTITIES

Remove Sign		
Assembly ID	Number of Sign Assemblies	
S3	2	
S5	1	
S6	1	
S15	1	
S17	1	
S18	1	
S19	1	
S23	1	
S24	1	
S28	1	
S29	1	
S30	1	
S32	1	
S33	1	
S35	1	
S37	1	
S38	1	
S41	1	
S43	1	
S44	1	
S45	1	
S48	1	

Summary of Items		
SBM Alum Sheet Signs 0.080 INCH		163.31
SBM Alum Sheet Signs 0.125 INCH		SQ FT
Barcode Sign Inventory		51
Remove Sign		EACH
Remove Sign		24
Remove Sign		EACH

Summary of Items		
Steel Post - Type 1		608
GMSS Type D		LF
GMSS Type D Surface Mount		16
CLASS A Concrete for Signs		EACH
Remove-Store And Reinstall Sign		1
Remove-Store And Reinstall Sign		CU YD
Remove-Store And Reinstall Sign		4
Remove-Store And Reinstall Sign		EACH
Remove-Store And Reinstall Sign		3
Remove-Store And Reinstall Sign		EACH

PANEL SIGN - Summary of Items		
GMSS GALV STEEL TYPE A		3146
GMSS GALV STEEL TYPE C		1056
SBM ALUMINUM PANEL SIGNS		435
CLASS A CONCRETE FOR SIGNS		1256
STEEL REINFORCEMENT FOR SIGNS		220
ROADWAY CROSS SECTIONS		2
CARRIED OVER FROM THE PANEL SIGN DETAIL SHEET		EACH

Remove Store and Reinstall Sign	
Assembly ID	Number of Sign Assemblies
S21	1
S22	2
Total	3

QUANTITIES CARRIED OVER TO MASTER SUMMARY
---

FRANKLIN COUNTY US 60 (VERSAILLES ROAD) & I-64 RAMPS ITEM NO. 5-187.00 STRIPING / PAVEMENT MARKING SUMMARY PAGE 1 OF 6						
STRIPING - US 60 (VERSAILLES ROAD)						
BEGIN		END		LENGTH	LF	
STATION	OFFSET	STATION	OFFSET			
US 60 (VERSAILLES ROAD) - 6" WHITE THERMO						
6" Single Solid White Line (PAVE STRIPING-THERMO-6 IN W) ON ASPHALT						
165+96	8' LEFT	167+80	7.5' LEFT	184	184	
168+00	31.6' LEFT	168+71	33' LEFT	71	71	
168+12	32.3' RIGHT	169+65	35' RIGHT	153	153	
168+75	21.3' RIGHT	169+35	22.4' RIGHT	60	60	
169+93	35.4' LEFT	177+32	36' LEFT	739	739	
170+02	35.6' RIGHT	177+35	36' RIGHT	733	733	
170+58	0.0'	173+50	0.0'	292	292	
170+58	12' LEFT	173+50	12' LEFT	292	292	
170+58	24' LEFT	171+18	24' LEFT	60	60	
174+50	12' RIGHT	176+75	12' RIGHT	225	225	
174+50	0.0'	176+75	0.0'	225	225	
176+15	24' RIGHT	176+75	24' RIGHT	60	60	
177+84	36' RIGHT	178+65	36' RIGHT	81	81	
178+00	24' LEFT	179+00	24' LEFT	100	100	
179+00	36' LEFT	181+25	32' LEFT	225	225	
179+16	8.7' RIGHT	179+56	8' RIGHT	40	40	
6" Single Dashed White Line (PAVE STRIPING-THERMO-6 IN W) ON ASPHALT						
168+00	19.9' RIGHT	168+75	21.3' RIGHT	75	18.75	
168+00	19.6' LEFT	169+77	23' LEFT	177	44.25	
170+25	24' RIGHT	176+15	24' RIGHT	590	147.50	
171+18	24' LEFT	176+75	24' LEFT	557	139.25	
177+81	24' RIGHT	181+25	19.7' RIGHT	344	86.00	
179+00	24' LEFT	181+25	20.2' LEFT	225	56.25	
US 60 (VERSAILLES ROAD) - 6" WHITE LANE EXT THERMO						
6" (2' SKIP 6' GAP) (PAVE MARKING-THERMO DOTTED LANE EXTEN) ON ASPHALT						
167+80	7.5' LEFT	168+80	9.1' LEFT	100	25.00	
169+83	35.3' RIGHT	170+56	0.0'	86	21.50	
173+50	12' RIGHT	174+50	12' RIGHT	100	25.00	
173+50	12' LEFT	174+50	12' LEFT	100	25.00	
176+76	0.0'	177+52	36' LEFT	87	21.75	

STRIPING - US 60 (VERSAILLES ROAD)						
BEGIN		END		LENGTH	LF	
STATION	OFFSET	STATION	OFFSET			
US 60 (VERSAILLES ROAD) - 6" YELLOW THERMO						
6" Single Solid Yellow Line (PAVE STRIPING-THERMO-6 IN Y) ON ASPHALT						
168+22	8.2' RIGHT	169+58	10.7' RIGHT	136	136	
168+22	0.9' RIGHT	169+58	10.7' LEFT	138	138	
177+93	12' RIGHT	178+74	12' RIGHT	81	81	
177+93	12' LEFT	178+74	12' LEFT	81	81	
180+06	9.9' RIGHT	181+25	7.6' RIGHT	119	119	
180+06	10.3' LEFT	181+25	8.5' LEFT	119	119	
6" Double Solid Yellow Line (PAVE STRIPING-THERMO-6 IN Y) ON ASPHALT						
165+96	8' RIGHT	168+22	8.2' RIGHT	226	45.2	
167+80	8' RIGHT	168+22	0.9' RIGHT	43	86	
170+57	12' RIGHT	173+50	12' RIGHT	293	586	
173+50	12' RIGHT	174+50	12' LEFT	100	200	
174+50	12' LEFT	176+63	12' LEFT	213	426	
178+74	12' RIGHT	179+16	11.75' LEFT	42	84	
178+74	12' LEFT	179+56	11.1' LEFT	82	164	

US 60 (VERSAILLES ROAD) - 12" YELLOW THERMO						
12" Single Solid Yellow Line (PAVE STRIPING-THERMO-12 IN Y) ON ASPHALT						
169+58	10.7' RIGHT	169+58	10.7' LEFT	34	34	
177+93	12' RIGHT	177+93	12' LEFT	38	38	
180+06	9.9' RIGHT	180+06	10.3' LEFT	32	32	

US 60 (VERSAILLES ROAD) - 12" WHITE THERMO						
12" Single Solid White Line (PAVE STRIPING-THERMO-12 IN W) ON ASPHALT						
167+83	31.7' RIGHT	168+12	32.3' RIGHT	29	29	
169+50	35' LEFT	169+76	35.6' LEFT	26	26	
177+70	36' LEFT	178+46	36' LEFT	76	76	
178+65	36' RIGHT	179+50	35' RIGHT	85	85	

FRANKLIN COUNTY  
US 60 (VERSAILLES ROAD) & I-64 RAMPS  
ITEM NO. 5-187.00  
STRIPING / PAVEMENT MARKING SUMMARY PAGE 2 OF 6

STRIPING - RAMP A				
BEGIN	END	LENGTH		
US 60 STATION	OFFSET	US 60 STATION	OFFSET	LF
RAMP A (I-64 EASTBOUND OFF RAMP) - 6" WHITE THERMO				
6" Single Solid White Line (PAVE STRIPING-THERMO-6 IN W) ON ASPHALT				
177+84	36' RIGHT	177+86	45' RIGHT	9
177+97	91.6' RIGHT	181+25	42.8' RIGHT	335
RAMP A (I-64 EASTBOUND OFF RAMP) - 6" WHITE LANE EXT THERMO				
6" (2' SKIP 6' GAP) (PAVE MARKING-THERMO DOTTED LANE EXTEN) ON ASPHALT				
176+88	24' LEFT	177+64	51' RIGHT	118
RAMP A (I-64 EASTBOUND OFF RAMP) - 6" YELLOW THERMO				
6" Single Solid Yellow Line (PAVE STRIPING-THERMO-6 IN Y) ON ASPHALT				
177+35	36' RIGHT	177+38	45' RIGHT	9
177+89	77.2' RIGHT	178+68	46.2' RIGHT	86
RAMP A (I-64 EASTBOUND OFF RAMP) - 12" WHITE THERMO				
12" Single Solid White Line (PAVE STRIPING-THERMO-12 IN W) ON ASPHALT				
178+68	46.2' RIGHT	180+25	33.7' RIGHT	158
12" Wide Dotted Lane Line Extension (3' SKIP 9' GAP) (PAVE STRIPING-THERMO-12 IN W) ON ASPHALT				
180+25	33.7' RIGHT	181+25	31.9' RIGHT	25

STRIPING - RAMP B				
BEGIN	END	LENGTH		
RAMP B STATION	OFFSET	RAMP B STATION	OFFSET	LF
RAMP B (I-64 WESTBOUND ON RAMP) - 6" WHITE TAPE				
6" Single Solid White Line Tape (PAVE STRIPING-DUR TY 1-6 IN W) ON CONCRETE				
50+35	14.8' LEFT	51+93	0.0'	160
6" Single Dashed White Line Tape (PAVE STRIPING-DUR TY 1-6 IN W) ON CONCRETE				
50+89	15' LEFT	51+93	13' LEFT	26
RAMP B (I-64 WESTBOUND ON RAMP) - 6" WHITE LANE EXT TAPE				
6" Dotted White Lane Line Extension (2' SKIP 6' GAP) (PAVE MARK TY 1 TAPE DOTTED LANE EXT) ON CONCRETE				
50+35	32.4' LEFT	50+89	15' LEFT	57
RAMP B (I-64 WESTBOUND ON RAMP) - 6" YELLOW TAPE				
6" Single Solid Yellow Line Tape (PAVE STRIPING-DUR TY 1-6 IN Y) ON CONCRETE				
50+36	51.4' LEFT	51+93	26.3' LEFT	163
RAMP B (I-64 WESTBOUND ON RAMP) - 6" WHITE THERMO				
6" Single Solid White Line (PAVE STRIPING-THERMO-6 IN W) ON ASPHALT				
50+44	170.6' RIGHT	53+07	0.0'	340
53+07	0.0'	59+00	0.0'	593
6" Single Dashed White Line (PAVE STRIPING-THERMO-6 IN W) ON ASPHALT				
51+93	13' LEFT	54+50	12' LEFT	257
RAMP B (I-64 WESTBOUND ON RAMP) - 6" WHITE LANE EXT THERMO				
6" (2' SKIP 4' GAP) (PAVE MARKING-THERMO DOTTED LANE EXTEN) ON ASPHALT				
51+93	0.0'	53+07	0.0'	114
RAMP B (I-64 WESTBOUND ON RAMP) - 6" YELLOW THERMO				
6" Single Solid Yellow Line (PAVE STRIPING-THERMO-6 IN Y) ON ASPHALT				
50+38	139' RIGHT	51+93	0.0'	214
51+93	26.3' LEFT	59+00	15' LEFT	711
RAMP B (I-64 WESTBOUND ON RAMP) - 12" WHITE THERMO				
12" Single Solid White Line (PAVE STRIPING-THERMO-12 IN W) ON ASPHALT				
50+28	167' RIGHT	50+38	139' RIGHT	30

FRANKLIN COUNTY  
US 60 (VERSAILLES ROAD) & I-64 RAMPS  
ITEM NO. 5-187.00  
STRIPING / PAVEMENT MARKING SUMMARY PAGE 3 OF 6

STRIPING - RAMP C				
BEGIN	END	LENGTH		LF
RAMP C STATION	OFFSET	RAMP C STATION	OFFSET	
RAMP C (I-64 WESTBOUND OFF RAMP) - 6" WHITE TAPE				
6" Single Solid White Line Tape (PAVE STRIPING-DUR TY 1-6 IN W) ON CONCRETE				
7+85	12' LEFT	11+21	21.8' LEFT	338
8+00	0.0'	12+27	19.6' RIGHT	436
9+00	0.0'	11+77	20' LEFT	280
RAMP C (I-64 WESTBOUND OFF RAMP) - 6" YELLOW TAPE				
6" Single Solid Yellow Line Tape (PAVE STRIPING-DUR TY 1-6 IN Y) ON CONCRETE				
7+00	14.4' LEFT	11+43	68.6' LEFT	462
RAMP C (I-64 WESTBOUND OFF RAMP) - 6" WHITE LANE EXT TAPE				
6" Dotted White Lane Line Extension (2' SKIP 6' GAP) (PAVE MARK TY 1 TAPE DOTTED LANE EXT) ON CONCRETE				
11+79	19.9' LEFT	11+91	18.2' LEFT	12
RAMP C (I-64 WESTBOUND OFF RAMP) - 12" WHITE TAPE				
12" Single Solid White Line Tape (PAVE STRIPING-DUR TY 1-12 IN W) ON CONCRETE				
11+21	21.8' LEFT	11+72	37' LEFT	54
11+21	21.8' LEFT	11+54	56.2' LEFT	49
RAMP C (I-64 WESTBOUND OFF RAMP) - 6" WHITE LANE EXT THERMO				
6" (2' SKIP 6' GAP) (PAVE MARKING-THERMO DOTTED LANE EXTEN) ON ASPHALT				
11+91	18.2' LEFT	12+27	3.1' RIGHT	44
RAMP C (I-64 WESTBOUND OFF RAMP) - 6" YELLOW LANE EXT THERMO				
6" Yellow (2' SKIP 6' GAP) (PAVE MARKING-THERMO DOTTED LANE EXTEN) ON ASPHALT				
11+43	68.6' LEFT	11+35	146.8' LEFT	83
				20.75

STRIPING - RAMP D				
BEGIN	END	LENGTH		LF
RAMP B STATION	OFFSET	RAMP B STATION	OFFSET	
RAMP D (I-64 EASTBOUND ON RAMP) - 6" WHITE TAPE				
6" Single Solid White Line Tape (PAVE STRIPING-DUR TY 1-6 IN W) ON CONCRETE				
80+21	106' RIGHT	81+63	0.0'	191
81+63	0.0'	89+75	0.0'	812
6" Single Dashed White Line Tape (PAVE STRIPING-DUR TY 1-6 IN W) ON CONCRETE				
81+05	15' LEFT	85+25	12' LEFT	420
RAMP D (I-64 EASTBOUND ON RAMP) - 6" WHITE LANE EXT TAPE				
6" Dotted White Lane Line Extension (2' SKIP 6' GAP) (PAVE MARK TY 1 TAPE DOTTED LANE EXT) ON CONCRETE				
80+42	41.3' LEFT	81+05	15' LEFT	71
6" Dotted White Lane Line Extension (2' SKIP 4' GAP) (PAVE MARK TY 1 TAPE DOTTED LANE EXT) ON CONCRETE				
80+93	0.7' LEFT	81+63	0.0'	70
RAMP D (I-64 EASTBOUND ON RAMP) - 6" YELLOW TAPE				
6" Single Solid Yellow Line Tape (PAVE STRIPING-DUR TY 1-6 IN Y) ON CONCRETE				
80+45	61' LEFT	89+75	15' LEFT	951
12" Single Solid White Line Tape (PAVE STRIPING-DUR TY 1-12 IN W) ON CONCRETE				
80+39	23.4' LEFT	80+93	0.7' LEFT	59
80+29	52.3' RIGHT	80+93	0.7' LEFT	85

FRANKLIN COUNTY - US 60 (VERSAILLES ROAD) & I-64 RAMPS - ITEM NO. 5-187.00  
STRIPING / PAVEMENT MARKING SUMMARY PAGE 4 OF 6

PAVEMENT MARKING - THERMO STOP BAR - 24 IN (ASPHALT)			
STATION	OFFSET	DESCRIPTION	LF
US 60 (VERSAILLES ROAD) - PAVE MARKING-THERMO STOP BAR-24 IN			
165+35	10.4' RT TO 34.4' RT	US 60 SOUTHBOUND @ I-64 WB RAMPS	24
170+56	12' RT TO 36' LT	US 60 NORTHBOUND @ I-64 WB RAMPS	48
176+63	12' LT TO 0.0'	US 60 SOUTHBOUND @ I-64 EB RAMPS	12
176+75	0.0' TO 36' RT	US 60 SOUTHBOUND @ I-64 EB RAMPS	36
178+00	12' LT TO 36' LT	US 60 NORTHBOUND @ I-64 EB RAMPS	24
PAVEMENT MARKING - TAPE STOP BAR - 24 IN (CONCRETE)			
RAMP C (I-64 WESTBOUND OFF RAMP) - PAVE MARKING-TY 1 TAPE STOP BAR-24 IN			
11+36	42' LT TO 57' LT	RAMP C LEFT TURN LANE	15
11+63	20' LT TO 35' LT	RAMP C INSIDE RIGHT TURN LANE	15
11+82	5' LT TO 20' LT	RAMP C OUTSIDE RIGHT TURN LANE	15
PAVEMENT MARKING - THERMO YIELD BAR - 36 IN (ASPHALT)			
STATION	OFFSET	DESCRIPTION	LF
RAMP B (I-64 WESTBOUND ON RAMP) - PAVE MARKING-THERMO YIELD BAR-36 IN			
51+34	29' RT TO 44' RT	RAMP B SLIP RAMP MERGE	15
PAVEMENT MARKING - TAPE YIELD BAR - 36 IN (CONCRETE)			
RAMP D (I-64 EASTBOUND ON RAMP) - PAVE MARK TY 1 TAPE YIELD BAR-36 IN			
80+78	9' RT TO 24' RT	RAMP D SLIP RAMP MERGE	15
PAVEMENT MARKING - THERMO CURVE ARROW (ASPHALT)			
STATION	OFFSET	DESCRIPTION	EACH
US 60 (VERSAILLES ROAD) - PAVE MARKING-THERMO CURV ARROW			
166+98	0.0'	US 60 NB LEFT TURN INTO JETT BLVD.	1
167+68	0.0'	US 60 NB LEFT TURN INTO JETT BLVD.	1
171+03	6' RT AND 6' LT	US 60 NORTHBOUND DUAL LEFT	2
171+83	6' RT AND 6' LT	US 60 NORTHBOUND DUAL LEFT	2
172+63	6' RT AND 6' LT	US 60 NORTHBOUND DUAL LEFT	2
173+43	6' RT AND 6' LT	US 60 NORTHBOUND DUAL LEFT	2
174+56	6' RT AND 6' LT	US 60 SOUTHBOUND DUAL LEFT	2
175+36	6' RT AND 6' LT	US 60 SOUTHBOUND DUAL LEFT	2
176+16	6' RT AND 6' LT	US 60 SOUTHBOUND DUAL LEFT	2
179+16	0.0'	US 60 SB LEFT TURN INTO ENTRANCE	1
PAVEMENT MARKING - THERMO LANE REDUCTION ARROW (ASPHALT)			
STATION	OFFSET	DESCRIPTION	EACH
RAMP B (I-64 WESTBOUND ON RAMP) - PAVE MARK THERMO-LANE REDUCTION ARROW			
53+00	6' LEFT	RAMP B - LANE REDUCTION ARROW	1
54+50	6' LEFT	RAMP B - LANE REDUCTION ARROW	1

PAVEMENT MARKING - TAPE CURVE ARROW (CONCRETE)			
STATION	OFFSET	DESCRIPTION	EACH
RAMP C (I-64 WESTBOUND OFF RAMP) - PAVE MARK TY 1 TAPE-CURV ARROW			
8+20	6' LT AND 18' LT	RAMP C - 1 LEFT AND 1 RIGHT ARROW	2
9+00	6' RT, 6' LT, 18' LT	RAMP C - 1 LEFT AND 2 RIGHT ARROW	3
9+80	6' RT, 6' LT, 18' LT	RAMP C - 1 LEFT AND 2 RIGHT ARROW	3
10+60	6' RT, 6' LT, 18' LT	RAMP C - 1 LEFT AND 2 RIGHT ARROW	3
11+25	4' LT, 16' LT, 30' LT	RAMP C - 1 LEFT AND 2 RIGHT ARROW	3
PAVEMENT MARKING - THERMO CROSS HATCH (ASPHALT)			
STATION	WIDTH	DESCRIPTION	SQ FT
RAMP A (I-64 EASTBOUND OFF RAMP) - PAVE MARKING-THERMO CROSS HATCH (YELLOW)			
177+89 TO 178+68	5' WIDTH	24" YELLOW CROSS HATCH ON APPROX. 20' MAX SPACING	50
PAVEMENT MARKING - THERMO CHEVRON (ASPHALT)			
RAMP A (I-64 EASTBOUND OFF RAMP) - PAVE MARK THERMO CHEVRON			
178+68 TO 179+50	0' TO 10' WIDTH	24" WHITE CHEVRONS ON APPROX. 20' MAX SPACING	48
PAVEMENT MARKING - TAPE CROSS HATCH (CONCRETE)			
RAMP C (I-64 WESTBOUND OFF RAMP) - PAVE MARK TY 1 TAPE CROSS HATCH			
11+46 TO 12+24	14' TO 24' WIDTH	24" WHITE CROSS HATCH ON APPROX. 20' MAX SPACING - 45 DEG ANGLE	204
RAMP D (I-64 EASTBOUND ON RAMP) - PAVE MARK TY 1 TAPE CROSS HATCH			
80+39 TO 80+93	0' TO 13' WIDTH	24" WHITE CROSS HATCH ON APPROX. 20' MAX SPACING - TIE INTO CHEVRON MARK	36
PAVEMENT MARKING - TAPE CHEVRON (CONCRETE)			
RAMP C (I-64 WESTBOUND OFF RAMP) - PAVE MARK TY 1 TAPE-CHEVRON MARKINGS			
11+21 TO 11+72	0' TO 27' WIDTH	INSTALL THREE (3) FULL 24" WHITE CHEVRONS IN GORE	92
RAMP D (I-64 EASTBOUND ON RAMP) - PAVE MARK TY 1 TAPE-CHEVRON MARKINGS			
177+69 TO 178+46	0' TO 56' WIDTH	24" WHITE CHEVRONS ON APPROX. 20' MAX SPACING	112
PAVEMENT MARKING - TAPE MERGE ARROW (CONCRETE)			
STATION	OFFSET	DESCRIPTION	EACH
RAMP B (I-64 WESTBOUND ON RAMP) - PAVE MARK TY 1 TAPE-MERGE ARROW			
51+50	6' LEFT	RAMP B - LANE REDUCTION ARROW	1
RAMP D (I-64 EASTBOUND ON RAMP) - PAVE MARK TY 1 TAPE-MERGE ARROW			
82+25	6' LEFT	RAMP D - LANE REDUCTION ARROW	1
83+75	6' LEFT	RAMP D - LANE REDUCTION ARROW	1
85+25	6' LEFT	RAMP D - LANE REDUCTION ARROW	1



FRANKLIN COUNTY  
US 60 (VERSAILLES ROAD) & I-64 RAMPS  
ITEM NO. 5-187.00  
STRIPING / PAVEMENT MARKING SUMMARY PAGE 5 OF 6

WATER BLASTING					
BEGIN		END		LENGTH	LF
STATION	OFFSET	STATION	OFFSET		
US 60 (VERSAILLES ROAD)					
EXISTING Single Solid Yellow Line (WATER BLASTING EXISTING STRIPE) - LEFT TURN MODIFICATION ONTO JETT BLVD. ON ASPHALT					
165+96	8' RIGHT	168+00	10.3' LEFT	205	205
RAMP B (I-64 WESTBOUND ON RAMP)					
EXISTING Single Solid Yellow Line (WATER BLASTING EXISTING STRIPE) ON CONCRETE					
50+35	32.4' LEFT	51+93	11' LEFT	158	158
RAMP C (I-64 WESTBOUND OFF RAMP)					
EXISTING Single Solid White Line (WATER BLASTING EXISTING STRIPE) ON CONCRETE					
8+00	0.0'	9+00	0.0'	100	100
10+82	0.0'	12+27	20' RIGHT	145	145
11+06	11' LEFT	11+54	56' LEFT	70	70
EXISTING Single Solid Yellow Line (WATER BLASTING EXISTING STRIPE) ON CONCRETE					
7+00	14.4' LEFT	11+43	68.6' LEFT	443	443
11+06	11' LEFT	12+11	0.5' LEFT	105	105
RAMP D (I-64 EASTBOUND ON RAMP)					
EXISTING Single Solid White Line (WATER BLASTING EXISTING STRIPE) ON CONCRETE					
80+40	30' LEFT	81+10	8' LEFT	75	75
EXISTING Single Solid Yellow Line (WATER BLASTING EXISTING STRIPE) ON CONCRETE					
80+43	56.5' LEFT	89+75	15' LEFT	932	932
80+93	1' LEFT	81+10	8' LEFT	17	17

PAVEMENT MARKING REMOVAL			
STATION	OFFSET	DESCRIPTION	SF
RAMP C (I-64 WESTBOUND OFF RAMP)			
11+42	7' LEFT TO 6' RIGHT	24" STOP BAR (13 LF) EX. RT TURN LANE	26
11+67	38' LEFT TO 51' LEFT	24" STOP BAR (13 LF) EX. LT TURN LANE	26
10+75 / 11+36	6' LEFT / 2' LEFT	EX. RIGHT TURN ARROWS (2)	31
1075 / 11+25	16' LEFT / 28' LEFT	EX. LEFT TURN ARROWS (2)	31
11+06 TO 12+11	0.0' TO 56' LEFT	EX. CHEVRON MARKINGS IN GORE	384
RAMP D (I-64 EASTBOUND ON RAMP)			
80+40 TO 81+10	30' LEFT TO 52' RIGHT	EX. CHEVRON MARKINGS IN GORE	386

REMOVE PAVEMENT MARKER LENS ALONG EXISTING YELLOW STRIPE			
STATION	OFFSET	DESCRIPTION	EACH
US 60 (VERSAILLES ROAD) LEFT TURN LANE INTO JETT BLVD. MODIFICATION			
165+96 TO 169+40	8' RIGHT TO 10.3' LEFT	REMOVE 6 EX. YELLOW PAVEMENT MARKER LENS	6

FRANKLIN COUNTY  
US 60 (VERSAILLES ROAD) & I-64 RAMPS  
ITEM NO. 5-187.00  
STRIPING / PAVEMENT MARKING SUMMARY PAGE 6 OF 6

STRIPING / PAVEMENT MARKING SUMMARY TOTALS			
BID ITEM	DESCRIPTION	UNIT	QUANTITY
6542	PAVE STRIPING-THERMO-6 IN W	LF	5373
6543	PAVE STRIPING-THERMO-6 IN Y	LF	3692
6546	PAVE STRIPING-THERMO-12 IN W	LF	429
6547	PAVE STRIPING-THERMO-12 IN Y	LF	104
6556	PAVE STRIPING-DUR TY 1-6 IN W	LF	2348
6557	PAVE STRIPING-DUR TY 1-6 IN Y	LF	1576
6560	PAVE STRIPING-DUR TY 1-12 IN W	LF	247
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	144
6569	PAVE MARKING-THERMO CROSS HATCH (YELLOW)	SQFT	50
6574	PAVE MARKING-THERMO CURV ARROW	EACH	17
6598	PAVEMENT MARKING REMOVAL	SQFT	884
22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN	LF	15
22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN (TY 1 TAPE)	LF	15
22664EN	WATER BLASTING EXISTING STRIPE	LF	2250
23253ES717	PAVE MARK TY 1 TAPE CROSS HATCH (AND CHEVRONS)	SQFT	444
23254ES717	PAVE MARK TY 1 TAPE DOTTED LANE EXT	LF	58.33
23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	LF	45
23268ES717	PAVE MARK TY 1 TAPE-MERGE ARROW	EACH	4
23270ES717	PAVE MARK TY 1 TAPE-CURV ARROW	EACH	14
23607EC	PAVE MARK THERMO-LANE REDUCTION ARROW	EACH	2
24679ED	PAVE MARK THERMO CHEVRON	SQFT	48
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN (WHITE)	LF	196.75
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN (YELLOW)	LF	20.75
24894EC	REMOVE (PAVEMENT MARKER LENS)	EACH	6

QUANTITIES CARRIED OVER TO MASTER SUMMARY

Jeff Wolfe - Director  
Phone (502) 564-3020  
FAX (502) 564-7759

DIVISION OF TRAFFIC OPERATIONS

PROJECT MATERIALS RELEASE FORM  
FOR SIGNAL AND LIGHTING

**Note: Email form with signatures to KYTC's warehouse (kim.stamper@ky.gov) at least two (2) days prior to arrival for pickup. Ensure Contractor's delivery driver has a copy of form with signatures. Failure to do either may result in long delays or refusal to distribute materials upon arrival.**

Item Number: 5-187.00  
County: Franklin  
Description: 2 Traffic Signals: US 60 @ I-64 Ramps

Cabinets	Master code	
1	T-01-0020	Base Mounted 332 Cabinet
1	T-01-0105	ATC Controller
1	T-01-0106	1C w/Maxtime (this should go with item ATC controller)
1	T-01-0501	Conflict Monitor, Model 2018
1	T-01-0510	Isolator, Model 242 (1 for 2070, plus for ped detector and railroad)
10	T-01-0700	Load Switches

Signals		
14	T-02-0009	Siemens 3 Section Signal
14	T-02-0032	Siemen 3 section backplate
4	T-02-0033	Siemen 4 secton 12" signal (poly)
4	T-02-0043	Siemen 4-sec. straight signal backplate
4	T-02-0300	LED Module 12" red arrow
8	T-02-0310	LED Module 12" yellow arrow
4	T-02-0320	LED Module 12" green arrow
14	T-02-0330	LED Module 12" red ball
14	T-02-0340	LED Module 12" yellow ball
14	T-02-0350	LED Module 12" green ball

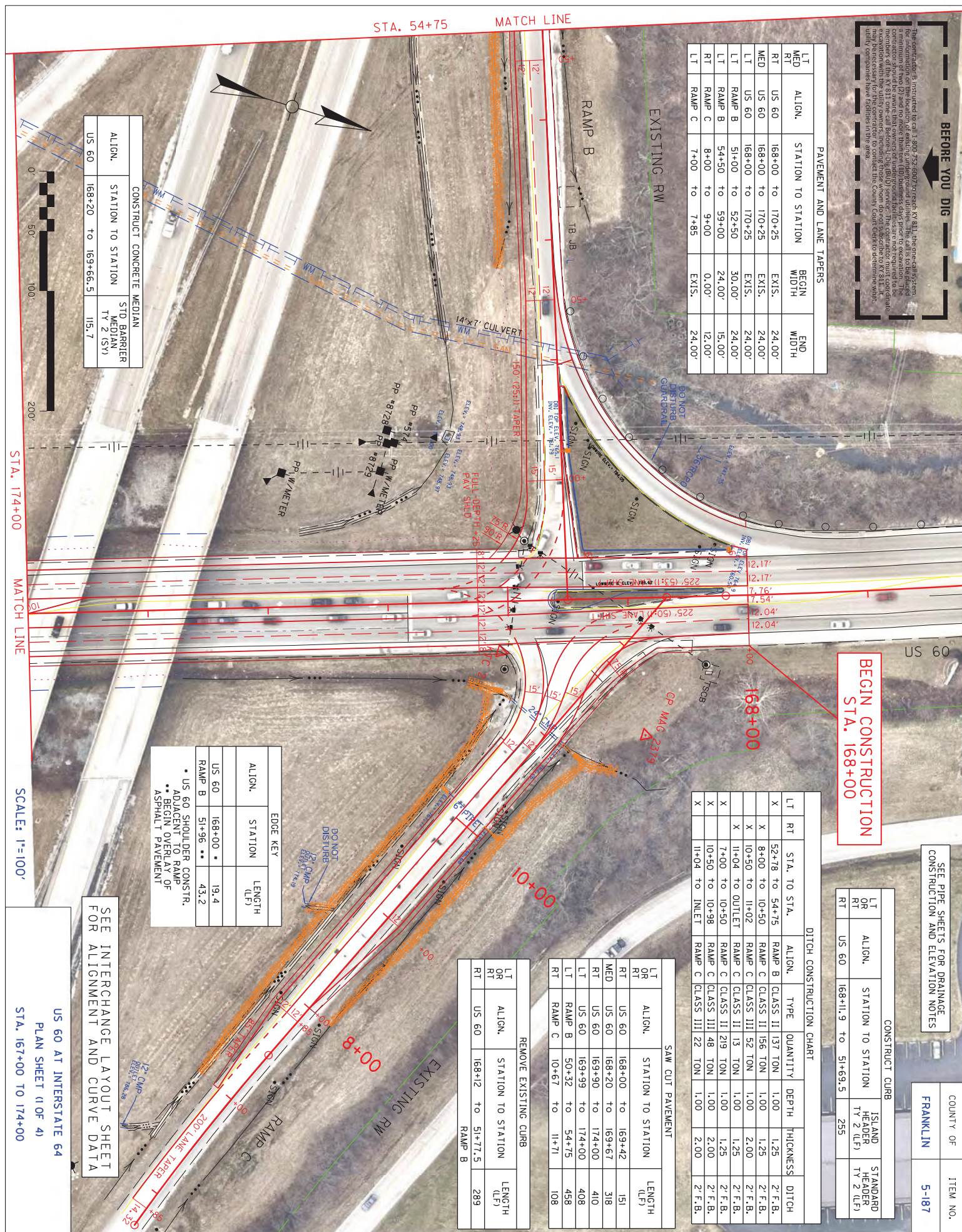
Special items		
1	Radar Presense detetor type A	SPECIAL ORDER

Poles		
3	T-04-0040	Steel Strain Pole 34 foot
3	T-04-0051	Steel Strain Pole 36 foot
1	T-04-0054	Steel Strain Pole 38 foot
1	T-04-0055	Steel Strain Pole 40 foot

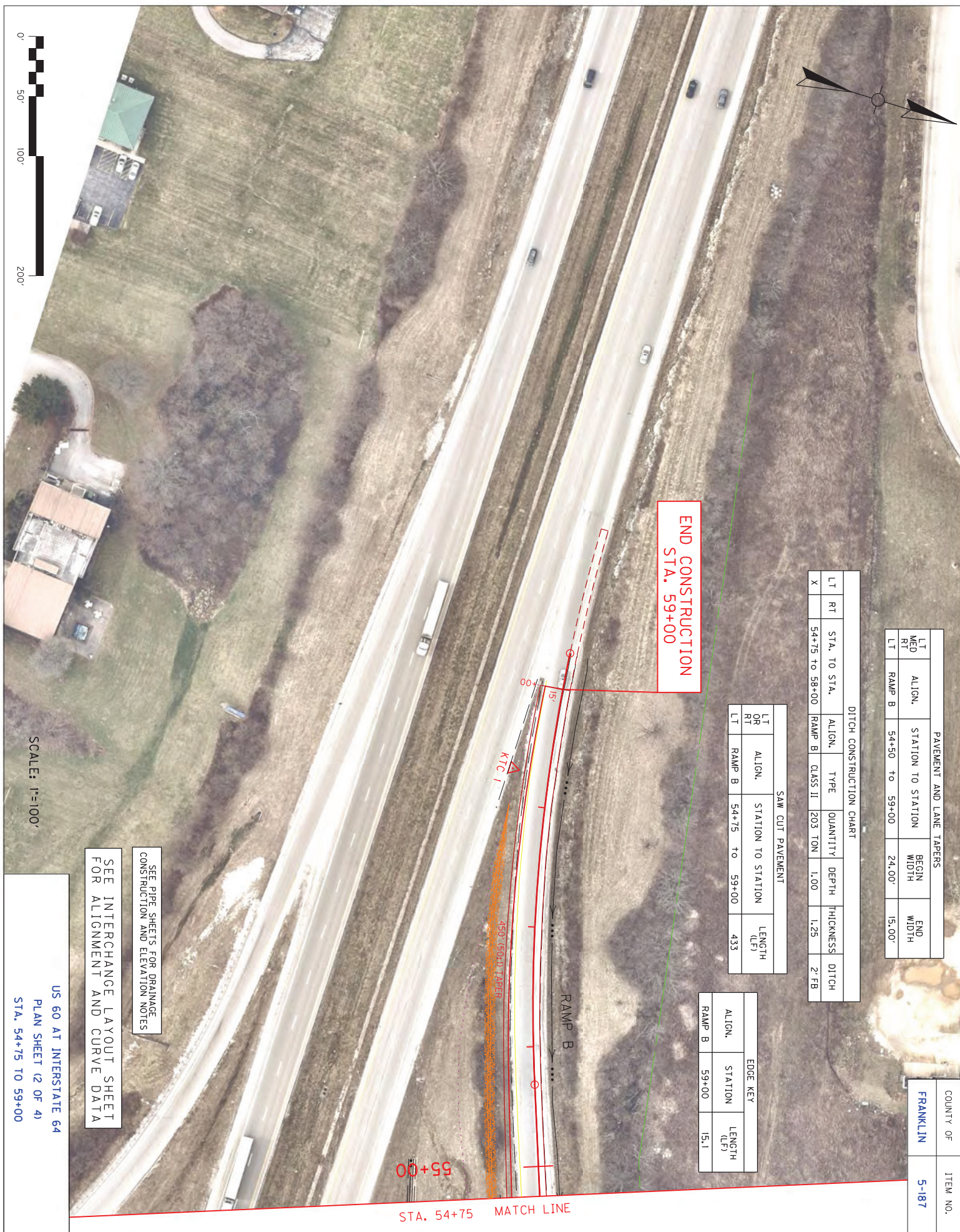
REQUIRED

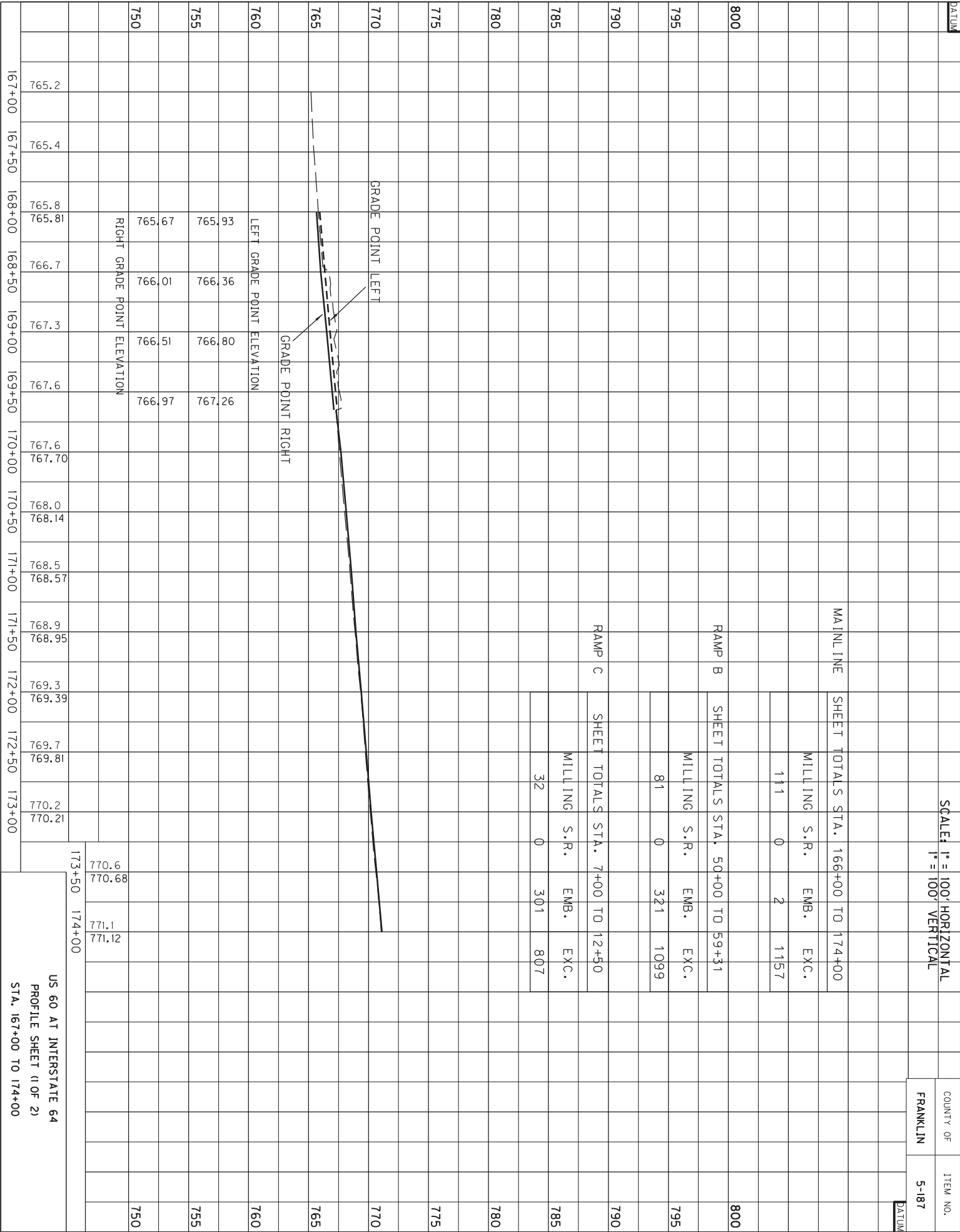
Electrical Contractor Name \_\_\_\_\_  
Electrical Contractor Supervisor \_\_\_\_\_ Contact number for Supervisor \_\_\_\_\_  
Project Engineer \_\_\_\_\_ Contact number for Project Engineer \_\_\_\_\_  
Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project  
Signature of Project Engineer/Designee \_\_\_\_\_



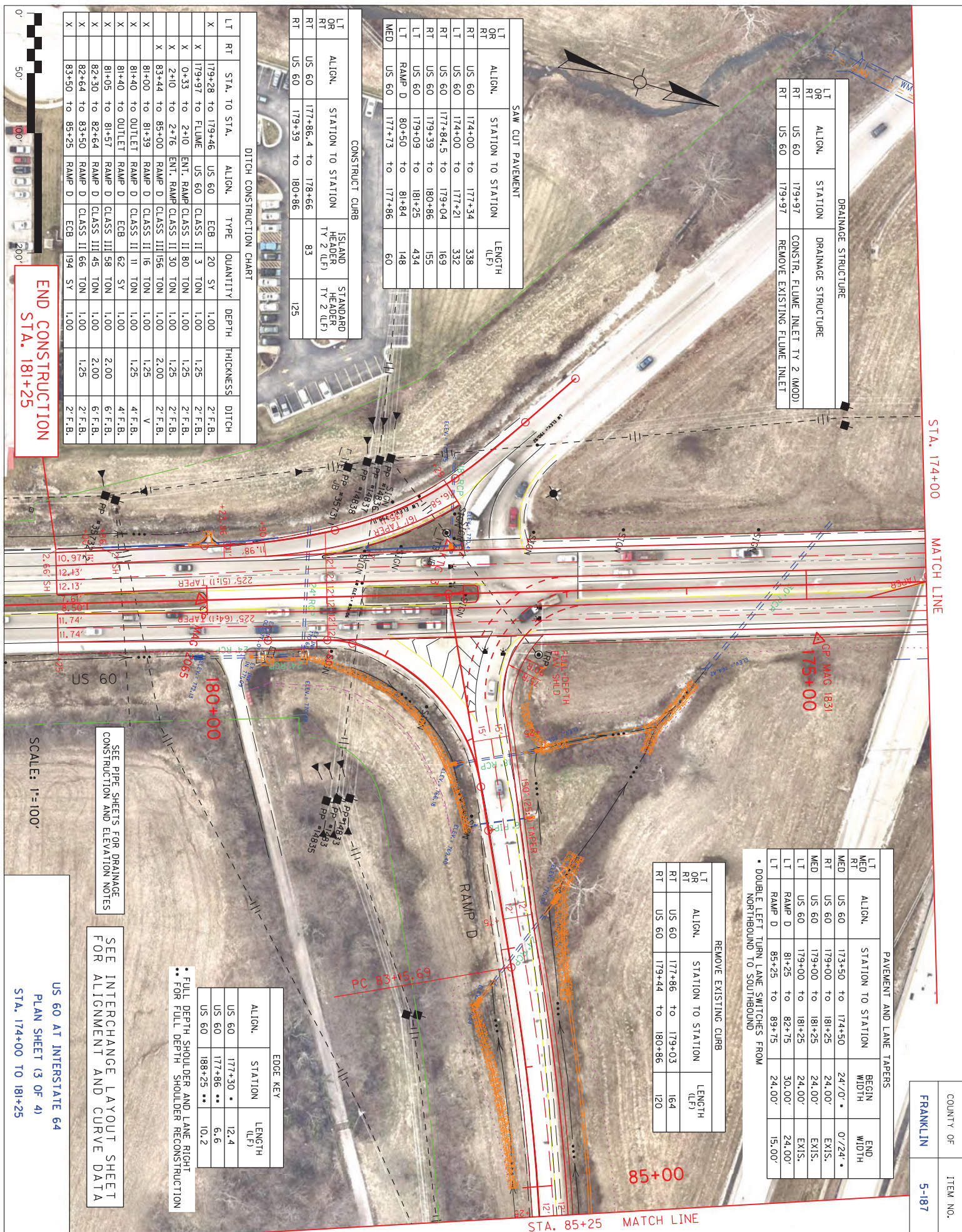










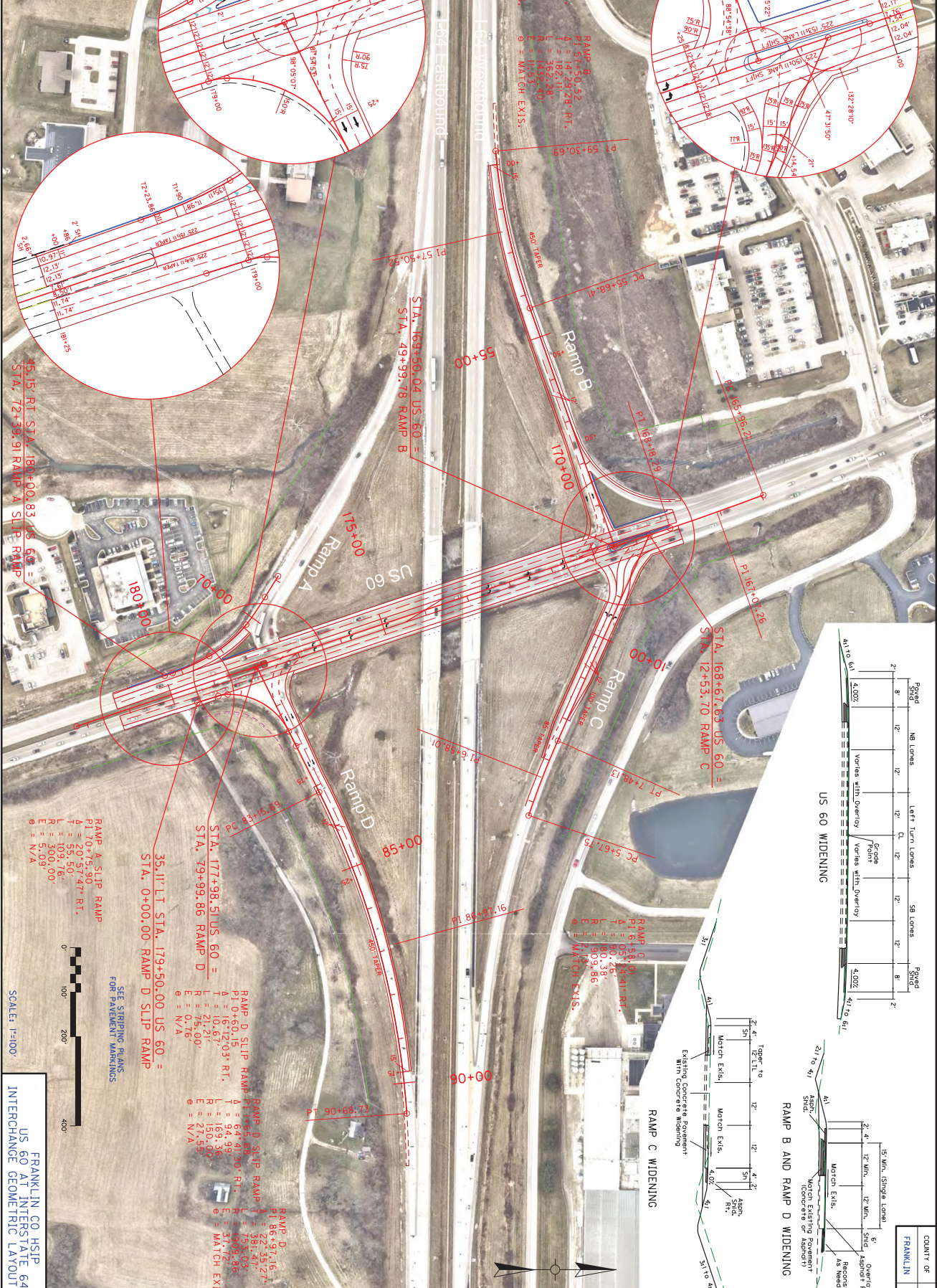








[illegible]





RAMP B COORDINATES		
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POB 50+00.00 (US60 169+30.04)	3952687.465	5190897.900
PC 55+68.41	3952497.175	5190362.057
PI 57+50.52	3952436.232	5190190.446
PT 59+30.69	3952420.169	5190009.045

RAMP C COORDINATES		
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
PC 5+67.75	3952494.427	5191501.632
PI 6+58.01	3952523.210	5191416.086
PT 7+48.13	3952559.933	5191333.636
POE 12+53.70 (US60 168+67.63)	3952765.630	5190871.804

US 60 COORDINATES		
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
PC 165+96.21	3953021.668	5190781.789
PI 167+07.26	3952917.770	5190821.012
PT 168+18.29	3952812.431	5190856.180
POE 182+24.31	3951478.770	5191301.423

COORDINATE CONTROL POINTS			
POINT	DESCRIPTION	State Plane Coordinates NORTH(Y) EAST(X)	STATION, OFFSET, ELEVATION
CP #1	MONUMENT	3952402.091 5190114.904	RAMP B: 58+28.95, 31.01 Left, 738.17'
CP #2	MONUMENT	3952646.541 5190955.808	US 60: 170+07.19, 41.97 Left, 767.84'
CP #3	MONUMENT	3951871.015 5191128.562	US 60: 177+97.51, 39.73 Right, 774.59'
CP #4	MONUMENT	3952210.557 5191932.504	RAMP D: 88+32.18, 21.20 Left, 799.40'

BASIS OF ELEVATIONS

Elevations were derived using GPS methods utilizing the Kentucky VRS system and are referenced to the NAVD88 Vertical Datum. Geoid model used was Geoid12A.

