

CK09MERCER2019-31 ON-CALL SERVICES FOR INSTALLATION, REPLACEMENT AND REPAIR OF GUIDERAIL AT VARIOUS LOCATIONS THROUGHOUT MERCER COUNTY	
CONTRACT AWARD	
CONTRACT TERM: DECEMBER 24,2019 -DECEMBER 23,2020	
RES#2020-113	
NAME OF BIDDER	J. FLETCHER CREAMER & SON, INC.
ADDRESS	101 E. BROADWAY
CITY, STATE, ZIP	HACKENSACK, NJ 07601
CONTACT	ROBERT M.SCHEETZ
TELEPHONE	609.481.3327
FAX	609.561.6507
E-MAIL	BOBSCHEETZ@JFCSON.US
YEAR ONE TOTAL COST	\$1,234,567.00

CK09MERCER2019-31 PROPOSAL FOR YEAR ONE

SEQ NO.	NJDOT ITEMS	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT COST	TOTAL COST
		COSTS YEAR ONE			J.FLETCHER	
1A	NS159004P	TRAFFIC CONTROL – SHOULDER CLOSURE	UNIT	30	\$ 2,000.00	\$ 60,000.00
2A	NS159005P	TRAFFIC CONTROL – LANE CLOSURE ON A MULTI-LANE ROAD	UNIT	30	\$ 3,000.00	\$ 90,000.00
3A	NS159006P	TRAFFIC CONTROL – LANE CLOSURE ON A TWO-LANE ROAD	UNIT	30	\$ 3,000.00	\$ 90,000.00
4A	NS159007P	TRAFFIC CONTROL – LANE CLOSURE WITH ALTERNATING TRAFFIC	UNIT	20	\$ 5,000.00	\$ 100,000.00
5A	NS159008P	TRAFFIC CONTROL – ROAD CLOSURE WITH DETOUR	UNIT	20	\$ 1,000.00	\$ 20,000.00
6A	NS201009M	CLEARING SITE, GUIDE RAIL	LF	5000	\$ 15.00	\$ 75,000.00
7A	608003P	NON-VEGETATIVE SURFACE, HOT MIX ASPHALT	SY	3000	\$ 35.00	\$ 105,000.00
8A	609002M	BEAM GUIDE RAIL, POWDER COATED	LF	800	\$ 45.00	\$ 36,000.00
9A	609003M	BEAM GUIDE RAIL	LF	800	\$ 40.00	\$ 32,000.00
10A	NS609004M	BEAM GUIDE RAIL ON BRIDGE PARAPET	LF	500	\$ 135.00	\$ 67,500.00
11A	NS609005M	BEAM GUIDE RAIL ON BRIDGE PARAPET, POWDER COATED	LF	200	\$ 150.00	\$ 30,000.00
12A	NS609006M	ATTACHMENT FOR BEAM GUIDE RAIL TO EXISTING BRIDGE PARAPET	EACH	10	\$ 160.70	\$ 1,607.00
13A	609009M	MODIFIED THRIE BEAM GUIDE RAIL	LF	500	\$ 50.00	\$ 25,000.00
14A	NS609015M	THRIE BEAM GUIDE RAIL ON BRIDGE PARAPET	LF	500	\$ 135.00	\$ 67,500.00
15A	NS609015M	THRIE BEAM GUIDE RAIL ON BRIDGE PARAPET, POWDER COATED	LF	200	\$ 150.00	\$ 30,000.00
16A	609019M	FLARED GUIDE RAIL TERMINAL, POWDER COATED	UNIT	5	\$ 3,500.00	\$ 17,500.00
17A	609024M	FLARED GUIDE RAIL TERMINAL	UNIT	10	\$ 2,000.00	\$ 20,000.00
18A	609025M	BURIED GUIDE RAIL TERMINAL	UNIT	10	\$ 1.00	\$ 10.00