COORDINATE SYSTEM

Coordinates for horizontal control were obtained by GPS methods utilizing the Kentucky VRS System and referenced to the National NAD83/FBN System.

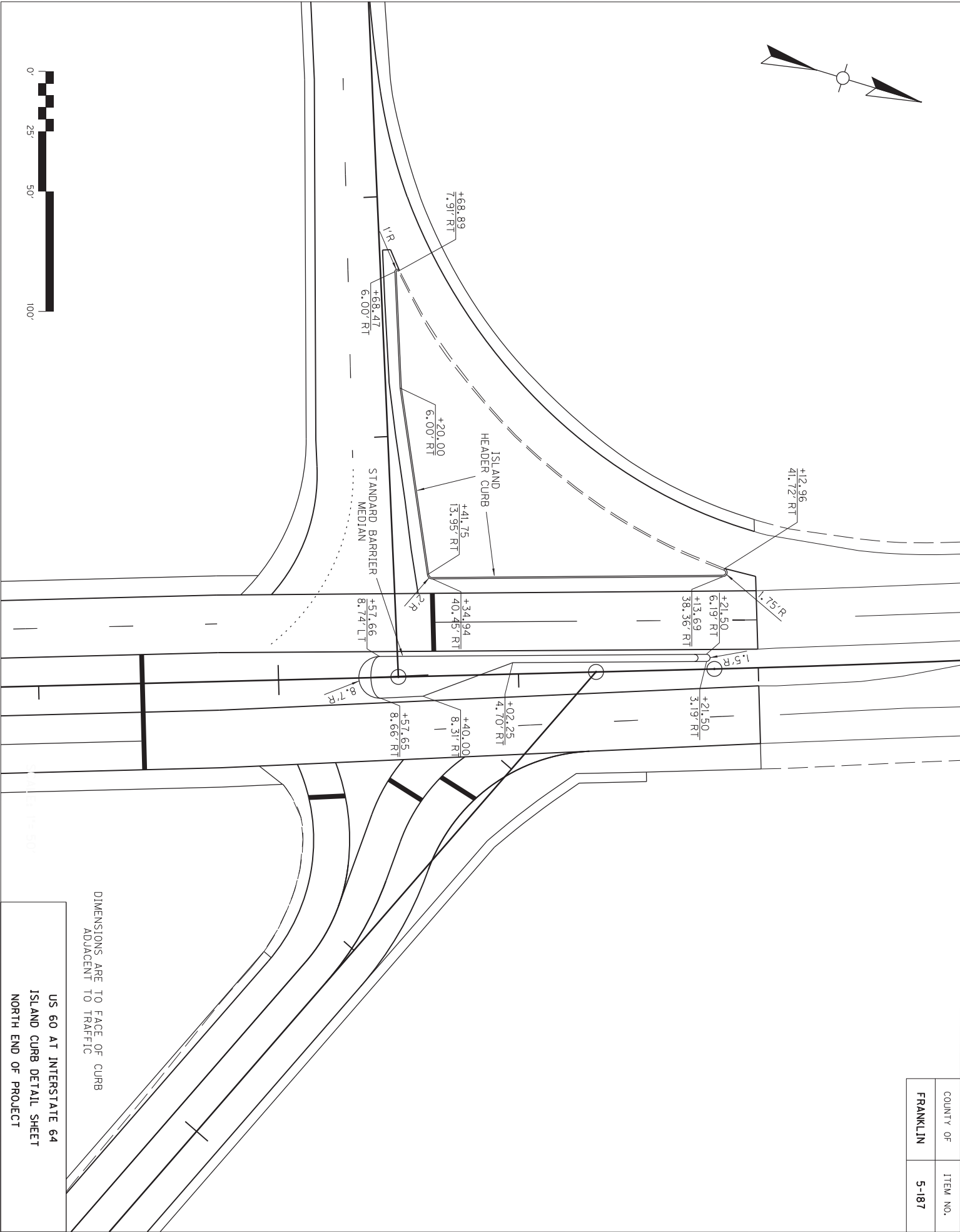
Coordinates are based on State Plane Coordinate System Single Zone and in U.S. Survey Feet.

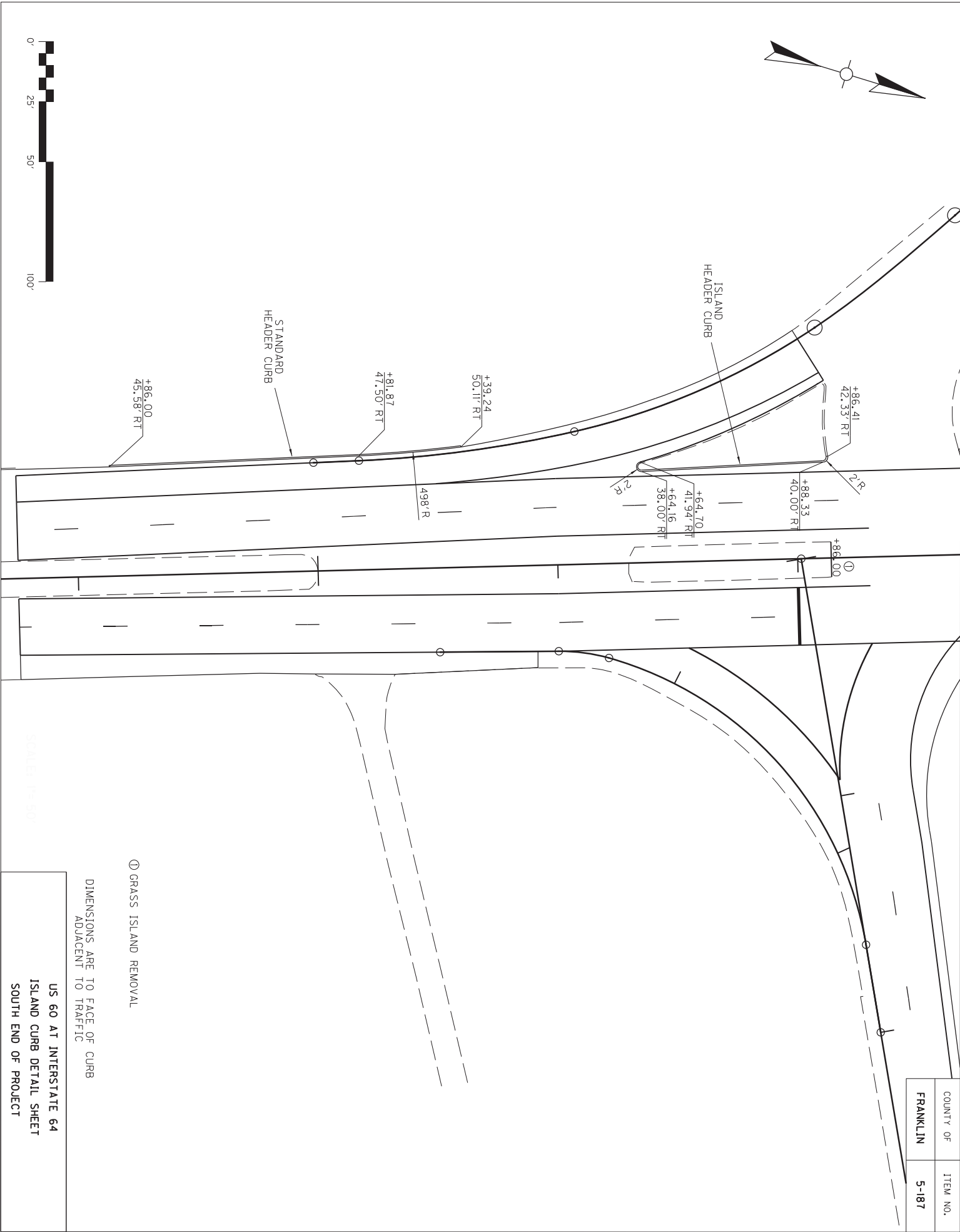
NOT TO SCALE

RAMP D COORDINATES		
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POB 80+00.00 (US60 177+98.31)	3951882.657	5191166.585
PC 83+15.69	3952023.813	5191449.120
PI 86+97.16	3952194.304	5191790.372
PT 90+68.73	3952220.622	5192170.934

SLIP RAMP D COORDINATES		
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POB 0+00.00	3951750.082	5191247.858
PC 0+49.48	3951797.285	5191233.029
PCC 0+70.68	3951818.141	5191229.600
PI 1+55.37	3951913.113	5191227.546
PT 2+40.05 (RAMP D 81+63)	3951955.569	5191312.525

US 60 AT INTERSTATE 64  
COORDINATE CONTROL  
ALIGNMENT COORDINATES





COUNTY OF	ITEM NO.
FRANKLIN	5-187

DIMENSIONS ARE TO FACE OF CURB  
ADJACENT TO TRAFFIC

US 60 AT INTERSTATE 64  
ISLAND CURB DETAIL SHEET  
SOUTH END OF PROJECT

① GRASS ISLAND REMOVAL



SIGNING SPECIFICATION NOTES

THE FOLLOWING PUBLICATIONS ARE APPLICABLE TO THE WORK DESCRIBED HEREIN:

KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CURRENT EDITION  
STANDARD HIGHWAY SIGNS AND MARKINGS (CURRENT EDITION) -- FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION) -- FEDERAL HIGHWAY ADMINISTRATION

SCOPE OF WORK

TO FURNISH, FABRICATE AND ERECT IN PLACE ALL MATERIALS NECESSARY TO FORM COMPLETED SIGNS AS INDICATED AT LOCATIONS DESCRIBED ELSEWHERE IN THESE PLANS. NEW SIGNS ARE TO BE INSTALLED AT EXISTING LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

SIGN SUBSTRATES

SIGN SUBSTRATES SHALL CONFORM TO SECTION 833 OF KENTUCKY'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THESE PLANS, PANEL SIGNS SHALL BE LABELED AS P-1. SHEETING SIGNS SHALL BE LABELED AS S-1.

SIGN MATERIALS

SIGN SHEETING

SIGN SHEETING SHALL CONFORM TO SECTION 830 OF KENTUCKY'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THESE PLANS. ONLY SHEETING ON THE DEPARTMENT'S LIST OF APPROVED MATERIALS SHALL BE USED.  
ALL RETROREFLECTIVE MATERIALS SHALL BE FABRICATED AND ASSEMBLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS.

PERMANENT SIGNS AND SIGN COMPONENTS SHALL BE FABRICATED USING TYPE XI SHEETING. THE FOLLOWING SIGNS SHALL BE FABRICATED USING TYPE XI FLUORESCENT YELLOW SHEETING:

- HORIZONTAL ALIGNMENT SIGNS AND PLAQUES
- ALL ADVISORY SPEED PLAQUES
- WARNING MESSAGES ON PANEL SIGNS

THE FOLLOWING SIGNS SHALL BE FABRICATED USING TYPE XI FLUORESCENT YELLOW-GREEN SHEETING:

- ALL SCHOOL AND SCHOOL BUS WARNING SIGNS,
- BICYCLE WARNING SIGNS AND SHARE THE ROAD PLAQUES OR DIAGONAL DOWNWARD POINTING ARROW PLAQUES THAT SUPPLEMENT BICYCLE WARNING SIGNS,
- PEDESTRIAN WARNING SIGNS AND DIAGONAL DOWNWARD POINTING ARROW PLAQUES THAT SUPPLEMENT PEDESTRIAN WARNING SIGNS
- STREET PEDESTRIAN CROSSING (R-6) SIGNS AND OVERHEAD PEDESTRIAN CROSSING (R-9) SIGNS
- SUPPLEMENTAL PLAQUES TO ANY OF THE PREVIOUSLY LISTED FLUORESCENT YELLOW-GREEN SIGNS LISTED ABOVE

ALL OTHER PERMANENT SIGNS (INCLUDING THE BACKGROUNDS OF PANEL SIGNS) SHALL BE FABRICATED USING TYPE XI SHEETING.

LETTERS, SYMBOLS, AND BORDERS

PANEL OVERLAY SECTIONS SHALL BE AFFIXED WITH A POP RIVET WITH A MINIMUM DIAMETER OF 3/16 INCH, AND THE LENGTH SHALL BE AS NECESSARY TO PROPERLY APPLY COPY IN A WORKMANLIKE MANNER.

HARDWARE

ALL HARDWARE FOR THE ASSEMBLY OF PANEL SIGNS AND THE ATTACHMENT OF THESE SIGNS TO THEIR SUPPORTS SHALL BE AS RECOMMENDED BY THE PANEL MANUFACTURER. PLACEMENT OF POST CLIP SHALL BE AS SHOWN ON THE SIGNING MISCELLANEOUS DETAIL SHEET.

ALL HARDWARE FOR THE ERECTION OF SHEETING SIGNS SHALL BE GALVANNE PLATED STEEL IN ACCORDANCE WITH ASTM B-776 AND ASTM A-507.

EDITS

STANDARD ALPHABETS SHALL BE USED FOR ALL LEGENDS ON PANEL GUIDE SIGNS.

GROUND-MOUNTED SIGN SUPPORTS

GENERAL:

ALL SIGNS SHALL BE POSITIONED AS SHOWN ON THE POSITIONING DETAIL SHEET. ALL BEAMS AND POSTS SHALL BE OF SUFFICIENT LENGTHS TO EXTEND FROM THE TOP OF THE SIGN TO THE REQUIRED BASE ELEVATION. EXISTING I-BEAMS ON WHICH SHEETING SIGNS ARE ATTACHED SHALL BE REMOVED AND REPLACED WITH TYPE I OR TYPE II POSTS, UNLESS THEY ARE LOCATED BEHIND GUARDRAIL.

BEAMS:

ALL BEAMS SHALL BE EITHER TYPE "A" STANDARD BEAM INSTALLATION OR TYPE "C" BREAKAWAY SIGN POST SUPPORT SYSTEM INSTALLATION. TYPE "A" BEAMS ARE SHOWN ON THE PANEL SIGN DETAIL SHEET, AND THE TYPE "C" BEAMS ARE SHOWN ON THE BREAKAWAY SIGN SUPPORT SYSTEM FOR "C" BEAM SHEET. ONLY BREAKAWAY (TYPE "C") BEAM SUPPORT SYSTEMS ON THE DEPARTMENT'S LIST OF APPROVED MATERIALS SHALL BE USED. THE TYPE AND SIZE OF BEAM TO BE USED SHALL BE INDICATED FOR EACH PANEL SIGN ON THE SIGN DETAIL SHEETS. BEAM LENGTHS INCLUDED IN THESE PLANS ARE FOR THE MINIMUM BEAM LENGTHS REQUIRED TO COVER THE SIGN FACE. BEAM LENGTHS ARE FOR EACH SECTION. EACH SECTION SHALL BE DEVELOPED TO MEET THE REQUIRED SECTION LENGTH AND CROSS SECTION. BEAM LENGTHS SHALL BE DEVELOPED TO MEET BEAM LENGTHS, WITH ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

STEEL POSTS:

TYPE I STEEL POSTS SHALL BE EITHER STANDARD INSTALLATION IN SOIL, WITH SOIL STABILIZER, OR TYPE "C" BREAKAWAY SIGN POST SUPPORT SYSTEM INSTALLATION. ONLY BREAKAWAY TYPE "C" POST SYSTEMS ON THE DEPARTMENT'S LIST OF APPROVED MATERIALS SHALL BE USED. BRACING, IF REQUIRED, SHALL BE INCIDENTAL TO TYPE I POST.

TYPE II POST SHALL BE STANDARD INSTALLATION IN SOIL WITH A SOIL STABILIZER, SHEETING SIGN DETAIL SHEET.

ALL STEEL POSTS SHALL MEET THE REQUIREMENTS OF SECTION 832 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

CONCRETE BASES

ALL CONCRETE BASES SHALL BE OF CLASS "A" CONCRETE FOR SIGNS AND SHALL BE AS SHOWN ON THE SIGN DETAIL SHEETS. EXCAVATION NECESSARY TO CONSTRUCT BASES AND FOOTINGS IS INCIDENTAL TO THE COST OF CLASS "A" CONCRETE FOR SIGNS.

WHERE THE REMOVAL OF OVERHEAD STRUCTURE CONCRETE BASE IS CALLED FOR, THE BASE IS TO BE REMOVED TO A MINIMUM OF ONE FOOT (1') BELOW THE GROUND LINE, BACKFILLED TO EXISTING GROUND LINE, AND THE DISTURBED AREAS RESEDED.

WHERE THE REMOVAL OF BEAM SIGN SUPPORTS IS CALLED FOR, THE BEAM AND ANY CONCRETE PROTECTING ABOVE THE GROUND LINE ARE TO BE CUT OFF A MINIMUM OF ONE FOOT (1') BELOW THE GROUND LINE, AND THE DISTURBED AREAS RESEDED. CONCRETE BASE ARE TO BE REMOVED COMPLETELY AND BACKFILLED TO EXISTING GROUND LINE.

SAMPLES, TESTING, ETC.

BEFORE BEGINNING INSTALLATION, THE CONTRACTOR SHALL FURNISH TO THE PROJECT ENGINEER DRAWINGS, DESCRIPTIONS, MANUFACTURER'S CUTS ETC. FOR WRITTEN APPROVAL OF ALL MATERIALS TO BE USED. MILL TEST REPORTS FOR BEAMS, STEEL PANELS, AND EACH DIFFERENT GAUGE OF ALUMINUM OR STEEL SHEETING USED MUST BE SUBMITTED TO THE DIVISION OF CONSTRUCTION AND APPROVED PRIOR TO ERECTION.

MISCELLANEOUS

THE COST FOR REMOVING EXISTING PANEL SIGNS SHALL BE INCIDENTAL TO THE COST OF THE PROJECT.  
ON SHEETING SIGNS WHERE THERE ARE MORE THAN ONE SIGN ASSEMBLY MOUNTED BESIDE EACH OTHER, THE POSTS SHALL BE SPACED TO PROVIDE APPROXIMATELY SIX INCHES (6") OF SPACING BETWEEN SIGNS.

CLEARING AND GRUBBING, AND TREE TRIMMING, WHEN REQUIRED FOR CONSTRUCTION OR VISIBILITY OF SIGNS, SHALL BE INCIDENTAL TO THE CONTRACT.

SIGN COVERING IS NOT RECOMMENDED, HOWEVER, IF IT IS ABSOLUTELY NECESSARY TO COVER THE SIGN FACE TEMPORARILY FOLLOWING ERECTION, USE QUALITY EXPOSE SOME COVERINGS MAY CAUSE PERMANENT DAMAGE TO THE SIGN FACE. FOLLOWING EXPOSURE TO MOISTURE, SUNLIGHT, ETC., POROUS CLOTH OR DEWEYABLE FABRIC COVERS WHICH ARE FOLDED OVER THE SIGN EDGES AND SECURED AT THE BACK OF THE SIGN HAVE BEEN USED SUCCESSFULLY FOR LIMITED PERIODS. DO NOT USE TAPE, PAPER, PLASTIC, OR OTHER MATERIALS TO COVER THE SIGN FACE. ANY COVERING OF SIGN FACE OF COVERING SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.

TYPE I AND II STEEL POSTS IN SOIL SHALL BE DRIVEN 32" TO 34" BELOW THE GROUND LINE AS SHOWN. HOWEVER, IF SOLID ROCK IS ENCOUNTERED, THE CONTRACTOR SHALL DRILL HOLES OF THE REQUIRED DEPTH INTO THE ROCK AND BACKFILL WITH CONCRETE. THE COST SHALL BE INCIDENTAL TO STEEL POST, AND SOIL STABILIZERS WILL NOT BE REQUIRED.

ANY AREA DISTURBED SHALL BE SIDE GRADED TO THE EXISTING SLOPES AND RESEDED AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE DEPARTMENT.

REMOVE AND DO NOT REPLACE THE WHITE OR BLUE GENERAL SERVICES SIGNS AT THE EXIT RAMP TERMINALS, EMERGENCY STOPPING ONLY SIGNS, AND THE ROUTE MARKER THAT IS LOCATED INSIDE THE INTERCHANGE PAST THE EXIT GONE AREA.

INSTALLATION OF ADVISORY EXIT AND RAMP SPEED SIGNS (W3-2 AND W3-3) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

ALL EXISTING SHEETING SIGNS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REMOVED AND REPLACED WITH NEW SIGNS AND POSTS. SIGNS AND POSTS SHALL CONFORM TO CURRENT STANDARDS/SPECIFICATIONS. THE COST FOR REMOVING EXISTING SHEETING SIGNS AND POSTS, INCLUDING EXISTING SIGNS AND POSTS TO CONFORM TO THE SIGNING PLANS AND SPECIFICATIONS, AND ALL OTHERS REQUIRED, SHALL BE INCIDENTAL TO THE PROJECT IN ADDITION TO RETAILERS AND MANUFACTURER'S COSTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIGN SITES AND SPECIFICATIONS. SEE THE CURRENT PROJECT SIGNING PLAN DETAIL SHEETS.

THE COST FOR SIGN BRACKETS AND ANY OTHER HARDWARE REQUIRED TO ATTACH NEW SIGNS ON EXISTING TRUSSES AND CANTILEVERS SHALL BE INCLUDED IN THE UNIT PRICE OF SIGN BASE MATERIAL FOR PANEL SIGNS.

DUPLICATE SIGNS SHALL NOT BE DISPLAYED DURING THE CONSTRUCTION OF THIS PROJECT. SHEETING SIGNS (R-1, D-1-2, D-3) EQUAL TO OR LESS THAN 72" X 42" REQUIRE TWO TYPE I OR TYPE II POSTS.

THE HORIZONTAL CLEARANCE "X" ON ALL THE SHEETING SIGNS SHOULD BE A MINIMUM OF 6" FROM THE EDGE OF THE SHOULDER TO THE EDGE OF THE SIGN OR A MINIMUM OF 12" FROM THE EDGE OF THE SIGN TO THE EDGE OF THE TRAVELLED WAY AS SHOWN IN THE SIGNING POSITIONING DETAIL SHEET.

IF ANY SIGN IS LOCATED NEAR A LUMINAIRE OR ANOTHER POLE, IT SHALL BE INSTALLED IN ADVANCE OF THE POLE SO THAT THE MOTORIST'S VIEW OF THE SIGN WILL NOT BE OBSTRUCTED. SIGNS THAT DO NOT COMPLY WITH THE MUTCD SHALL BE REMOVED BY THE CONTRACTOR AS APPROVED AND DIRECTED BY THE ENGINEER.

6-24-2020

SIGNING SPECIFICATION SHEET

## TYPICAL SIGN PANEL DIMENSIONS AND MILEPOST LOCATIONS

[illegible]

NOTE: STATION NUMBERS ARE GIVEN FOR NOTED DIRECTION OF TRAVEL ONLY. CORRESPONDING MILEPOST MARKERS FOR OTHER DIRECTION SHOULD BE PLACED DIRECTLY OPPOSITE THOSE FOR WHICH STATION NUMBERS ARE GIVEN.

IN JEFFERSON COUNTY, FINAL LOCATION OF MILEPOST MARKERS SHALL BE VERIFIED BY TRIANGULAR NOTIFICATION AT LEAST TWO WEEKS PRIOR TO BEGINNING WORK ON THIS ITEM:

901 WEST MAIN STREET  
LOUISVILLE, KY 40202  
502-587-6624  
270-307-7456

Technical drawings of three types of roof eave brackets (Kronenanker) for roof eaves. The drawings show the bracket's profile, dimensions, and material specifications.

**1) Roof eave bracket with a horizontal support beam:** The bracket is shown in profile, with dimensions including a height of 150 mm, a width of 50 mm, and a depth of 50 mm. The material is specified as 5 mm thick plate.

**2) Roof eave bracket with a vertical support beam:** The bracket is shown in profile, with dimensions including a height of 150 mm, a width of 50 mm, and a depth of 50 mm. The material is specified as 5 mm thick plate.

**3) Roof eave bracket with a diagonal support beam:** The bracket is shown in profile, with dimensions including a height of 150 mm, a width of 50 mm, and a depth of 50 mm. The material is specified as 5 mm thick plate.

## SHEETING SIGNS

⑦ ATTACHMENT OF SECONDARY SIGN TO MAJOR SIGN IS TO BE MADE WITH TWO (2) 3" X 3" X 1/4" ANGLES OF SUFFICIENT LENGTH TO EXTEND FROM THE LOWER EDGE OF THE SECONDARY SIGN TO AT LEAST THREE FEET UP THE BACK OF THE MAJOR SIGN. A MINIMUM OF ONE POST SHALL BE USED IN ATTACHING EXTENSIONS TO EACH ANGLE.

## SHEETING SIGNS

## RURAL APPLICATIONS

NOTE: SHOULD A SIGN BE LOCATED AT A POINT WHERE GUARDRAIL IS CALLED FOR OR EXISTING, ALL SIGN SUPPORTS SHALL BE PLACED BEHIND THE GUARDRAIL AND LATERAL OFFSET SHALL BE MEASURED FROM THE GUARDRAIL.

① NOT TO EXCEED 8' IN URBAN AREAS AND 6' IN RURAL AREAS UNLESS SPECIFIED BY THE ENGINEER

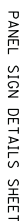
### ORIENTATION ANGLE

FACE OF SIGN  
OR MILE MARKER  
(ANGLE 3° AWAY  
FROM TRAFFIC)

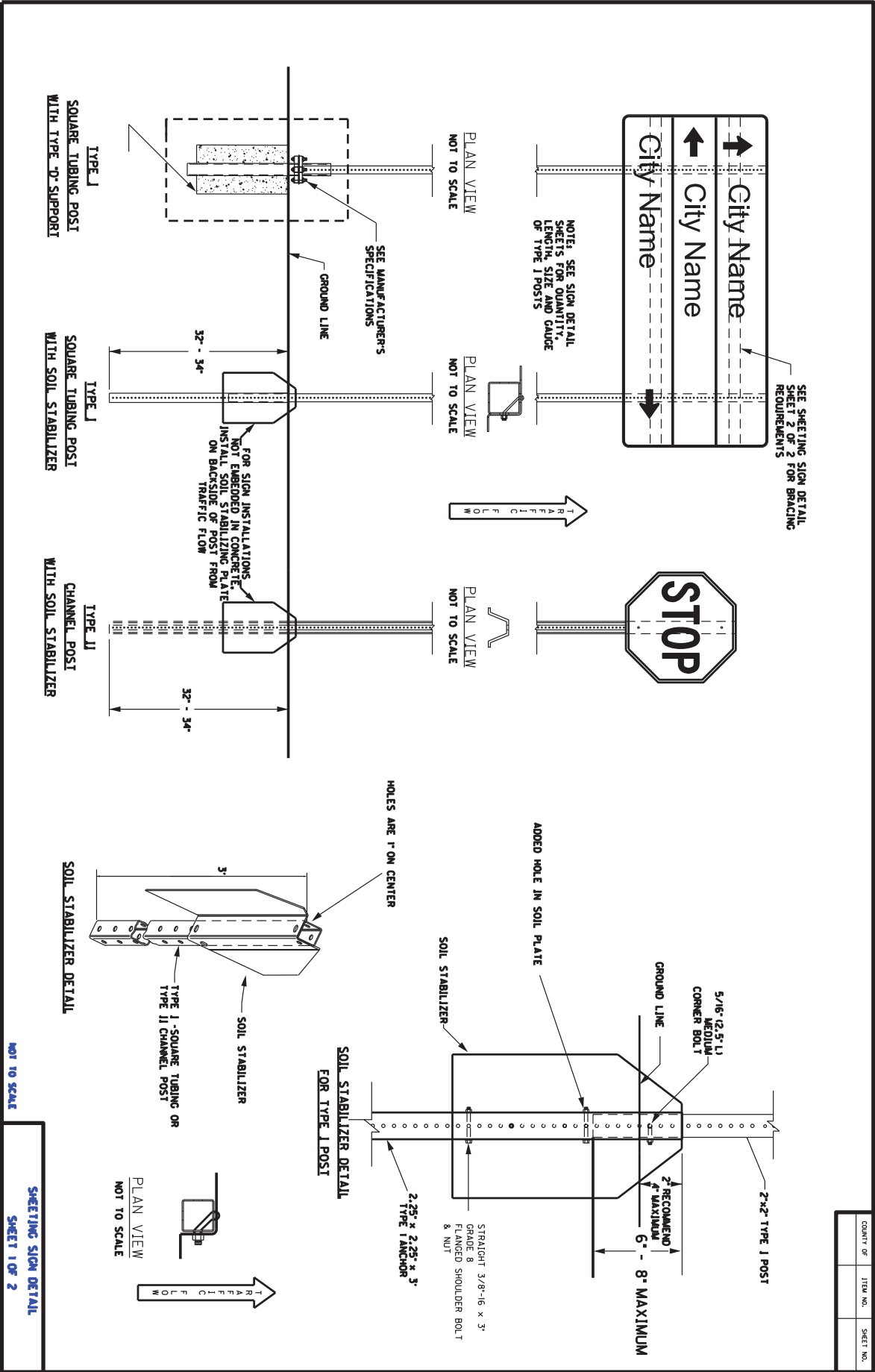
The diagram shows a cross-section of a road. On the left, a vertical line is labeled 'TRAFFIC' with an upward-pointing arrow. To its right is a horizontal line labeled 'PAVEMENT'. Further right is a sloped line labeled 'SHOULDER'. The angle between the vertical traffic line and the shoulder is marked as 90°. The angle between the pavement and the shoulder is marked as 3°.

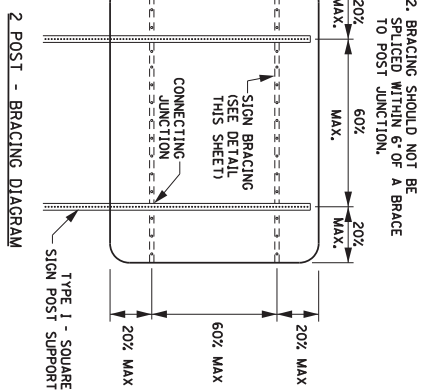
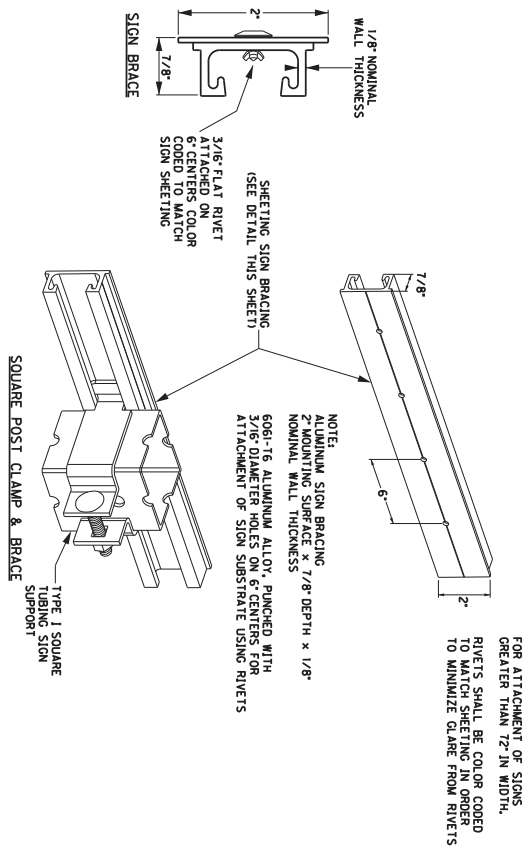
### SIGNING POSITIONING DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.



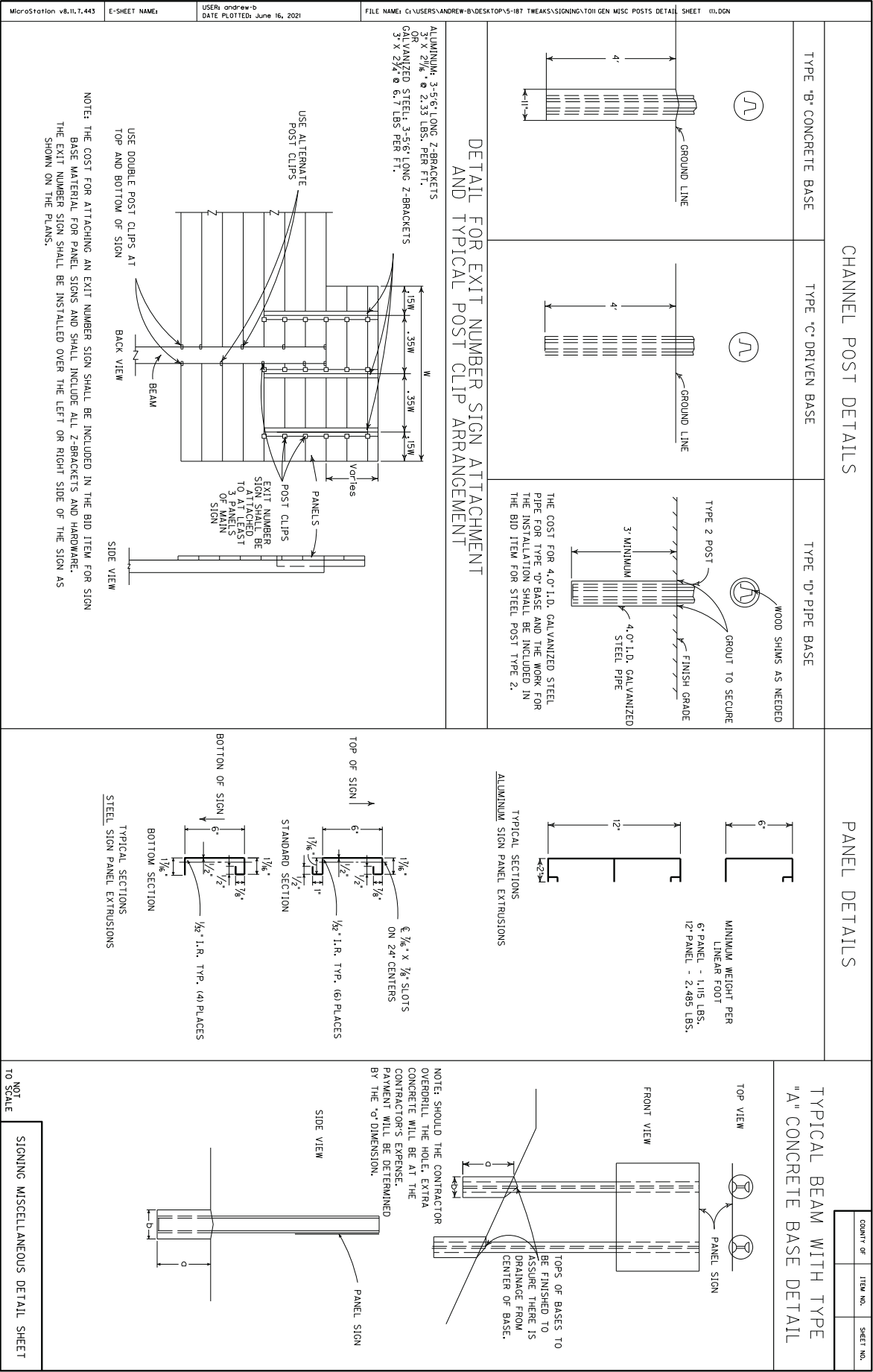






NOTE:  
USE OF SIGN BRACING NOT SHOWN ON THIS SHEET MAY BE PERMITTED  
BY PROJECT ENGINEER AND/OR DISTRICT TRAFFIC ENGINEER.

**SHEETING SIGN DETAIL**  
**SHEET 2 OF 2**



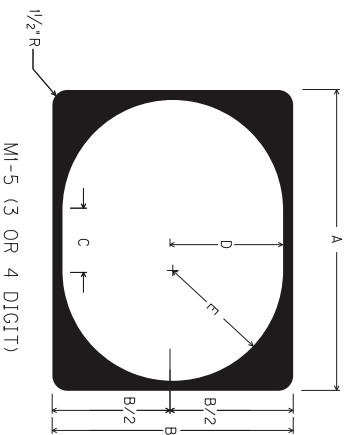
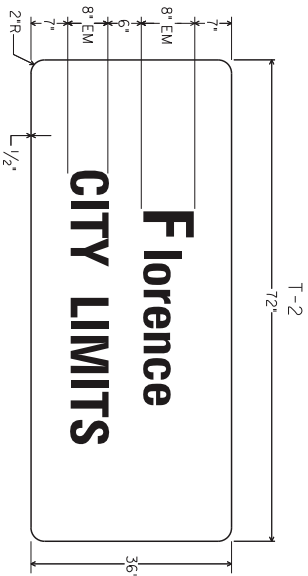
MicroStation v8.11.1.443

E-SHEET NAME:

USER: andrew-b DATE PLOTTED: June 16, 2021

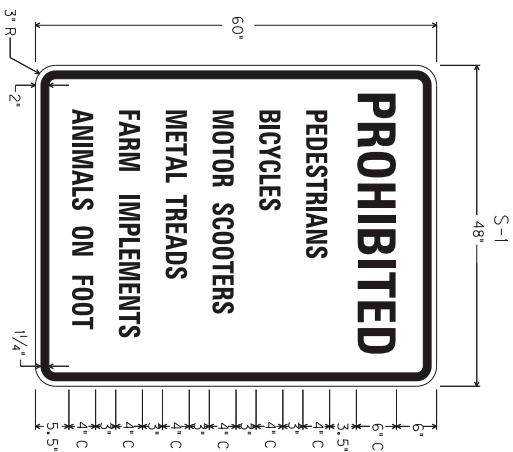
FILE NAME: C:\USERS\ANDREW-B\DESKTOP\5-187 TWEAKS\SIGNING\TOH GEN MISC POSTS DETAIL SHEET 03.DGN

COUNTY OF	ITEM NO.	SHEET NO.



	A	B	C	D	E	FONT	
						3 DIGIT	4 DIGIT
CONVENTIONAL	30°	24°	6°	11°	11°	12D	12B
EXPRESSWAY/ FREEMAN	45°	36°	9°	16.5°	16.5°	18D	18B

NOTE: EXPRESSWAY/FREEWAY DEFINED AS A DIVIDED HIGHWAY WITH PARTIAL OR FULL CONTROL OF ACCESS

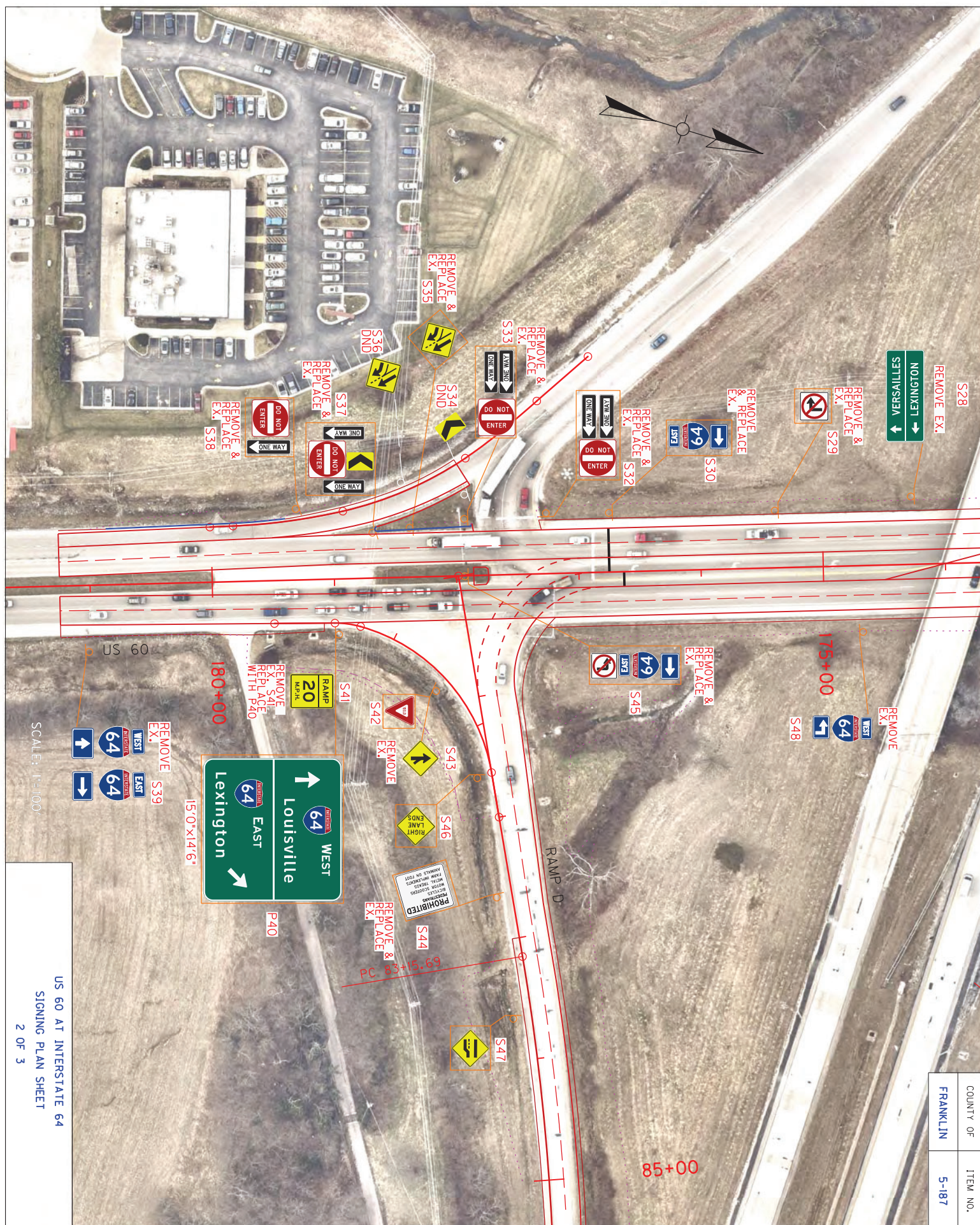


## TYPICAL SIGNS

















INSTALL ON TWO (2) - 21x44 TYPE A FIXED BEAMS



INSTALL ON TWO (2) - 10x22 TYPE C BREAKAWAY BEAMS

SIGN INFORMATION		SIGN LOCATION / SUPPORT	
SIGN NUMBER	P2	ROAD & MILE POINT	US 60 MP 13.180
QUANTITY	1	TRAFFIC DIRECTION	SOUTH
WIDTH	15'-0"	SIDE OF ROAD	RT
HEIGHT	14'-6"	MOUNTING STYLE	FIXED
AREA (Sq. Ft.)	217.5 SQ. FT.	INSTALLATION TYPE	TYPE A BEAMS
BORDER WIDTH	2"	BEAM SIZE	W21x44
BORDER RADIUS	12"	BEAM/POST LENGTH	1. = 34'-0"
PANEL COLOR	GREEN	BEAM/POST LENGTH	2. = 37'-6"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH	3. =
STATION(S)	166+00	BEAM/POST LENGTH	4. =
PANEL MATERIAL	REFLECTIVE	CONC "a" = 4'-0"	
LEGEND MATERIAL	REFLECTIVE	CONC "b" = 9'-0"	4.19 Cu Yds.

ITEM	ITEM#	UNIT	P2 TOTAL
GMSS GALV STEEL TYPE A	6400	LBS	3146
CLASS A CONCRETE FOR SIGNS	6490	CU YD	8.38
SBM ALUMINUM PANEL SIGNS	6405	SQ FT	217.5
ROADWAY CROSS SECTION	20419ND	EACH	1

SIGN INFORMATION		SIGN LOCATION / SUPPORT	
SIGN NUMBER	P40	ROAD & MILE POINT	US 60 MP 13.427
QUANTITY	1	TRAFFIC DIRECTION	NORTH
WIDTH	15'-0"	SIDE OF ROAD	LT
HEIGHT	14'-6"	MOUNTING STYLE	BREAKAWAY
AREA (Sq. Ft.)	217.5 SQ. FT.	INSTALLATION TYPE	TYPE C BEAMS
BORDER WIDTH	2"	BEAM SIZE	W10x22
BORDER RADIUS	12"	BEAM/POST LENGTH	1. = 23'-6"
PANEL COLOR	GREEN	BEAM/POST LENGTH	2. = 24'-6"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH	3. =
STATION(S)	179+00	BEAM/POST LENGTH	4. =
PANEL MATERIAL	REFLECTIVE	CONC "a" = 3'-0"	
LEGEND MATERIAL	REFLECTIVE	CONC "b" = 8'-0"	2.09 Cu Yds.

ITEM	ITEM#	UNIT	P40 TOTAL
GMSS GALV STEEL TYPE C	6441	LBS	1056
CLASS A CONCRETE FOR SIGNS	6490	CU YD	4.18
STEEL REINFORCEMENT FOR SIGNS	6491	LBS	220
SBM ALUMINUM PANEL SIGNS	6405	SQ FT	217.5
ROADWAY CROSS SECTION	20419ND	EACH	1

COUNTY OF	ITEM NO.
FRANKLIN	5-187

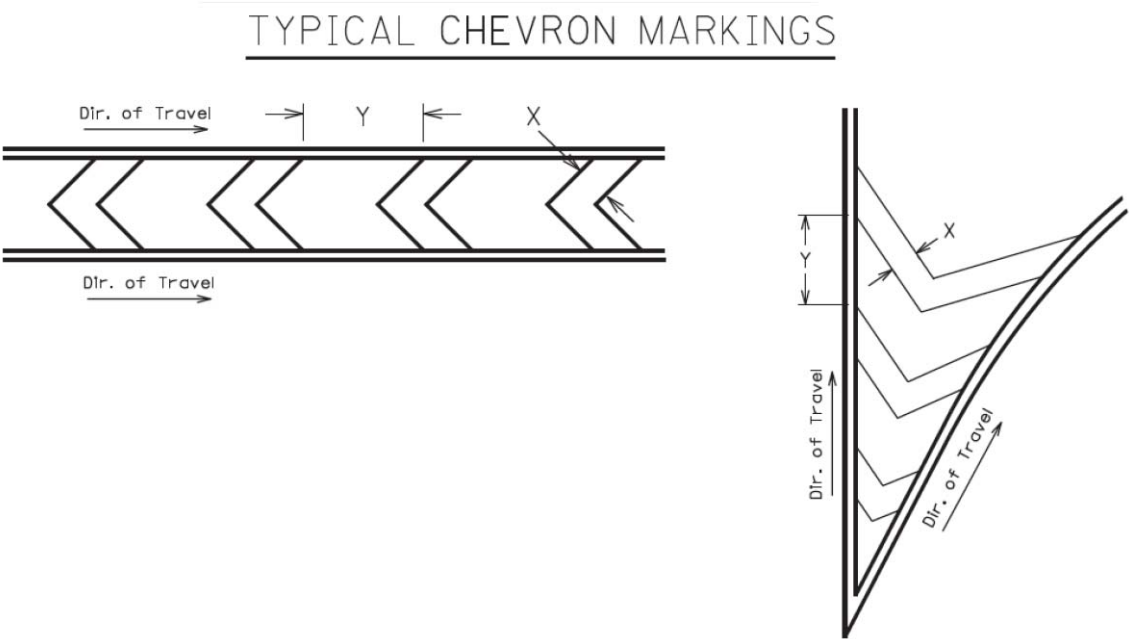
SIGNS S15, S21, S22, S23, S50  
REFER TO SHEETING SIGN DETAIL FOR BRACING DETAIL

S50  
BRACING  
EXAMPLE  
SHOWN

US 60 AT INTERSTATE 64  
PANEL SIGNING DETAIL SHEET  
SHEETING SIGN BRACING EXAMPLE



CHEVRON PAVEMENT MARKINGS DETAIL



The chevron pavement marking width (X) and spacing (Y) will usually be specified in the plans. The width to spacing values usually have a ratio of 1:10. If the plans do not specify the width (X) and spacing (Y) the Engineer will provide the contractor with the X and Y values for each chevron installation. If necessary, the Engineer may obtain guidance from the District Traffic Engineer and/or the Division of Traffic Operations.

NOTE: Adjust the width and spacing of the chevron pavement markings as necessary so that a minimum of three (3) chevron markings are placed within the area being marked. The 1:10 ratio between width and spacing values should be maintained as much as possible.

Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

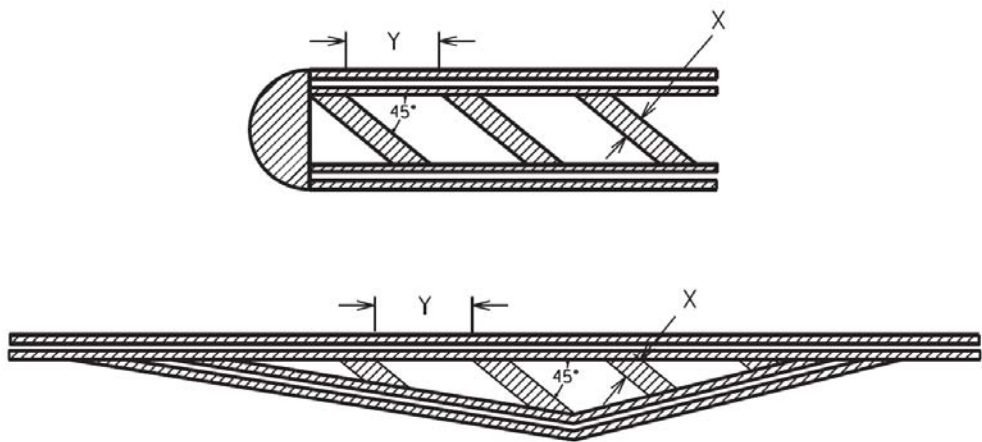
The Department will measure the finished in-place area of Chevron Pavement Markings in Square Feet. The Department will NOT measure overlaps or the void space between the chevrons. See Section 717.04 for additional measurement information.

When listed as a bid item, the Department will make payment for the completed and accepted quantities of Chevron Pavement Markings under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24679ED	Pave Mark Thermo Chevron	Square Foot
23253ES717	Pave Mark TY 1 Tape Cross Hatch (And Chevrons)	Square Foot

CROSS-HATCH PAVEMENT MARKINGS DETAIL

TYPICAL CROSS-HATCH MARKINGS



The cross-hatch pavement marking width (X) and spacing (Y) will usually be specified in the plans. The width to spacing values usually have a ratio of 1:10. If the plans do not specify the width (X) and spacing (Y) the Engineer will provide the contractor with the X and Y values for each cross-hatch installation. If necessary, the Engineer may obtain guidance from the District Traffic Engineer and/or the Division of Traffic Operations.

NOTE: Adjust the width and spacing of the cross-hatch pavement markings as necessary so that a minimum of three (3) cross-hatch markings are placed within the area being marked. The 1:10 ratio between width and spacing values should be maintained as much as possible.

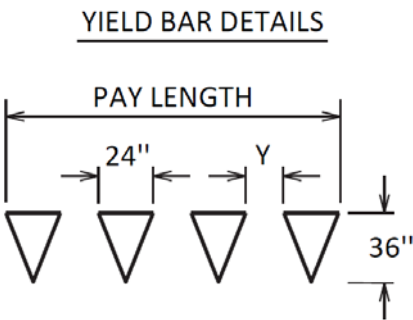
Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

The Department will measure the finished in-place area of Cross-Hatch Pavement Markings in Square Feet. The Department will NOT measure overlaps or the void space between cross-hatching. See Section 717.04 for additional measurement information.

When listed in the bid items, the Department will make payment for the completed and accepted quantities of Cross-Hatch Pavement Markings under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
06569	Pave Marking-Thermo Cross-Hatch	Square Foot
23253ES717	Pave Mark TY 1 Tape Cross Hatch	Square Foot

YIELD BAR PAVEMENT MARKING DETAIL



NOTE: SPACING (Y) BETWEEN  
TRIANGLES SHOULD BE 3" - 12"

Triangles should be evenly spaced. The spacing (Y) between triangles will depend on the width of the lane the yield bar is for. Unless otherwise directed by the Engineer, space the triangles according to the lane width as follows:

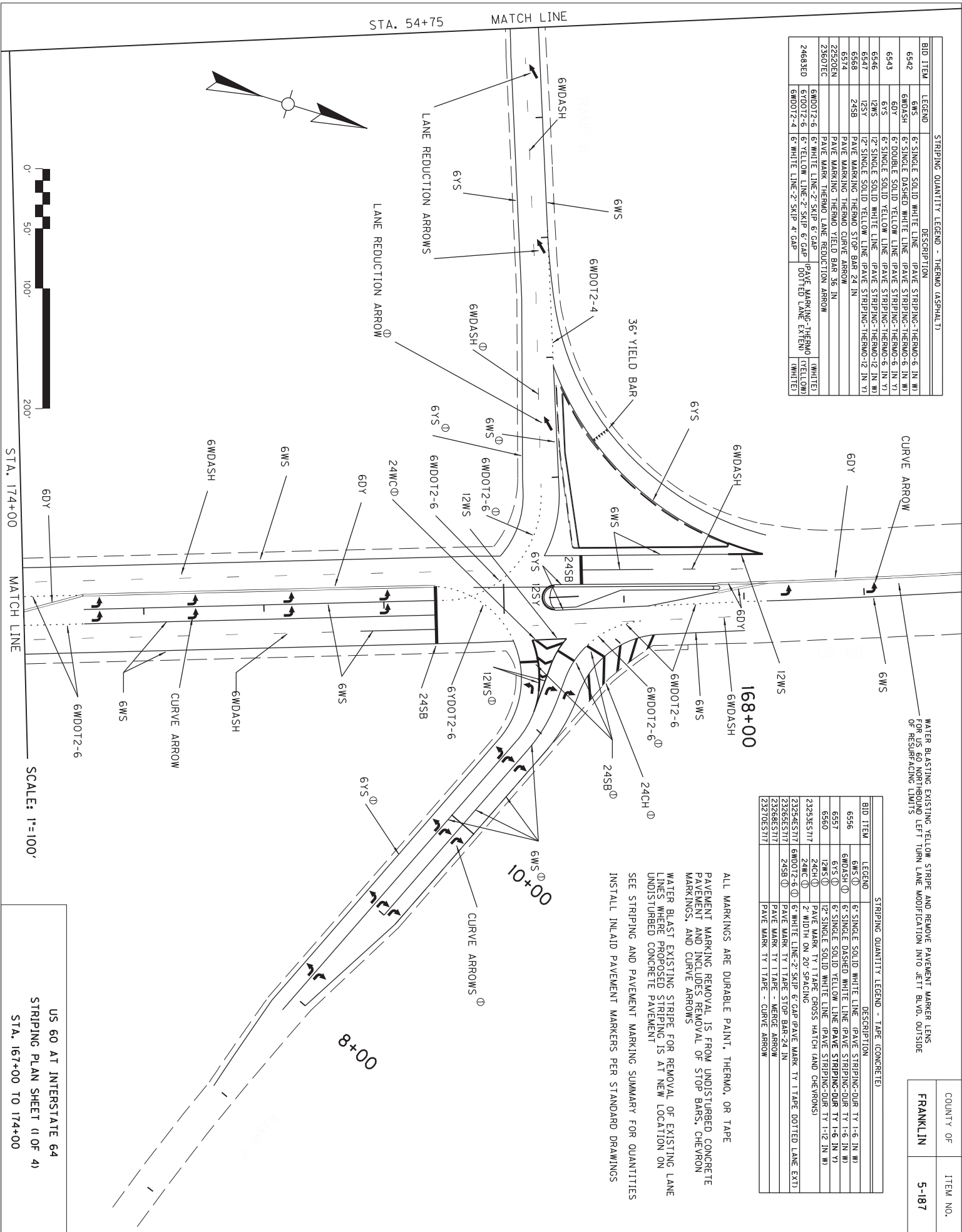
<u>Lane Width</u>	<u># of Triangles</u>	<u>Spacing (Y)</u>
9'	4	4"
10'	4	8"
11'	5	3"
12'	5	6"

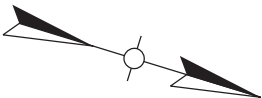
Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

The Department will measure Yield Bars in Linear Feet. The measurement will include the void space between triangles. See Section 717.04 for additional measurement information.

The Department will make payment for the completed and accepted quantities under the following:

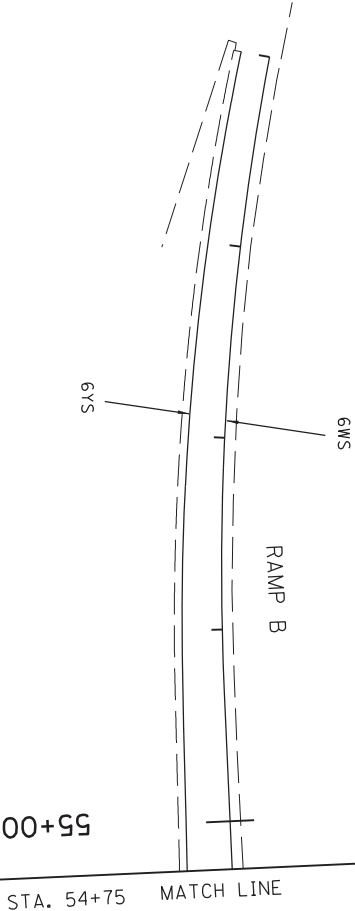
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
22520EN	Pave Marking-Thermo Yield Bar-36 Inch	Linear Foot





STRIPING QUANTITY LEGEND - THERMO (ASPHALT)		
BID ITEM	LEGEND	DESCRIPTION
6542	6WS	6" SINGLE SOLID WHITE LINE (PAVE STRIPING-THERMO-6 IN W)
6543	6YS	6" SINGLE SOLID YELLOW LINE (PAVE STRIPING-THERMO-6 IN Y)

ALL MARKINGS ARE DURABLE PAINT, THERMO, OR TAPE  
SEE STRIPING AND PAVEMENT MARKING SUMMARY FOR QUANTITIES  
INSTALL INLAID PAVEMENT MARKERS PER STANDARD DRAWINGS



COUNTY OF	ITEM NO.
FRANKLIN	5-187



SCALE: 1"=100'

US 60 AT INTERSTATE 64  
STRIPING PLAN SHEET (2 OF 4)  
STA. 54+75 TO 59+00

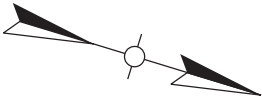
COUNTY OF	ITEM NO.
FRANKLIN	5-187

STRIPING QUANTITY LEGEND - TAPE (CONCRETE)	
BID ITEM	LEGEND
6556	6WS (D)
6557	6WDASH (D)
6558	6YS (D)
6559	12WS (D)
2458	24WC (D)
2459	24CH (D)
2460	24YC (D)
2461	24YS (D)
2462	24WS (D)
2463	24WY (D)
2464	24WZ (D)
2465	24W1 (D)
2466	24W2 (D)
2467	24W3 (D)
2468	24W4 (D)
2469	24W5 (D)
2470	24W6 (D)
2471	24W7 (D)
2472	24W8 (D)
2473	24W9 (D)
2474	24W10 (D)
2475	24W11 (D)
2476	24W12 (D)
2477	24W13 (D)
2478	24W14 (D)
2479	24W15 (D)
2480	24W16 (D)
2481	24W17 (D)
2482	24W18 (D)
2483	24W19 (D)
2484	24W20 (D)
2485	24W21 (D)
2486	24W22 (D)
2487	24W23 (D)
2488	24W24 (D)
2489	24W25 (D)
2490	24W26 (D)
2491	24W27 (D)
2492	24W28 (D)
2493	24W29 (D)
2494	24W30 (D)
2495	24W31 (D)
2496	24W32 (D)
2497	24W33 (D)
2498	24W34 (D)
2499	24W35 (D)
2500	24W36 (D)
2501	24W37 (D)
2502	24W38 (D)
2503	24W39 (D)
2504	24W40 (D)
2505	24W41 (D)
2506	24W42 (D)
2507	24W43 (D)
2508	24W44 (D)
2509	24W45 (D)
2510	24W46 (D)
2511	24W47 (D)
2512	24W48 (D)
2513	24W49 (D)
2514	24W50 (D)
2515	24W51 (D)
2516	24W52 (D)
2517	24W53 (D)
2518	24W54 (D)
2519	24W55 (D)
2520	24W56 (D)
2521	24W57 (D)
2522	24W58 (D)
2523	24W59 (D)
2524	24W60 (D)
2525	24W61 (D)
2526	24W62 (D)
2527	24W63 (D)
2528	24W64 (D)
2529	24W65 (D)
2530	24W66 (D)
2531	24W67 (D)
2532	24W68 (D)
2533	24W69 (D)
2534	24W70 (D)
2535	24W71 (D)
2536	24W72 (D)
2537	24W73 (D)
2538	24W74 (D)
2539	24W75 (D)
2540	24W76 (D)
2541	24W77 (D)
2542	24W78 (D)
2543	24W79 (D)
2544	24W80 (D)
2545	24W81 (D)
2546	24W82 (D)
2547	24W83 (D)
2548	24W84 (D)
2549	24W85 (D)
2550	24W86 (D)
2551	24W87 (D)
2552	24W88 (D)
2553	24W89 (D)
2554	24W90 (D)
2555	24W91 (D)
2556	24W92 (D)
2557	24W93 (D)
2558	24W94 (D)
2559	24W95 (D)
2560	24W96 (D)
2561	24W97 (D)
2562	24W98 (D)
2563	24W99 (D)
2564	24W100 (D)
2565	24W101 (D)
2566	24W102 (D)
2567	24W103 (D)
2568	24W104 (D)
2569	24W105 (D)
2570	24W106 (D)
2571	24W107 (D)
2572	24W108 (D)
2573	24W109 (D)
2574	24W110 (D)
2575	24W111 (D)
2576	24W112 (D)
2577	24W113 (D)
2578	24W114 (D)
2579	24W115 (D)
2580	24W116 (D)
2581	24W117 (D)
2582	24W118 (D)
2583	24W119 (D)
2584	24W120 (D)
2585	24W121 (D)
2586	24W122 (D)
2587	24W123 (D)
2588	24W124 (D)
2589	24W125 (D)
2590	24W126 (D)
2591	24W127 (D)
2592	24W128 (D)
2593	24W129 (D)
2594	24W130 (D)
2595	24W131 (D)
2596	24W132 (D)
2597	24W133 (D)
2598	24W134 (D)
2599	24W135 (D)
2600	24W136 (D)
2601	24W137 (D)
2602	24W138 (D)
2603	24W139 (D)
2604	24W140 (D)
2605	24W141 (D)
2606	24W142 (D)
2607	24W143 (D)
2608	24W144 (D)
2609	24W145 (D)
2610	24W146 (D)
2611	24W147 (D)
2612	24W148 (D)
2613	24W149 (D)
2614	24W150 (D)
2615	24W151 (D)
2616	24W152 (D)
2617	24W153 (D)
2618	24W154 (D)
2619	24W155 (D)
2620	24W156 (D)
2621	24W157 (D)
2622	24W158 (D)
2623	24W159 (D)
2624	24W160 (D)
2625	24W161 (D)
2626	24W162 (D)
2627	24W163 (D)
2628	24W164 (D)
2629	24W165 (D)
2630	24W166 (D)
2631	24W167 (D)
2632	24W168 (D)
2633	24W169 (D)
2634	24W170 (D)
2635	24W171 (D)
2636	24W172 (D)
2637	24W173 (D)
2638	24W174 (D)
2639	24W175 (D)
2640	24W176 (D)
2641	24W177 (D)
2642	24W178 (D)
2643	24W179 (D)
2644	24W180 (D)
2645	24W181 (D)
2646	24W182 (D)
2647	24W183 (D)
2648	24W184 (D)
2649	24W185 (D)
2650	24W186 (D)
2651	24W187 (D)
2652	24W188 (D)
2653	24W189 (D)
2654	24W190 (D)
2655	24W191 (D)
2656	24W192 (D)
2657	24W193 (D)
2658	24W194 (D)
2659	24W195 (D)
2660	24W196 (D)
2661	24W197 (D)
2662	24W198 (D)
2663	24W199 (D)
2664	24W200 (D)
2665	24W201 (D)
2666	24W202 (D)
2667	24W203 (D)
2668	24W204 (D)
2669	24W205 (D)
2670	24W206 (D)
2671	24W207 (D)
2672	24W208 (D)
2673	24W209 (D)
2674	24W210 (D)
2675	24W211 (D)
2676	24W212 (D)
2677	24W213 (D)
2678	24W214 (D)
2679	24W215 (D)
2680	24W216 (D)
2681	24W217 (D)
2682	24W218 (D)
2683	24W219 (D)
2684	24W220 (D)
2685	24W221 (D)
2686	24W222 (D)
2687	24W223 (D)
2688	24W224 (D)
2689	24W225 (D)
2690	24W226 (D)
2691	24W227 (D)
2692	24W228 (D)
2693	24W229 (D)
2694	24W230 (D)
2695	24W231 (D)
2696	24W232 (D)
2697	24W233 (D)
2698	24W234 (D)
2699	24W235 (D)
2700	24W236 (D)
2701	24W237 (D)
2702	24W238 (D)
2703	24W239 (D)
2704	24W240 (D)
2705	24W241 (D)
2706	24W242 (D)
2707	24W243 (D)
2708	24W244 (D)
2709	24W245 (D)
2710	24W246 (D)
2711	24W247 (D)
2712	24W248 (D)
2713	24W249 (D)
2714	24W250 (D)
2715	24W251 (D)
2716	24W252 (D)
2717	24W253 (D)
2718	24W254 (D)
2719	24W255 (D)
2720	24W256 (D)
2721	24W257 (D)
2722	24W258 (D)
2723	24W259 (D)
2724	24W260 (D)
2725	24W261 (D)
2726	24W262 (D)
2727	24W263 (D)
2728	24W264 (D)
2729	24W265 (D)
2730	24W266 (D)
2731	24W267 (D)
2732	24W268 (D)
2733	24W269 (D)
2734	24W270 (D)
2735	24W271 (D)
2736	24W272 (D)
2737	24W273 (D)
2738	24W274 (D)
2739	24W275 (D)
2740	24W276 (D)
2741	24W277 (D)
2742	24W278 (D)
2743	24W279 (D)
2744	24W280 (D)
2745	24W281 (D)
2746	24W282 (D)
2747	24W283 (D)
2748	24W284 (D)
2749	24W285 (D)
2750	24W286 (D)
2751	24W287 (D)
2752	24W288 (D)
2753	24W289 (D)
2754	24W290 (D)
2755	24W291 (D)
2756	24W292 (D)
2757	24W293 (D)
2758	24W294 (D)
2759	24W295 (D)
2760	24W296 (D)
2761	24W297 (D)
2762	24W298 (D)
2763	24W299 (D)
2764	24W300 (D)
2765	24W301 (D)
2766	24W302 (D)
2767	24W303 (D)
2768	24W304 (D)
2769	24W305 (D)
2770	24W306 (D)
2771	24W307 (D)
2772	24W308 (D)
2773	24W309 (D)
2774	24W310 (D)
2775	24W311 (D)
2776	24W312 (D)
2777	24W313 (D)
2778	24W314 (D)
2779	24W315 (D)
2780	24W316 (D)
2781	24W317 (D)
2782	24W318 (D)
2783	24W319 (D)
2784	24W320 (D)
2785	24W321 (D)
2786	24W322 (D)
2787	24W323 (D)
2788	24W324 (D)
2789	24W325 (D)
2790	24W326 (D)
2791	24W327 (D)
2792	24W328 (D)
2793	24W329 (D)
2794	24W330 (D)
2795	24W331 (D)
2796	24W332 (D)
2797	24W333 (D)
2798	24W334 (D)
2799	24W335 (D)
2800	24W336 (D)
2801	24W337 (D)
2802	24W338 (D)
2803	24W339 (D)
2804	24W340 (D)
2805	24W341 (D)
2806	24W342 (D)
2807	24W343 (D)
2808	24W344 (D)
2809	24W345 (D)
2810	24W346 (D)
2811	24W347 (D)
2812	24W348 (D)
2813	24W349 (D)
2814	24W350 (D)
2815	24W351 (D)
2816	24W352 (D)
2817	24W353 (D)
2818	24W354 (D)
2819	24W355 (D)
2820	24W356 (D)
2821	24W357 (D)
2822	24W358 (D)
2823	24W359 (D)
2824	24W360 (D)
2825	24W361 (D)
2826	24W362 (D)
2827	24W363 (D)
2828	24W364 (D)
2829	24W365 (D)
2830	24W366 (D)
2831	24W367 (D)
2832	24W368 (D)
2833	24W369 (D)
2834	24W370 (D)
2835	24W371 (D)
2836	24W372 (D)
2837	24W373 (D)
2838	24W374 (D)
2839	24W375 (D)
2840	24W376 (D)
2841	24W377 (D)
2842	24W378 (D)
2843	24W379 (D)
2844	24W380 (D)
2845	24W381 (D)
2846	24W382 (D)
2847	24W383 (D)
2848	24W384 (D)
2849	24W385 (D)
2850	24W386 (D)
2851	24W387 (D)
2852	24W388 (D)
2853	24W389 (D)
2854	24W390 (D)
2855	24W391 (D)
2856	24W392 (D)
2857	24W393 (D)
2858	24W394 (D)
2859	24W395 (D)
2860	24W396 (D)
2861	24W397 (D)
2862	24W398 (D)
2863	24W399 (D)
2864	24W400 (D)
2865	24W401 (D)
2866	24W402 (D)
2867	24W403 (D)
2868	24W404 (D)
2869	24W405 (D)
2870	24W406 (D)
2871	24W407 (D)
2872	24W408 (D)
2873	24W409 (D)
2874	24W410 (D)
2875	24W411 (D)
2876	24W412 (D)
2877	24W413 (D)
2878	24W414 (D)
2879	24W415 (D)
2880	24W416 (D)
2881	24W417 (D)
2882	24W418 (D)
2883	24W419 (D)
2884	24W420 (D)
2885	24W421 (D)
2886	24W422 (D)
2887	24W423 (D)
2888	24W424 (D)
2889	24W425 (D)
2890	24W426 (D)
2891	24W427 (D)
2892	24W428 (D)
2893	24W429 (D)
2894	24W430 (D)
2895	24W431 (D)
2896	24W432 (D)
2897	24W433 (D)
2898	24W434 (D)
2899	24W435 (D)
2900	24W436 (D)
2901	24W437 (D)
2902	24W438 (D)
2903	24W439 (D)
2904	24W440 (D)
2905	24W441 (D)
2906	24W442 (D)
2907	24W443 (D)
2908	24W444 (D)
2909	24W445 (D)
2910	24W446 (D)
2911	24W447 (D)
2912	24W448 (D)
2913	24W449 (D)
2914	24W450 (D)
2915	24W451 (D)
2916	24W452 (D)
2917	24W453 (D)
2918	24W454 (D)
2919	24W455 (D)
2920	24W456 (D)
2921	24W457 (D)
2922	24W458 (D)
2923	24W459 (D)
2924	24W460 (D)
2925	24W4

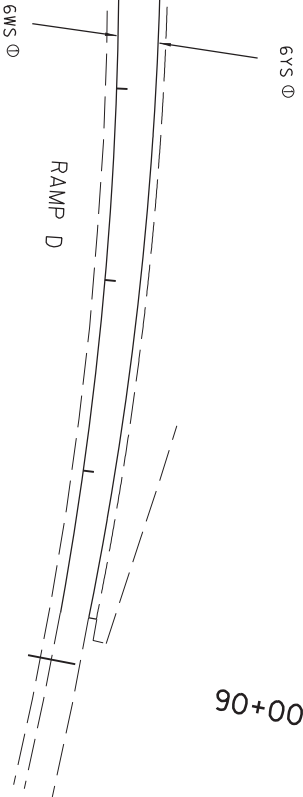
COUNTY OF	ITEM NO.
FRANKLIN	5-187

STRIPING QUANTITY LEGEND - TAPE (CONCRETE)	
BID ITEM	LEGEND
6556	6" SINGLE SOLID WHITE LINE (PAVE STRIPING-DUR TY 1-6 IN W)
6557	6" SINGLE SOLID YELLOW LINE (PAVE STRIPING-DUR TY 1-6 IN Y)

ALL MARKINGS ARE DURABLE PAINT, THERMO, OR TAPE  
SEE STRIPING AND PAYEMENT MARKING SUMMARY FOR QUANTITIES  
INSTALL INLAID PAYEMENT MARKERS PER STANDARD DRAWINGS



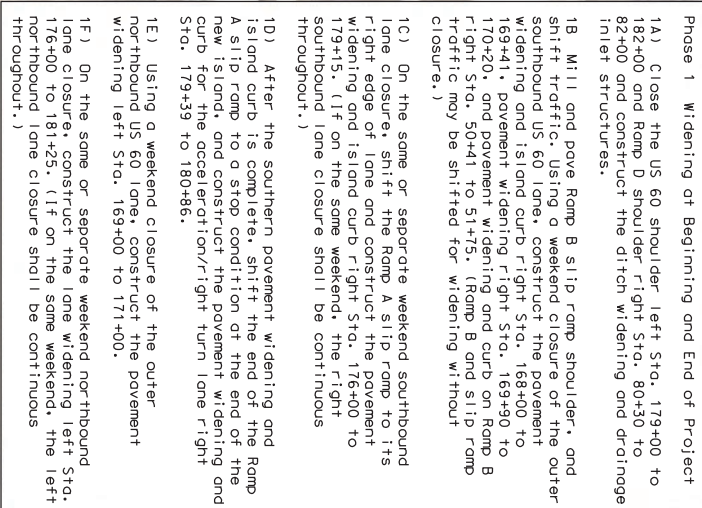
MATCH LINE STA. 85+25



SCALE: 1"=100'

US 60 AT INTERSTATE 64  
STRIPING PLAN SHEET (4 OF 4)  
STA. 85+25 TO 90+00

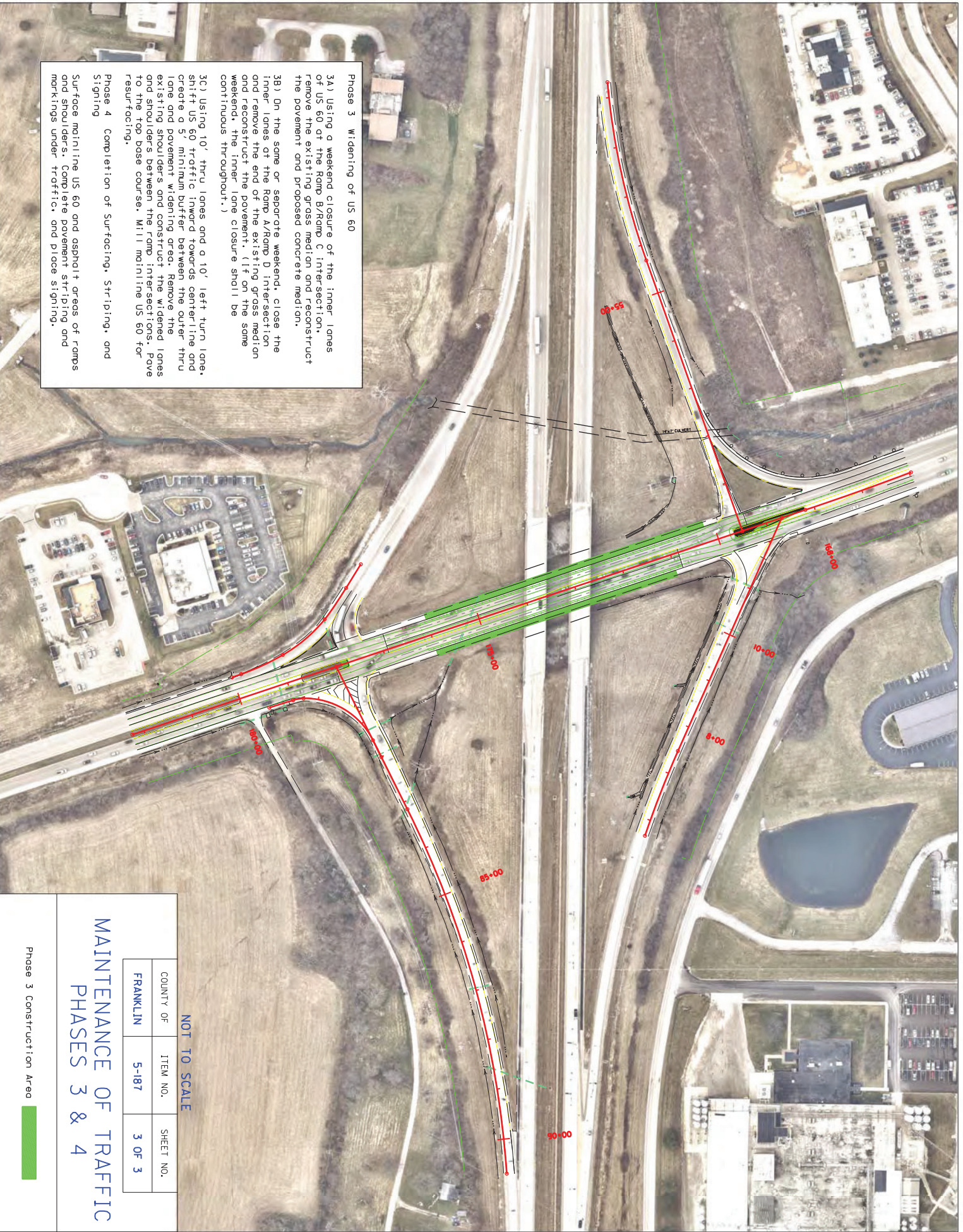












COUNTY OF	ITEM NO.	SHEET NO.
FRANKLIN	5-187	3 OF 3

NOT TO SCALE

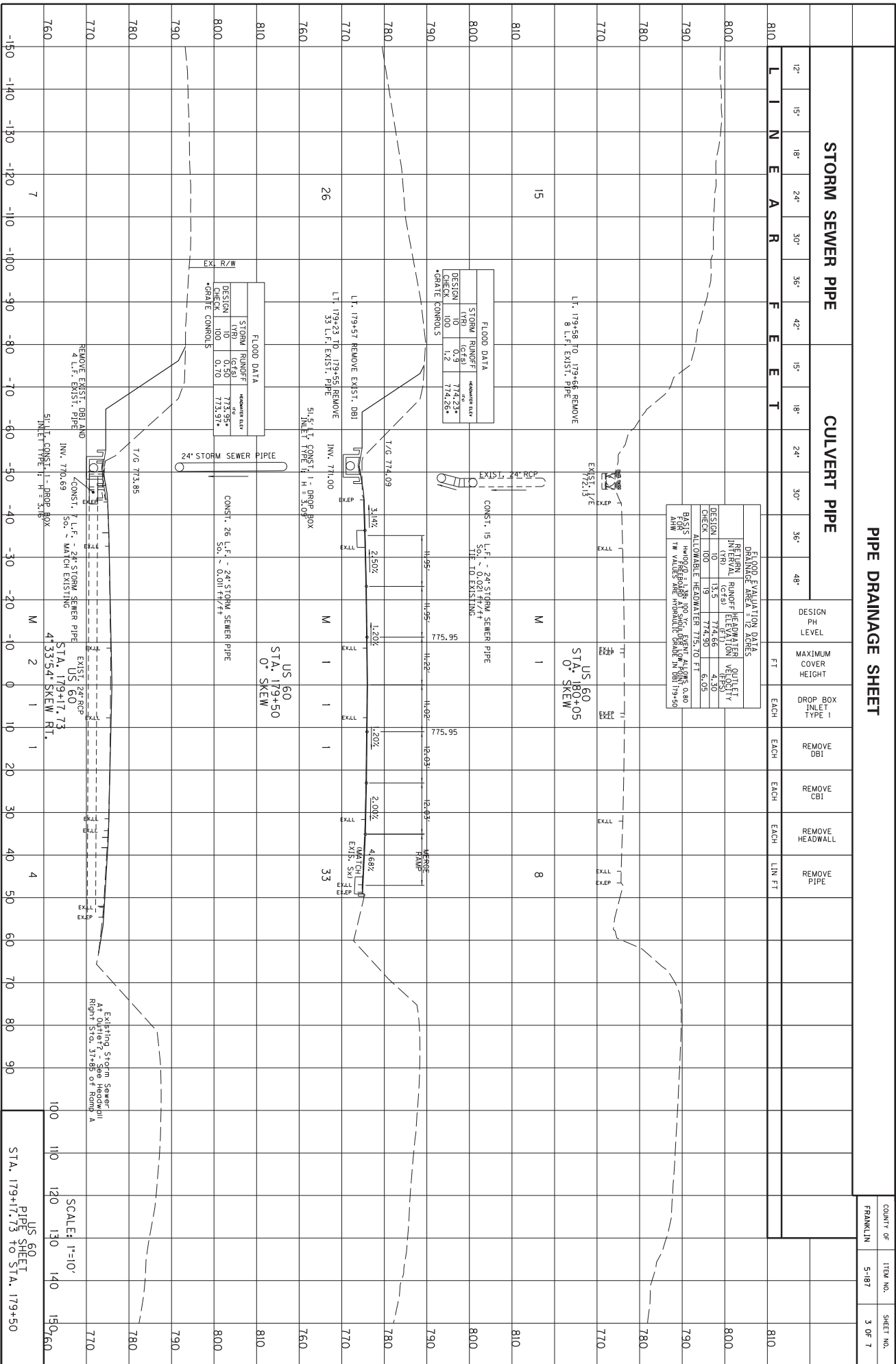
## MAINTENANCE OF TRAFFIC PHASES 3 & 4

Phase 3 Construction Area





[illegible]



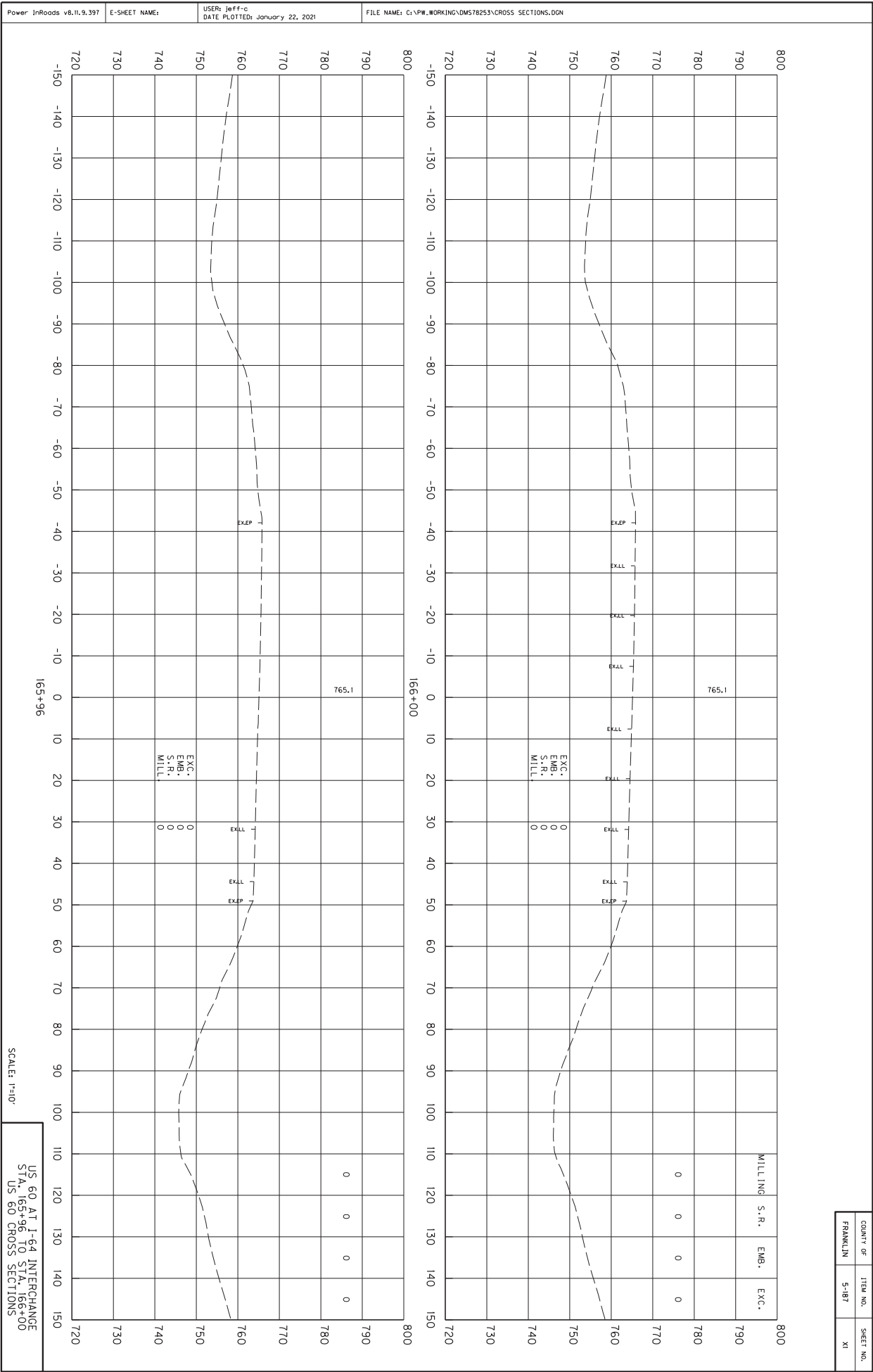
[illegible]

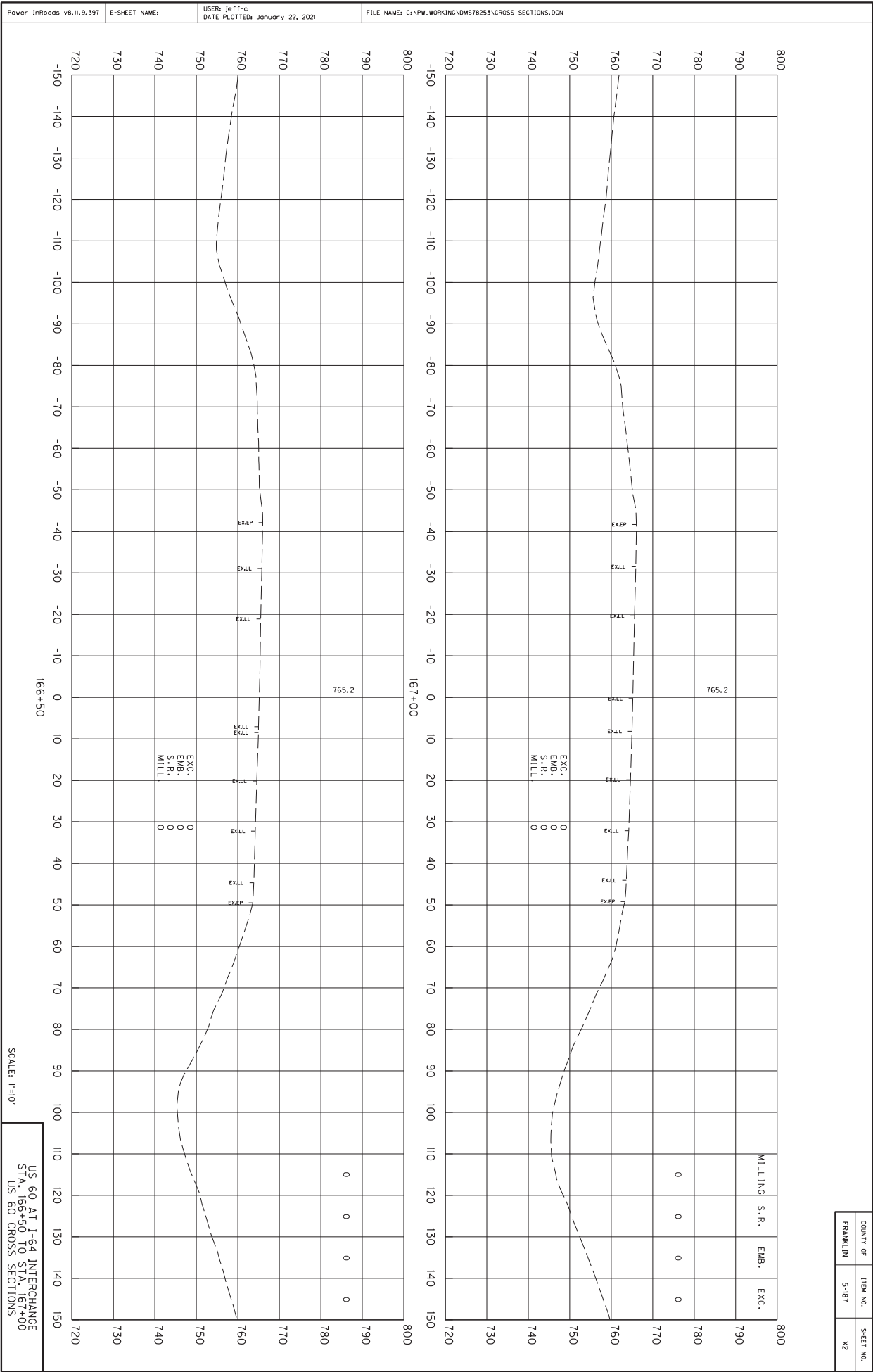


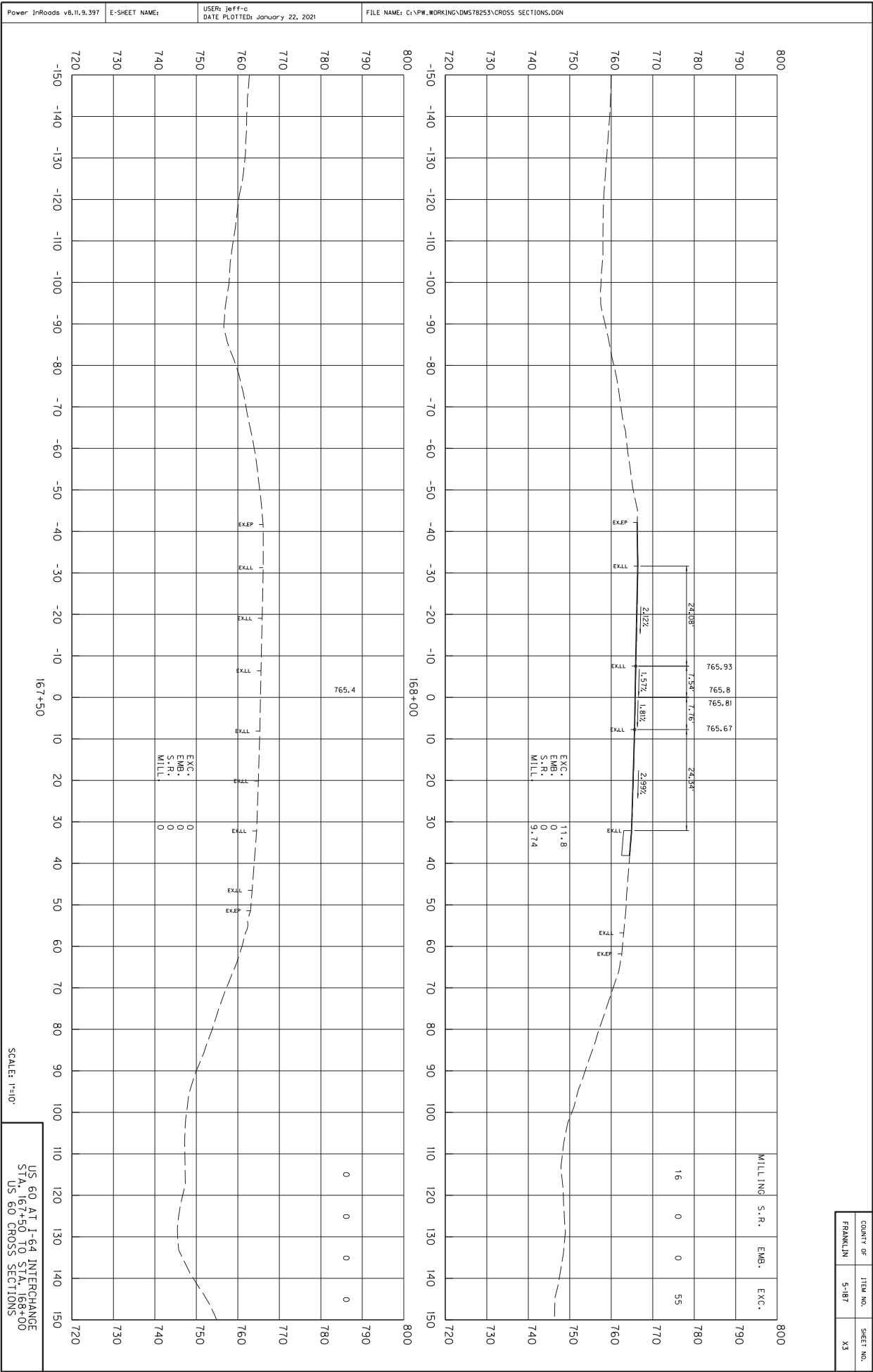
[illegible]