19A	609026M	TANGENT GUIDE RAIL TERMINAL, POWDER COATED	UNIT	10	\$ 4,000.00	\$ 40,000.00
20A	609027M	TANGENT GUIDE RAIL TERMINAL	UNIT	30	\$ 3,000.00	\$ 90,000.00
21A	609030M	TELESCOPING GUIDE RAIL END TERMINAL	UNIT	10	\$ 3,000.00	\$ 30,000.00
22A	NS609030M	TELESCOPING GUIDE RAIL END TERMINAL, POWDER COATED	UNIT	5	\$ 3,000.00	\$ 15,000.00
23A	609033M	CONTROLLED RELEASE TERMINAL	UNIT	20	\$ 500.00	\$ 10,000.00
24A	609035M	CONTROLLED RELEASE TERMINAL, POWDER COATED	UNIT	5	\$ 1,500.00	\$ 7,500.00
25A	609036M	CONTROLLED RELEASE TERMINAL ANCHORAGE	UNIT	20	\$ 750.00	\$ 15,000.00
26A	609039M	BEAM GUIDE RAIL ANCHORAGE	UNIT	80	\$ 350.00	\$ 28,000.00
27A	609042M	BEAM GUIDE RAIL POST	UNIT	500	\$ 40.00	\$ 20,000.00
28A	NS609042M	BEAM GUIDE RAIL POST, POWDER COATED	UNIT	50	\$ 55.00	\$ 2,750.00
29A	NS609045M	BEAM GUIDE RAIL POST, EXTRA LONG	UNIT	500	\$ 45.00	\$ 22,500.00
30A	NS609056M	BEAM GUIDE RAIL POST, EXTRA LONG, POWDER COATED	UNIT	50	\$ 60.00	\$ 3,000.00
31A	609054M	BEAM GUIDE RAIL ELEMENT	LF	500	\$ 12.00	\$ 6,000.00
32A	609055M	BEAM GUIDE RAIL ELEMENT, POWDER COATED	LF	500	\$ 20.00	\$ 10,000.00
33A	NS609057M	MODIFIED THRIE BEAM ELEMENT, POWDER COATED	LF	100	\$ 10.00	\$ 1,000.00
34A	609058M	APPROACH GUIDE RAIL TRANSITION TL-2	UNIT	5	\$ 1,500.00	\$ 7,500.00
35A	NS609058M	APPROACH GUIDE RAIL TRANSITION TL-2, POWDER COATED	UNIT	5	\$ 3,000.00	\$ 15,000.00
36A	609059M	APPROACH GUIDE RAIL TRANSITION TL-3	UNIT	5	\$ 2,500.00	\$ 12,500.00
37A	NS609059M	APPROACH GUIDE RAIL TRANSITION TL-3, POWDER COATED	UNIT	5	\$ 3,500.00	\$ 17,500.00
38A	609060M	BEAM GUIDE RAIL BLOCKOUT	UNIT	500	\$ 5.00	\$ 2,500.00
39A	609063M	RESET BEAM GUIDE RAIL WITH EXISTING POSTS	LF	1000	\$ 1.00	\$ 1,000.00
40A	609066M	RESET BEAM GUIDE RAIL, DUAL-FACED, WITH EXISTING POSTS	LF	500	\$ 1.00	\$ 500.00
41A	609069M	RESET MODIFIED THRIE BEAM GUIDE RAIL WITH EXISTING POSTS	LF	100	\$ 1.00	\$ 100.00
42A	609072M	RESET MODIFIED THRIE BEAM GUIDE RAIL, DUAL-FACED, WITH EXISTING POSTS	LF	100	\$ 1.00	\$ 100.00
43A	609075M	REMOVAL OF BEAM GUIDE RAIL	LF	10000	\$ 1.00	\$ 10,000.00
					\$	1,234,567.00