[illegible]

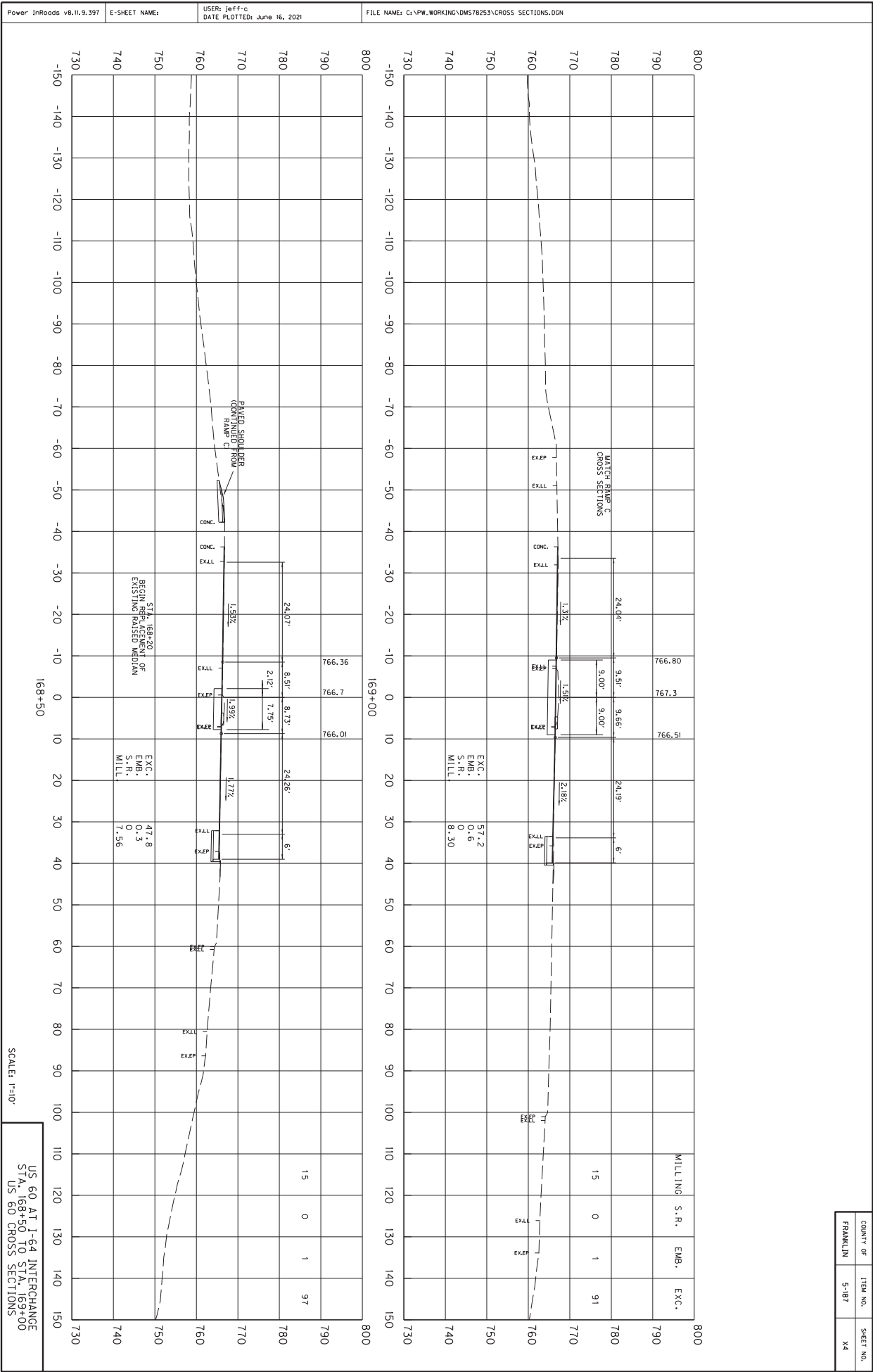
[illegible]

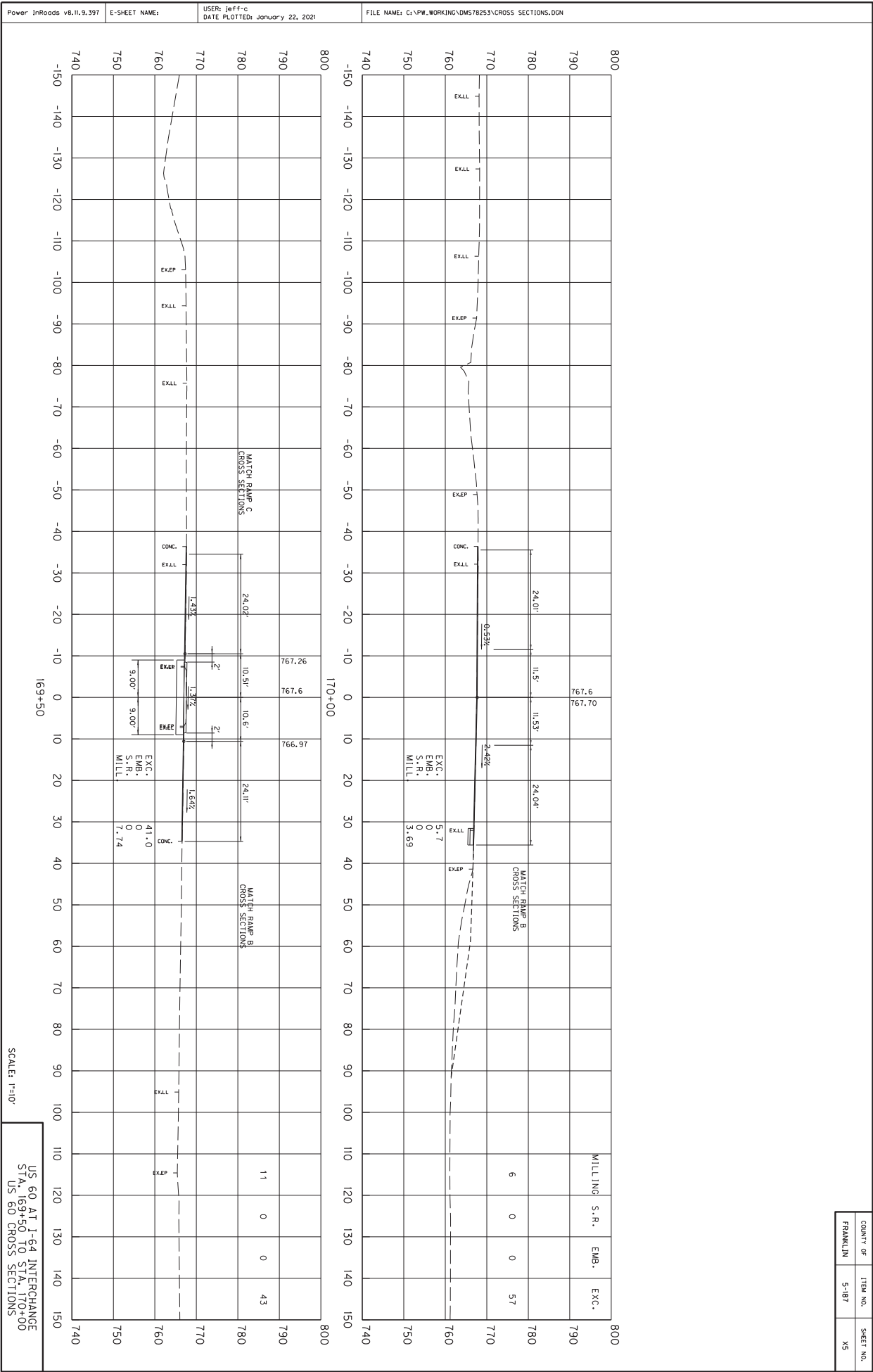












Power InRoads v8.11.9.397
E-SHEET NAME:
USER: jeff-c  
DATE PLOTTED: January 22, 2021
FILE NAME: C:\PW\_WORKING\DM578253\CROSS SECTIONS.DGN

**Station 171+00**

MILLING		S.R.	EMB.	EXC.
780				
790				
790	7	0	0	110
780				

Summary Data:  
 EXC. 58.12  
 EMB. 0.1  
 S.R. 0.1  
 MILL. 3.46

**Station 170+50**

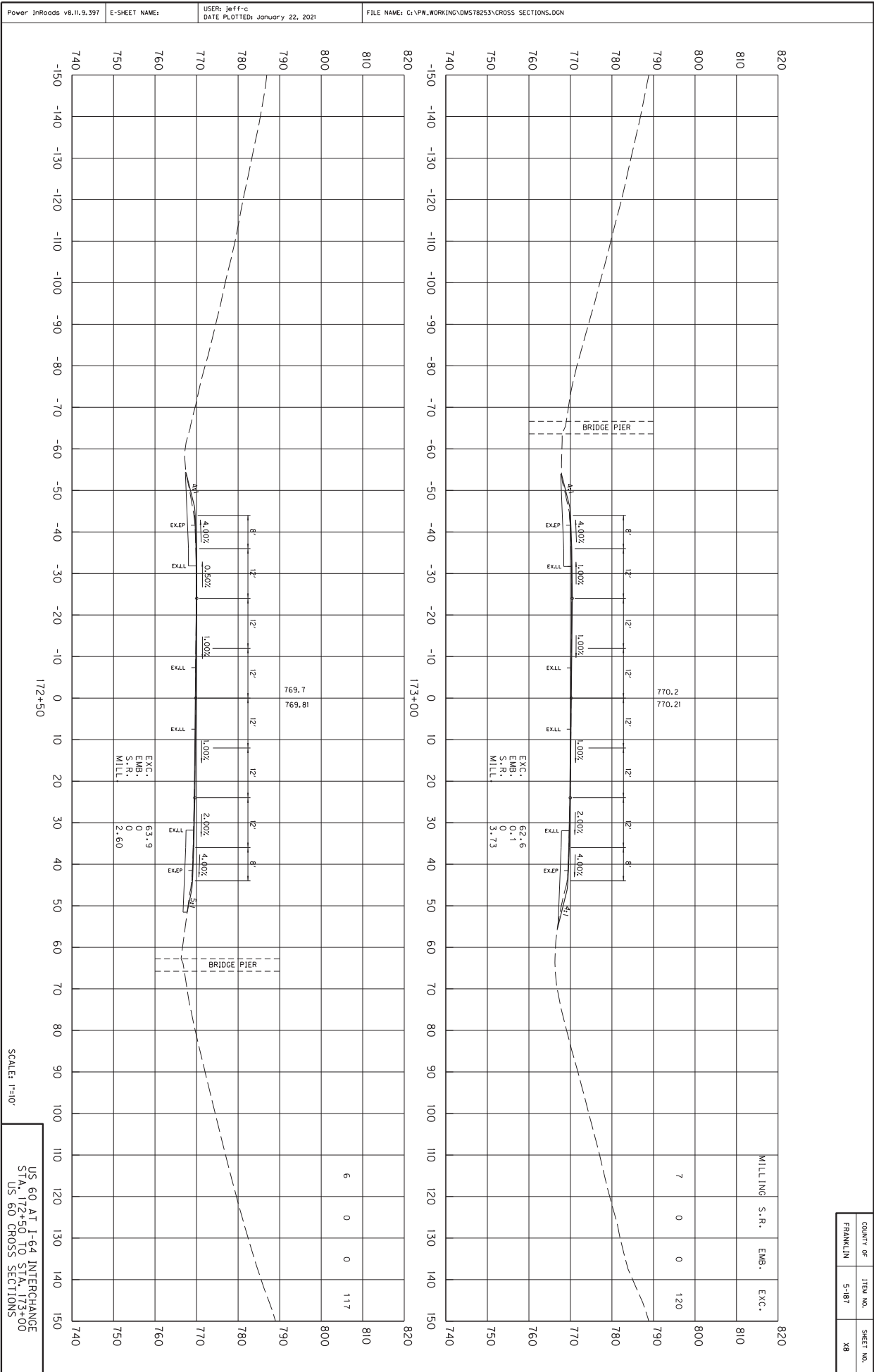
MILLING		S.R.	EMB.	EXC.
780				
790				
790	6	0	0	106
780				

Summary Data:  
 EXC. 56.2  
 EMB. 0.2  
 S.R. 0  
 MILL. 2.82

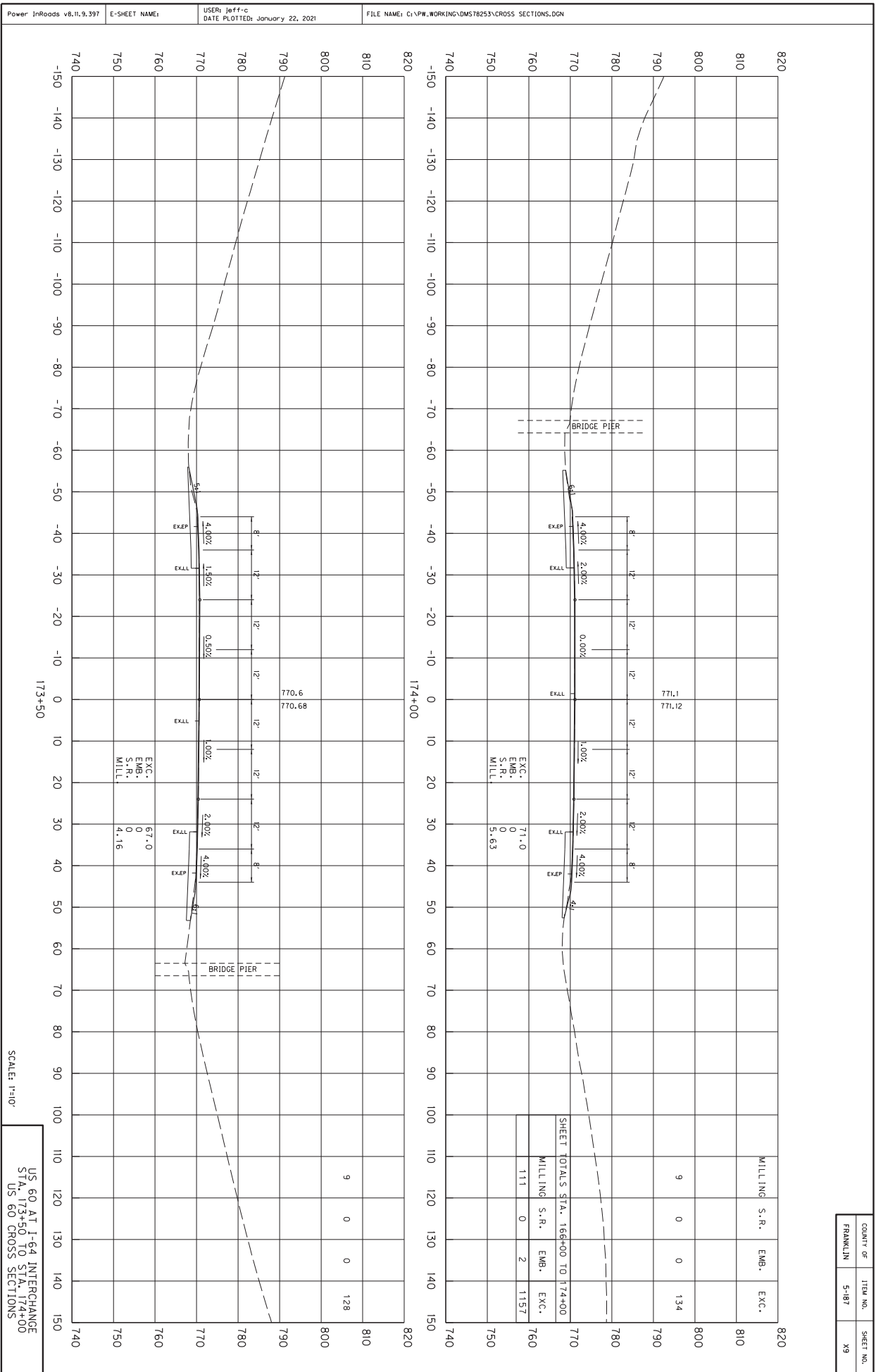
Power InRoads v8.11.9.397	E-SHEET NAME:	USER: jeff-c DATE PLOTTED: January 22, 2021	FILE NAME: C:\PW\WORKING\DM87253\CROSS SECTIONS.DGN
---------------------------	---------------	--	---



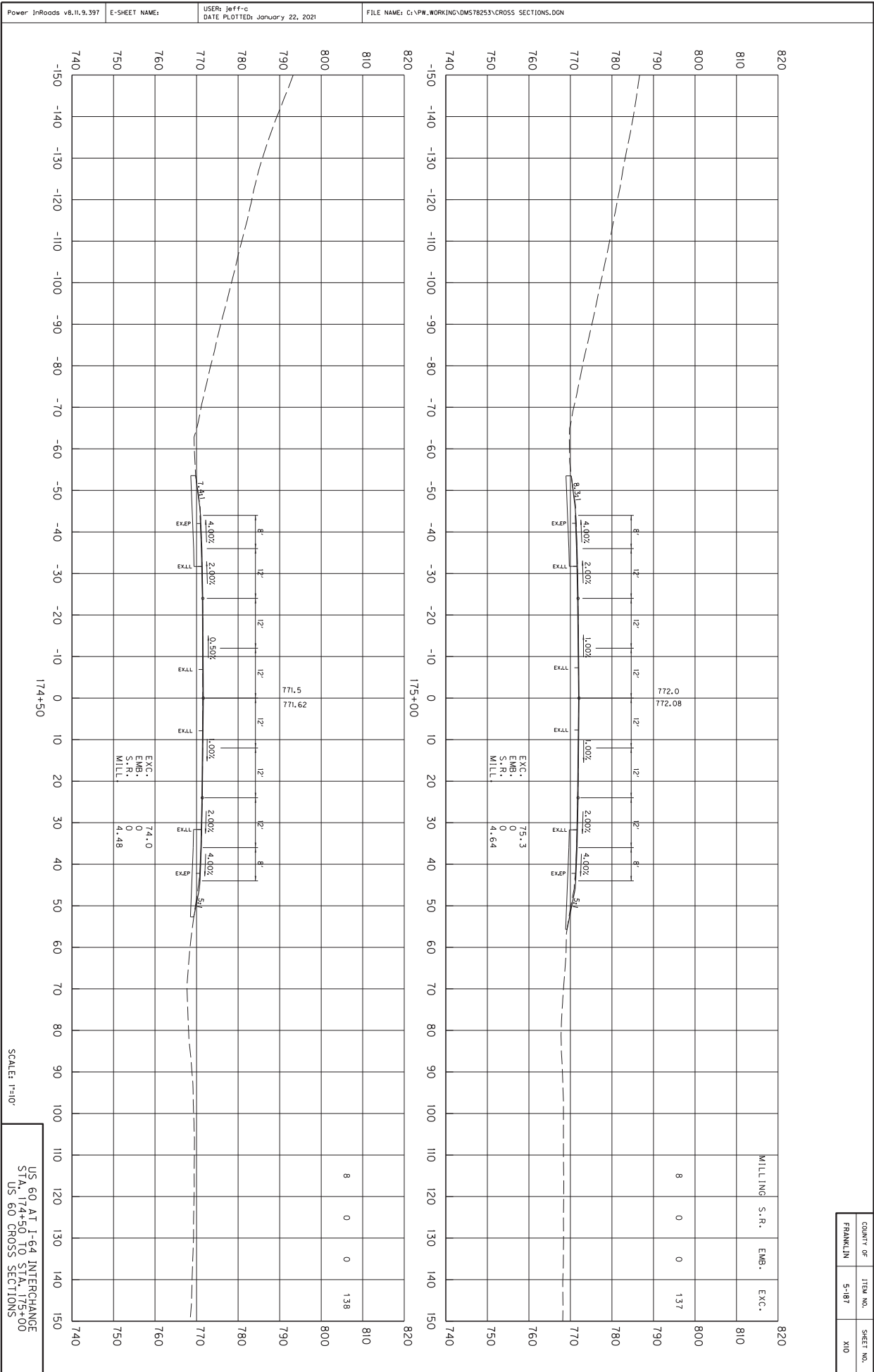
US 60 AT I-64 INTERCHANGE  
STA. 171+50 TO STA. 172+00  
US 60 CROSS SECTIONS



US 60 AT I-64 INTERCHANGE  
STA. 172+50 TO STA. 173+00  
US 60 CROSS SECTIONS







Power InRoads v8.11.9.397 E-SHEET NAME: USER: jeff-c DATE PLOTTED: January 22, 2021 FILE NAME: C:\PIR\_WORKING\DM57825\VCROSS SECTIONS.DGN

**STA 175+50**

MILLING	S.R.	EMB.	EXC.
8	0	0	127

**STA 176+00**

MILLING	S.R.	EMB.	EXC.
8	0	0	125

SCALE: 1"=10'

US 60 AT I-64 INTERCHANGE  
STA. 175+50 TO STA. 176+00  
US 60 CROSS SECTIONS

Power InRoads v8.11.9.397 E-SHEET NAME: USER: jeff-c DATE PLOTTED: January 22, 2021 FILE NAME: C:\PW\WORKING\QMS78253\CROSS SECTIONS.DGN

Diagram 1: Cross-section at station 176+50. The diagram shows a 12-foot wide road with a 4% slope on the left and a 2% slope on the right. The shoulder is 12 feet wide with a 4% slope. The elevation at the top of the road is 773.39. The elevation at the bottom of the road is 773.3. The elevation at the bottom of the shoulder is 773.39. The diagram includes a summary table for quantities.

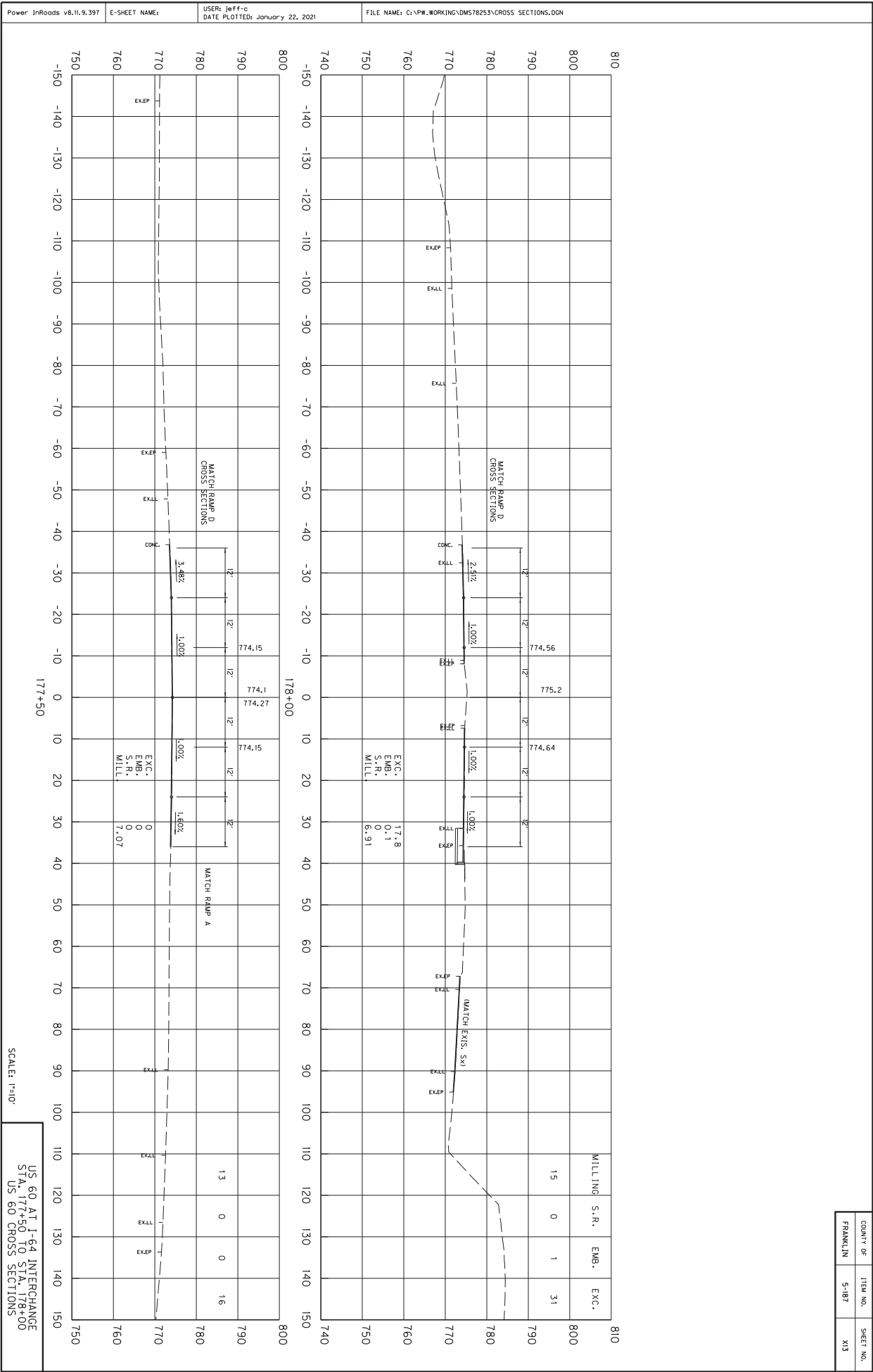
ITEM NO.	QUANTITY
1.00	69.9
2.00	0
3.00	0
4.00	4.67

Diagram 2: Cross-section at station 177+00. The diagram shows a 12-foot wide road with a 4% slope on the left and a 2% slope on the right. The shoulder is 12 feet wide with a 4% slope. The elevation at the top of the road is 773.7. The elevation at the bottom of the road is 773.82. The elevation at the bottom of the shoulder is 773.82. The diagram includes a summary table for quantities.

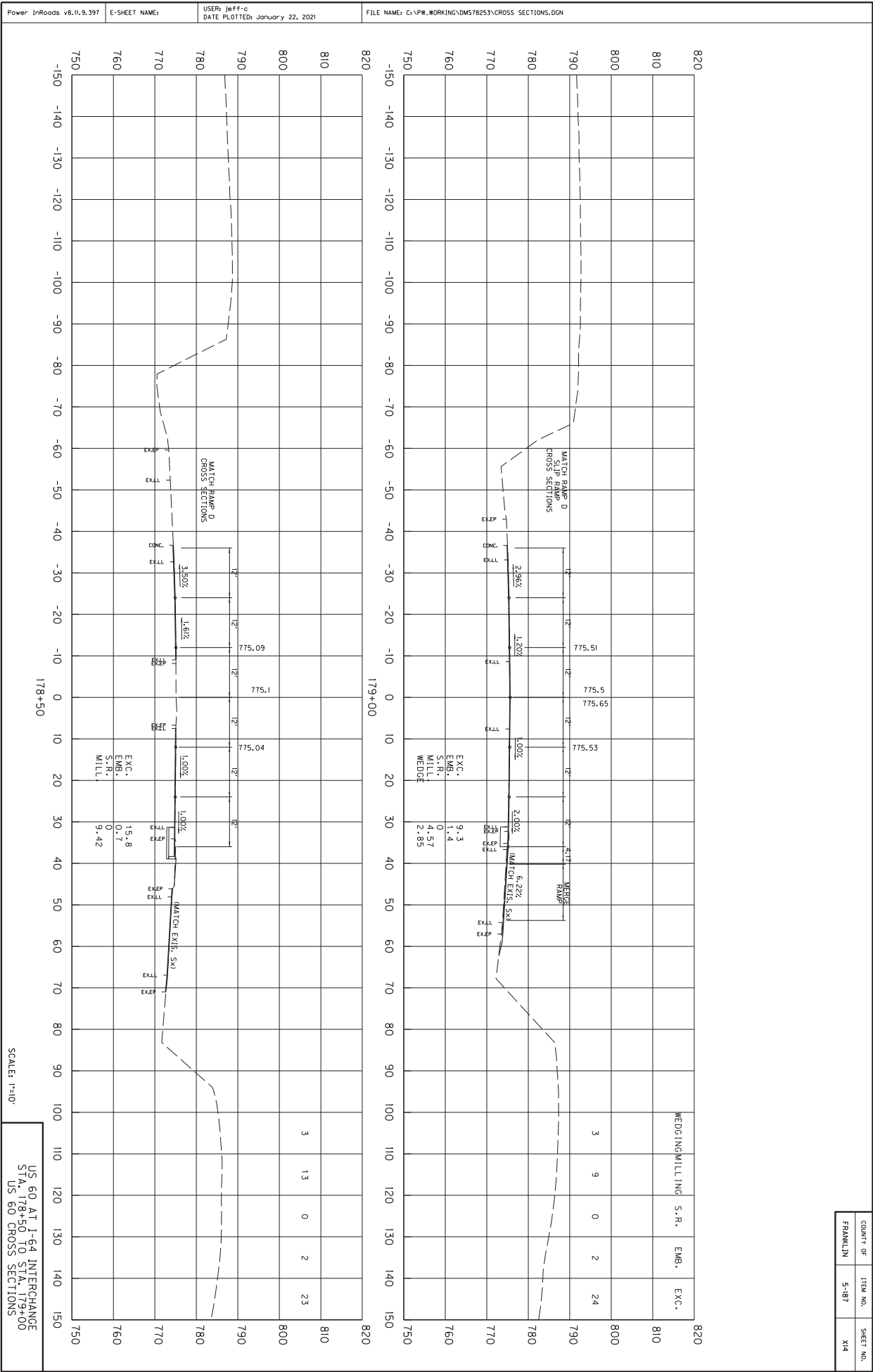
ITEM NO.	QUANTITY
1.00	72.6
2.00	0
3.00	0
4.00	4.81

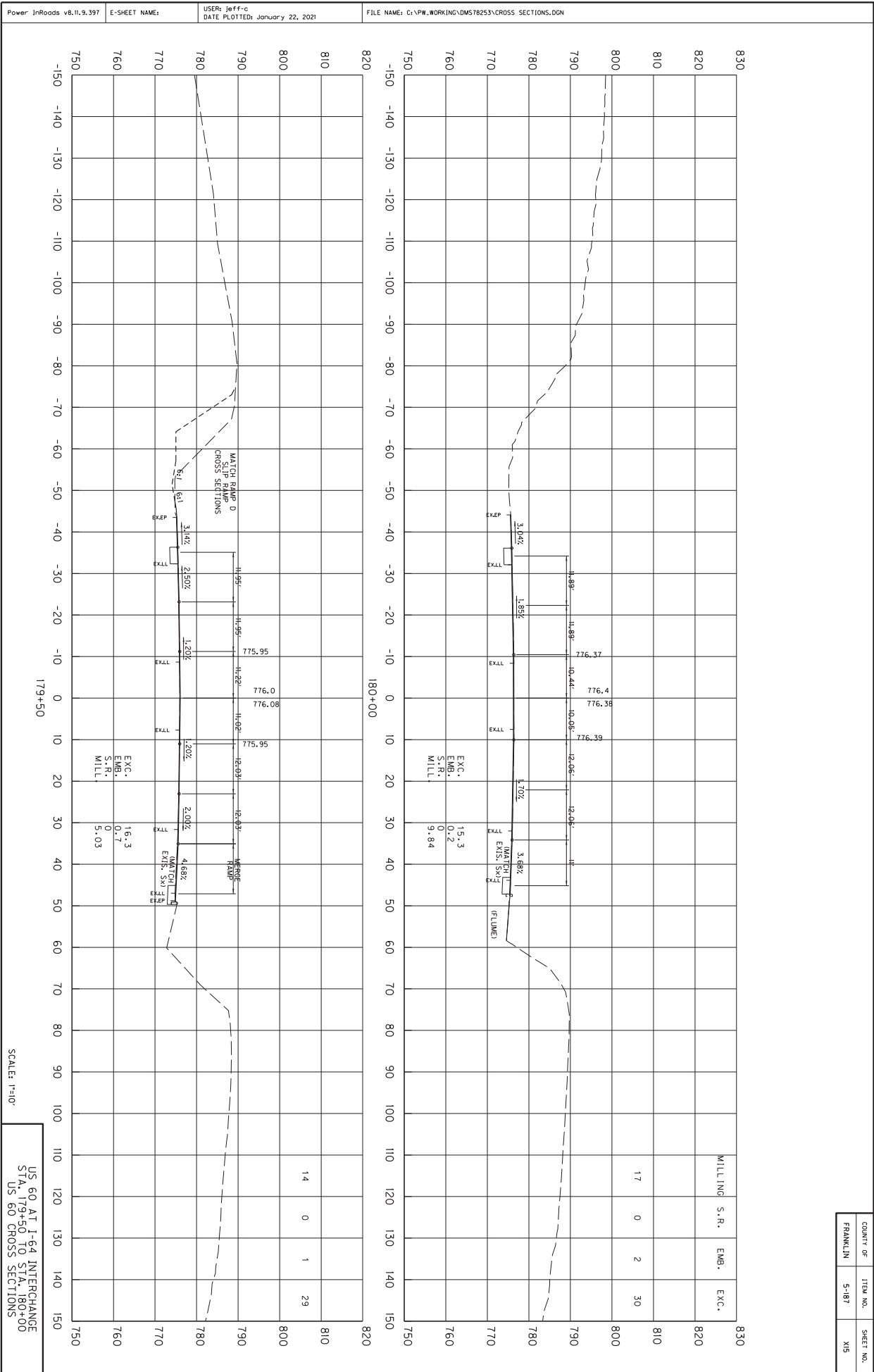
US 60 AT I-64 INTERCHANGE  
STA 176+50 TO STA 177+00  
US 60 CROSS SECTIONS

SCALE: 1"=10'



SCALE: 1"=10'



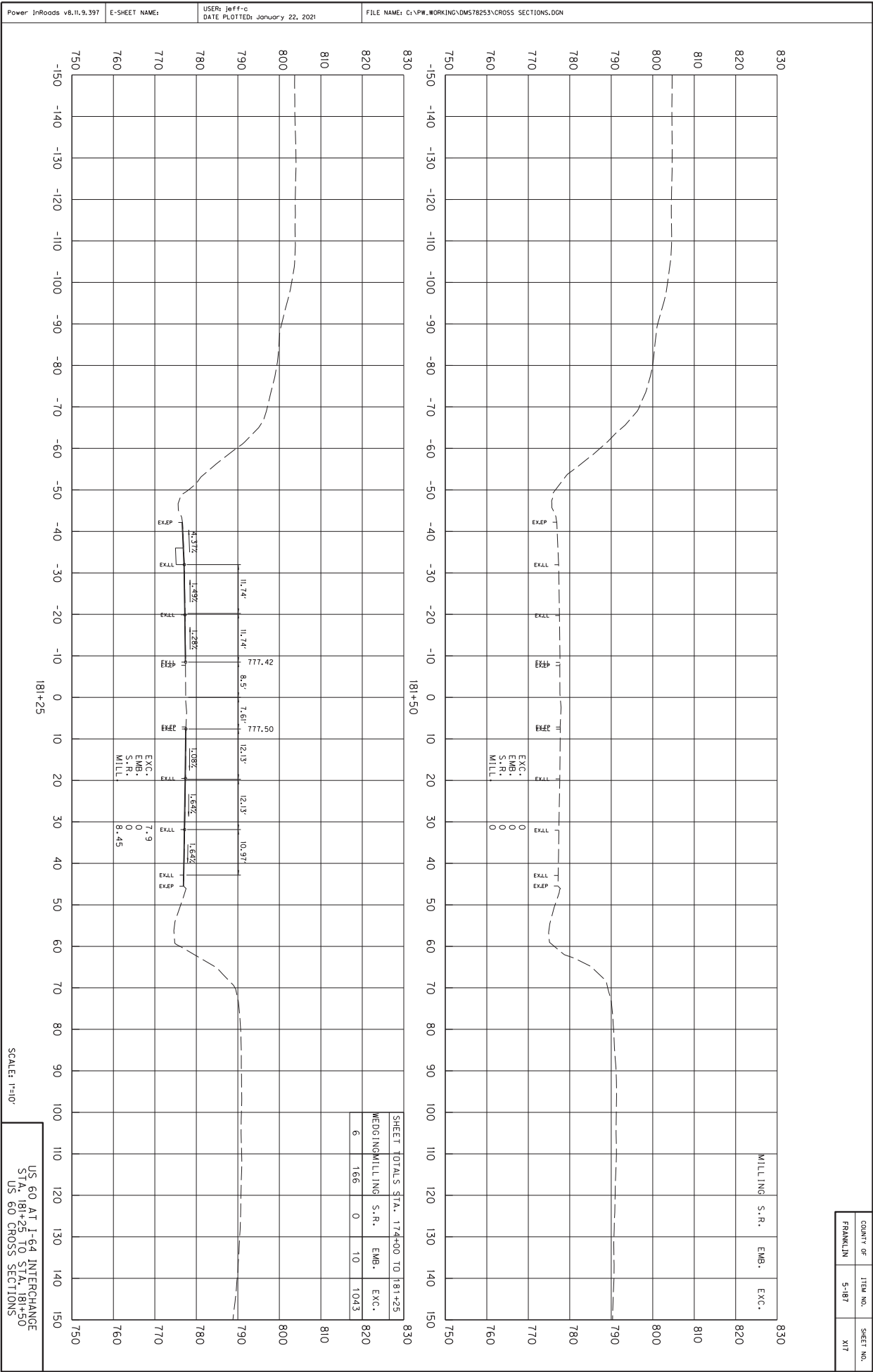


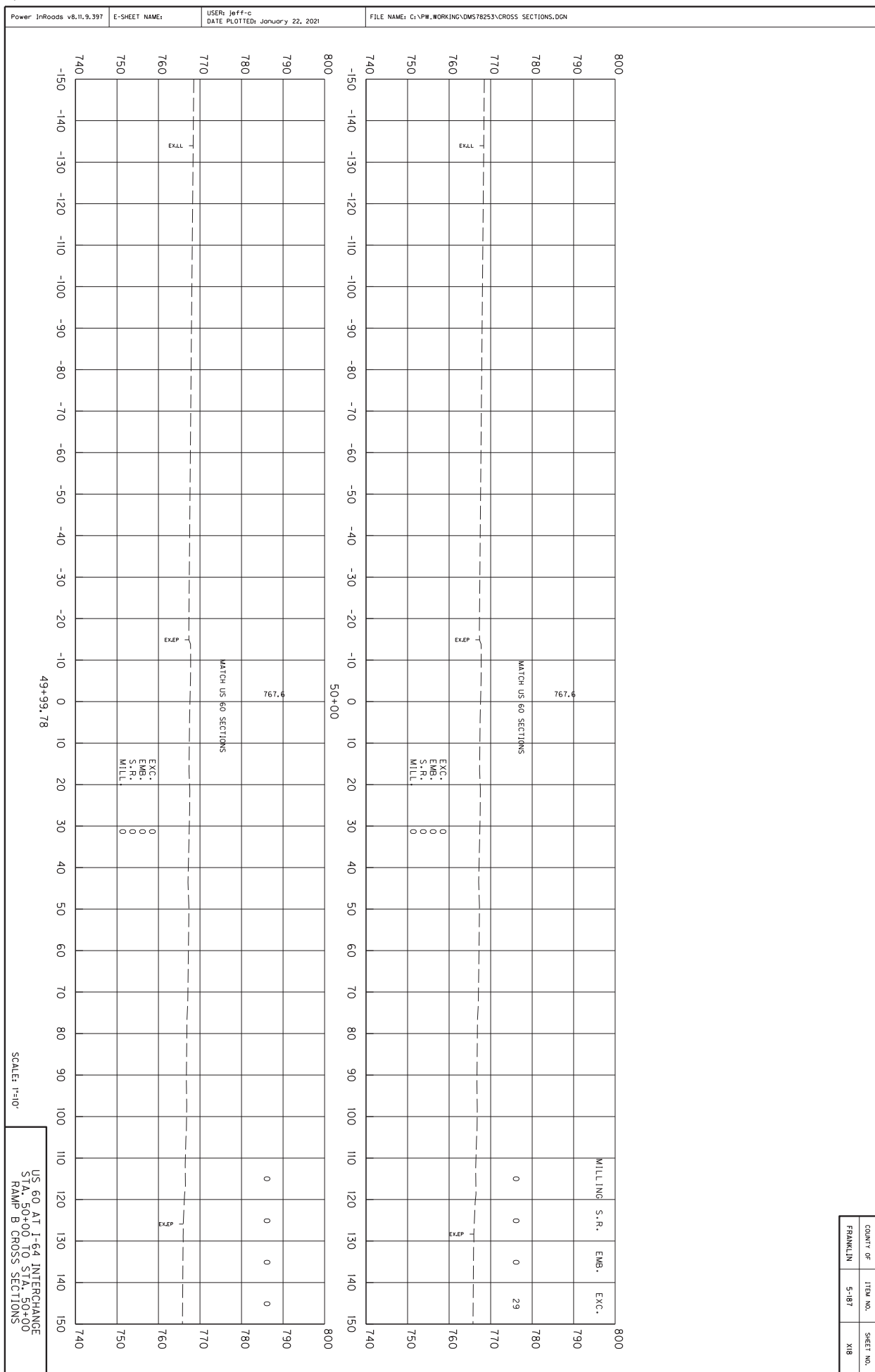


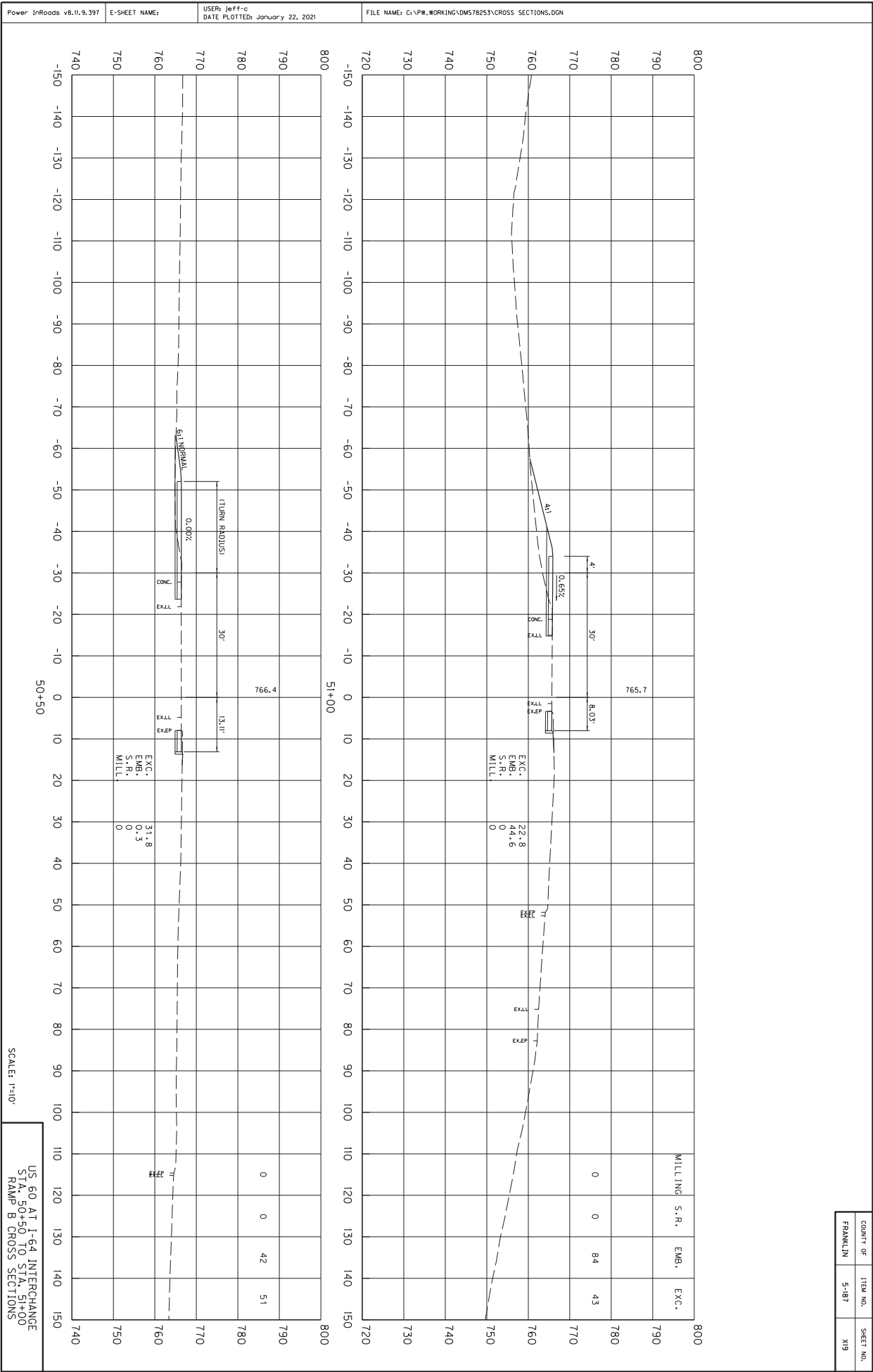
Power InRoads v8.11.9.397	E-SHEET NAME:	USER: Jeff-c DATE PLOTTED: January 22, 2021	FILE NAME: C:\PW-WORKING\DMS78253\CROSS SECTIONS.DGN
---------------------------	---------------	--	--