Approved as to Form and Legality

Date

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County Counsel

February 13, 2020
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AWARD OF BID RECEIVED NOVEMBER 26, 2019 TO J.FLETCHER CREAMER AND SON, INC. FOR ON CALL SERVICES FOR INSTALLATION, REPLACEMENT AND REPAIR OF GUIDERAILS AT VARIOUS LOCATIONS THROUGHOUT MERCER COUNTY AND THE MERCER COUNTY COOPERATIVE CONTRACT PURCHASING SYSTEM. PERIOD: DECEMBER 24, 2019 THROUGH DECEMBER 23, 2020, WITH THE OPTION TO EXTEND FOR ONE (1) YEAR. TOTAL NOT TO EXCEED: \$1,234,567.00 (CK09MERCER2019-31)

WHEREAS, the Mercer County Purchasing Department has advertised for bids for on call services for installation, replacement and repair of Guiderails at various locations throughout Mercer County and the Mercer County Cooperative Contract Purchasing System, through bid terms and specifications, as authorized by Resolution No. 2018-89, adopted February 8, 2019; and,

WHEREAS, two sealed bids were received on November 26, 2019 in connection with the aforementioned services; and,

WHEREAS, the bid of J. Fletcher Creamer and Son, Inc., 101 E. Broadway, Hackensack, NJ 07601 shall be awarded for a period of one (1) year with the option to extend for one (1), year in an amount not to exceed \$1,234,567.00; and,

WHEREAS, the bidder hereinafter designated is the lowest qualified bidder; and,

.....
Clerk to the Board

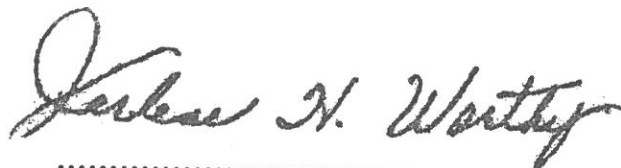
RECORD OF VOTE													
FREEHOLDER	Aye	Nay	N.V.	Abs.	Res.	Sec.	FREEHOLDER	Aye	Nay	N.V.	Abs.	Res.	Sec.
Cannon				X			Melker	X					
Cimino	X						Walter	X				✓	
Colavita				X			Koontz	X					
Frisby	X					✓							

X—Indicates Vote Abs.—Absent N.V.—Not Voting
 Res.—Resolution Moved Sec.—Resolution Seconded

WHEREAS, the Chief Financial Officer of Mercer County has certified in writing the availability of funds for the purposes set forth in this Resolution; said attached certification is on file with the Clerk to the Board and are contingent upon the inclusion in and the adoption of the 2020 Mercer County Budget; now, therefore

BE IT RESOLVED, that the County Executive and Clerk to the Board be and are hereby authorized to execute said contract when presented in a form approved by County Counsel; and,

BE IT FURTHER RESOLVED, that the Clerk to the Board shall forward a copy of this Resolution to the Director of Mercer County Transportation and Infrastructure and the Purchasing Department for further distribution.



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Clerk to the Board

ON-CALL SERVICES FOR INSTALLTION, REPLACEMENT AND REPAIR OF GUIDE RAIL AT VARIOUS LOCATIONS THROUGHOUT MERCER COUNTY

INTENT

This project entitled "On-Call Services for Installation and Replacement of Guide Rail, Various Locations throughout Mercer County" shall consist of installing new guide rail elements and repairing and replacing existing guide rail sections and end treatments that are damaged on an as needed basis. Work shall be performed on County roadways and on approaches to structures maintained by Mercer County. **The contractor shall be responsible for traffic control.** Use of subcontractors is permitted for maintenance and protection of traffic only.

Currently, Mercer County maintains approximately 180 centerline miles of roadway containing nearly 110,000 linear feet of guide rail. Mercer County also maintains numerous structures on local (off-system) roadways. Based on our most recent inventory, 283 structures (with a 5ft span or larger) off-system structures were identified. Of these, 183 structures have guide rail associated with them; 73 structures show no evidence that any guide rail was ever present; and 27 structures need further investigation (including 7 structures that were unable to be located).

Based on our guide rail condition assessment, we identified 53 high priority locations. Of these, 16 were addressed in 2019 and 17 locations should be upgraded in near future. In addition, 122 locations associated with bridges and culverts that need to be replaced or re-installed due to the damages or non-compliance with the current New Jersey Department of Transportation standards. It is the intent of this contract to install new guide rail at selected locations and upgrade guide rail in other areas so that it is consistent with the latest NJDOT standards.

QUALIFICATION OF BIDDERS

Bids for the service and/or supplies will be considered only from vendors not listed on any debarred list published by the State of New Jersey.

In addition, bidders shall be pre-qualified with the New Jersey Department of Transportation (NJDOT) in Class Code Key 5, Heavy Highway, OR Class Code 15, Guide Rail. Bidders must have performed similar guide rail maintenance services for five (5) years prior to the bid opening date. The NJDOT pre-qualification must be valid at the time bids are opened and at the time of contract renewal. Mercer County reserves the right not to renew the contract for year two (2) if the NJDOT Class Code Keys 5 OR 15 are not maintained.

The Contractor shall be responsible to provide qualified employees for performance of the work. The Contractor shall have at least five (5) years of experience in providing services that are similar in scope of work. The Contractor shall provide three (3) verifiable references.

The contract duration shall be for a period of one year with the option to extend one (1) one-year period.

BRAND OR EQUIVALENT

All references to brand names in the technical specifications shall be interpreted as brand or equivalent.

SPECIAL PROVISIONS

FOR ON-CALL SERVICES FOR INSTALLATION, REPLACEMENT AND REPAIR OF GUIDE RAIL AT VARIOUS LOCATIONS THROUGHOUT MERCER COUNTY

SPECIFICATIONS TO BE USED

The 2019 Standard Specifications for Road and Bridge Construction, of the New Jersey Department of Transportation and as amended herein, shall govern the construction of this project.

BASELINE DOCUMENT CHANGES

BASELINE DOCUMENT CHANGE (BDC) ANNOUNCEMENTS ARE NOTICES THAT A BASELINE DOCUMENT HAS BEEN MODIFIED IN PART OR IN WHOLE. A BASELINE DOCUMENT IS DEFINED AS ANY OFFICIAL DOCUMENT THAT HAS GONE THROUGH AN INITIAL APPROVAL PROCESS AND WAS APPROVED FOR USE AS INTENDED. THUS A BDC IS AN ALTERATION TO OR REWRITING OF ANY OFFICIALLY APPROVED DOCUMENT. NEW DOCUMENTS ARE ALSO ANNOUNCED WITH A BDC. **ALL BDC'S ISSUED THRU OCTOBER 15, 2019 ARE MADE PART OF THIS CONTRACT, I.E. BDC 19s-01 THRU BDC19S-06.**

FOR ADDITIONAL BDC'S TO THE 2019 SPECS THAT ARE NOT COVERED IN THIS DOCUMENT:

<http://www.state.nj.us/transportation/eng/documents/BDC/>

SS. SUPPLEMENTARY SPECIFICATIONS

THE FOLLOWING ADDITIONS, ALTERATIONS, AMENDMENTS, AND DELETIONS ARE HEREBY MADE TO THE RESPECTIVE ARTICLES OF THE PREVIOUSLY CITED STANDARD SPECIFICATIONS.

SHOULD LABOR, MATERIALS, OR EQUIPMENT, NOT PROVIDED FOR IN THE FOLLOWING SUPPLEMENTARY SPECIFICATIONS, BE REQUIRED FOR THE COMPLETION OF THE PROJECT, THE PROVISIONS OF THE PREVIOUSLY CITED STANDARD SPECIFICATIONS AND/OR OF SUCH CLARIFICATIONS OR INTERPRETATIONS AS THE ENGINEER MAY ISSUE, SHALL GOVERN AND PREVAIL.