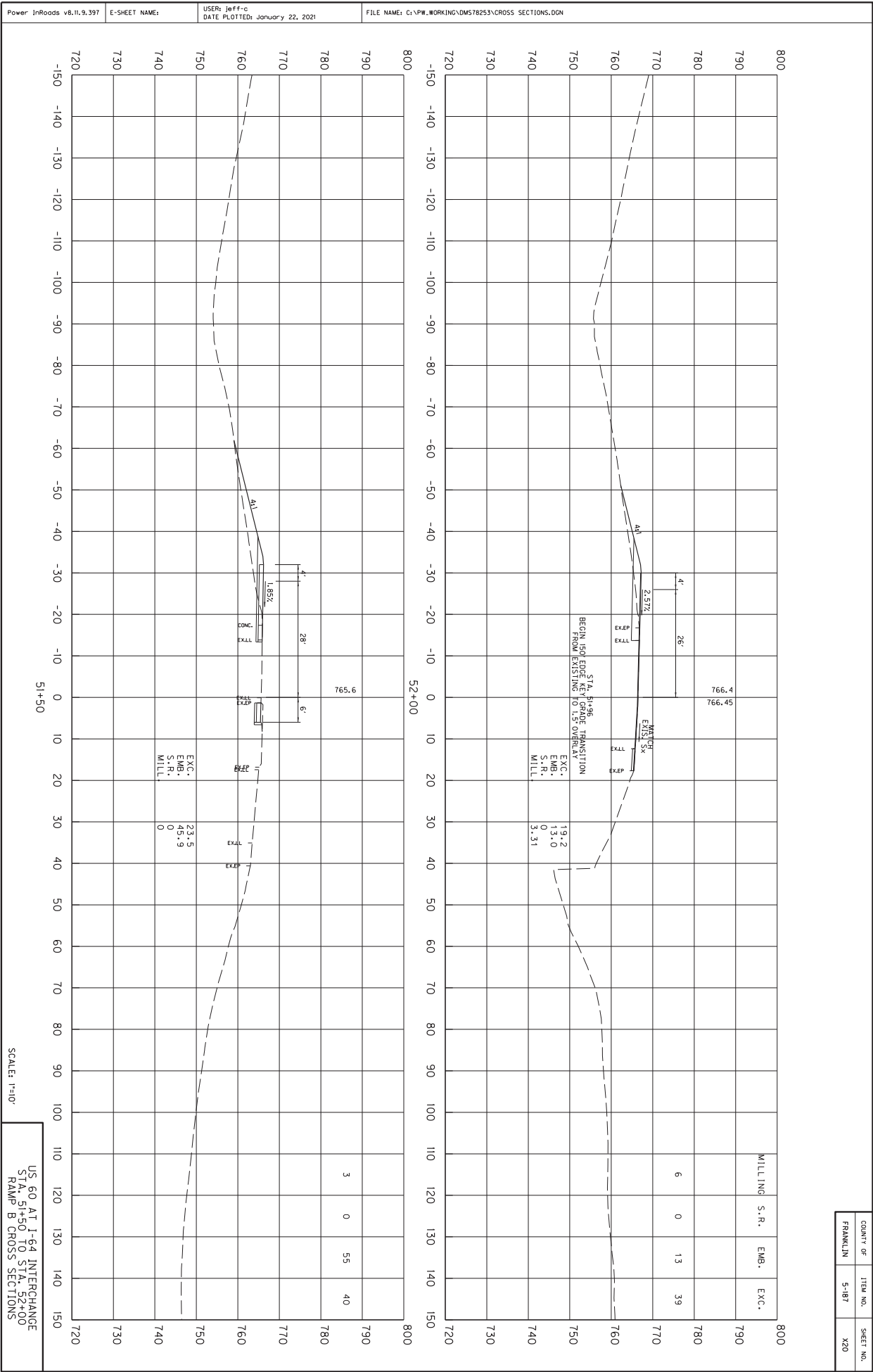


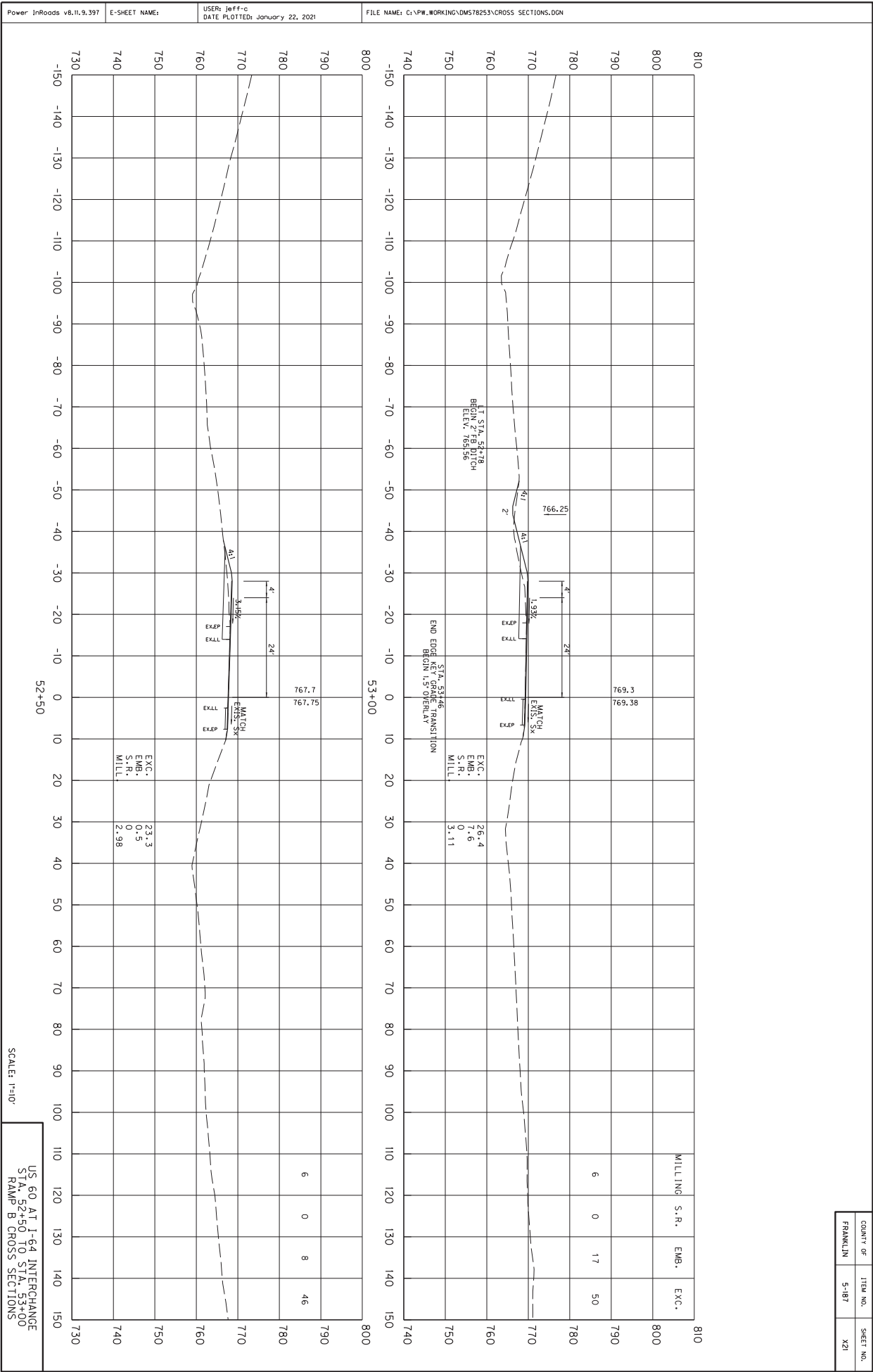
US 60 AT I-64 INTERCHANGE  
STA. 180+50 TO STA. 181+00  
US 60 CROSS SECTIONS



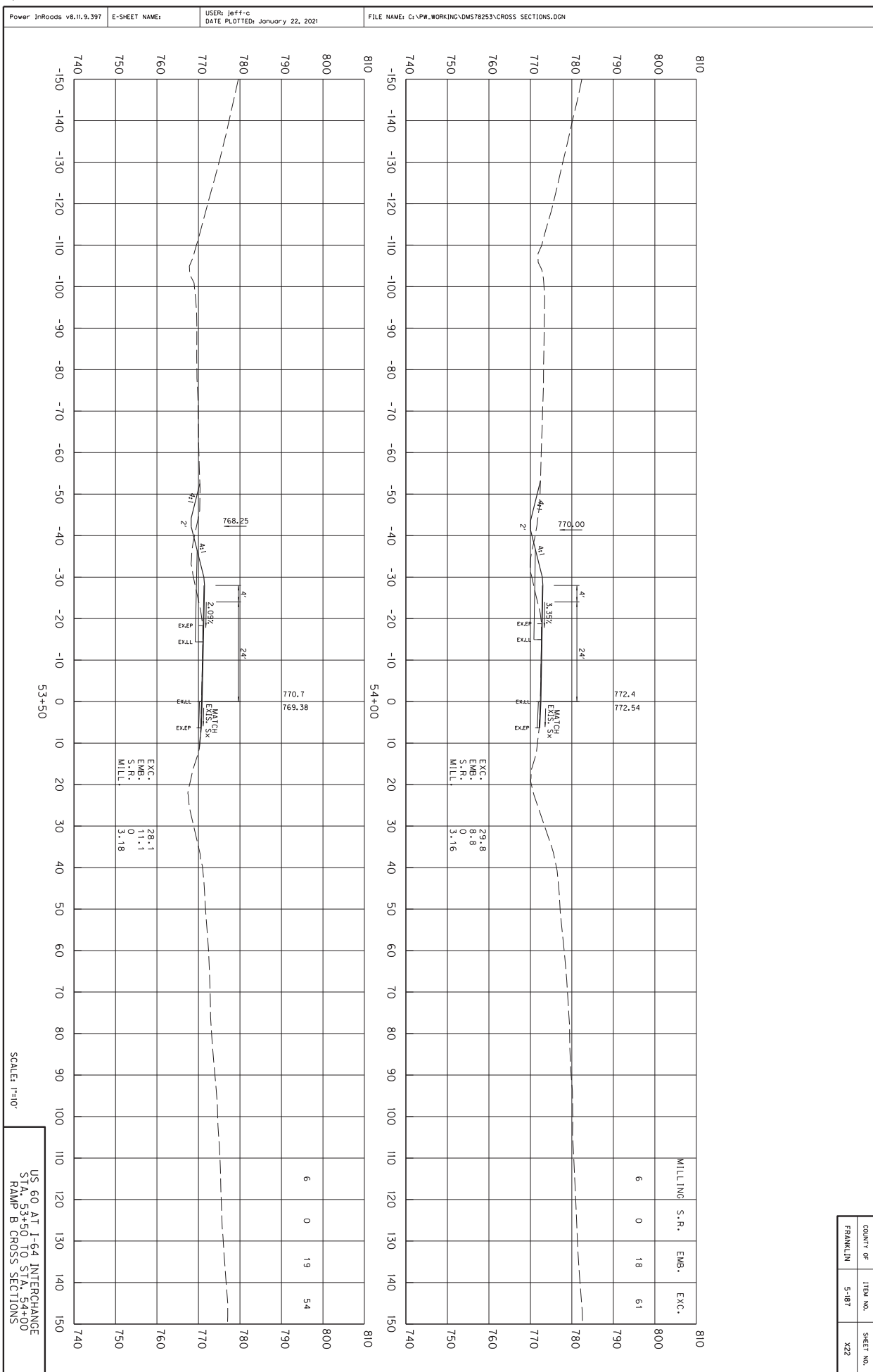


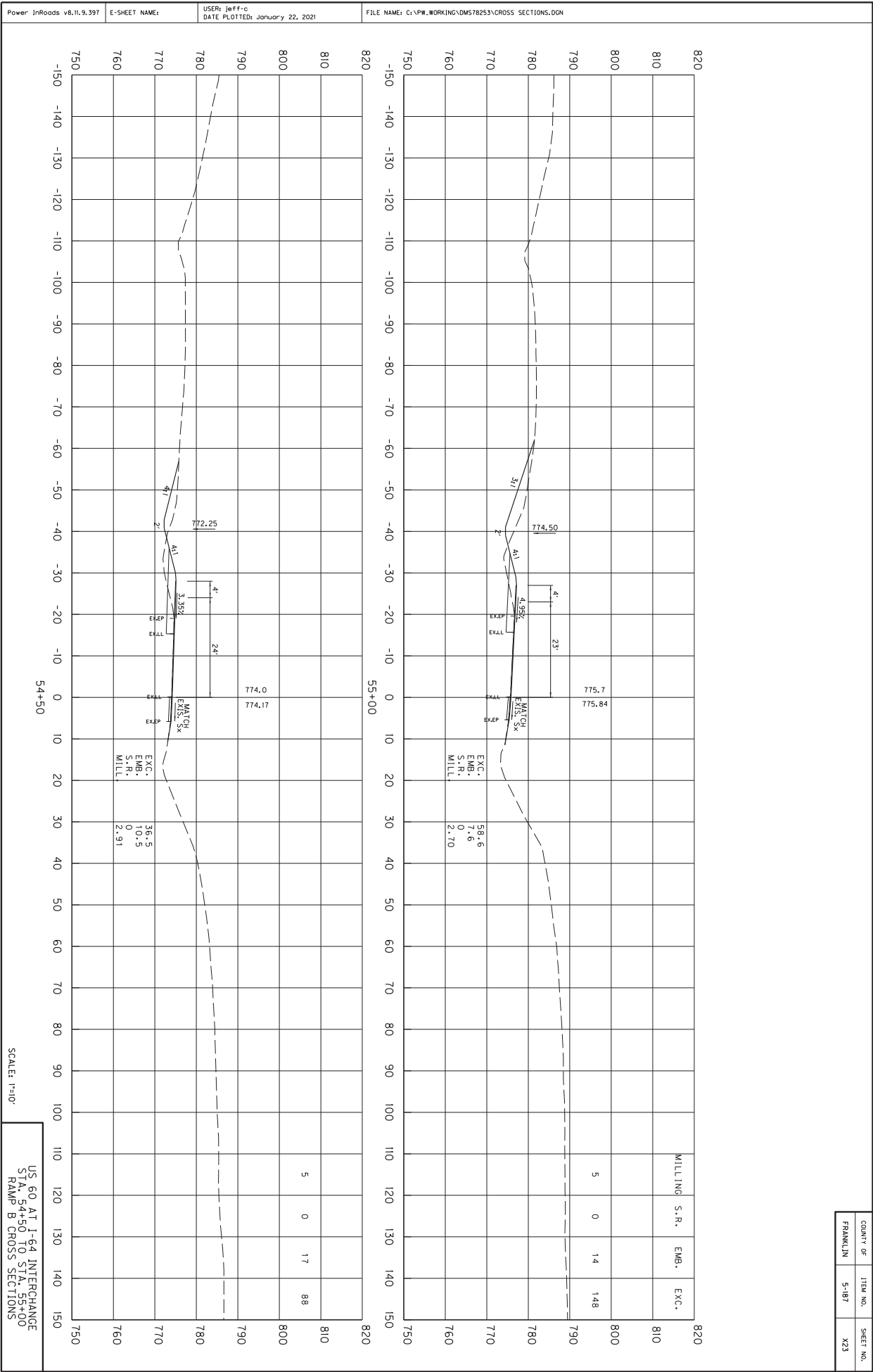


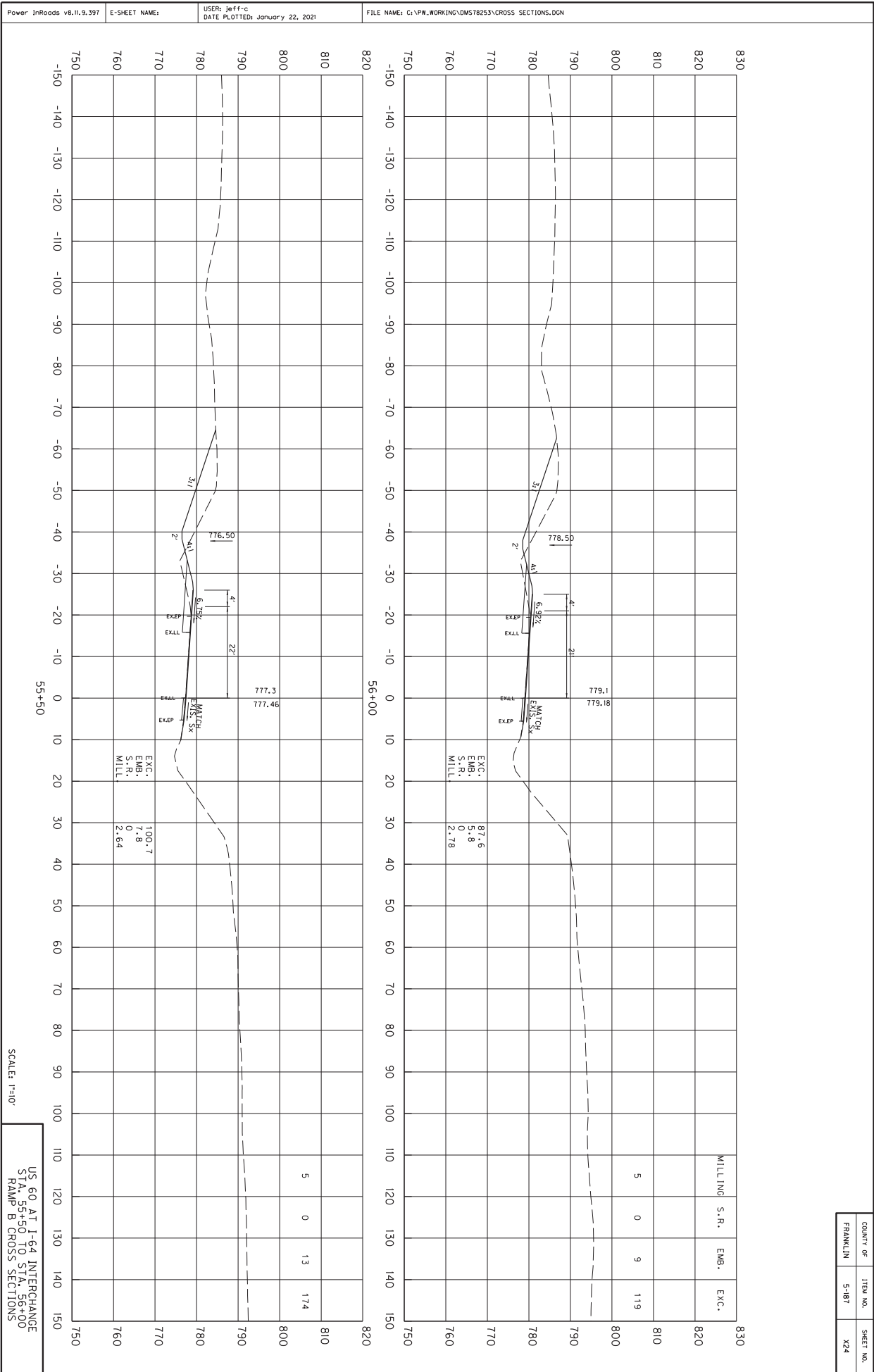


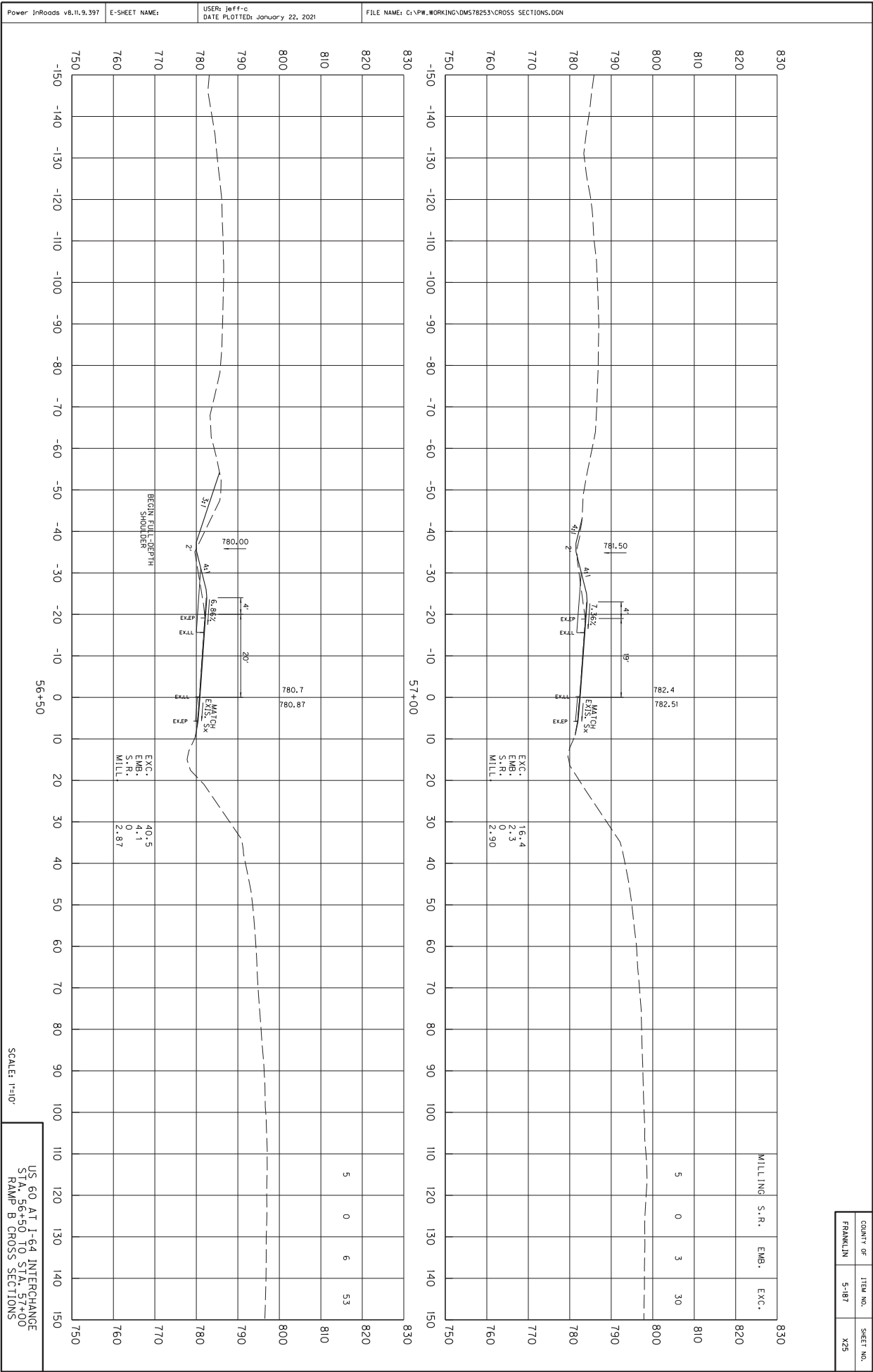






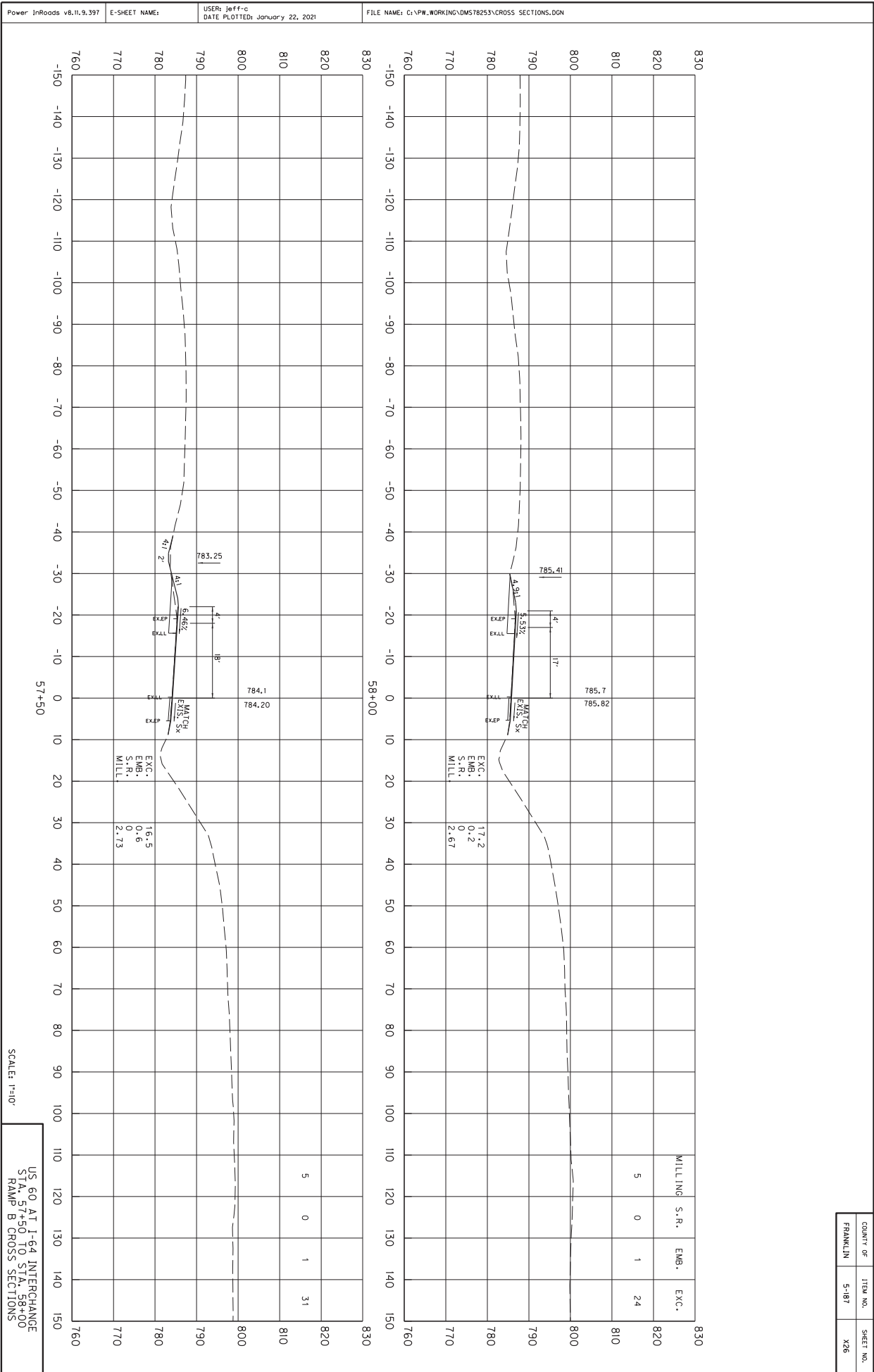




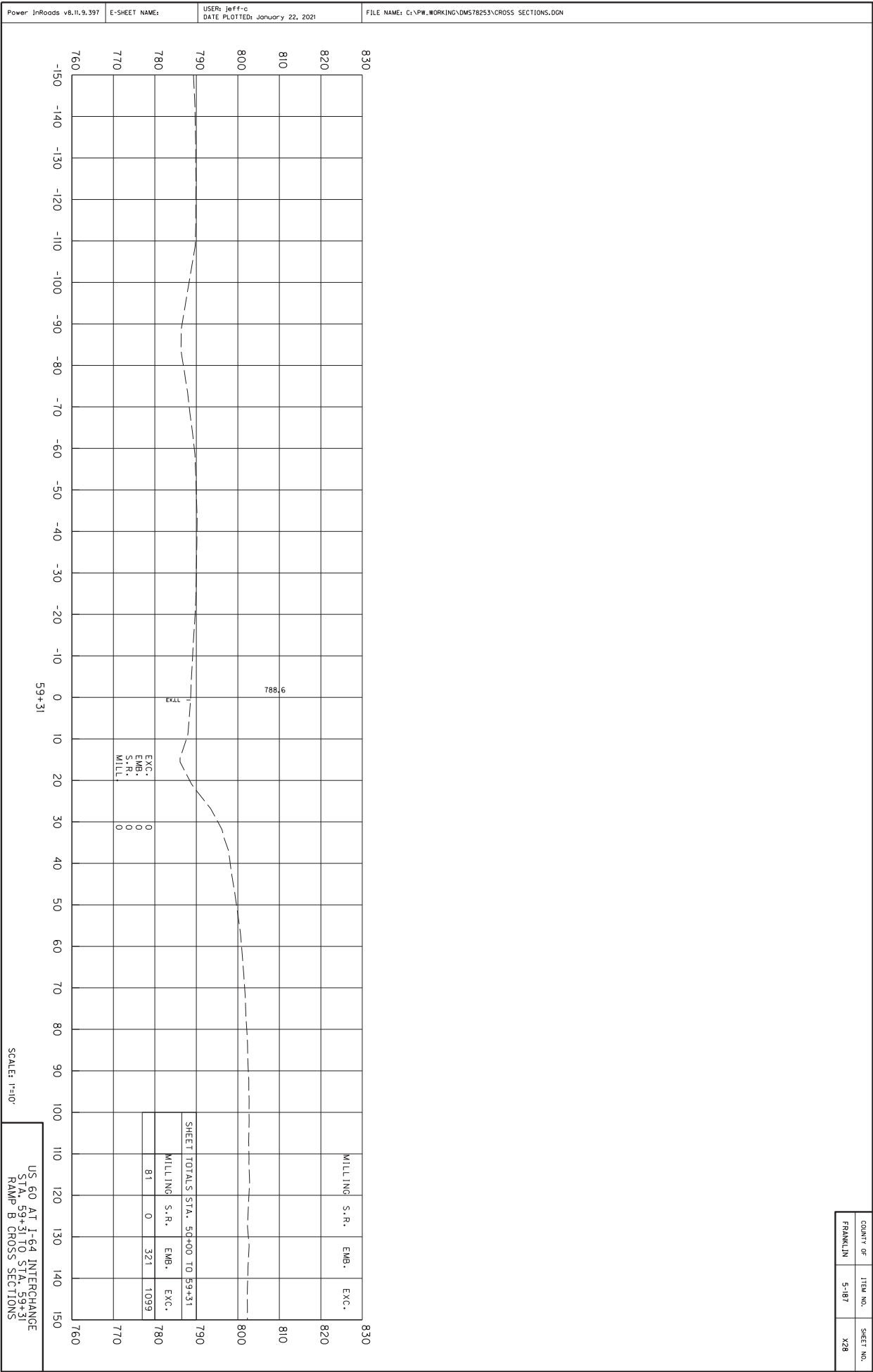


57+00

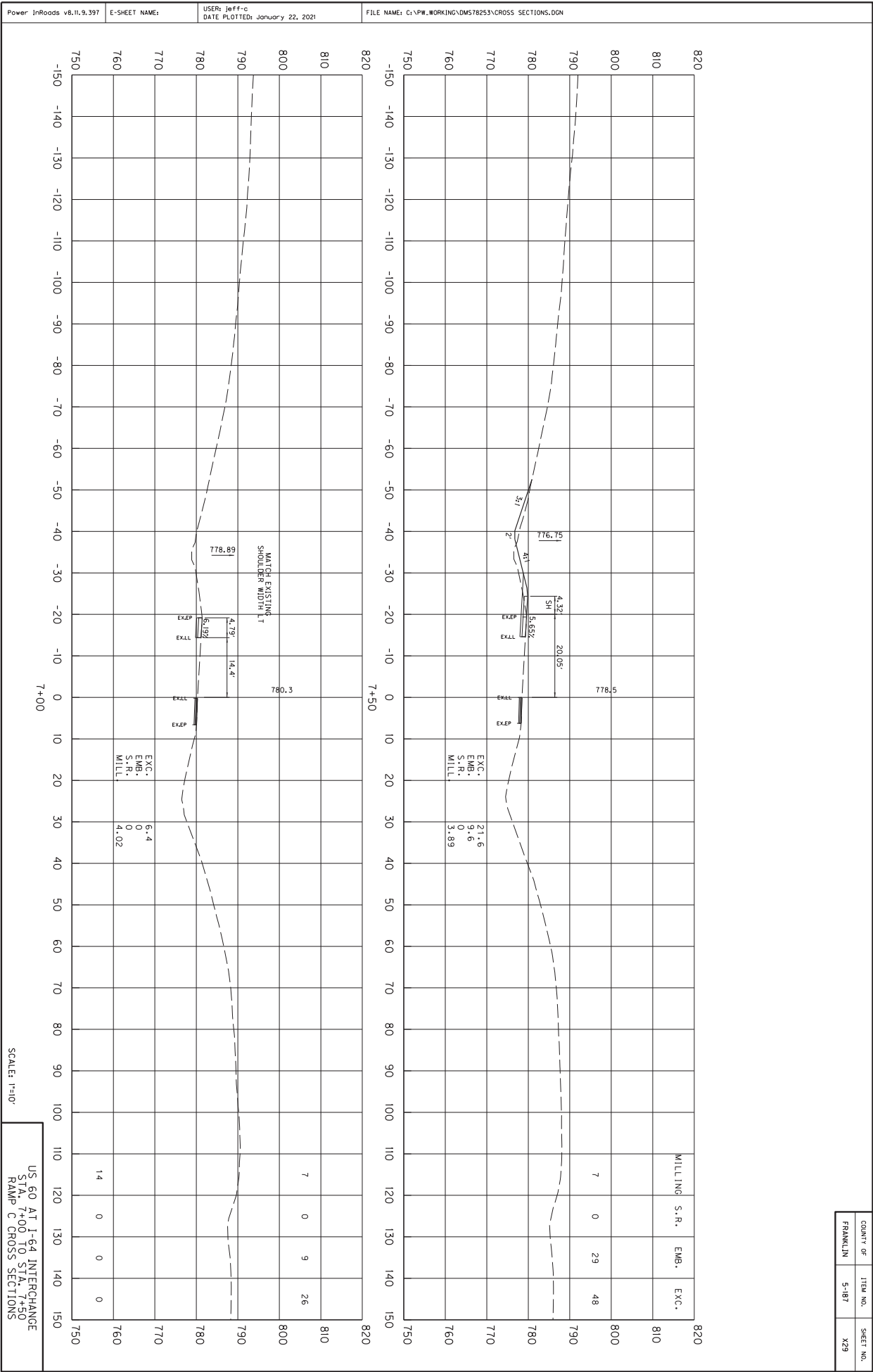
56+50











[illegible]

Power InRoads v8.11.9.397	E-SHEET NAME:	USER: jeff-c DATE PLOTTED: January 22, 2021	FILE NAME: C:\PW\WORKING\DMS78253\CROSS SECTIONS.DGN
---------------------------	---------------	--	--



US 60 AT I-64 INTERCHANGE  
STA. 9+00 TO STA. 9+50  
RAMP C CROSS SECTIONS

Power: J:\Roads v8.11.9.397 E-SHEET NAME: USER: jeff-c DATE PLOTTED: January 22, 2021 FILE NAME: C:\PIR\_WORKING\DM578253\CROSS SECTIONS.DGN

Diagram 1 (Top):

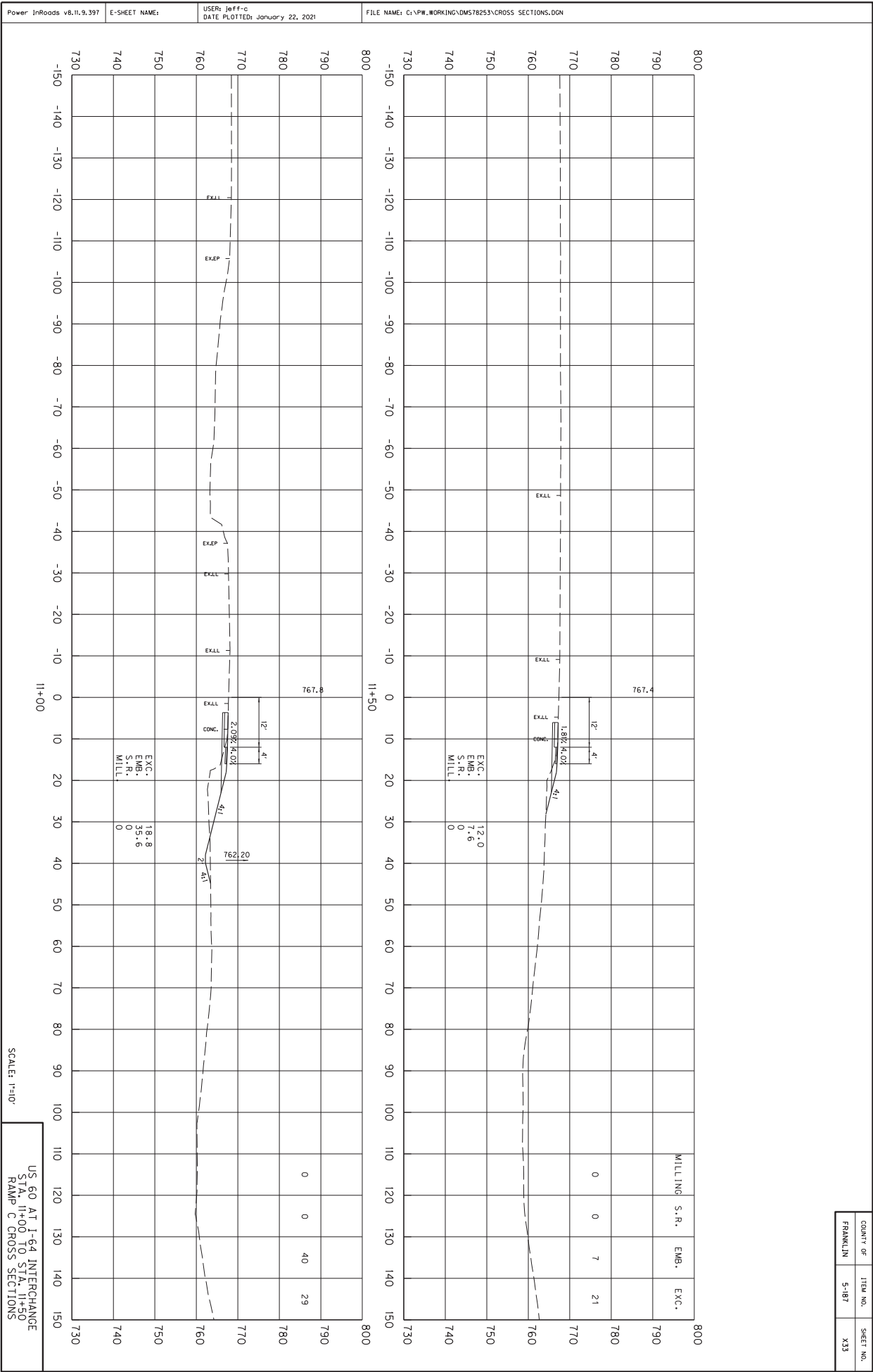
Station	Existing Elevation	Proposed Elevation
-150	770.00	770.00
-100	770.00	770.00
-50	770.00	770.00
0	769.6	769.6
50	766.59	766.59
100	766.59	766.59
150	766.59	766.59

Diagram 2 (Bottom):

Station	Existing Elevation	Proposed Elevation	Milling	S.R.	EMB.	EXC.
-150	770.00	770.00	0	0	23	130
-100	770.00	770.00	0	0	23	130
-50	770.00	770.00	0	0	23	130
0	769.6	769.6	0	0	23	130
50	766.59	766.59	0	0	23	130
100	766.59	766.59	0	0	23	130
150	766.59	766.59	0	0	23	130

SCALE: 1"=10'

US 60 AT I-64 INTERCHANGE  
STA. 10+00 TO STA. 10+50  
RAMP C CROSS SECTIONS



COUNTY OF	ITEM NO.	SHEET NO.
FRANKLIN	5-187	X34

FILE NAME: C:\PW\WORKING\DM578253\CROSS SECTIONS.DGN

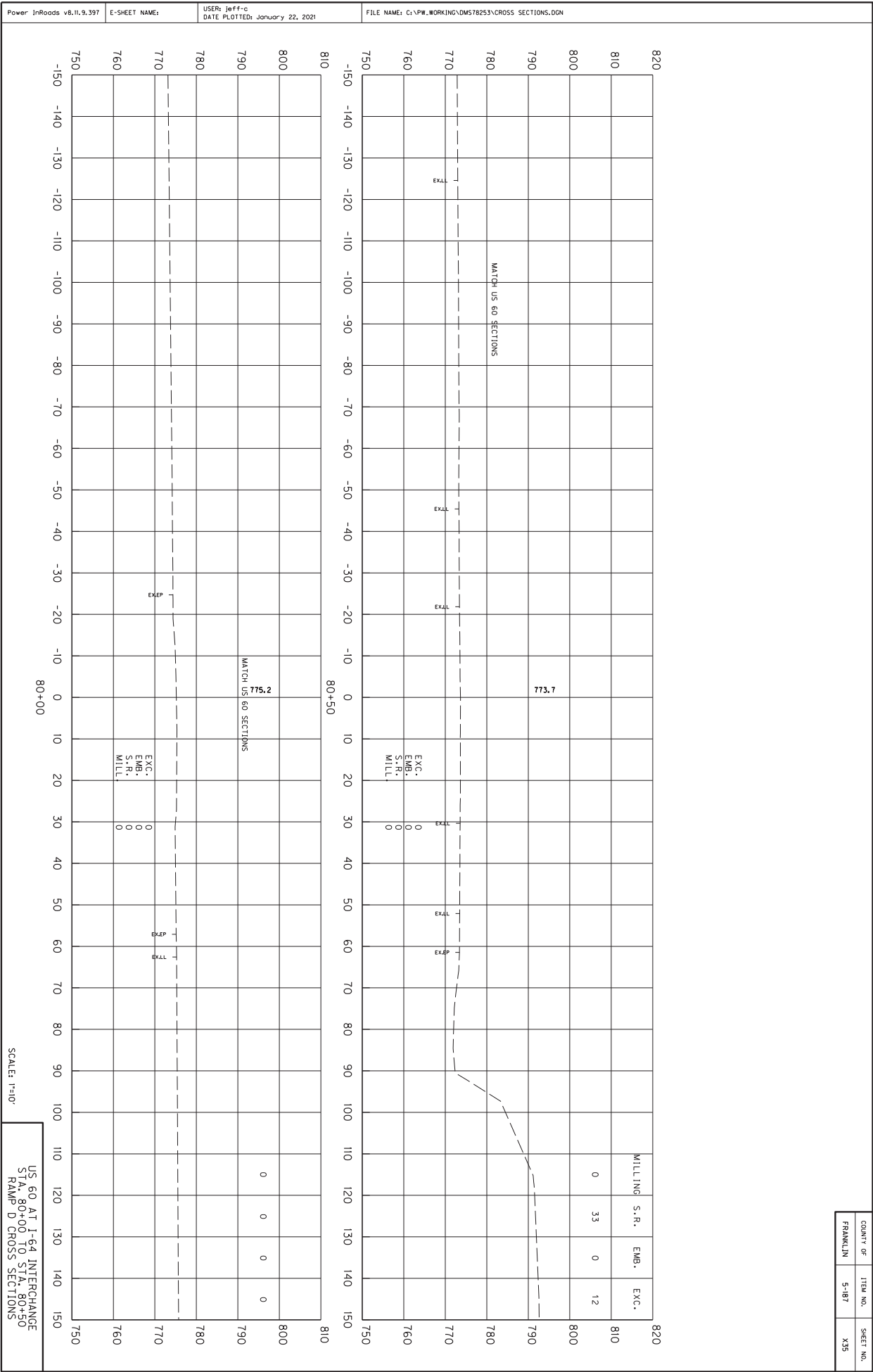
USER: jeff-c  
DATE PLOTTED: January 22, 2021

E-SHEET NAME:

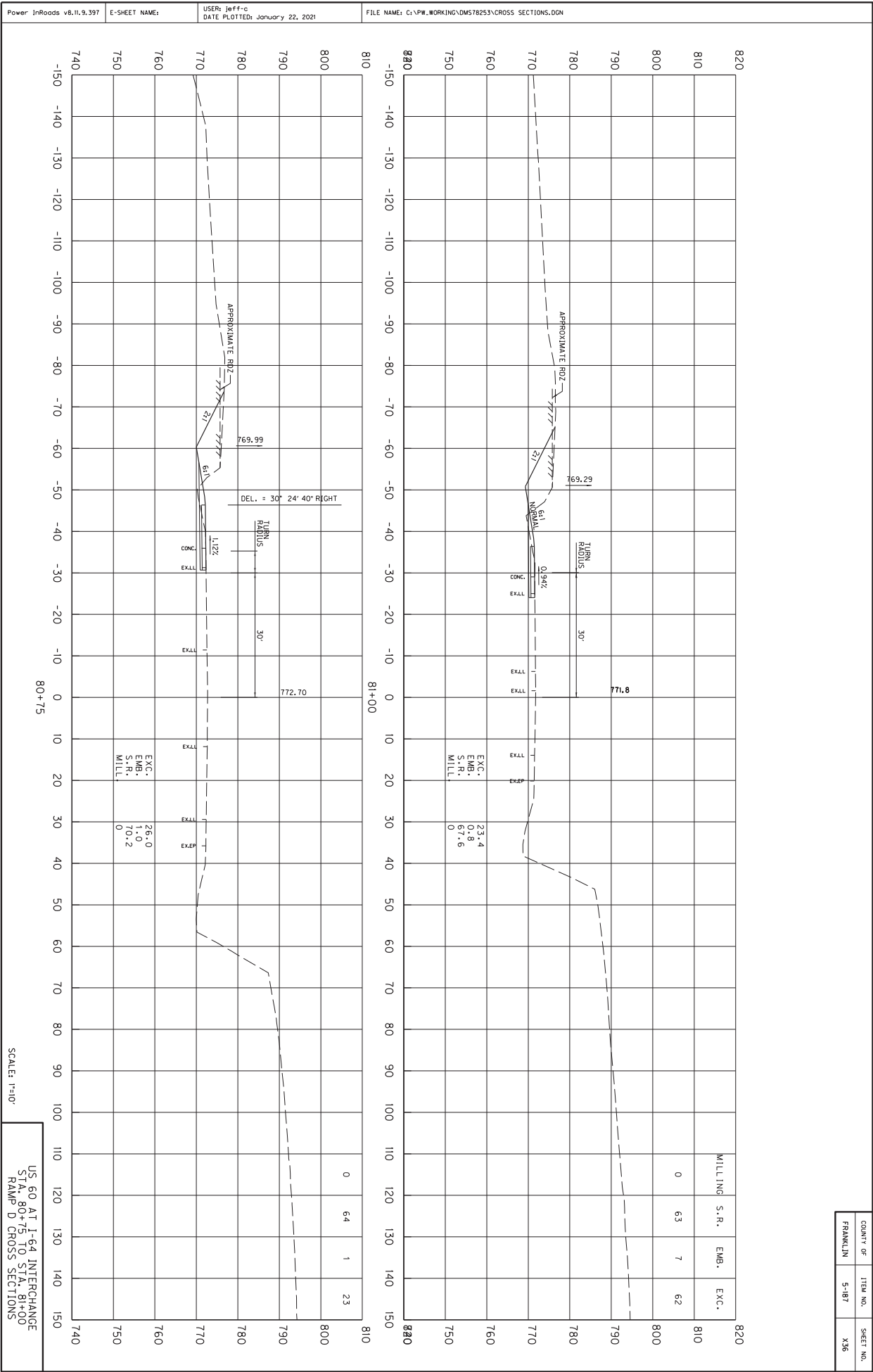
Power InRoads v8.11.9.397

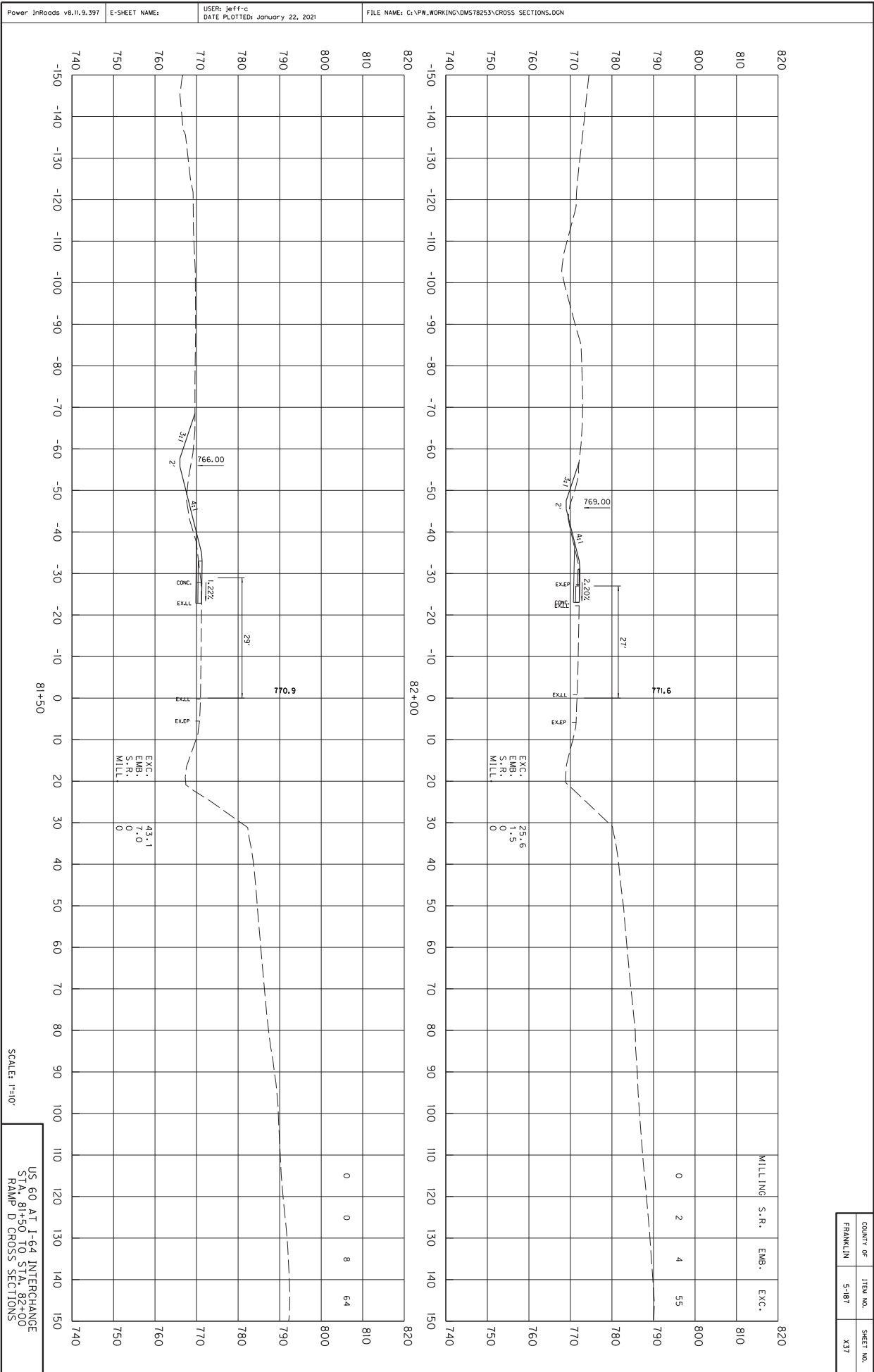
US 60 AT I-64 INTERCHANGE  
STA 12+00 TO STA 12+50  
RAMP C CROSS SECTIONS

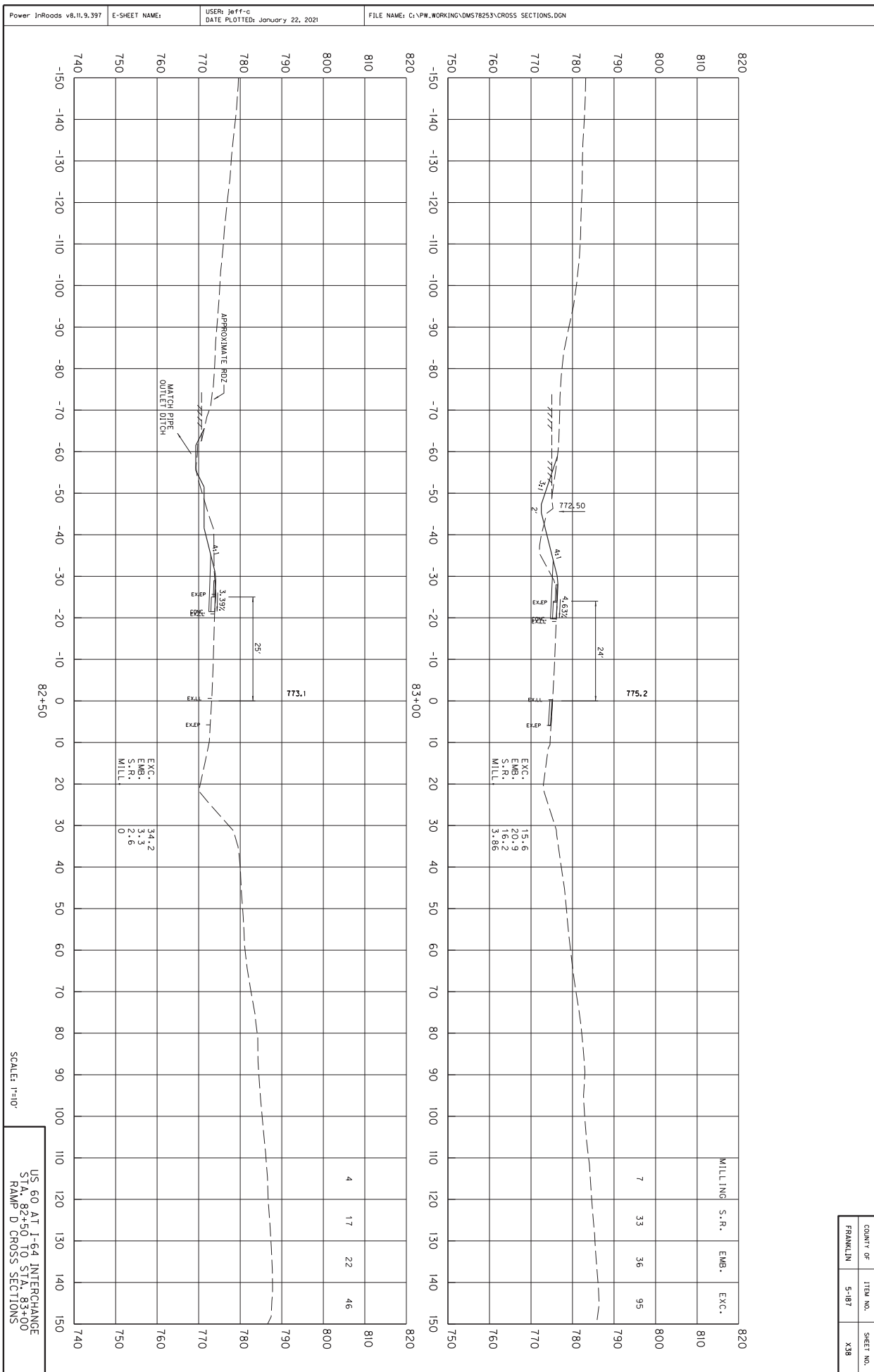
SCALE: 1"=10'

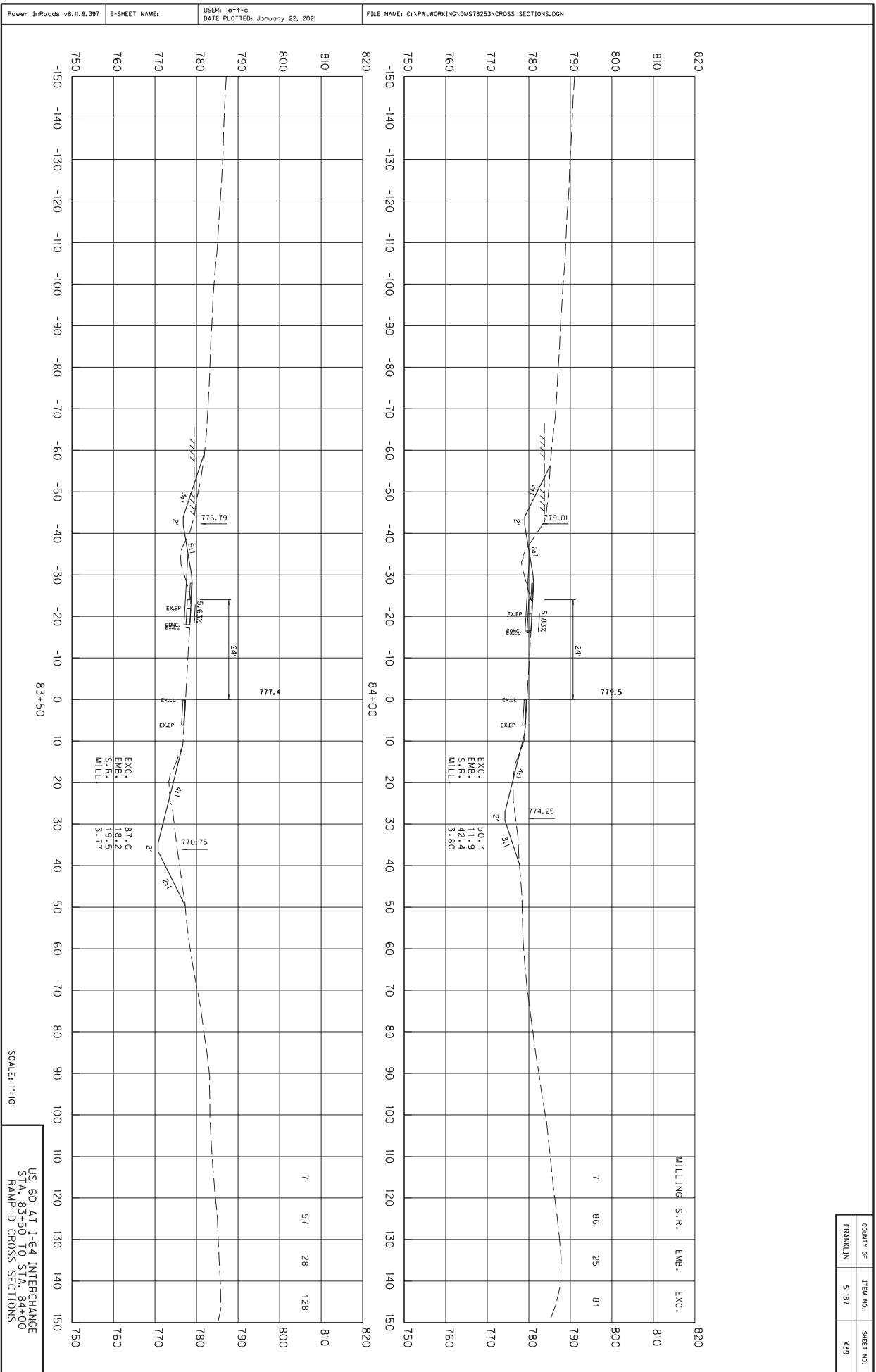


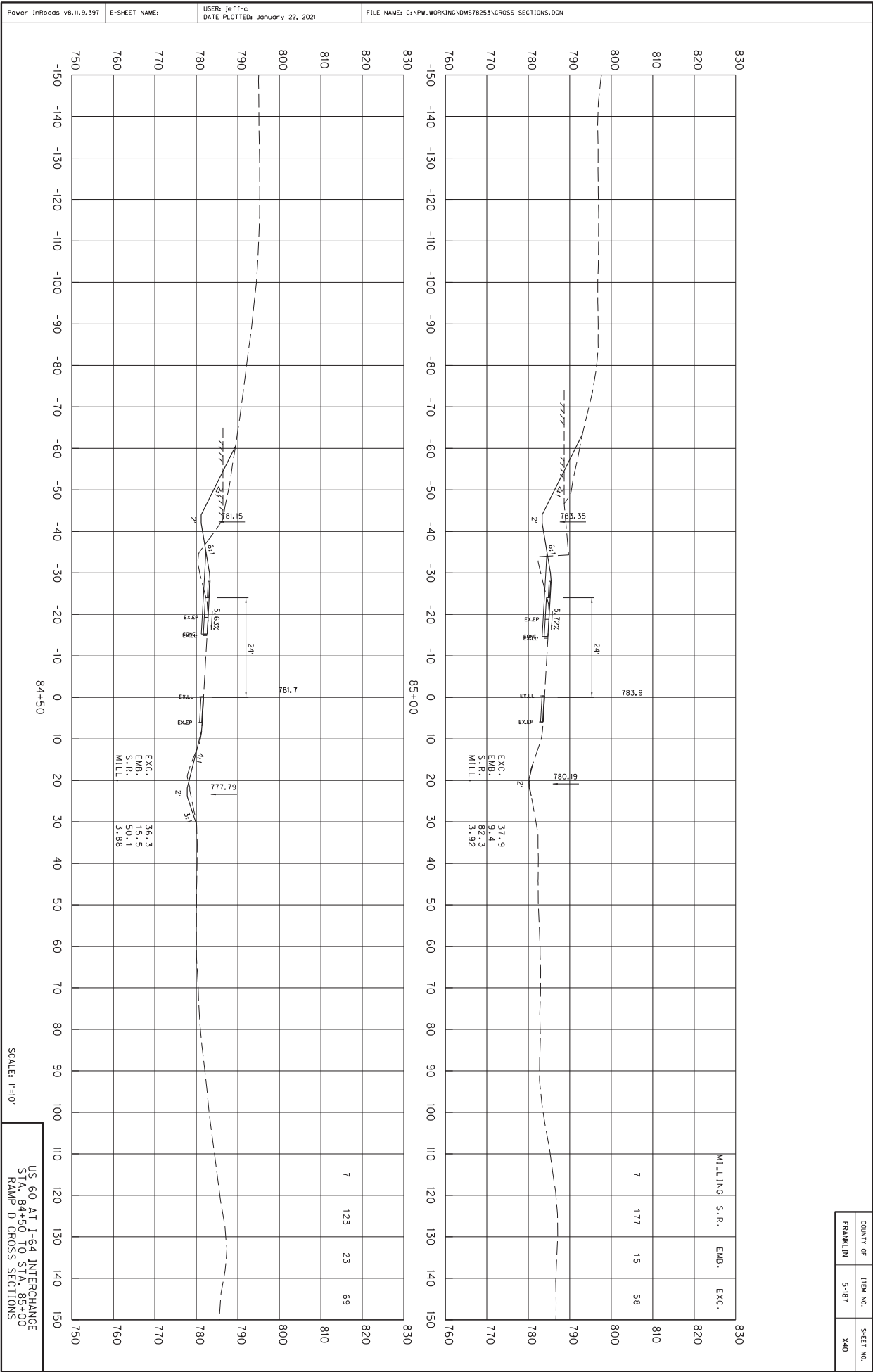




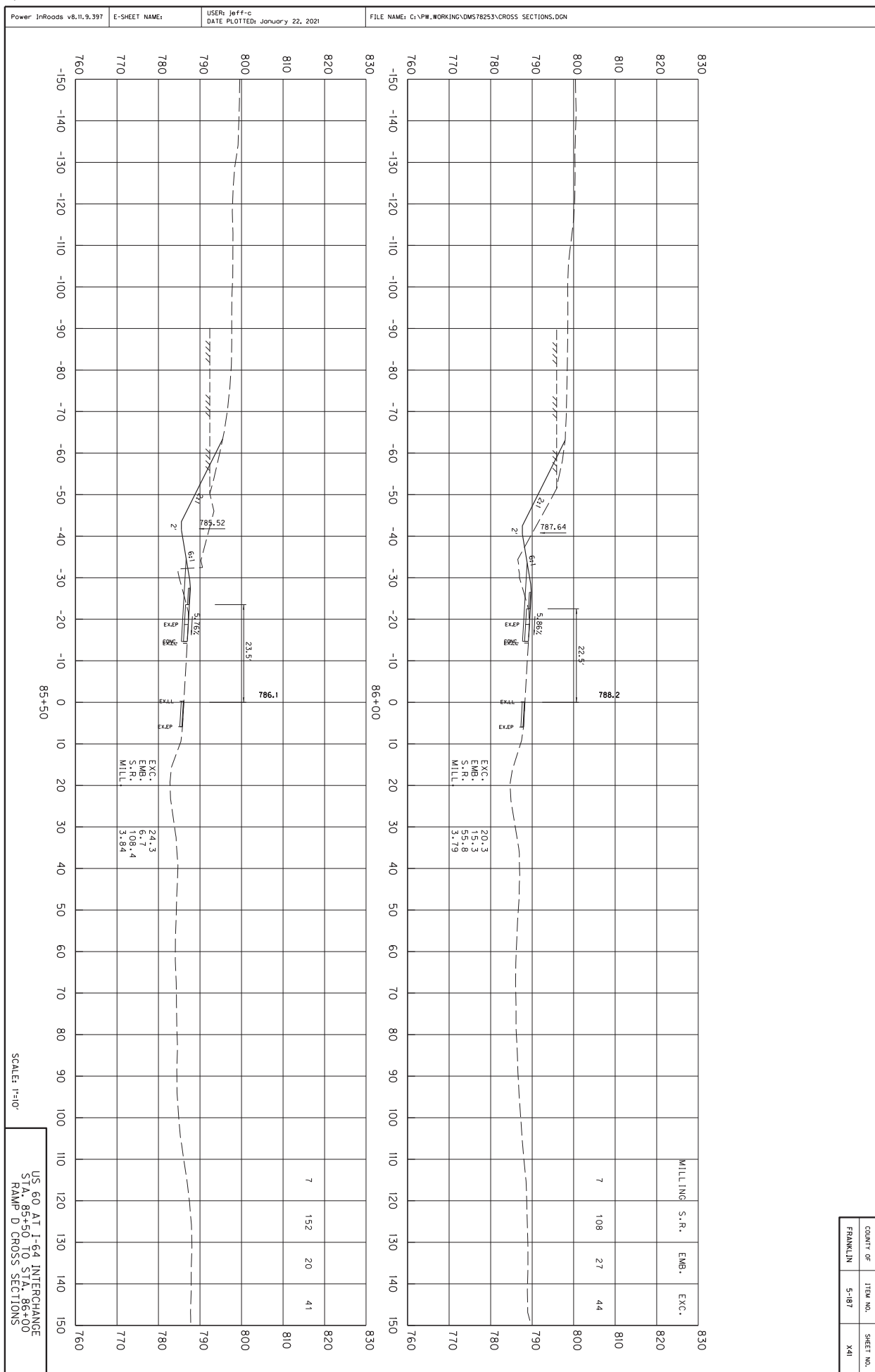


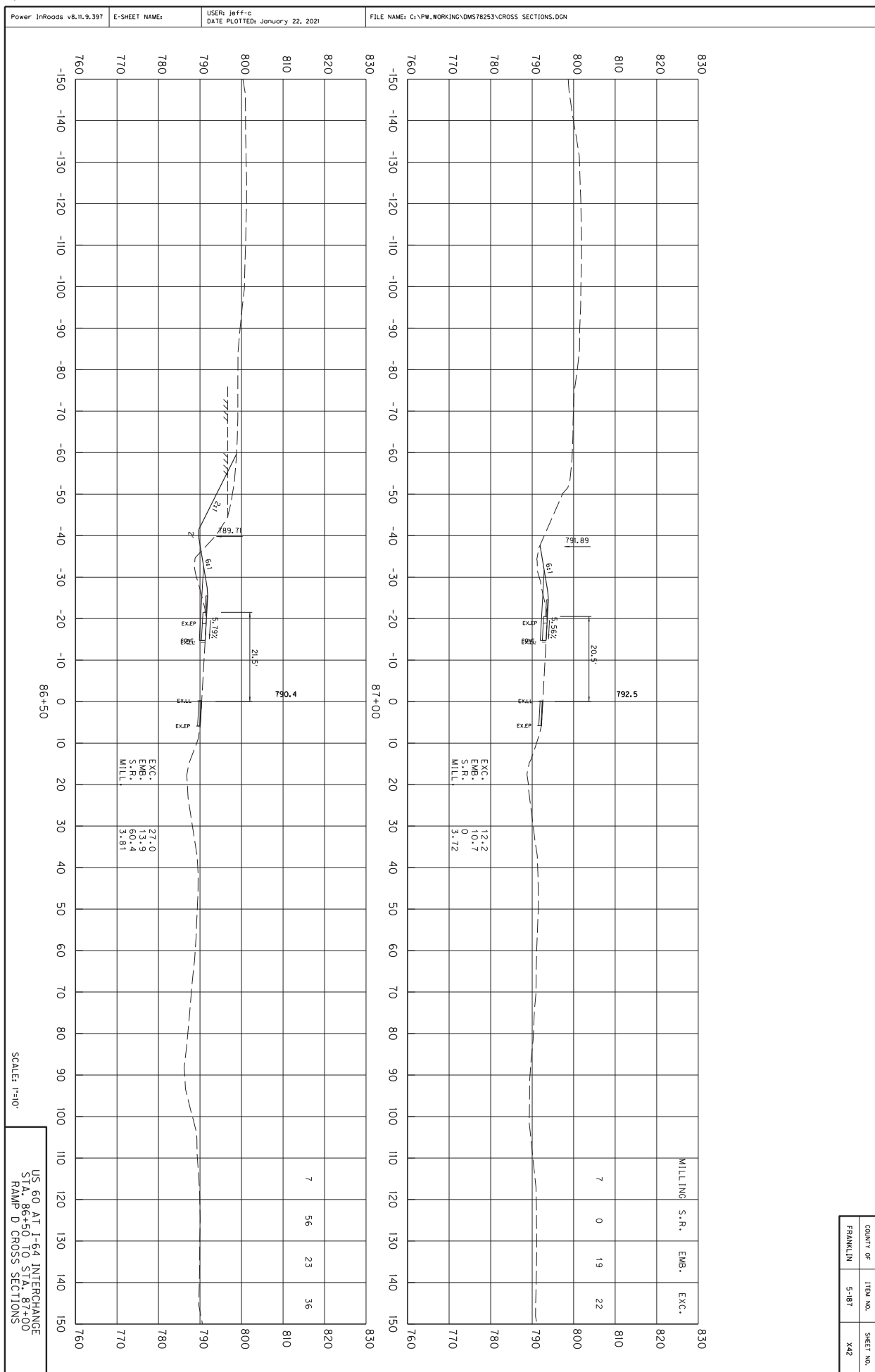




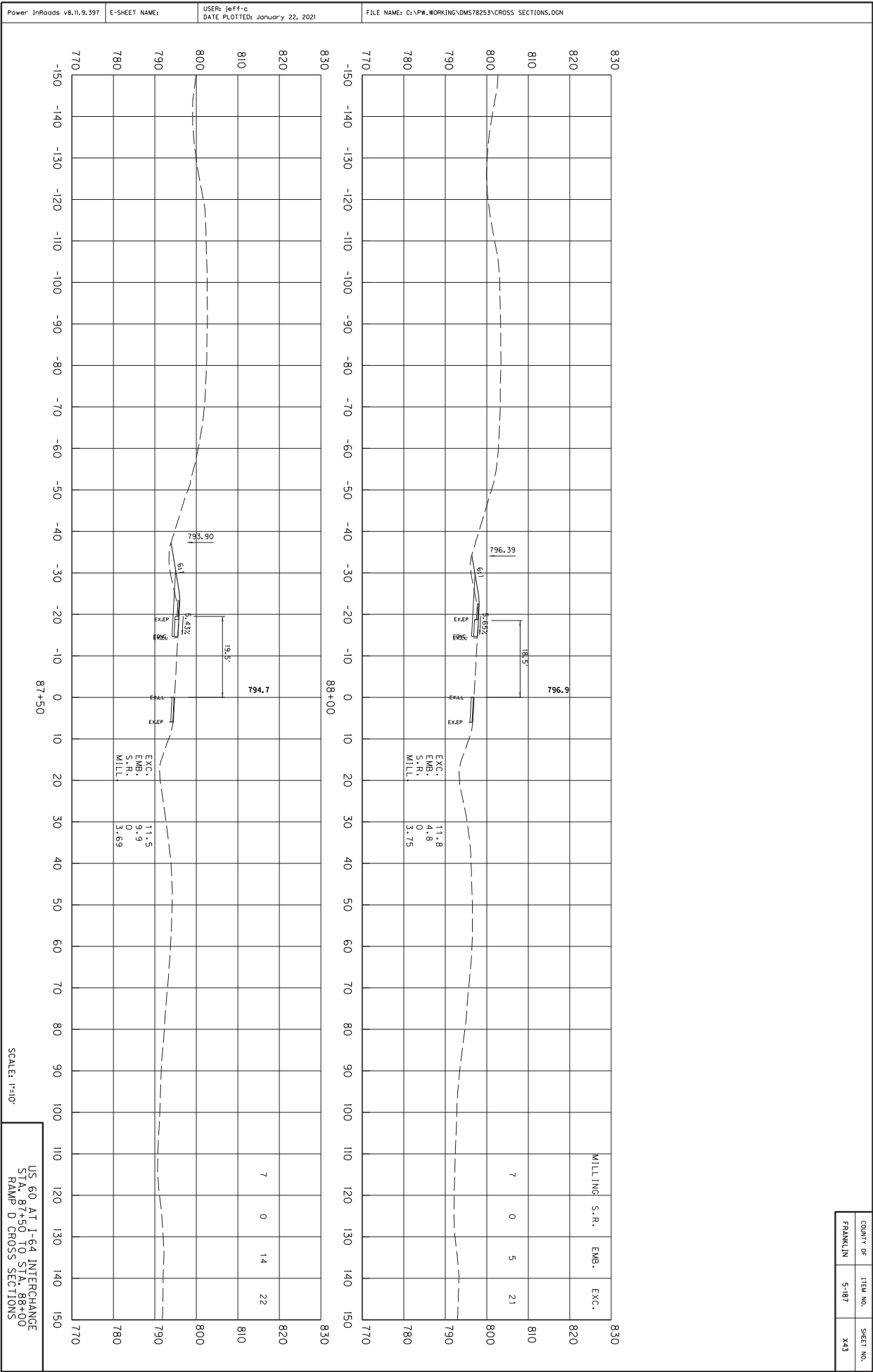


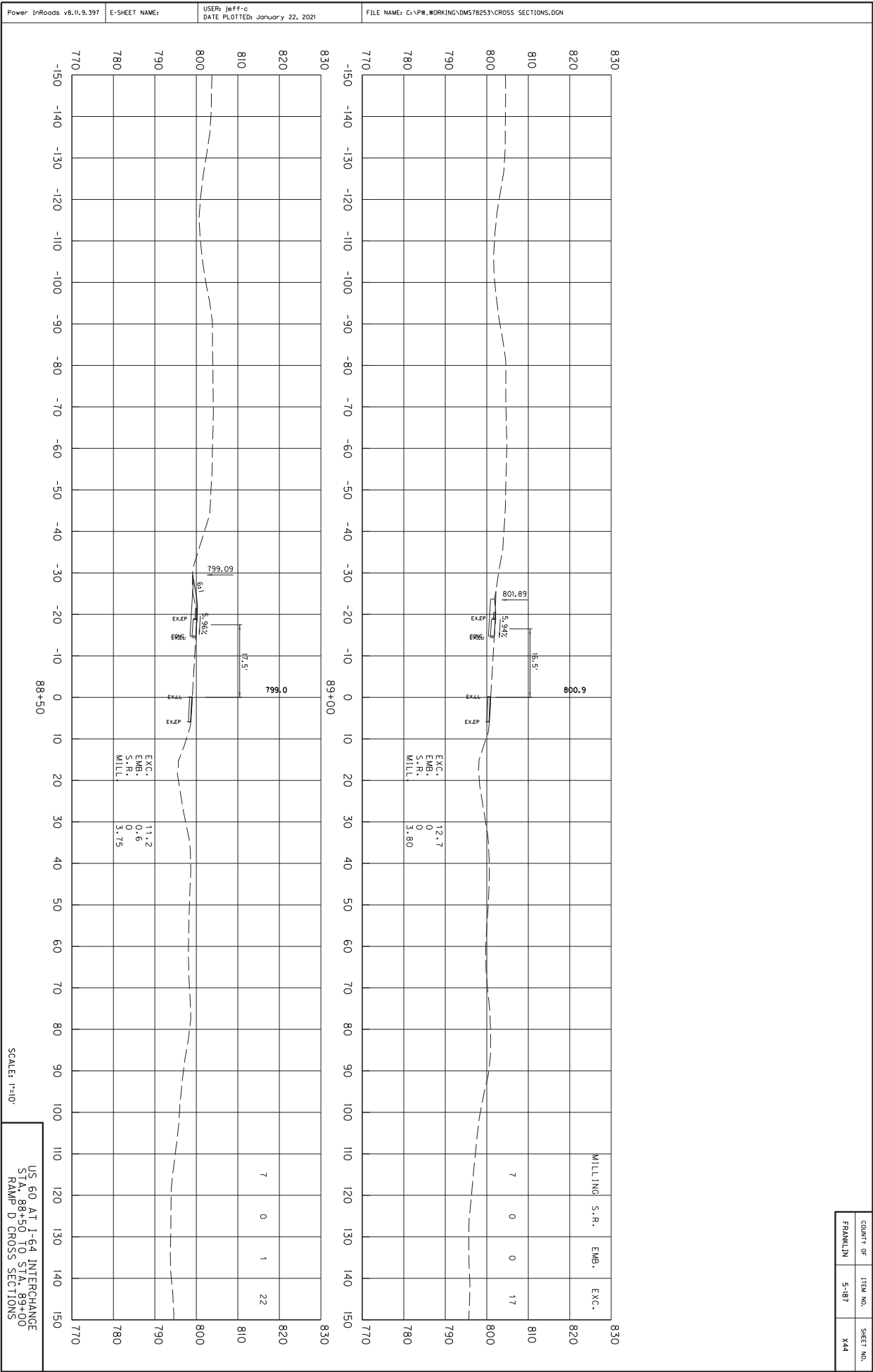
US 60 AT I-64 INTERCHANGE  
STA. 84+50 TO STA. 85+00  
RAMP D CROSS SECTIONS

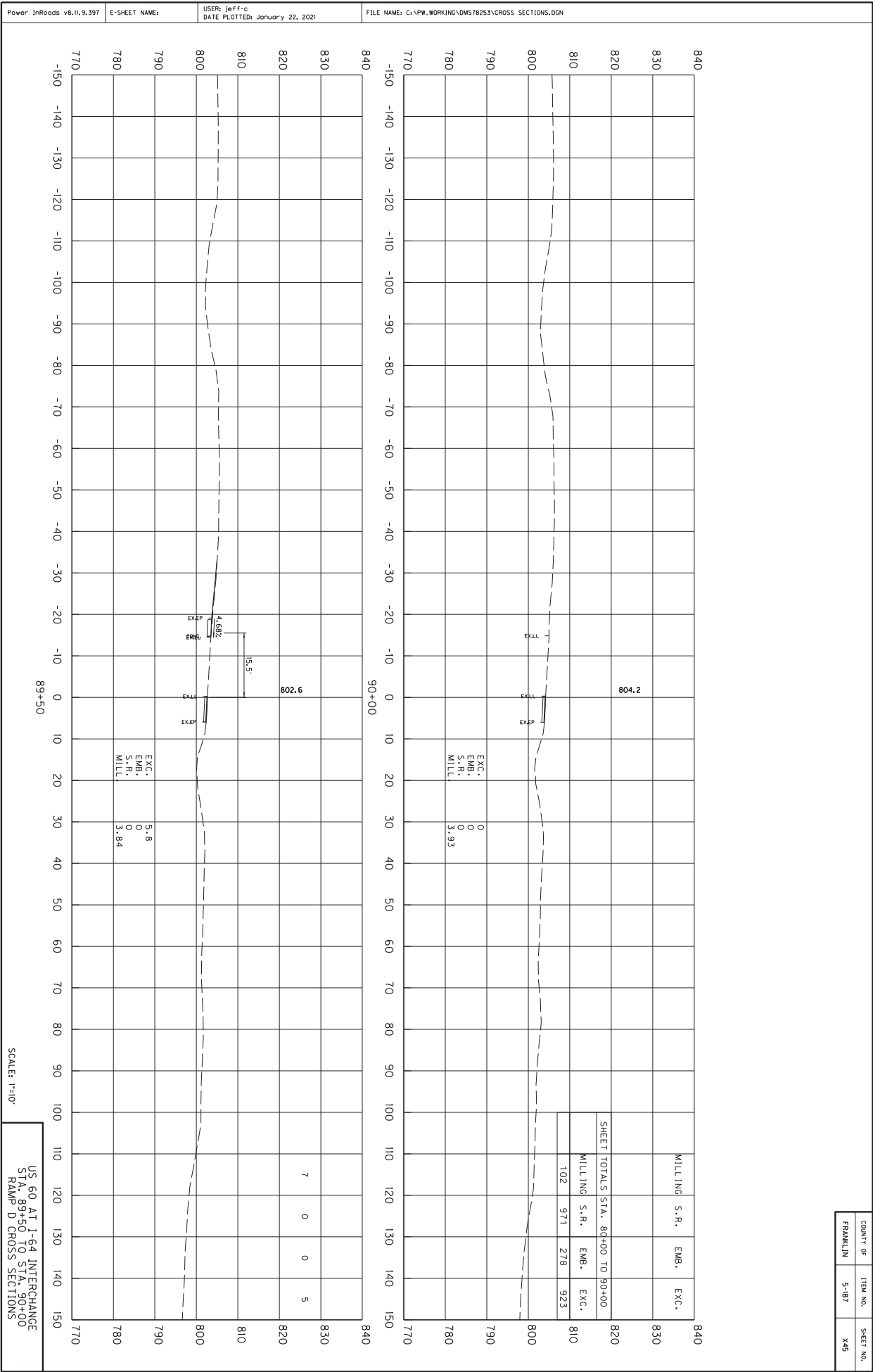


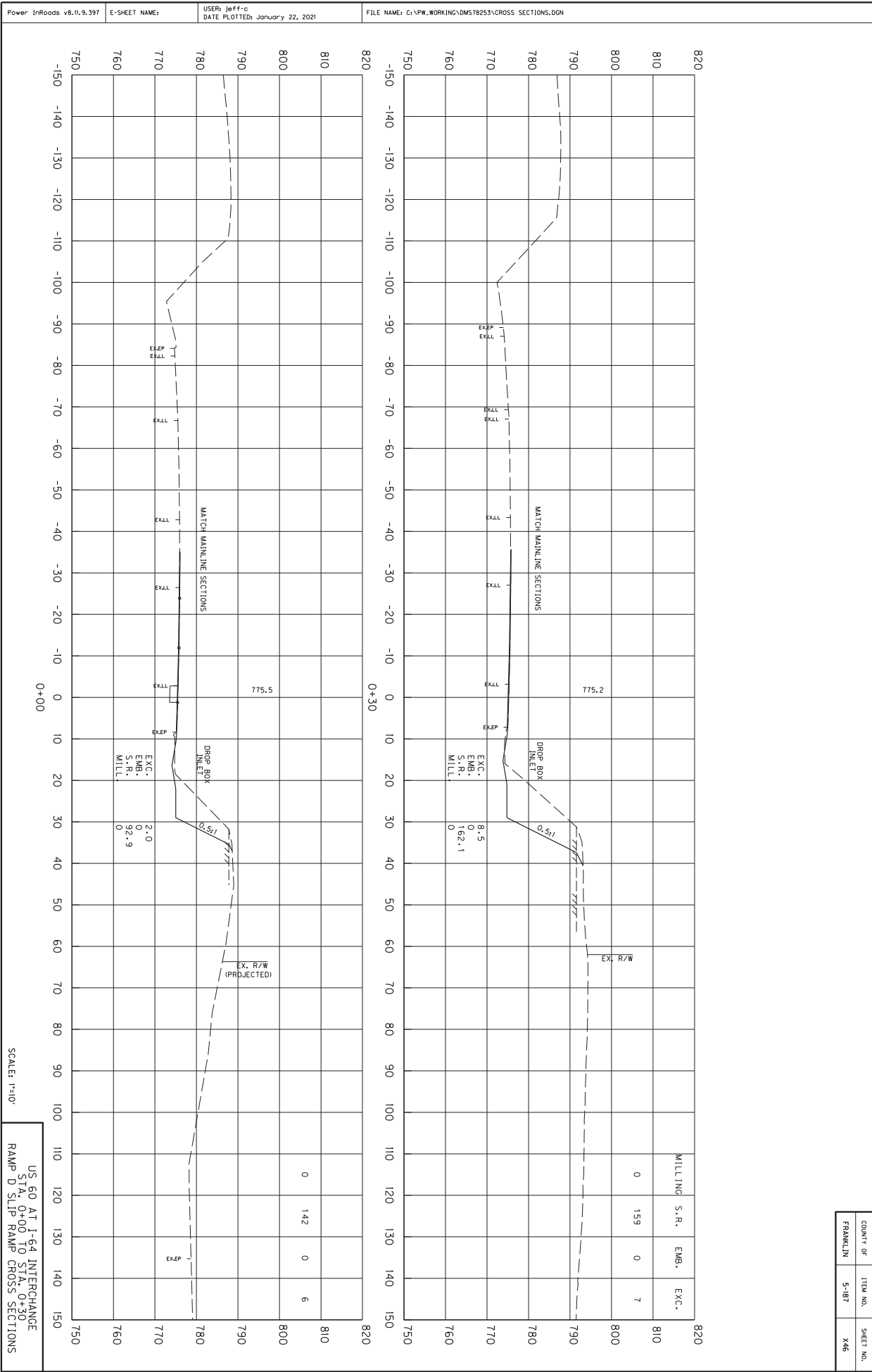


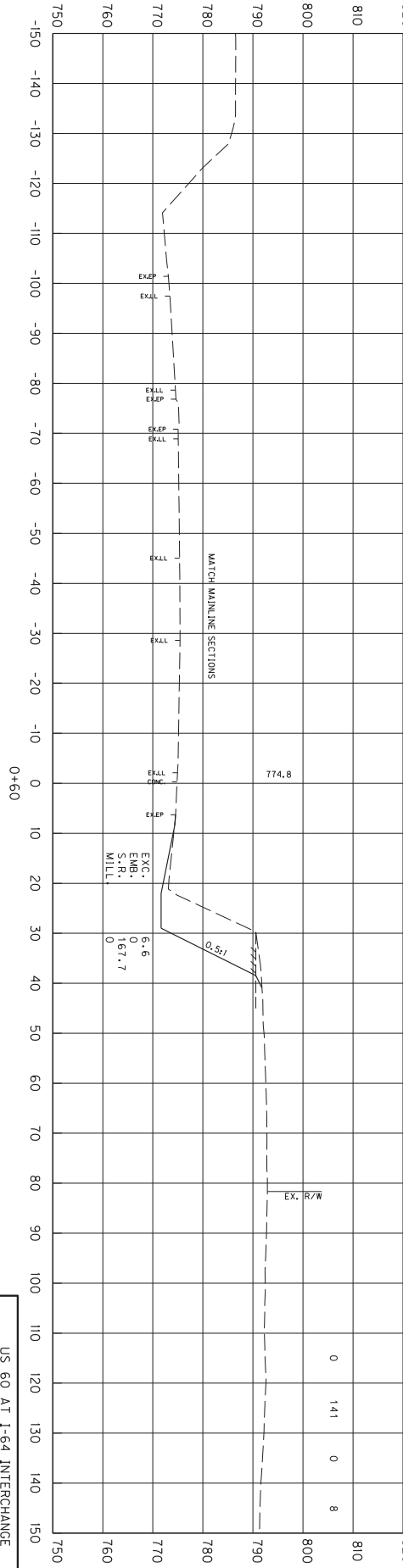
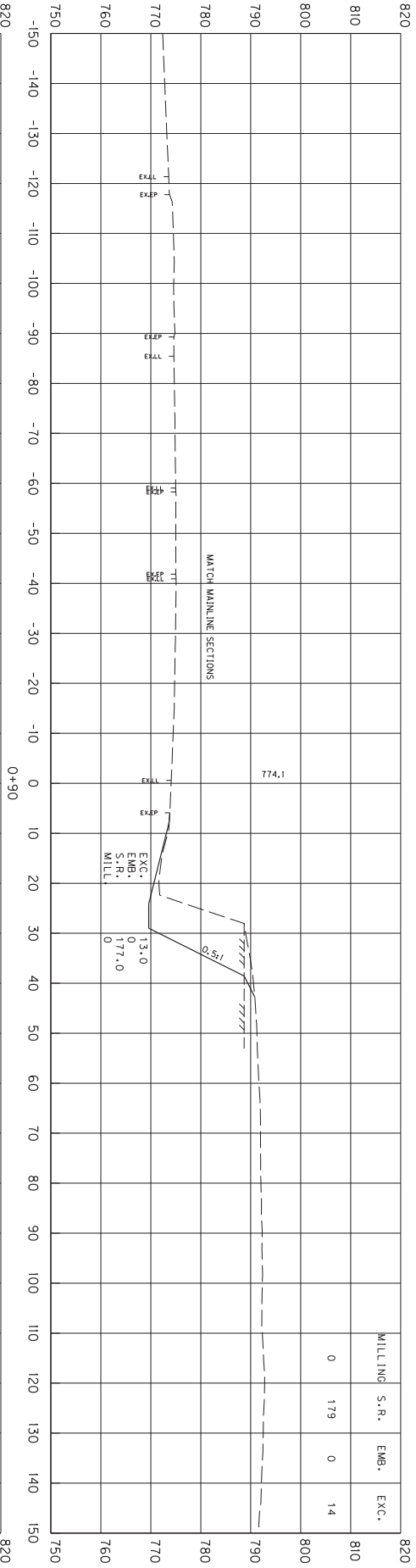
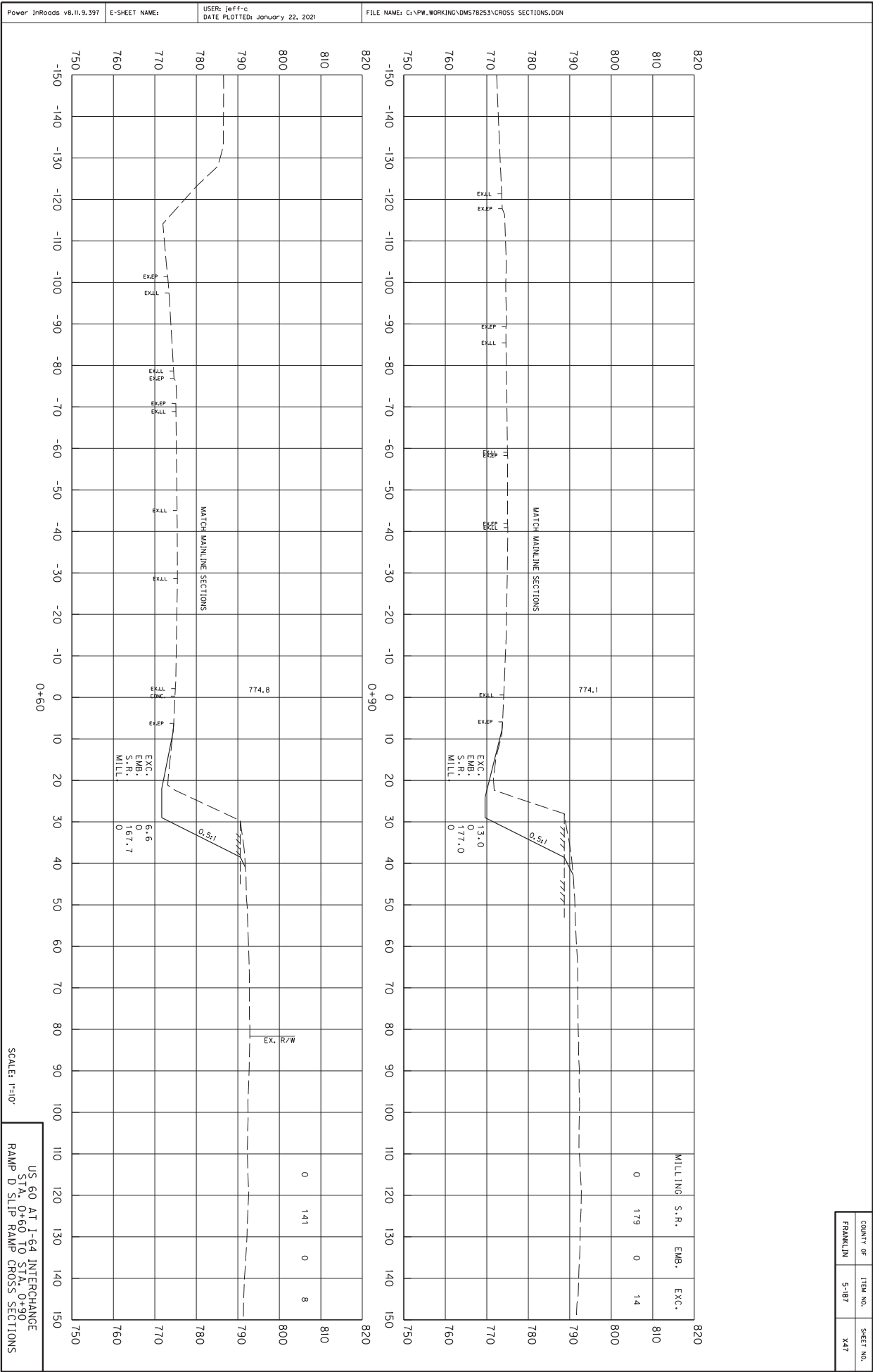