DIVISION 100 – GENERAL PROVISIONS

SECTION 101 – GENERAL INFORMATION

101.04 INQUIRIES REGARDING PROJECT

THE FOLLOWING IS ADDED TO THIS SUBSECTION:

Direct inquiries regarding bid requirements and contract provisions concerning this contract to the following:

Isamar Maldonado
Mercer County McDade Administration Building
640 South Broad Street
Trenton, NJ 08650-0068
Telephone: (609) 989 – 6238

Direct all other technical inquiries to the following:

George Fallat, County Engineer
Mercer County
McDade Administration Building
640 South Broad Street
Trenton, NJ 08650-0068
Telephone: (609) 989 - 6600

SECTION 105-CONROL OF WORK

105.03-PLANS AND SPECIFICATIONS

Change the third paragraph of this subsection to:

Specifications will be furnished by the County Purchasing Department upon request at a charge of Twenty-five dollars (\$25.00) per set (not refundable) drawn to the order of the County of Mercer.

105.15-FIELD OFFICE

A field office is not required for this project.

SECTION 106-CONTROL OF MATERIAL

106.09-SUBSTITUTES FOR PROPRIETARY ITEMS

No substitution is permitted.

SECTION 107-LEGAL RELATIONS

107.04-NEW JERSEY CONTRACTUAL LIABILITY ACT

Change the fourth paragraph to:

For purposes of determining the date of "completion of the contract" pursuant to N.J.S.A. 59:13-5, "completion of the contract" occurs on the date that the Contractor

provides written notice to the Department of Acceptance or conditional Acceptance of the Proposed Final Certificate or the 30th day after the Department issues the Proposed Final Certificate, whichever event occurs first.

107.09-INDEPENDENT CONTRACTOR

Change the second sentence to:

It shall neither hold itself out as, nor claim to be, an officer or employee of the Department by reason hereof.

107.12.01-SATISFYING THE NOTICE REQUIREMENTS

Add the following to the second paragraph:

Upon request, provide the Engineer with 3 copies of all documentation submitted in support of the claim.

107.23-INSURANCE

Refer to Mercer County Specifications

107.24-PERSONAL LIABILITY OF PUBLIC OFFICIALS

Add the following:

There shall be no liability upon the County Executive or the Board of Chosen Freeholders of the County or Counties and the governing body of the Municipality or Municipalities within the limits of the project either personally or in an official capacity.

SECTION 108 – PROSECUTION AND COMPLETION

108.01-SUBCONTRACTING

Delete this section and replace with the following:

Use of subcontractors is permitted for maintenance and protection of traffic only.

108.02 -COMMENCEMENT OF WORK

Commence work no more than ten (10) calendar days from the time notice is provided by the County. The County will work with the Contractor's schedule so that work may progress on a whole, contiguous days to the extent possible.

108.08-LANE OCCUPANCY CHARGES

Delete this section

108.10-CONTRACT TIME

Modify this section to:

The contract duration shall be awarded for a period of one year with an option to extend one (1) year.

108.11.01-EXTENSIONS TO CONTRACT TIME

This section is deleted.

108.12-RIGHT-OF-WAY RESTRICTIONS

All Work is within existing Right of Way.

108.19-COMPLETION AND ACCEPTANCE

Add the following:

No Incentive Payment for Early Completion is specified for this project.

108.20-LIQUIDATED DAMAGES

Delete this section.

SECTION 109-MEASUREMENT AND PAYMENT

109.01-MEASUREMENT OF QUANTITIES

Change this subsection to:

Measurement will be made according to the United States customary English units. For work performed on County routes, tabulate the quantities by each roadway segment. For work performed on off-system roadways, indicate the road name and structure number. A sample table is provided below. The completed table shall be submitted along with the invoice

Submit invoice with the Sample Format below:

Data of Services: October 1, 2020 - October 31, 2020

ITEM No.	ITEM DESCRIPTION	UNIT	LOCATIONS			QTTY	UNIT PRICE	AMOUNT
			GR1154	GR0375	GR1296			
1A	TRAFFIC CONTROL -SHOULDER CLOSURE	UNIT	1		1	2	\$1,000	\$2,000.00
8A	BEAM GUIDE RAIL	LF	500	120	300	920	\$50	\$46,000
26A	BEAM GUIDE RAIL POST	UNIT	5	5	12	22	\$40	\$880
43A	REMOVAL OF BEAM GUIDE RAIL	LF	450	110	280	840	\$5	\$4,200

INVOICE TOTAL: \$53,080.00

109.13-MAINTENANCE BOND

Delete this section in its entirety. Refer to Mercer County Specifications.

There shall be no liability upon the County Executive or the Board of Chosen Freeholders of the County or Counties and the governing body of the Municipality or Municipalities within the limits of the project either personally or in an official capacity.

SECTION 153-PROGRESS SCHEDULE

Delete this section in its entirety

SECTION 154-MOBILIZATION

Delete this section in its entirety

SECTION 155-CONSTRUCTION FIELD OFFICE

Delete this section and replace as follows:

A field office is not required.

SECTION 159-TRAFFIC CONTROL

159.03.08-TRAFFIC DIRECTION

A. Flagger.

Add the following:

The contracting unit shall be responsible for the coordination and setup of all traffic safety control and calculate the number and placement of all necessary personnel, and equipment needed for a project. Any services and costs directly associated with the provision of uniformed traffic control law enforcement officers shall be coordinated by the contractor. The local police shall submit invoices for services directly to Mercer County.

159.04-MEASUREMENT AND PAYMENT

Delete this section and replace with the following:

When installing, removing and repairing guide rail, set up traffic control in accordance with the New Jersey Department of Transportation Standard Traffic Control Details. Measurement and payment for Traffic Control is based on the following:

Pay Item

TRAFFIC CONTROL – SHOULDER CLOSURE Set up shall substantially conform to NJDOT Detail Sheet TCD-3	<u>Unit</u>
TRAFFIC CONTROL – LANE CLOSURE ON A MULTI-LANE ROAD Set up shall substantially conform to NJDOT Detail Sheet TCD-8	<u>Unit</u>
TRAFFIC CONTROL – LANE CLOSURE ON A TWO-LANE ROAD Set up shall substantially conform to NJDOT Detail Sheet TCD-3	<u>Unit</u>
TRAFFIC CONTROL – LANE CLOSURE WITH ALTERNATING TRAFFIC Set up shall substantially conform to NJDOT Detail Sheet TCD-4	<u>Unit</u>
TRAFFIC CONTROL – ROAD CLOSURE WITH ALTERNATING TRAFFIC Prepare a detour plan that conforms to the Manual on Uniform Traffic Control Devices and submit to the Engineer for review and approval. Submit plan a minimum of five (5) working days prior to date of closure.	<u>Unit</u>

Modify type, number and placement of devices as needed to accommodate field conditions and as directed by the Engineer.

The above includes but is not limited to furnishing , installing ,maintaining, relocating and removing all signs, barricades, drums, cones, flashing arrow boards, message boards, truck mounted impact attenuators and all other traffic control devices required to safely perform the maintenance and/or repair work and protect the public. The above items will be paid for on a daily basis, regardless of the time required to implement the set up or number of hours per day the closure is in place. Work that does not require lane closures is permitted within the work hours of 7:30 AM to 4:00 PM, Monday through Friday, excluding Mercer County holidays. Lane or road closures on County roads will only be permitted from 9:00 AM to 3:30 PM, Monday through Friday, excluding Mercer County holidays. Work performed on non-County roadways shall be permitted according to restrictions imposed by the local municipality.

If the local municipality requires police to direct traffic, make all necessary arrangements. However, billing and payment for local police shall be made directly through Mercer County.

No separate payment shall be made for Flaggers. Include all costs with the Pay items listed above

SECTION 160-PRICE ADJUSTMENTS

160.03.01-FUEL PRICE ADJUSTMENT

Delete this section and replace as follows:

No fuel price adjustment shall be provided.

SECTION 201 – CLEARING SITE

201.03.01- CLEARING SITE

Add the following at the end of Article B:

Clearing site for installation of beam guide rails and end treatments. The work shall consist of removing excessive dirt and debris and regrading the surface within 2 feet of each side of the guiderail that will be installed. This work should be directed or approved by the County before started.