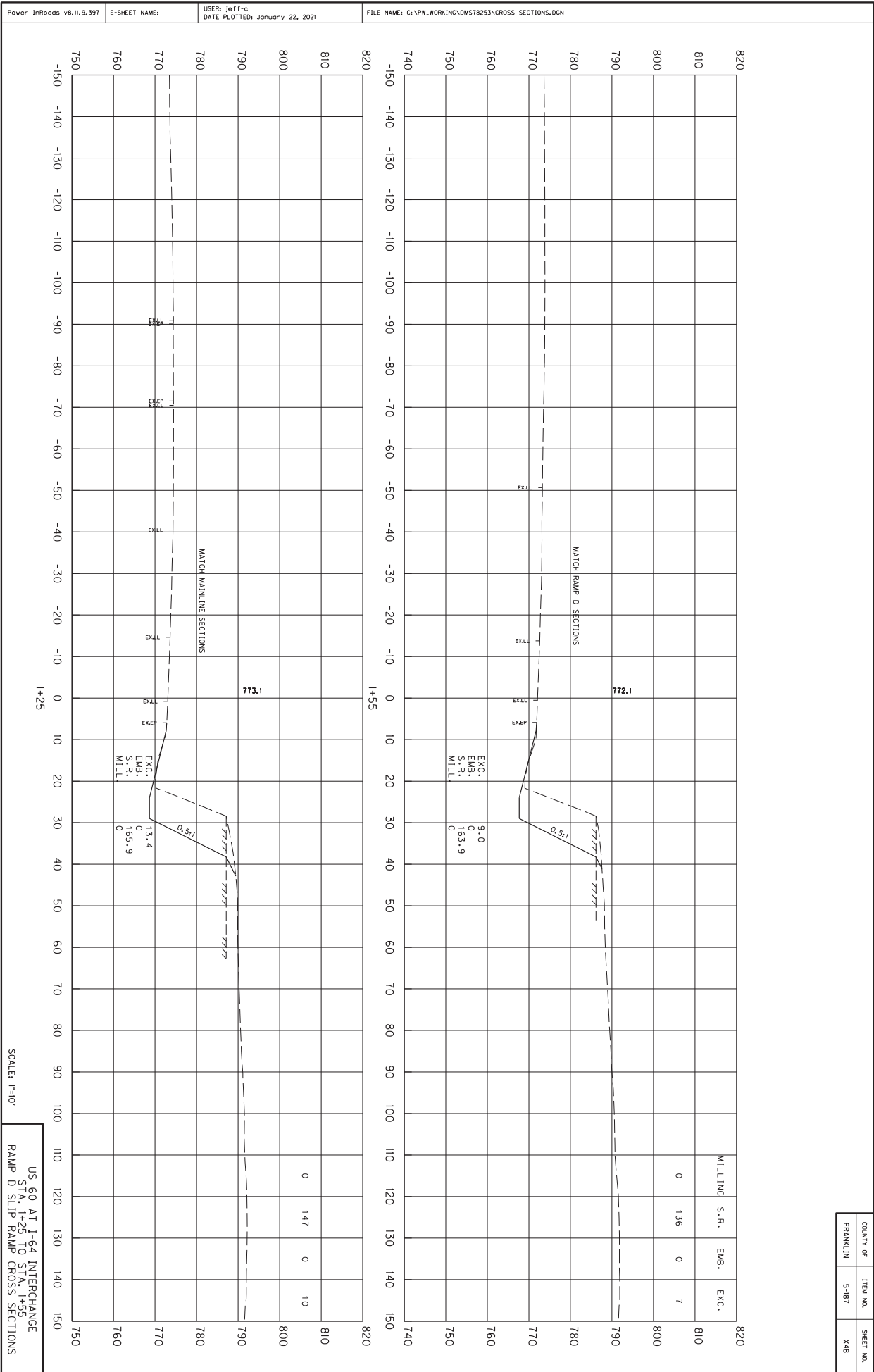






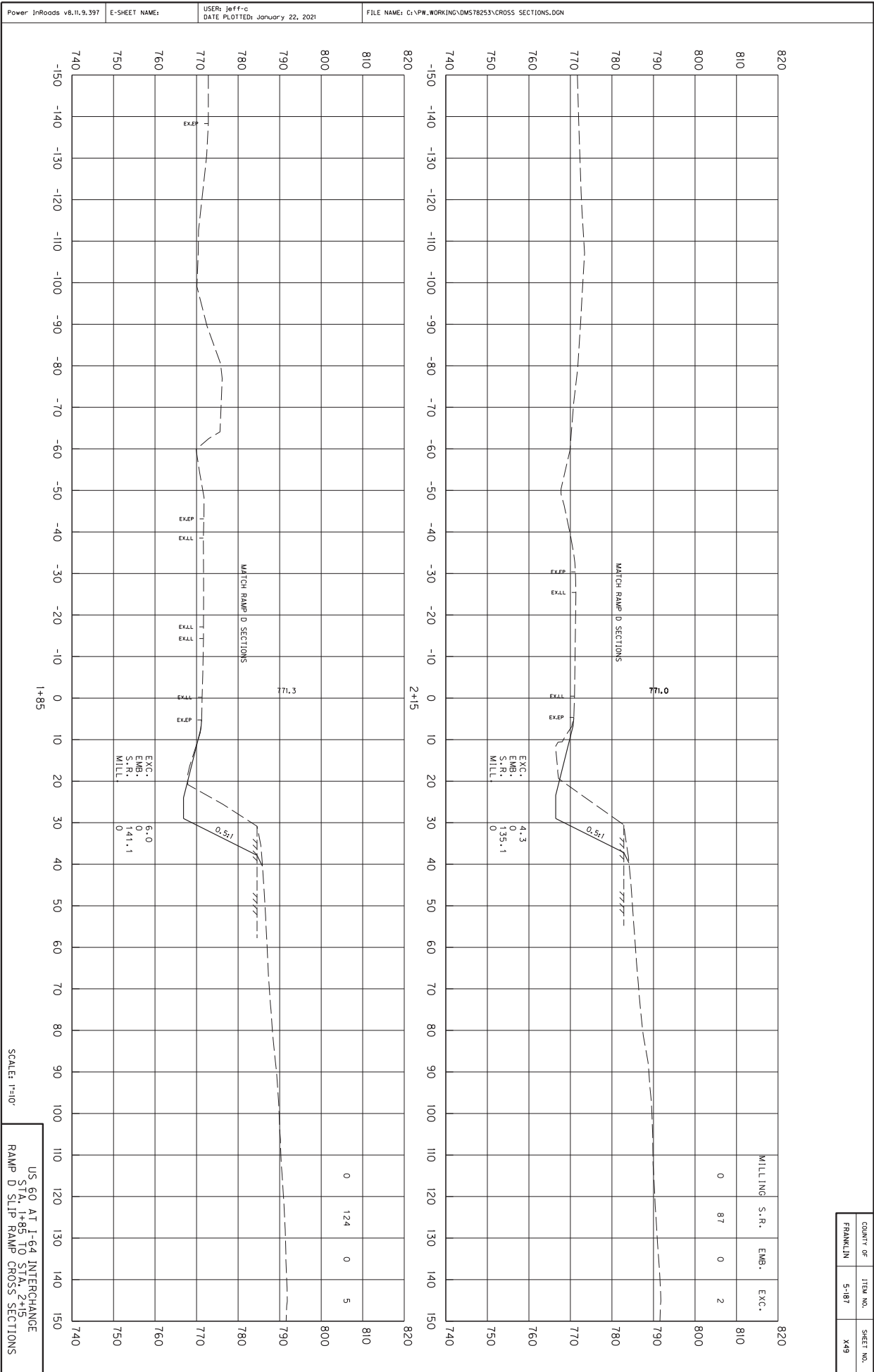






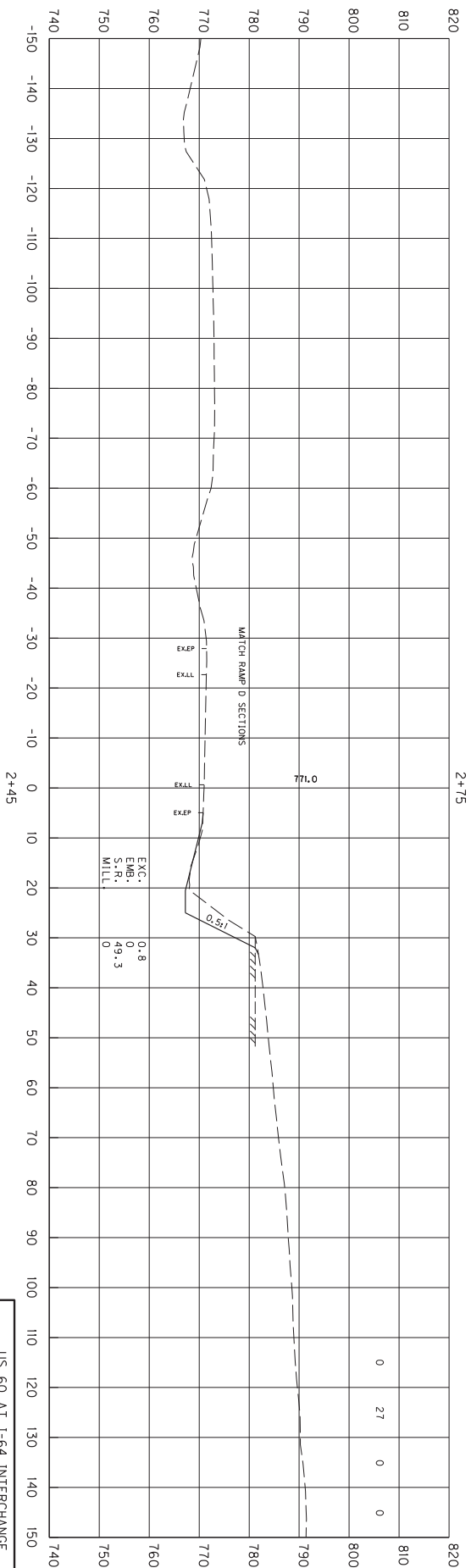
SCALE: 1"=10'

US 60 AT I-64 INTERCHANGE  
STA. 1+25 TO STA. 1+55  
RAMP D SLIP RAMP CROSS SECTIONS





	MILLING	S.R.	EMB.	EXC.
	SHEET TOTALS STA.		0+00 TO	2+75
	MILLING	S.R.	EMB.	EXC.
	0	1142	0	59



SCALE: 1"=10'

US 60 AT I-64 INTERCHANGE  
STA. 2+45 TO STA. 2+75  
RAMP D SLIP RAMP CROSS SECTIONS

Power: InRoads v8.11.5.397

E-SHEET NAME: T0010050

USER: charles.weitzel  
DATE PLOTTED: June 16, 2021

FILE NAME: C:\P\WORK\CHARLES.WEITZEL\01938529\ALL SIGNAL STANDARDS.DGN

3-8-2021

1-64  
WB RAMP  
TOTAL

50

1,300

530

4

1

12

8

2

1

19

80

1

2

1-64  
EB RAMP  
TOTAL

50

1,000

600

4

1

12

6

2

1

19

80

1

2

TOTAL

100

2,300

1,130

8

2

24

14

2

38

160

2

4

TOTAL UNITS

LN FT

LN FT

LN FT

EACH

EACH

EACH

EACH

EACH

CU YD

LN FT

LN FT

EACH

CODE

4820

4845

4866

4932

4950

4953

2018NS835

2026ES835

2039NS835

2315TEN

2490EC

2490BEC

2619EC

ITEM DESCRIPTION

TRENCHING AND BACKFILLING

CABLE-NO. 14/7C

MESSENGER-15400 LB

INSTALL STEEL STRAIN POLE

REMOVE SIGNAL EQUIPMENT

TEMPORARY RELOCATION OF SIGNAL HEAD

INSTALL SIGNAL-3 SECTION LED

INSTALL SIGNAL-4 SECTION LED

INSTALL COORDINATING UNIT

TRAFFIC SIGNAL POLE BASE

PVC CONDUIT - 2 INCH - SCHEDULE 80

INSTALL SIGNAL CONTROLLER-TY ATC

INSTALL RADAR PRESENCE DETECTOR TYPE A

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION AND SUPPLEMENT, SHALL BE USED FOR THIS PROJECT. ALL MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION AND SUPPLEMENT, SEE SECTION 706.723 AND 102 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPRAY REINFORCEMENT SPLICING.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP MATERIALS FOR INSTALL ITEMS AT KYTC'S DIVISION OF EQUIPMENT WAREHOUSE 0239 WILKINSON BOULEVARD, FRANKFORT, KY 40622. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR MATERIAL RELEASE, FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE MATERIALS UPON ARRIVAL.

1. CONTRACTOR SHALL SECURE THE SIGNATURES OF KYTC'S PROJECT ENGINEER AND THE ELECTRICAL CONTRACTOR'S FOREMAN ON THE PROJECT MATERIALS RELEASE FORM. IF THE RELEASE FORM IS NOT IN THE PROPOSAL, CONTACT TED SWANSGAR OR KERRY ROBERTS WITH THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (502-782-5540/502-782-5561) OR EMAIL TED.SWANSGAR@KYTC.GOV/KERRY.ROBERTS@KYTC.GOV.

2. CONTRACTOR SHALL PICK UP MATERIALS FROM THE PROJECT MATERIALS RELEASE FORM WITH REQUIRED SIGNATURES TO THE WAREHOUSE AT KIM.STAMPE@KYTC.GOV AND SHALL NOTIFY THE WAREHOUSE BY PHONE (502-782-8994/502-330-8153) OR EMAIL KIM.STAMPE@KYTC.GOV AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL.

3. CONTRACTOR SHALL ALSO CONTACT THE SIGNAL SYSTEM BRANCH OF THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (502-782-5542/502-782-5547) OR EMAIL TERRY.HARRIS@KYTC.GOV AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL TO FACILITATE PROGRAMMING OF ROUTERS.

4. CONTRACTOR SHALL ARRIVE AT THE KYTC'S DIVISION OF EQUIPMENT WAREHOUSE 0239 WILKINSON BOULEVARD, FRANKFORT, KY 40622 AT THE PREARRANGED DATE/TIME FOR MATERIAL PICK UP. TO FACILITATE THIS PROCESS, ENSURE CONTRACTOR'S DELIVERY DRIVER HAS A COPY OF THE PROJECT MATERIALS RELEASE FORM WITH THE REQUIRED SIGNATURES.

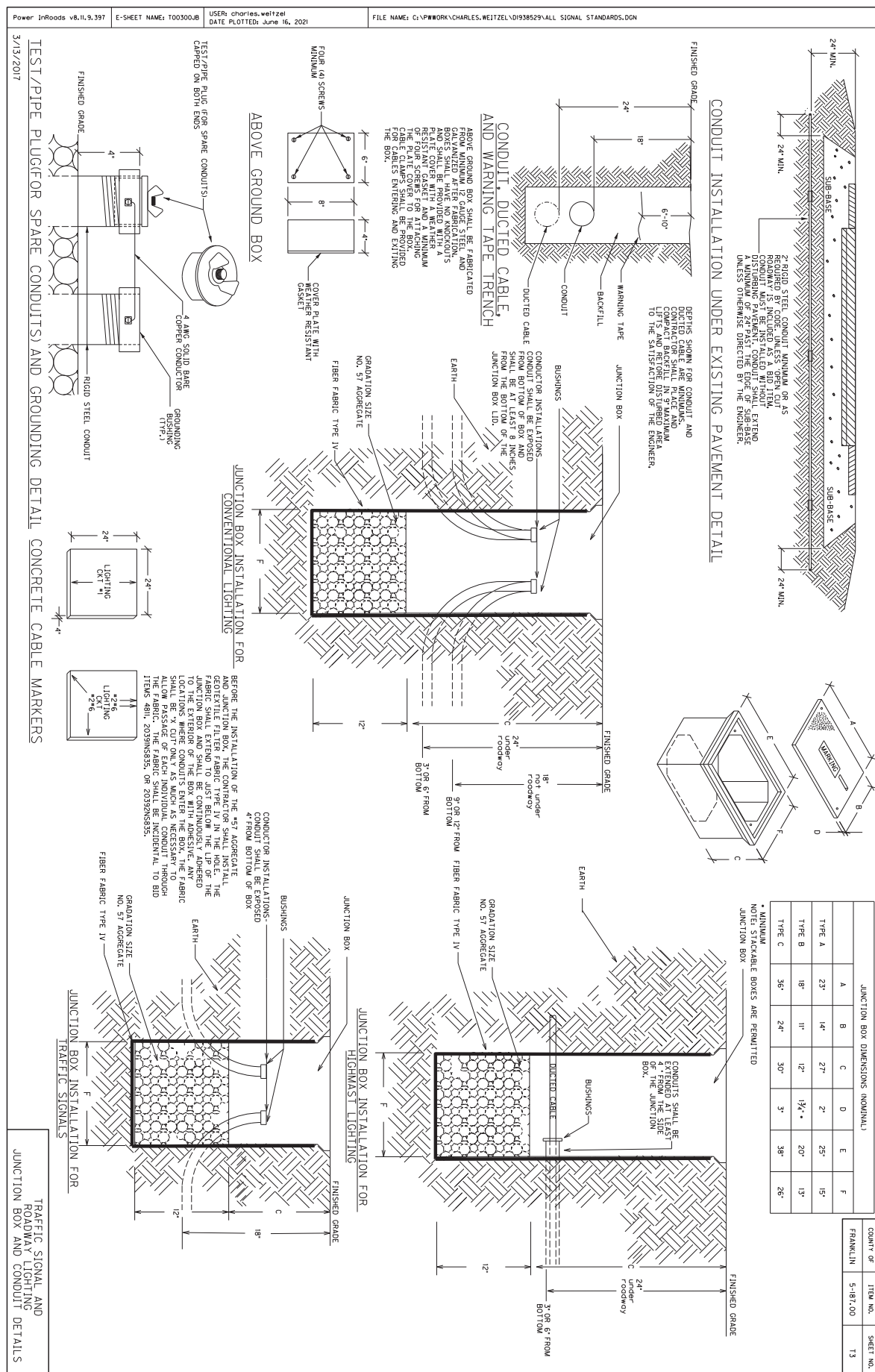
ADD SENTENCE TO SECTION 835.17: ALL WIRE SHALL HAVE WORKING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 123

SUBSECTION 03.02 POLES AND BASES INSTALLATION. BI REVISIONS-REPLACE ENTIRE TABLE WITH THE FOLLOWING:

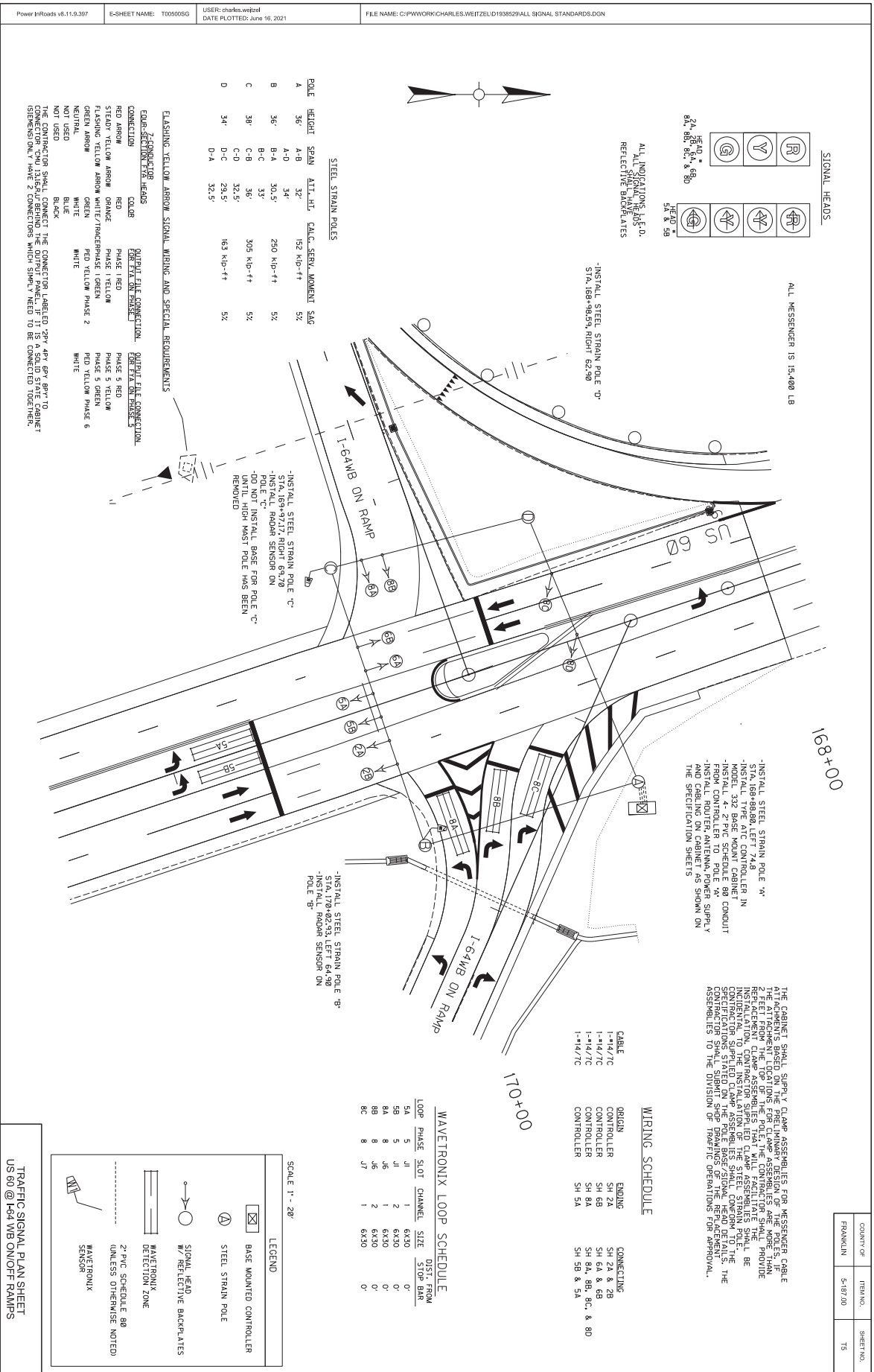
MAXIMUM SERVICE FORCES		DEPTH (FEET)				VERTICAL BARS		TIES OR SPIRAL	
MAX SERVICE MOMENT (FT-KIPS)	DIAMETER (IN.)	< 2:1 GROUND SLOPE	SOIL	ROCK	SOIL	ROCK	SIZE TOTAL	BAR SIZE	SPACING OR PITCH (IN.)
0-19.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
20-39.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
40-59.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
60-79.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
80-99.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
100-149.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
150-199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
200-249.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
250-299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
300-349.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
350-399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
400-499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
500-599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
600-699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
700-799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
800-899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
900-999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1000-1099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1100-1199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1200-1299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1300-1399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1400-1499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1500-1599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1600-1699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1700-1799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1800-1899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
1900-1999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2000-2099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2100-2199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2200-2299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2300-2399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2400-2499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2500-2599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2600-2699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2700-2799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2800-2899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
2900-2999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3000-3099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3100-3199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3200-3299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3300-3399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3400-3499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3500-3599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3600-3699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3700-3799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3800-3899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
3900-3999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4000-4099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4100-4199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4200-4299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4300-4399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4400-4499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4500-4599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4600-4699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4700-4799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4800-4899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
4900-4999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5000-5099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5100-5199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5200-5299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5300-5399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5400-5499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5500-5599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5600-5699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5700-5799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5800-5899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
5900-5999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6000-6099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6100-6199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6200-6299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6300-6399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6400-6499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6500-6599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6600-6699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6700-6799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6800-6899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
6900-6999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7000-7099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7100-7199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7200-7299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7300-7399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7400-7499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7500-7599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7600-7699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7700-7799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7800-7899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
7900-7999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8000-8099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8100-8199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8200-8299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8300-8399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8400-8499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8500-8599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8600-8699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8700-8799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8800-8899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
8900-8999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9000-9099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9100-9199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9200-9299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9300-9399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9400-9499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9500-9599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9600-9699.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9700-9799.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9800-9899.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
9900-9999.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
10000-10099.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
10100-10199.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
10200-10299.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
10300-10399.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
10400-10499.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
10500-10599.9	3/8	6-10	6-10	6-10	6-10	6-10	1	8	24
10600-10699.9	3/8	6-							

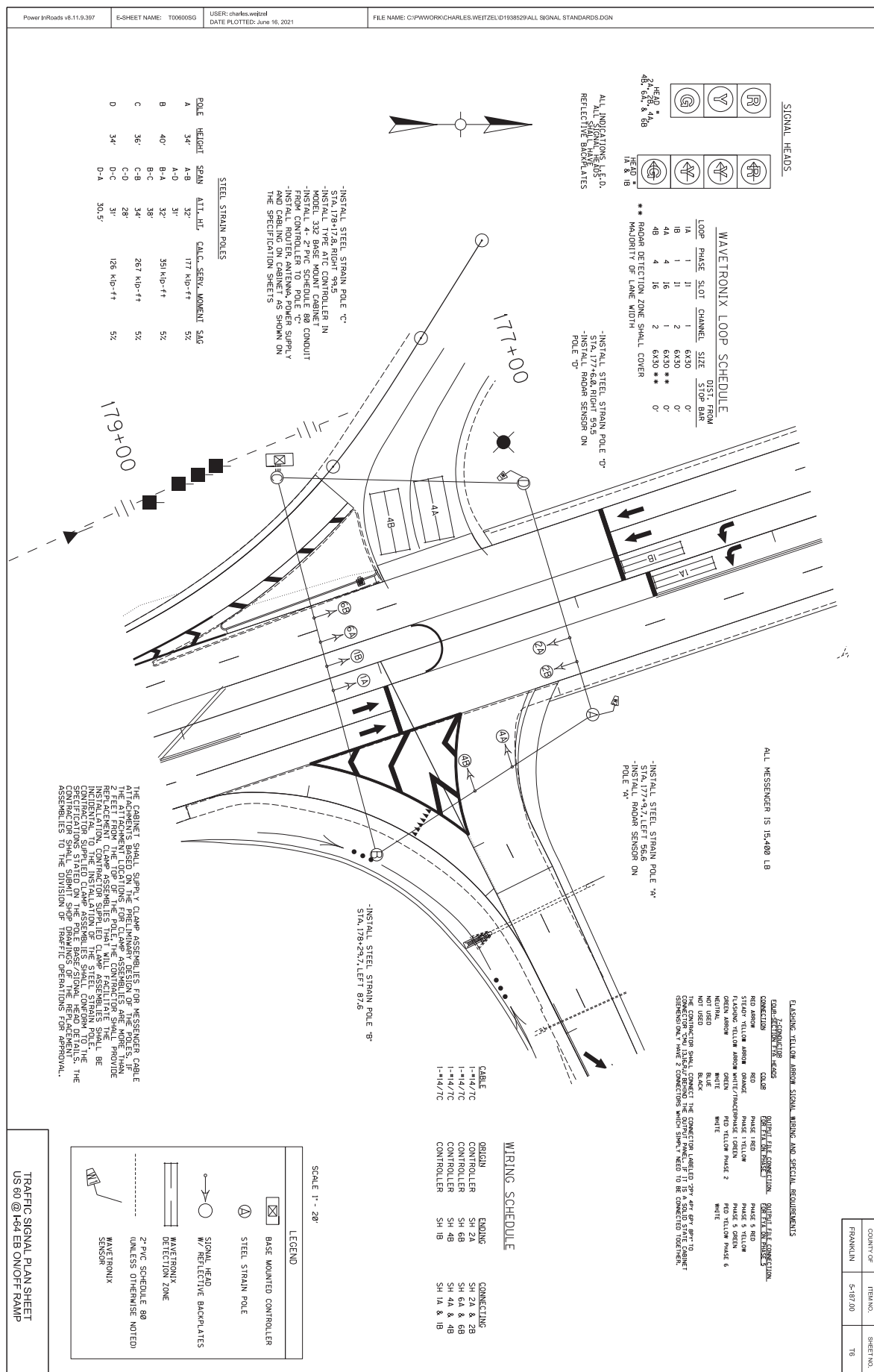




[illegible]









Power: InRoads v8.11.5.397		E-SHEET NAME: T00700SU		USER: charles.weitzel DATE PLOTTED: June 16, 2021		FILE NAME: C:\P\WORK\CHARLES.WEITZEL\01938923\ALL LIGHTING STANDARDS.DGN																								
<div>3-17-2021</div>							<table><tr><td>COUNTY OF</td><td>ITEM NO.</td><td>SHEET NO.</td></tr><tr><td>FRANKLIN</td><td>5-187.00</td><td>17</td></tr></table>	COUNTY OF	ITEM NO.	SHEET NO.	FRANKLIN	5-187.00	17																	
COUNTY OF	ITEM NO.	SHEET NO.																												
FRANKLIN	5-187.00	17																												
<div>THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPlicing</div> <div>THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.</div> <div>ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".</div> <div>ADD SENTENCE TO SECTION 834.10: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".</div> <div>CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 834 _____</div> <div>SECTION: 834.33 WARNING TAPE.</div> <div>REVISION: REPLACE FIRST SENTENCE WITH THE FOLLOWING: PROVIDE DETECTABLE TYPE TAPE THAT IS 6 INCHES WIDE AND 7.0 MILS (NOMINAL)THICK.</div> <div>MEASUREMENT NOTE THAT ARE IN ADDITION TO SECTION 716: REMOVE, STORE AND REINSTALL POLE. DEPARTMENT WILL MEASURE THE QUANTITY AS EACH POLE AND THE REINFORCEMENT AND REINSTALL THE POLE AND REINFORCEMENT. THE DEPARTMENT WILL MEASURE WORK AND MATERIAL NECESSARY TO RELOCATE AN EXISTING LIGHTING STANDARD AND WILL CONSIDERED THIS INCIDENTAL TO THIS ITEM OF WORK.</div> <div>ROADWAY LIGHTING ESTIMATE OF QUANTITIES</div> <table><thead><tr><th>TOTAL</th><th>UNITS</th><th>CODE</th><th>ITEM DESCRIPTION</th></tr></thead><tbody><tr><td>70</td><td>LIN FT</td><td>4820</td><td>TRENCHING AND BACKFILLING</td></tr><tr><td>1</td><td>LP SUM</td><td>4940</td><td>REMOVE LIGHTING</td></tr><tr><td>1</td><td>EACH</td><td>4942</td><td>REMOVE, STORE, AND REINSTALL POLE</td></tr><tr><td>6</td><td>CU YD</td><td>23161N</td><td>POLE BASE - HIGH MAST</td></tr><tr><td>70</td><td>LIN FT</td><td>24851EC</td><td>CABLE - NO. 10/3</td></tr></tbody></table>							TOTAL	UNITS	CODE	ITEM DESCRIPTION	70	LIN FT	4820	TRENCHING AND BACKFILLING	1	LP SUM	4940	REMOVE LIGHTING	1	EACH	4942	REMOVE, STORE, AND REINSTALL POLE	6	CU YD	23161N	POLE BASE - HIGH MAST	70	LIN FT	24851EC	CABLE - NO. 10/3
TOTAL	UNITS	CODE	ITEM DESCRIPTION																											
70	LIN FT	4820	TRENCHING AND BACKFILLING																											
1	LP SUM	4940	REMOVE LIGHTING																											
1	EACH	4942	REMOVE, STORE, AND REINSTALL POLE																											
6	CU YD	23161N	POLE BASE - HIGH MAST																											
70	LIN FT	24851EC	CABLE - NO. 10/3																											
<table><tr><td colspan="2">DESIGNED BY: CM</td><td></td></tr><tr><td colspan="2">DATE SUBMITTED: 6/16/2021</td><td></td></tr><tr><td colspan="3"><b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b> COUNTY OF <b>FRANKLIN</b></td></tr><tr><td colspan="3">PROJECT _____</td></tr><tr><td colspan="3">NUMBERS: _____</td></tr><tr><td colspan="3">ROADWAY LIGHTING ESTIMATES OF QUANTITIES</td></tr></table>							DESIGNED BY: CM			DATE SUBMITTED: 6/16/2021			<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b> COUNTY OF <b>FRANKLIN</b>			PROJECT _____			NUMBERS: _____			ROADWAY LIGHTING ESTIMATES OF QUANTITIES								
DESIGNED BY: CM																														
DATE SUBMITTED: 6/16/2021																														
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b> COUNTY OF <b>FRANKLIN</b>																														
PROJECT _____																														
NUMBERS: _____																														
ROADWAY LIGHTING ESTIMATES OF QUANTITIES																														

[illegible]

[illegible]

[illegible]

TEST/PIPE PLUG FOR SPARE CONDUITS  
 TEST/PIPE PLUG FOR SPARE CONDUITS AND GROUNDING DETAIL  
 CONCRETE CABLE MARKERS  
 JUNCTION BOX AND CONDUIT DETAILS

POWER INROADS v8.11.9.137  
 E-SHEET NAME: T0100AB  
 TEST/PIPE PLUG FOR SPARE CONDUITS  
 TEST/PIPE PLUG FOR SPARE CONDUITS AND GROUNDING DETAIL  
 CONCRETE CABLE MARKERS  
 JUNCTION BOX AND CONDUIT DETAILS

USER: C:\PWORK\CHARLES.WEITZEL\DI938923\ALL LIGHTING STANDARDS.DGN  
 DATE PLOTTED: June 16, 2021  
 FILE NAME: C:\PWORK\CHARLES.WEITZEL\DI938923\ALL LIGHTING STANDARDS.DGN

### CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL

24" MIN.  
24" MIN.  
24" MIN.  
24" MIN.

2" RIGID STEEL CONDUIT MINIMUM OR AS REQUIRED BY CODE. JUNCTIONS OPEN CUT CONDUIT MUST BE INSTALLED WITHOUT DRAINING PAVERMENT CONDUIT SHALL BE SETTING A MINIMUM OF 4" FROM THE SURFACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

DEPTHS SHOWN FOR CONDUIT AND DUCTED CABLE ARE MINIMUMS. CONDUIT SHALL BE INSTALLED IN 3" MAXIMUM LIFTS, AND BEFORE DISTURBED AREA TO THE SATISFACTION OF THE ENGINEER.

### CONDUIT, DUCTED CABLE, AND WARNING TAPE TRENCH

24" MIN.  
6"-10"  
18"  
24"

WARNING TAPE  
CONDUIT  
DUCTED CABLE  
BUSHINGS  
JUNCTION BOX

CONDUIT INSTALLATIONS  
CONDUIT SHALL BE EXPOSED FROM THE BOTTOM OF THE JUNCTION BOX LID.

ABOVE GROUND BOX SHALL BE FABRICATED GALVANIZED AFTER FABRICATION AND BOXES SHALL HAVE NO ANODIZING. ALL BOXES SHALL BE CORROSION RESISTANT. RESISTANT COATING SHALL BE APPLIED TO THE PLATE COVER TO THE BOX FOR CABLES ENTERING AND EXITING THE BOX.

### ABOVE GROUND BOX

6" MIN.  
6" MIN.  
6" MIN.  
6" MIN.

FOUR (4) SCREENS MINIMUM  
COVER PLATE WITH GASKET  
FIBER FABRIC TYPE IV  
GRADATION SIZE NO. 57 AGGREGATE

### JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING

24" MIN.  
24" MIN.  
24" MIN.  
24" MIN.

4 ANG SOLID BARE BRASSING (TYP.)  
RIGID STEEL CONDUIT  
LIGHTING CUT W/ 24" MIN.  
LIGHTING CUT W/ 24" MIN.

BEFORE THE INSTALLATION OF THE AGGREGATE CONDUIT SHALL BE EXPOSED 4" FROM BOTTOM OF BOX. THE FABRIC SHALL EXTEND TO JUST BELOW THE IP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE BOX. THE FABRIC SHALL BE 'X' CUT ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH ITENS. 4811, 2039N6535, OR 2039N6535.

### JUNCTION BOX INSTALLATION FOR HIGHMAST LIGHTING

24" MIN.  
24" MIN.  
24" MIN.  
24" MIN.

CONDUIT INSTALLATIONS - CONDUIT SHALL BE EXPOSED 4" FROM BOTTOM OF BOX. THE FABRIC SHALL EXTEND TO JUST BELOW THE IP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE BOX. THE FABRIC SHALL BE 'X' CUT ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH ITENS. 4811, 2039N6535, OR 2039N6535.

CONDUITS SHALL BE EXTENDED AT LEAST 6" FROM THE SIDE OF THE JUNCTION BOX.

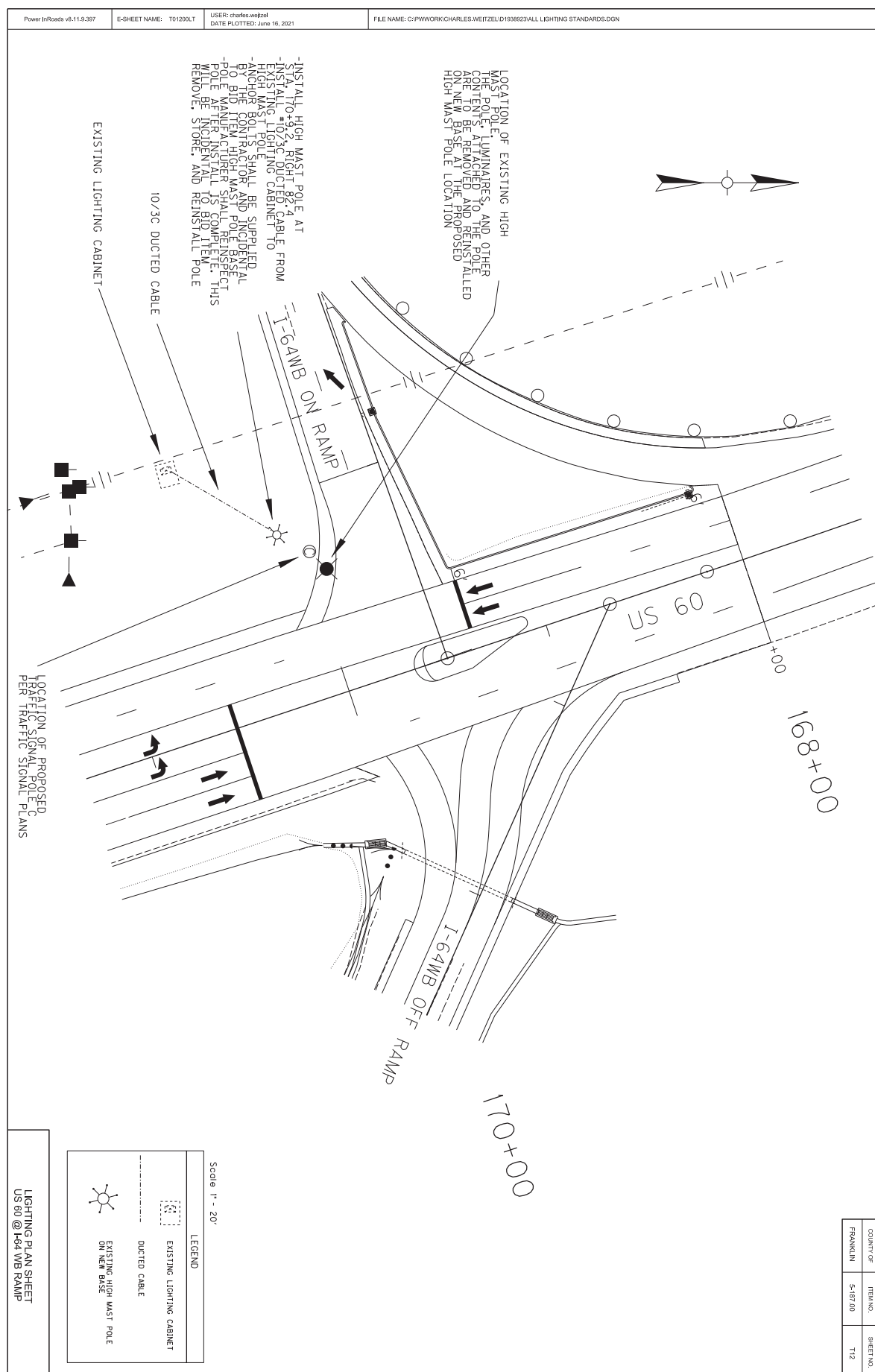
GRADATION SIZE NO. 57 AGGREGATE

12"  
3" OR 6" FROM BOTTOM  
9" OR 12" FROM FIBER FABRIC TYPE IV  
12"  
3" OR 6" FROM BOTTOM  
9" OR 12" FROM FIBER FABRIC TYPE IV  
12"

JUNCTION BOX DIMENSIONS (MINIMUM)						
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1 1/2"	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

• MINIMUM  
NOTE: STACABLE BOXES ARE PERMITTED  
JUNCTION BOX

COUNTY OF	ITEM NO.	SHEET
FRANKLIN	5-187.00	711



**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 BARCODE LABEL ON PERMANENT SIGNS

**1.0 DESCRIPTION.** Install barcode label on sheeting signs. Section references herein are to the Department's Standard Specifications for Road and Bridge Construction, current edition.

**2.0 MATERIALS.** The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sheeting sign. A unique number will be assigned to each barcode label.

The Contractor shall contact the Operations and Pavement Management Branch in the Division of Maintenance at (502) 564-4556 to obtain the barcode labels.

**3.0 CONSTRUCTION.** Apply foil barcode label in the lower right quadrant of the sign back. Signs where the bottom edge is not parallel to the ground, the lowest corner of the sign shall serve as the location to place the barcode label. The barcode label shall be placed no less than one-inch and no more than three inches from any edge of the sign. The barcode must be placed so that the sign post does not cover the barcode label.

Barcodes shall be applied in an indoor setting with a minimum air temperature of 50°F or higher. Prior to application of the barcode label, the back of the sign must be clean and free of dust, oil, etc. If the sign is not clean, an alcohol swab shall be used to clean the area. The area must be allowed to dry prior to placement of the barcode label.

Data for each sign shall include the barcode number, MUTCD reference number, sheeting manufacturer, sheeting type, manufacture date, color of primary reflective surface, installation date, latitude and longitude using the North American Datum of 1983 (NAD83) or the State Plane Coordinates using an x and y ordinate of the installed location.

Data should be provided electronically on the TC 71-229 Sign Details Information and TC 71-230 Sign Assembly Information forms. The Contractor may choose to present the data in a different format provided that the information submitted to the Department is equivalent to the information required on the Department TC forms. The forms must be submitted in electronic format regardless of which type of form is used. The Department will not accept PDF or handwritten forms. These completed forms must be submitted to the Department prior to final inspection of the signs. The Department will not issue formal acceptance for the project until the TC 71-229 and TC-230 electronic forms are completed for all signs and sign assemblies on the project.

**4.0 MEASUREMENT.** The Department will measure all work required for the installation of the barcode label and all work associated with completion and submission of the sign inventory data (TC 71-229 and TC 71-230).

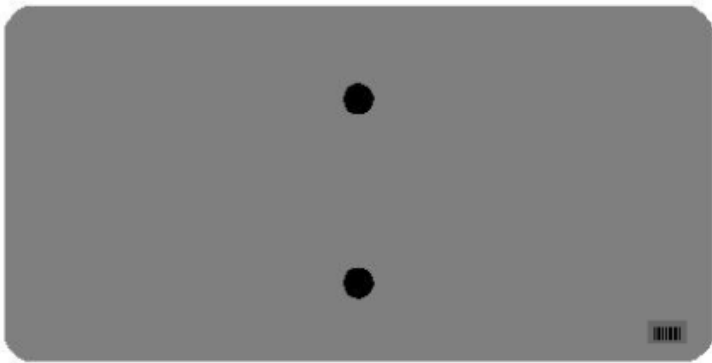
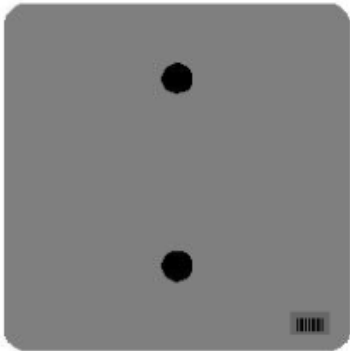
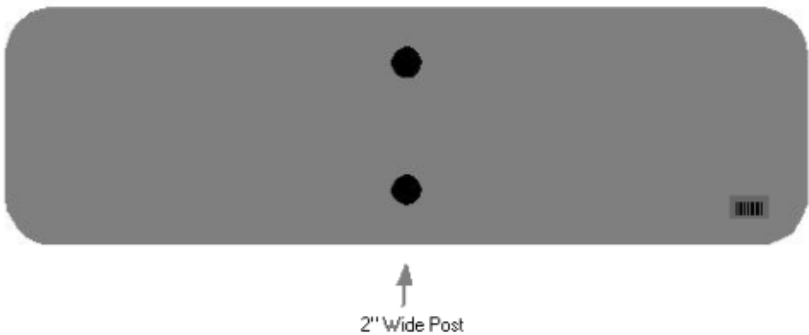
The installation of the permanent sign will be measured in accordance to Section 715.