201.04 MEASUREMENT AND PAYMENT

THE FOLLOWING ITEMS ARE ADDED

<i>Item</i>	<i>Pay Unit</i>
CLEARING SITE, GUIDE RAIL	LF

SECTION 609 – BEAM GUIDE RAIL

609.02-MATERIALS

Add the following:

Under certain circumstances and only as directed by the Engineer, provide guide rail elements that are powder coated gloss brown or black.

Powder	
Coating.....	912.02.05

The department will decide the material used of NCHRP 350 (TL-3, 27 ¼” high) or MASH (TL-3, 31” high) for end treatments (913.01.02) or posts and blockouts (913.01.03) based on site condition without any additional charges to the department.

609.03.01 Beam Guide Rail

Add the following:

Do not begin work on any section of guide rail until preparations have been made to complete the installation of the section, including posts, rail, and anchors, as a continuous operation. Once work has been initiated, complete that section unless inclement weather or other conditions beyond the control of the contractor. If a section cannot be completed due to inclement weather, unknown utility conflicts or other extenuating circumstances, take measures to ensure the hazard for which guide rail is installed is fully protected and that a crashworthy treatment of exposed guide rail is provided. Measures may include placement of temporary impact attenuators, crash cushions or concrete barrier.

Dismantle and remove damaged and/or existing guide rail and all components; including concrete anchors, metal anchor sleeves, or anchor plates, at locations directed by the Engineer. Exercise care not to damage adjoining structures or other appurtenances. Any damage shall be repaired at no cost to the County. All damaged guide rail and components which have been removed shall become the property of the Contractor and shall be disposed of in a timely manner.

Replace posts in kind as those removed. Intermixing of wooden and steel posts will not be allowed except for end treatments placed on guide rail with steel posts. Replace damaged guide rail end units and anchor units with the current NJDOT standard application.

The guide rail anchor units to be paid for will be the actual number of units which have been completed and accepted. No separate measurement will be made of any rail, terminal sections, posts, offset blocks, concrete, hardware, or any other components of the completed unit as all such components will be considered to be part of the unit.

All bid items listed on the bid sheet shall include all necessary incidental hardware to complete the guide rail repairs.

Work shall be completed within ten (10) calendar days of verbal or written notification by the County. Failure to comply within the ten (10) calendar day timeframe shall be a basis for termination of the contract.

609.03.03 Terminals and Anchorages

THE FIRST SENTENCE OF THE SECOND PARAGRAPH IS CHANGED TO:

Excavate for post holes as specified in 202.03.03.

THE FOLLOWING NEW SUBPARTS ARE ADDED:

609.03.07 Beam Guide Rail Post, Extra Long

Install beam guide rail posts of various lengths in excess of 6 feet long as specified in 609.03.01.

609.03.08 Beam Guide Rail on Bridge

Add the following at end of the section

C. Beam Guide Rail and Thrie Beam Guide Rail Attachment on Parapet.

Provide the plans to accommodate the parapet sizes approved by the County.

Install beam guide rail consisting of steel double rail elements, steel blockouts and steel posts welded to a base plate and mounted on bridge structure parapet utilizing epoxy-grouted anchors approved by the Department. Install the required attachments as shown on the plans.

Core drill the holes in the bridge parapet for anchor bolts with a core drill bit. Ensure core drill bit sizes for anchor bolt holes conform to manufacture's

recommendations. Space holes and locate to clear existing deck reinforcement, deck joints, conduits, and junction boxes. Fasten anchor bolts to the concrete according to the manufacturer's recommendations.

Ensure parapet concrete material is not damaged during the drilling for anchor bolts. Repair damage to the existing concrete caused by construction operations at no additional compensation.

Furnish Certification as specified in 106.07 that the 7/8 inch diameter anchor bolt has a minimum pullout strength of 24 kips.

609.04 MEASUREMENT AND PAYMENT

THE FOLLOWING ITEMS ARE ADDED

<i>Item</i>	<i>Pay Unit</i>
BEAM GUIDE RAIL ON BRIDGE PARAPET	LF
BEAM GUIDE RIAL ON BRIDGE PARAPET,POWDER COATED	LF
ATTACHMENT FOR BEAM GUIDE RAIL TO EXISTING BRIDGE PARAPET	EA
BEAM GUIDE RAIL, POWDER COATED	LF
THRIE BEAM GUIDE RAIL, POWDER COATED	LF
TANGENT GUIDE RAIL TERMINAL, POWDER COATED	LF
TELESCOPING GUIDE RAIL END TERMINAL, POWDER COATED	LF
CONTROLLED RELEASE TERMINAL, POWDER COATED	LF
BEAM GUIDE RAIL POST, POWDER COATED	LF
BEAM GUIDE RAIL POST, EXTRA LONG, POWDER COATED	LF
BEAM GUIDE RAIL ELEMENT, POWDER COATED	LF
APPROACH GUIDE RAIL TRANSITION TL-2, POWDER COATED	LF
APPROACH GUIDE RAIL TRANSITION TL-3, POWDER COATED	LF

THE FOLLOWING ARE ADDED AT THE END OF THE SUBSECTION:

The Department will make payment for BEAM GUIDE RAIL POST, EXTRA LONG by the unit. A unit consists of the length of post beyond 6 feet in length and blockout.

Submit invoices on a bi-weekly basis for all jobs that have been completed to date. List each job individually by location and include the following information:

- Date work performed
- Location by road name, county route number, or county structure number
- List of materials used, unit bid price, and subtotal cost
- Grand total.

Measurement and payment for items that are powder coated shall be ten (10) per cent above the costs for various bid items listed.

SECTION 912 – PAINTS, COATINGS, TRAFFIC STRIPES, AND TRAFFIC MARKINGS

THE FOLLOWING IS ADDED:

912.02.05 POWDER COATING

Where specified, apply powder coat treatment to traffic signal above ground equipment including poles, mast arms, signal housing units, cabinets and mounting hardware. Powder coat using gloss black coating in accordance with the procedures specified below prior to delivery on site.

1. Surface Preparation. The line speed shall be automated and shall be controlled to ensure uniform surface preparation. As part of the integrated system, to ensure that the prepared parts are kept clean and not exposed to dirt, dust, grease or oil and to ensure maximum powder coat adhesion, the product shall proceed continuously and immediately to the powder coating process within the same facility where the poles and arms are manufactured.

1. Powder Coating. Powder coating material shall be thermosetting Polyester Powder Coating. A minimum coating thickness of 1-1/2 mils shall be maintained. Application of powder shall be electrostatically applied by an automated powder coating system to assure uniform coating thickness. The powder shall be applied only when both the ambient and part temperature are above 50 degrees Fahrenheit. Once powder coated, the product shall proceed through a curing oven operating at 400 degrees Fahrenheit that has been surveyed and certified for temperature uniformity. The product shall move continuously through the oven from beginning to end and shall attain the time at temperature in accordance with the paint manufacturers recommendations. Once oven cured, the product shall move immediately to and continuously through a cooling tunnel designed to restore the product to acceptable packaging temperature prior to inspection and packaging. Upon exiting the cooling tunnel, the product shall be immediately inspected and packaged.

2. Inspection and Packaging. Each coated part shall be inspected for appearance and uniformity and thickness. Any part that does not meet the specified coating thickness shall be recoated. Coated product shall be spiral wrapped with foam backed 5 mil polyethylene film or burlap material of sufficient tensile and elongation characteristics to ensure protection during handling and shipping. The product shall be bundled with sufficient dunnage and strapping to prevent damage during shipment.

4. Warranty. The manufacturer shall warranty its factory applied powder coatings against cracking, peeling or excessive fading due to normal climatic exposure for a period of five (5) years from the date of shipment.