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

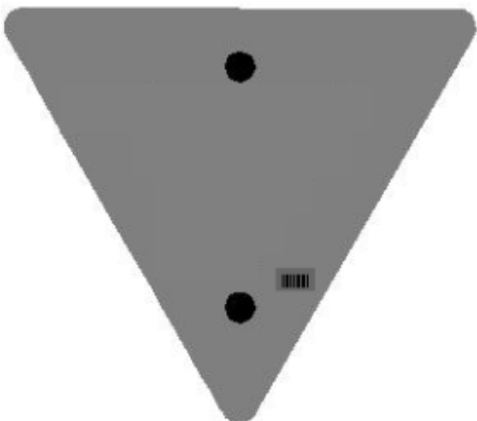
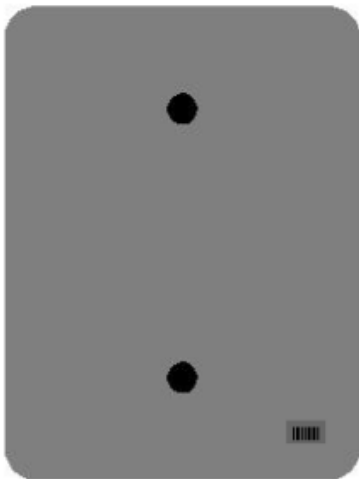
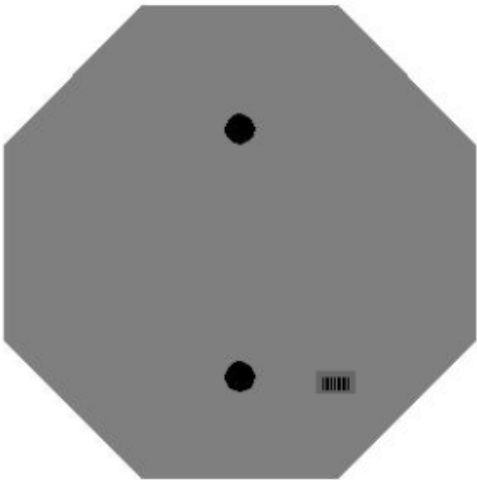
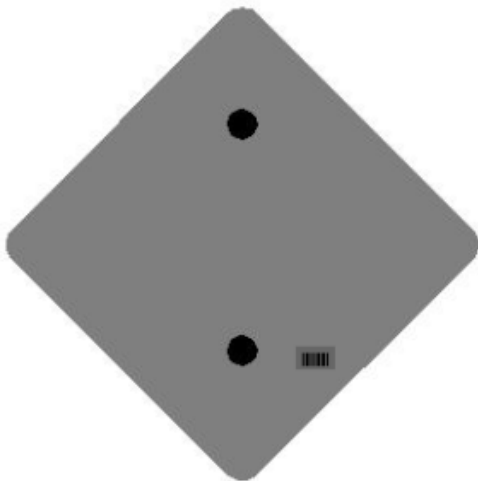
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24631EC	Barcode Sign Inventory	Each

The Department will not make payment for this item until all barcodes are installed and sign inventory is complete on every permanent sign installed on the project. The Department will make payment for installation of the permanent sign in accordance to Section 715. The Department will consider payment as full compensation for all work required under this special note.

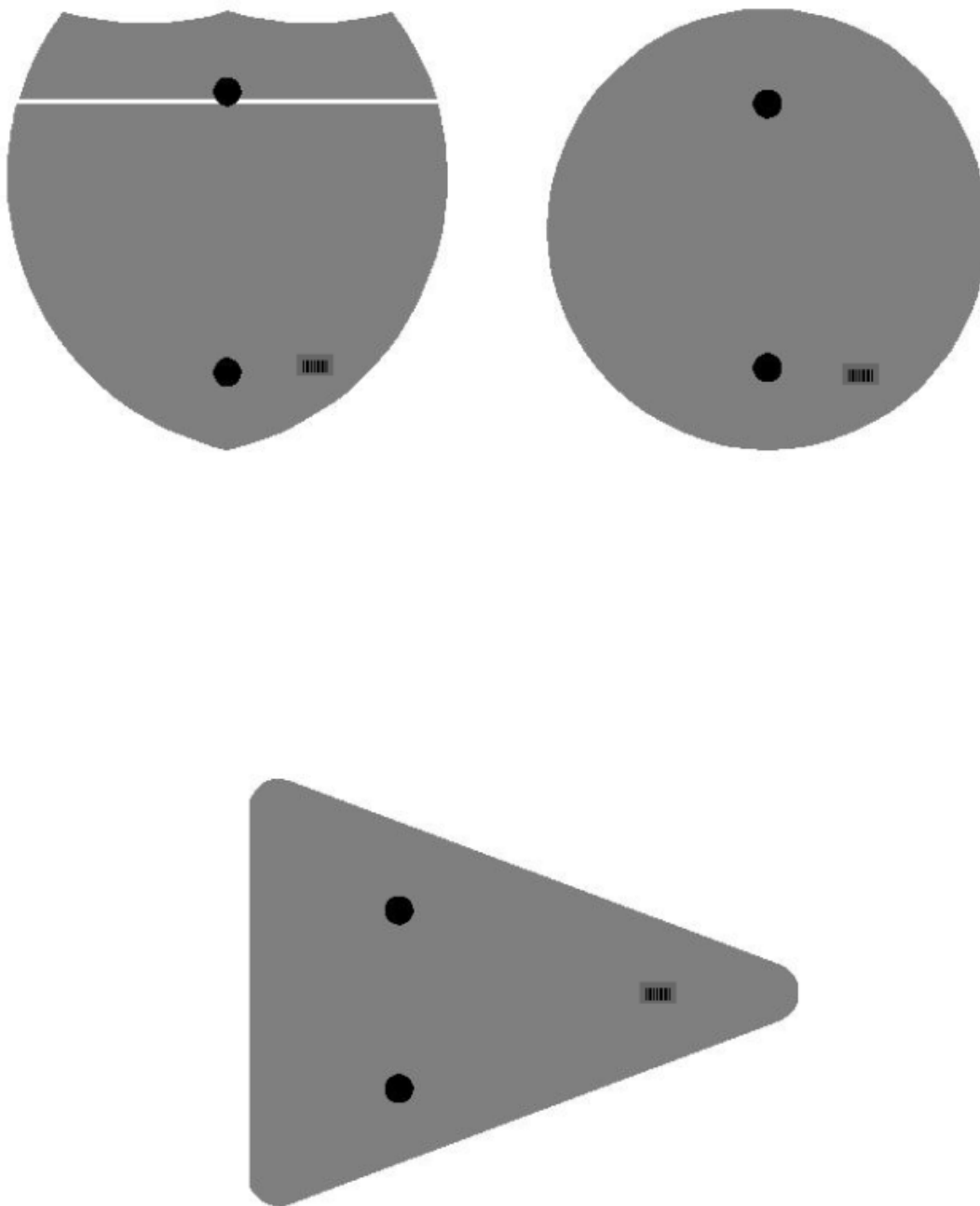
One Sign Post



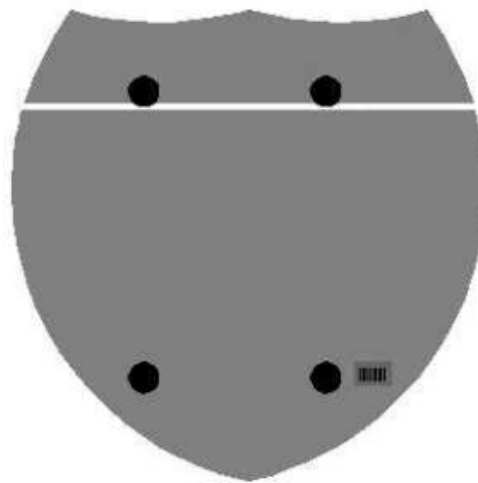
One Sign Post



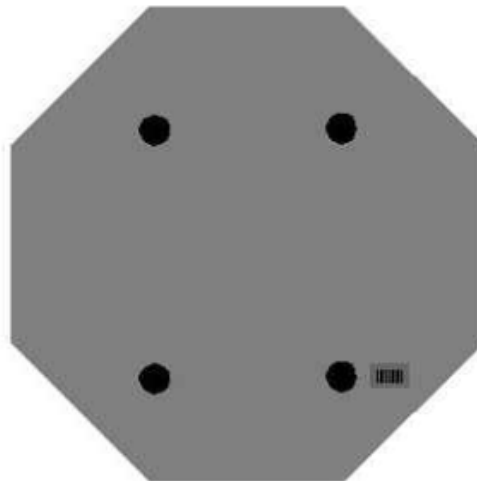
### One Sign Post



### Double Sign Post



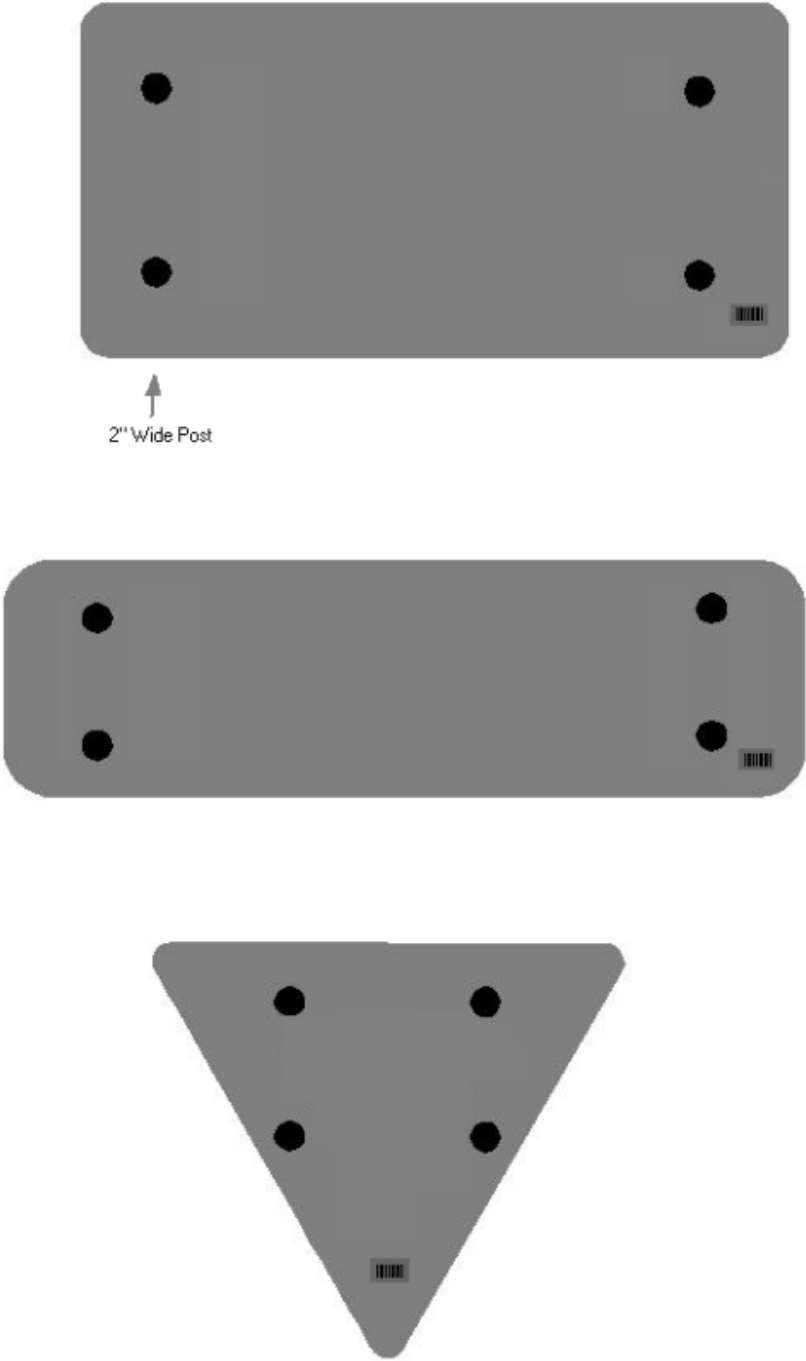
Interstate  
Shield



48" Stop



2 Post Signs



2020 STANDARD DRAWINGS THAT APPLY

ROADWAY	
~ <i>BARRIERS</i> ~	
<u>ENERGY ABSORPTION DEVICES</u>	
CRASH CUSHION TYPE VI-BT .....	RBE-100-11
<u>CONCRETE MEDIAN BARRIERS</u>	
DELINEATORS FOR CONCRETE BARRIERS .....	RBM-020-09
CONCRETE BARRIER WALL TYPE 9T (TEMPORARY) .....	RBM-115-10
BOX BEAM STIFFENING OF TEMPORARY CONCRETE BARRIER .....	RBM-120-02
~ <i>DRAINAGE</i> ~	
<u>BOX INLETS AND OUTLETS</u>	
<u>DROP BOXES</u>	
DROP BOX INLET TYPE 1 .....	RDB-001-12
<u>SLOPED BOXES</u>	
SLOPED BOX OUTLET TYPE 1 .....	RDB-100-05
GRATES FOR SLOPED BOX OUTLET TYPE 1 .....	RDB-101-05
<u>CURB BOXES</u>	
STANDARD CURB BOX INLET TYPE F .....	RDB-320-06
<u>PAVED DITCHES, FLUME INLETS AND CHANNEL LININGS</u>	
FLUME INLET TYPE 2 .....	RDD-021-07
CHANNEL LINING CLASS II AND III .....	RDD-040-05
<u>PIPE AND BOX CULVERT HEADWALLS</u>	
<u>12" – 27" - SINGLE LINE PIPE</u>	
SLOPED AND PARALLEL HEADWALLS, 12" TO 21" PIPE .....	RDH-030-03
<u>TYPICAL DRAINAGE INSTALLATIONS</u>	
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (12" – 24" PIPE) .....	RDI-001-10
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER PIPE .....	RDI-020-10
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER, REINFORCED CONC. PIPE .....	RDI-021-01
PIPE BEDDING, TRENCH CONDITION .....	RDI-025-06
PIPE BEDDING, TRENCH CONDITION, REINFORCED CONC. PIPE .....	RDI-026-01
COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPE .....	RDI-035-02
EROSION CONTROL BLANKET SLOPE INSTALLATION .....	RDI-040-01
EROSION CONTROL BLANKET CHANNEL INSTALLATION .....	RDI-041-01
<u>PERFORATED PIPE</u>	
PERFORATED PIPE TYPES AND COVER HEIGHTS .....	RDP-001-06
PERFORATED PIPE FOR SUBGRADE DRAINAGE ON TWO-LANE (CLASS 2) AND MULTI-LANE ROADS .....	RDP-005-05
PERFORATED PIPE UNDERDRAINS (LONGITUDINAL AND TRANSVERSE) .....	RDP-006-04
PERFORATED PIPE DETAILS (SOLID ROCK) .....	RDP-007-04
PERFORATED PIPE HEADWALLS .....	RDP-010-09

Standard Drawings That Apply  
Page 2 of 3

MISCELLANEOUS DRAINAGE

SECURITY DEVICES FOR FRAMES, GRATES AND LIDS.....	RDX-160-06
TEMPORARY SILT FENCE.....	RDX-210-03
TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC.....	RDX-215-01
SILT TRAP - TYPE A .....	RDX-220-05
SILT TRAP - TYPE B.....	RDX-225-01
SILT TRAP - TYPE C.....	RDX-230-01

~ *GENERAL* ~

CURVE WIDENING AND SUPERELEVATION

CURVE WIDENING AND SUPERELEVATION TRANSITIONS.....	RGS-001-07
--	------------

MISCELLANEOUS STANDARDS

MISCELLANEOUS STANDARDS .....	RGX-001-06
BREAKAWAY SIGN SUPPORT SYSTEM FOR TYPE C BEAM .....	RGX-060-01
FOOTING DETAILS FOR TYPE C BEAM .....	RGX-061-01
TYPE D BREAKAWAY SIGN SUPPORT .....	RGX-065-02
ONE POINT PROCTER FAMILY OF CURVES .....	RGX-200-01

~ *PAVEMENT* ~

MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.

CURB AND GUTTER, CURBS AND VALLEY GUTTER.....	RPM-100-11
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT .....	RPM-110-07
RUMBLE STRIPS TYPE 3.....	RPM-145-04

NON-REINFORCED CONCRETE PAVEMENT

NON-REINFORCED CONCRETE PAVEMENT FOR SHOULDERS AND MEDIANS .....	RPN-001-07
NON-REINFORCED CONCRETE PAVEMENT .....	RPN-015-05

STANDARD REINFORCED CONCRETE PAVEMENT

CONCRETE PAVEMENT JOINT DETAILS .....	RPS-010-11
EXPANSION AND CONTRACTION JOINT LOAD TRANSFER ASSEMBLIES.....	RPS-020-14
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING .....	RPS-031-06
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING .....	RPS-032-06
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING .....	RPS-033-07
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING .....	RPS-036-06
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING .....	RPS-037-06
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING .....	RPS-038-06
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING .....	RPS-039-06

MISCELLANEOUS PAVING

STATION MARKINGS, CONCRETE PAVEMENT .....	RPX-001-04
PREFORMED COMPRESSION JOINT SEAL FOR CONCRETE PAVEMENT .....	RPX-010-05
HOT POURED ELASTIC JOINT SEALS FOR CONCRETE PAVEMENT .....	RPX-015-04
SILICONE RUBBER SEALS USED IN PORTLAND CONCRETE PAVEMENT.....	RPX-020-06

TRAFFIC

~ *PERMANENT* ~  
MARKERS

PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS.....	TPM-100-03
PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS.....	TPM-110-03
PAVEMENT MARKER ARRANGEMENT EXIT-GORE AND OFF-RAMP.....	TPM-125-03
PAVEMENT MARKER ARRANGEMENTS FOR PARALLEL DECELERATION LANE .....	TPM-126
PAVEMENT MARKER ARRANGEMENT ON-RAMP WITH PARALLEL ACCELERATION LANE .....	TPM-135-03
PAVEMENT MARKER ARRANGEMENTS TWO-WAY LEFT TURN LANE .....	TPM-140-04
TYPICAL ENTRANCE RAMP MARKINGS.....	TPM-200
TYPICAL EXIT RAMP MARKINGS PAGE 1.....	TPM-201
TYPICAL EXIT RAMP MARKINGS PAGE 2.....	TPM-202
TYPICAL MARKINGS AT SIGNALIZED INTERSECTIONS.....	TPM-203
TYPICAL MARKINGS FOR GORE AREAS.....	TPM-204
TYPICAL MARKINGS FOR ISLANDS AND MEDIANS .....	TPM-205
TYPICAL MARKINGS FOR TURN LANES PAGE 1.....	TPM-206

RUMBLE STRIPS

SHOULDER & EDGELINE RUMBLE STRIPS PLACEMENT DETAILS .....	TPR-115
RUMBLE STRIP DETAILS MULTI-LANE ROADWAYS AND RAMPS.....	TPR-130

~ *TEMPORARY* ~  
TRAFFIC CONTROL

LANE CLOSURE MULTI-LANE HIGHWAY CASE I.....	TTC-115-04
LANE CLOSURE MULTI-LANE HIGHWAY CASE II.....	TTC-120-04
SHOULDER CLOSURE.....	TTC-135-03
TEMPORARY PAVEMENT MARKER ARRANGEMENTS FOR CONSTRUCTION ZONES .....	TTC-155-02

DEVICES

DOUBLE FINES ZONE SIGNS .....	TTD-120-03
PAVEMENT CONDITION WARNING SIGNS.....	TTD-125-03
SPEED ZONE SIGNING FOR WORK ZONES .....	TTD-130

STRIPING OPERATIONS

MOBILE OPERATION FOR PAINT STRIPING CASE III .....	TTS-110-02
MOBILE OPERATION FOR PAINT STRIPING CASE IV .....	TTS-115-02
MOBILE OPERATION FOR DURABLE STRIPING CASE I.....	TTS-120-02

## **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.

Revised: January 27, 2017

"General Decision Number: KY20210038 03/05/2021

Superseded General Decision Number: KY20200038

State: Kentucky

Construction Type: Highway

Counties: Anderson, Bath, Bourbon, Boyd, Boyle, Bracken, Breckinridge, Bullitt, Carroll, Carter, Clark, Elliott, Fayette, Fleming, Franklin, Gallatin, Grant, Grayson, Greenup, Hardin, Harrison, Henry, Jefferson, Jessamine, Larue, Lewis, Madison, Marion, Mason, Meade, Mercer, Montgomery, Nelson, Nicholas, Oldham, Owen, Robertson, Rowan, Scott, Shelby, Spencer, Trimble, Washington and Woodford Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

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
1	03/05/2021

BRIN0004-003 06/01/2017

BRECKENRIDGE COUNTY

	Rates	Fringes
BRICKLAYER.....	\$ 26.80	12.38
-----		

BRKY0001-005 06/01/2020

BULLITT, CARROLL, GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE,



MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, & TRIMBLE  
COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 31.00	14.86
-----		
BRKY0002-006 06/01/2020		

BRACKEN, GALLATIN, GRANT, MASON & ROBERTSON COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 31.00	14.86
-----		
BRKY0007-004 06/01/2017		

BOYD, CARTER, ELLIOT, FLEMING, GREENUP, LEWIS & ROWAN COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 32.98	19.02
-----		
BRKY0017-004 06/01/2020		

ANDERSON, BATH, BOURBON, BOYLE, CLARK, FAYETTE, FRANKLIN,  
HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS,  
OWEN, SCOTT, WASHINGTON & WOODFORD COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 31.00	14.86
-----		
CARP0064-001 04/01/2020		

	Rates	Fringes
CARPENTER.....	\$ 29.81	19.96
Diver.....	\$ 45.09	19.96
PILEDRIVERMAN.....	\$ 30.06	19.96
-----		
ELEC0212-008 06/01/2020		

BRACKEN, GALLATIN and GRANT COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 31.30	19.72
-----		
ELEC0212-014 11/25/2019		

BRACKEN, GALLATIN & GRANT COUNTIES:

	Rates	Fringes
Sound & Communication Technician.....	\$ 24.35	12.09
-----		
ELEC0317-012 06/01/2020		

BOYD, CARTER, ELLIOT & ROWAN COUNTIES:

Rates	Fringes
-------	---------



ELECTRICIAN (Wiremen).....	\$ 35.10	26.22
-----		

\* ELEC0369-007 05/26/2020

ANDERSON, BATH, BOURBON, BOYLE, BRECKINRIDGE, BULLITT, CARROLL,  
CLARK, FAYETTE, FRAONKLIN, GRAYSON, HARDIN, HARRISON, HENRY,  
JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER,  
MONTGOMERY, NELSON, NICHOLAS, OLDHAM, OWEN, ROBERTSON, SCOTT,  
SHELBY, SPENCER, TRIMBLE, WASHINGTON, & WOODFORD COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 33.21	17.85
-----		

ELEC0575-002 11/30/2020

FLEMING, GREENUP, LEWIS & MASON COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 33.75	19.22
-----		

ENGI0181-018 07/01/2020

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 33.95	17.25
GROUP 2.....	\$ 31.09	17.25
GROUP 3.....	\$ 31.54	17.25
GROUP 4.....	\$ 30.77	17.25

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - A-Frame Winch Truck; Auto Patrol; Backfiller;  
Batcher Plant; Bituminous Paver; Bituminous Transfer  
Machine; Boom Cat; Bulldozer; Mechanic; Cableway; Carry-All  
Scoop; Carry Deck Crane; Central Compressor Plant; Cherry  
Picker; Clamshell; Concrete Mixer (21 cu. ft. or Over);  
Concrete Paver; Truck-Mounted Concrete Pump; Core Drill;  
Crane; Crusher Plant; Derrick; Derrick Boat; Ditching &  
Trenching Machine; Dragline; Dredge Operator; Dredge  
Engineer; Elevating Grader & Loaders; Grade-All; Gurries;  
Heavy Equipment Robotics Operator/Mechanic; High Lift;  
Hoe-Type Machine; Hoist (Two or More Drums); Hoisting  
Engine (Two or More Drums); Horizontal Directional Drill  
Operator; Hydrocrane; Hyster; KeCal Loader; LeTourneau;  
Locomotive; Mechanic; Mechanically Operated Laser Screed;  
Mechanic Welder; Mucking Machine; Motor Scraper; Orangepeel  
Bucket; Overhead Crane; Piledriver; Power Blade; Pumpcrete;  
Push Dozer; Rock Spreader, attached to equipment; Rotary  
Drill; Roller (Bituminous); Rough Terrain Crane; Scarifier;  
Scoopmobile; Shovel; Side Boom; Subgrader; Tailboom;  
Telescoping Type Forklift; Tow or Push Boat; Tower Crane  
(French, German & other types); Tractor Shovel; Truck  
Crane; Tunnel Mining Machines, including Moles, Shields or  
similar types of Tunnel Mining Equipment

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.);  
Bituminous Mixer; Boom Type Tamping Machine; Bull Float;  
Concrete Mixer (Under 21 cu. ft.); Dredge Engineer;  
Electric Vibrator; Compactor/Self-Propelled Compactor;  
Elevator (One Drum or Buck Hoist); Elevator (When used to

Hoist Building Material); Finish Machine; Firemen & Hoist (One Drum); Flexplane; Forklift (Regardless of Lift Height); Form Grader; Joint Sealing Machine; Outboard Motor Boat; Power Sweeper (Riding Type); Roller (Rock); Ross Carrier; Skid Mounted or Trailer Mounted Concrete Pump; Skid Steer Machine with all Attachments; Switchman or Brakeman; Throttle Valve Person; Tractair & Road Widening Trencher; Tractor (50 H.P. or Over); Truck Crane Oiler; Tugger; Welding Machine; Well Points; & Whirley Oiler

GROUP 3 - All Off Road Material Handling Equipment, including Articulating Dump Trucks; Greaser on Grease Facilities servicing Heavy Equipment

GROUP 4 - Bituminous Distributor; Burlap & Curing Machine; Cement Gun; Concrete Saw; Conveyor; Deckhand Oiler; Grout Pump; Hydraulic Post Driver; Hydro Seeder; Mud Jack; Oiler; Paving Joint Machine; Power Form Handling Equipment; Pump; Roller (Earth); Steerman; Tamping Machine; Tractor (Under 50 H.P.); & Vibrator

CRANES - with booms 150 ft. & Over (Including JIB), and where the length of the boom in combination with the length of the piling leads equals or exceeds 150 ft. - \$1.00 over Group 1 rate

EMPLOYEES ASSIGNED TO WORK BELOW GROUND LEVEL ARE TO BE PAID 10%

ABOVE BASIC WAGE RATE. THIS DOES NOT APPLY TO OPEN CUT WORK.

IRON0044-009 06/01/2020

BRACKEN, GALLATIN, GRANT, HARRISON, ROBERTSON,  
BOURBON (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan);  
CARROLL (Eastern third, including the Township of Ghent);  
FLEMING (Western part, excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford);  
MASON (Western two-thirds, including Townships of Dover, Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington);  
NICHOLAS (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills);  
OWEN (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley);  
SCOTT (Northern two-thirds, including Townships of Biddle, Davis, Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall)

	Rates	Fringes
IRONWORKER		
Fence Erector.....	\$ 28.95	21.20
Structural.....	\$ 30.47	21.20

IRON0070-006 06/01/2020

ANDERSON, BOYLE, BRECKINRIDGE, BULLITT, FAYETTE, FRANKLIN,  
GRAYSON, HARDIN, HENRY, JEFFERSON, JESSAMINE, LARUE, MADISON,  
MARION, MEADE, MERCER, NELSON, OLDHAM, SHELBY, SPENCER,  
TRIMBLE, WASHINGTON & WOODFORD  
BOURBON (Southern two-thirds, including Townships of Austerlity,  
Centerville, Clintonville, Elizabeth, Hutchison, Littlerock,  
North Middletown & Paris);  
CARROLL (Western two-thirds, including Townships of Carrollton,  
Easterday, English, Locust, Louis, Prestonville & Worthville);  
CLARK (Western two-thirds, including Townships of Becknerville,  
Flanagan, Ford, Pine Grove, Winchester & Wyandotte);  
OWEN (Eastern eighth, including Townships of Glenmary, Gratz,  
Monterey, Perry Park & Tacketts Mill);  
SCOTT (Southern third, including Townships of Georgetown, Great  
Crossing, Newtown, Stampling Ground & Woodlake);

	Rates	Fringes
IRONWORKER.....	\$ 30.42	23.15
-----		
IRON0769-007 06/01/2020		

BATH, BOYD, CARTER, ELLIOTT, GREENUP, LEWIS, MONTGOMERY & ROWAN  
CLARK (Eastern third, including townships of Bloomingdale,  
Hunt, Indian Fields, Kiddville, Loglick, Rightangele & Thomson);  
FLEMING (Townships of Beechburg, Colfax, Elizaville,  
Flemingsburg, Flemingsburg Junction, Foxport, Grange City,  
Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton,  
Pecksville, Plummers Landing, Plummers Mill, Poplar Plains,  
Ringos Mills, Tilton & Wallingford);  
MASON (Eastern third, including Townships of Helena, Marshall,  
Orangeburg, Plumville & Springdale);  
NICHOLAS (Eastern eighth, including the Township of Moorefield  
Sprout)

	Rates	Fringes
IRONWORKER		
ZONE 1.....	\$ 32.75	26.34
ZONE 2.....	\$ 33.15	26.34
ZONE 3.....	\$ 34.75	26.34

ZONE 1 - (no base rate increase) Up to 10 mile radius of  
Union Hall, 1643 Greenup Ave, Ashland, KY.

ZONE 2 - (add \$0.40 per hour to base rate) 10 to 50 mile  
radius of Union Hall, 1643 Greenup Ave, Ashland, KY.

ZONE 3 - (add \$2.00 per hour to base rate) 50 mile radius &  
over of Union Hall, 1643 Greenup Ave, Ashland, KY.

-----  
LAB00189-003 07/01/2020

BATH, BOURBON, BOYD, BOYLE, BRACKEN, CARTER, CLARK, ELLIOTT,  
FAYETTE, FLEMING, FRANKLIN, GALLATIN, GRANT, GREENUP, HARRISON,  
JESSAMINE, LEWIS, MADISON, MASON, MERCER, MONTGOMERY, NICHOLAS,  
OWEN, ROBERTSON, ROWAN, SCOTT, & WOOLFORD COUNTIES

Rates	Fringes
-------	---------

Laborers:		
GROUP 1.....	\$ 23.26	15.62
GROUP 2.....	\$ 23.56	15.62
GROUP 3.....	\$ 23.51	15.62
GROUP 4.....	\$ 24.16	15.62

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

-----  
LABO0189-008 07/01/2020  
  
ANDERSON, BULLITT, CARROLL, HARDIN, HENRY, JEFFERSON, LARUE,  
MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE &  
WASHINGTON COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.26	15.62
GROUP 2.....	\$ 23.51	15.62
GROUP 3.....	\$ 23.56	15.62
GROUP 4.....	\$ 24.16	15.62

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement

Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

LAB00189-009 07/01/2020

BRECKINRIDGE & GRAYSON COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.26	15.62
GROUP 2.....	\$ 23.51	15.62
GROUP 3.....	\$ 23.56	15.62
GROUP 4.....	\$ 24.16	15.62

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer);

Brickmason Tender; Mortar Mixer Operator; Scaffold Builder;  
Burner & Welder; Bushhammer; Chain Saw Operator; Concrete  
Saw Operator; Deckhand Scow Man; Dry Cement Handler;  
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste  
- Level C; Forklift Operator for Masonary; Form Setter;  
Green Concrete Cutting; Hand Operated Grouter & Grinder  
Machine Operator; Jackhammer; Pavement Breaker; Paving  
Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven  
Georgia Buggy & Wheel Barrow; Power Post Hole Digger;  
Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind  
Trencher; Sand Blaster; Concrete Chipper; Surface Grinder;  
Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman;  
Gunnite Operator & Mixer; Grout Pump Operator; Side Rail  
Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free  
Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher;  
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste  
- Levels A & B; Miner & Driller (Free Air); Tunnel Blaster;  
& Tunnel Mucker (Free Air); Directional & Horizontal  
Boring; Air Track Drillers (All Types); Powdermen &  
Blasters; Troxler & Concrete Tester if Laborer is Utilized

-----  
PAIN0012-005 06/11/2005

BATH, BOURBON, BOYLE, CLARK, FAYETTE, FLEMING, FRANKLIN,  
HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS,  
ROBERTSON, SCOTT & WOODFORD COUNTIES:

	Rates	Fringes
PAINTER		
Bridge/Equipment Tender and/or Containment Builder..	\$ 18.90	5.90
Brush & Roller.....	\$ 21.30	5.90
Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement.....	\$ 22.30	5.90
Sandblasting & Waterblasting.....	\$ 22.05	5.90
Spray.....	\$ 21.80	5.90

-----  
PAIN0012-017 05/01/2015

BRACKEN, GALLATIN, GRANT, MASON & OWEN COUNTIES:

	Rates	Fringes
PAINTER (Heavy & Highway Bridges - Guardrails - Lightpoles - Striping)		
Bridge Equipment Tender and Containment Builder.....	\$ 20.73	9.06
Brush & Roller.....	\$ 23.39	9.06
Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement.....	\$ 24.39	9.06
Sandblasting & Water Blasting.....	\$ 24.14	9.06
Spray.....	\$ 23.89	9.06



PAIN0118-004 06/01/2018

ANDERSON, BRECKINRIDGE, BULLITT, CARROLL, GRAYSON, HARDIN,  
HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY,  
SPENCER, TRIMBLE & WASHINGTON COUNTIES:

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 22.00	12.52
Spray, Sandblast, Power Tools, Waterblast & Steam Cleaning.....	\$ 23.00	12.52

PAIN1072-003 12/01/2018

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS and ROWAN COUNTIES

	Rates	Fringes
Painters:		
Bridges; Locks; Dams; Tension Towers & Energized Substations.....	\$ 33.33	18.50
Power Generating Facilities.	\$ 30.09	18.50

PLUM0248-003 06/01/2020

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS & ROWAN COUNTIES:

	Rates	Fringes
Plumber and Steamfitter.....	\$ 37.05	21.48

PLUM0392-007 06/01/2018

BRACKEN, CARROLL (Eastern Half), GALLATIN, GRANT, MASON, OWEN &  
ROBERTSON COUNTIES:

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 32.01	19.67

PLUM0502-003 08/01/2020

BRECKINRIDGE, BULLITT, CARROLL (Western Half), FRANKLIN  
(Western three-fourths), GRAYSON, HARDIN, HENRY, JEFFERSON,  
LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE &  
WASHINGTON COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 36.92	20.78

SUKY2010-160 10/08/2001

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 16.57	7.34
GROUP 2.....	\$ 16.68	7.34
GROUP 3.....	\$ 16.86	7.34

GROUP 4.....\$ 16.96

7.34

TRUCK DRIVER CLASSIFICATIONS

- GROUP 1 - Mobile Batch Truck Tender
- GROUP 2 - Greaser; Tire Changer; & Mechanic Tender
- GROUP 3 - Single Axle Dump; Flatbed; Semi-trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Distributor; Mixer; & Truck Mechanic
- GROUP 4 - Euclid & Other Heavy Earthmoving Equipment & Lowboy; Articulator Cat; 5-Axle Vehicle; Winch & A-Frame when used in transporting materials; Ross Carrier; Forklift when used to transport building materials; & Pavement Breaker

-----

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

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)).

-----

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.

---

#### 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.

=====

END OF GENERAL DECISION"

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>
7.0%	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 Franklin County.

## **PART IV**

## **INSURANCE**

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

**PART V**

**BID ITEMS**

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	5,261.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	36.20	TON		\$	
0030	00103		ASPHALT SEAL COAT	4.30	TON		\$	
0040	00194		LEVELING & WEDGING PG76-22	30.00	TON		\$	
0050	00214		CL3 ASPH BASE 1.00D PG64-22	2,340.00	TON		\$	
0060	00216		CL3 ASPH BASE 1.00D PG76-22	431.00	TON		\$	
0070	00336		CL3 ASPH SURF 0.38A PG76-22	1,241.00	TON		\$	
0080	00356		ASPHALT MATERIAL FOR TACK	10.90	TON		\$	
0090	02069		JPC PAVEMENT-10 IN	744.00	SQYD		\$	
0100	02070		JPC PAVEMENT-12 IN	416.00	SQYD		\$	
0110	02071		JPC PAVEMENT-11 IN	705.00	SQYD		\$	
0120	02676		MOBILIZATION FOR MILL & TEXT (FRANKLIN US 60 @ I-64)	1.00	LS		\$	
0130	02677		ASPHALT PAVE MILLING & TEXTURING	974.00	TON		\$	
0140	10020NS		FUEL ADJUSTMENT	8,211.00	DOLL	\$1.00	\$	\$8,211.00
0150	10030NS		ASPHALT ADJUSTMENT	15,869.00	DOLL	\$1.00	\$	\$15,869.00

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0160	01718		REMOVE INLET	1.00	EACH		\$	
0170	01875		STANDARD HEADER CURB (TYPE 2)	125.00	LF		\$	
0180	01891		ISLAND HEADER CURB TYPE 2	338.00	LF		\$	
0190	01904		REMOVE CURB	573.00	LF		\$	
0200	01917		STANDARD BARRIER MEDIAN TYPE 2	115.70	SQYD		\$	
0210	01984		DELINEATOR FOR BARRIER - WHITE	12.00	EACH		\$	
0220	02003		RELOCATE TEMP CONC BARRIER	440.00	LF		\$	
0230	02014		BARRICADE-TYPE III	14.00	EACH		\$	
0240	02159		TEMP DITCH	1,875.00	LF		\$	
0250	02160		CLEAN TEMP DITCH	938.00	LF		\$	
0260	02200		ROADWAY EXCAVATION	7,269.00	CUYD		\$	
0270	02242		WATER	53.00	MGAL		\$	
0280	02483		CHANNEL LINING CLASS II	934.00	TON		\$	
0290	02484		CHANNEL LINING CLASS III	381.00	TON		\$	
0300	02545		CLEARING AND GRUBBING (APPROX. 4.2 ACRES)	1.00	LS		\$	
0310	02585		EDGE KEY	152.70	LF		\$	
0320	02650		MAINTAIN & CONTROL TRAFFIC (FRANKLIN US 60 @ I-64)	1.00	LS		\$	
0330	02671		PORTABLE CHANGEABLE MESSAGE SIGN	6.00	EACH		\$	
0340	02696		SHOULDER RUMBLE STRIPS	5,725.00	LF		\$	
0350	02701		TEMP SILT FENCE	1,875.00	LF		\$	
0360	02703		SILT TRAP TYPE A	4.00	EACH		\$	
0370	02704		SILT TRAP TYPE B	4.00	EACH		\$	
0380	02705		SILT TRAP TYPE C	4.00	EACH		\$	
0390	02706		CLEAN SILT TRAP TYPE A	4.00	EACH		\$	



Report Date 6/30/21

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0400	02707		CLEAN SILT TRAP TYPE B	4.00	EACH		\$	
0410	02708		CLEAN SILT TRAP TYPE C	4.00	EACH		\$	
0420	02726		STAKING (FRANKLIN US 60 @ I-64)	1.00	LS		\$	
0430	02775		ARROW PANEL	2.00	EACH		\$	
0440	02898		RELOCATE CRASH CUSHION	3.00	EACH		\$	
0450	03171		CONCRETE BARRIER WALL TYPE 9T	580.00	LF		\$	
0460	05950		EROSION CONTROL BLANKET	670.00	SQYD		\$	
0470	05952		TEMP MULCH	13,677.00	SQYD		\$	
0480	05953		TEMP SEEDING AND PROTECTION	10,258.00	SQYD		\$	
0490	05963		INITIAL FERTILIZER	.36	TON		\$	
0500	05964		MAINTENANCE FERTILIZER	.59	TON		\$	
0510	05985		SEEDING AND PROTECTION	10,970.00	SQYD		\$	
0520	05992		AGRICULTURAL LIMESTONE	7.11	TON		\$	
0530	06510		PAVE STRIPING-TEMP PAINT-4 IN	4,000.00	LF		\$	
0540	06530		PAVE STRIPING REMOVAL-4 IN	5,880.00	LF		\$	
0550	06542		PAVE STRIPING-THERMO-6 IN W	5,373.00	LF		\$	
0560	06543		PAVE STRIPING-THERMO-6 IN Y	3,692.00	LF		\$	
0570	06546		PAVE STRIPING-THERMO-12 IN W	429.00	LF		\$	
0580	06547		PAVE STRIPING-THERMO-12 IN Y	104.00	LF		\$	
0590	06556		PAVE STRIPING-DUR TY 1-6 IN W	2,348.00	LF		\$	
0600	06557		PAVE STRIPING-DUR TY 1-6 IN Y	1,576.00	LF		\$	
0610	06560		PAVE STRIPING-DUR TY 1-12 IN W	247.00	LF		\$	
0620	06568		PAVE MARKING-THERMO STOP BAR-24IN	144.00	LF		\$	
0630	06569		PAVE MARKING-THERMO CROSS-HATCH (YELLOW)	50.00	SQFT		\$	
0640	06574		PAVE MARKING-THERMO CURV ARROW	17.00	EACH		\$	
0650	06598		PAVEMENT MARKING REMOVAL	884.00	SQFT		\$	
0660	08903		CRASH CUSHION TY VI CLASS BT TL3	2.00	EACH		\$	
0670	20208NC		PAVE MARK-PAINT ARROWS	4.00	EACH		\$	
0680	20411ED		LAW ENFORCEMENT OFFICER	140.00	HOURL		\$	
0690	22045NN		FLUME INLET TY 2-MOD	1.00	EACH		\$	
0700	22520EN		PAVE MARKING-THERMO YIELD BAR-36 IN	15.00	LF		\$	
0710	22520EN		PAVE MARKING-THERMO YIELD BAR-36 IN (TYPE 1 TAPE)	15.00	LF		\$	
0720	22664EN		WATER BLASTING EXISTING STRIPE	2,250.00	LF		\$	
0730	23253ES717		PAVE MARK TY 1 TAPE CROSS HATCH (AND CHEVRONS)	444.00	SQFT		\$	
0740	23254ES717		PAVE MARK TY 1 TAPE DOTTED LANE EXT	58.00	LF		\$	
0750	23265ES717		PAVE MARK TY 1 TAPE STOP BAR-24 IN	45.00	LF		\$	
0760	23268ES717		PAVE MARK TY 1 TAPE-MERGE ARROW	4.00	EACH		\$	
0770	23270ES717		PAVE MARK TY 1 TAPE-CURV ARROW	14.00	EACH		\$	
0780	23607EC		PAVE MARK THERMO-LANE REDUCTION ARROW	2.00	EACH		\$	
0790	24489EC		INLAID PAVEMENT MARKER	130.00	EACH		\$	
0800	24679ED		PAVE MARK THERMO CHEVRON	48.00	SQFT		\$	
0810	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN (WHITE)	196.75	LF		\$	
0820	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN (YELLOW)	20.75	LF		\$	

Report Date 6/30/21

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0830	24894EC		REMOVE (PAVEMENT MARKER LENS)	6.00	EACH		\$	
0840	24969ED		LONGITUDINAL SAW CUT	3,922.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0850	00078		CRUSHED AGGREGATE SIZE NO 2	4.00	TON		\$	
0860	00461		CULVERT PIPE-15 IN	10.00	LF		\$	
0870	00462		CULVERT PIPE-18 IN	21.00	LF		\$	
0880	00464		CULVERT PIPE-24 IN	55.00	LF		\$	
0890	00524		STORM SEWER PIPE-24 IN	48.00	LF		\$	
0900	01001		PERFORATED PIPE-6 IN	18.00	LF		\$	
0910	01011		NON-PERFORATED PIPE-6 IN	32.00	LF		\$	
0920	01029		PERF PIPE HEADWALL TY 3-6 IN	3.00	EACH		\$	
0930	01033		PERF PIPE HEADWALL TY 4-6 IN	1.00	EACH		\$	
0940	01310		REMOVE PIPE	104.00	LF		\$	
0950	01433		SLOPED BOX OUTLET TYPE 1-18 IN	2.00	EACH		\$	
0960	01434		SLOPED BOX OUTLET TYPE 1-24 IN	4.00	EACH		\$	
0970	01487		CURB BOX INLET TYPE F	3.00	EACH		\$	
0980	01490		DROP BOX INLET TYPE 1	2.00	EACH		\$	
0990	01585		REMOVE DROP BOX INLET	2.00	EACH		\$	
1000	01705		REMOVE CURB & GUTTER BOX INLET	3.00	EACH		\$	
1010	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	460.00	SQYD	\$2.00	\$	\$920.00
1020	02625		REMOVE HEADWALL	10.00	EACH		\$	

Section: 0004 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1030	02562		TEMPORARY SIGNS	575.00	SQFT		\$	
1040	06400		GMSS GALV STEEL TYPE A	3,146.00	LB		\$	
1050	06405		SBM ALUMINUM PANEL SIGNS	435.00	SQFT		\$	
1060	06406		SBM ALUM SHEET SIGNS .080 IN	163.31	SQFT		\$	
1070	06407		SBM ALUM SHEET SIGNS .125 IN	285.08	SQFT		\$	
1080	06410		STEEL POST TYPE 1	608.00	LF		\$	
1090	06441		GMSS GALV STEEL TYPE C	1,056.00	LB		\$	
1100	06490		CLASS A CONCRETE FOR SIGNS	16.56	CUYD		\$	
1110	06491		STEEL REINFORCEMENT FOR SIGNS	220.00	LB		\$	
1120	20419ND		ROADWAY CROSS SECTION	2.00	EACH		\$	
1130	21134ND		REMOVE-STORE AND REINSTALL SIGN	3.00	EACH		\$	
1140	21373ND		REMOVE SIGN	24.00	EACH		\$	
1150	21596ND		GMSS TYPE D	16.00	EACH		\$	
1160	21596ND		GMSS TYPE D (SURFACE MOUNT)	1.00	EACH		\$	
1170	24631EC		BARCODE SIGN INVENTORY	51.00	EACH		\$	

Report Date 6/30/21

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1180	04820		TRENCHING AND BACKFILLING	100.00	LF		\$	
1190	04845		CABLE-NO. 14/7C	2,300.00	LF		\$	
1200	04886		MESSENGER-15400 LB	1,130.00	LF		\$	
1210	04932		INSTALL STEEL STRAIN POLE	8.00	EACH		\$	
1220	04953		TEMP RELOCATION OF SIGNAL HEAD	24.00	EACH		\$	
1230	20188NS835		INSTALL LED SIGNAL-3 SECTION	14.00	EACH		\$	
1240	20266ES835		INSTALL LED SIGNAL- 4 SECTION	4.00	EACH		\$	
1250	20390NS835		INSTALL COORDINATING UNIT	2.00	EACH		\$	
1260	23157EN		TRAFFIC SIGNAL POLE BASE	38.00	CUYD		\$	
1270	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	160.00	LF		\$	
1280	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	2.00	EACH		\$	
1290	24955ED		REMOVE SIGNAL EQUIPMENT	2.00	EACH		\$	
1300	26119EC		INSTALL RADAR PRESENCE DETECTOR TYPE A	4.00	EACH		\$	

Section: 0006 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1310	04820		TRENCHING AND BACKFILLING	70.00	LF		\$	
1320	04940		REMOVE LIGHTING	1.00	LS		\$	
1330	04942		REMOVE STORE & REINSTALL POLE	1.00	EACH		\$	
1340	23161EN		POLE BASE-HIGH MAST	6.00	CUYD		\$	
1350	24851EC		CABLE-NO. 10/3C DUCTED	70.00	LF		\$	

Section: 0007 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1360	02569		DEMOBILIZATION	1.00	LS		\$	