



PUTNAM COUNTY
INVITATION TO BID (ITB)

Bid Number: 21-42001-002	Project Name: SR 44 @ Scott Road Traffic Signal Installation
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Due Date and Time: May 26, 2021 Local Time: 3:00	Number of Pages: 39
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ISSUING DEPARTMENT INFORMATION

Putnam County
 County Manager's Office
 Issue Date: April 28, 2021
 Phone: 706-485-5826
 Fax: 706-923-2345

INSTRUCTIONS TO BIDDERS

Return Submittal By Mail To: Putnam County Board of Commissioners ATTN: Paul Van Haute County Manager 117 Putnam Drive Suite A Eatonton, GA 31024	<ul style="list-style-type: none"> • Mark Face of Sealed Envelope/Package: Bid Number: 21-42001-002 Name of Company: _____
	<ul style="list-style-type: none"> • Special Instructions: Deadline for Questions: May 17, 2021 – 5:00 PM • No Pre-Bid Meeting • Email questions to Larry Kaiser (owner's representative) at ; kaiser@co-infra-services.com (call 404-909-5619 to confirm receipt of email) • Refer to ITB package for additional instructions

BIDDERS MUST COMPLETE THE FOLLOWING

Bidder Name/Address:	Authorized Bidder Signatory: (Please print name and sign in ink)
Bidder Phone Number:	Bidder FAX Number:
Bidder State I.D. Number:	Bidder E-mail Address:

BIDDERS MUST RETURN THIS COVER SHEET WITH BID RESPONSE

INVITATION TO BID TRAFFIC SIGNAL INSTALLATION

Putnam County is accepting sealed bids from qualified firms for traffic signal installation and associated construction improvements at the intersection of **SR 44 at Scott Road** for the Putnam County Board of Commissioners in conformance with Title 32, Chapter 4, Article 4, Part 2 of the Official Code of Georgia Annotated. All work will be done in accordance with Georgia Department of Transportation's (GDOT) Standard Drawings, Standard Specifications, and Pay Items Index as standards and specifications for the construction and completion of the work required. All bidders must comply with all general and special requirements of the bid information and instructions enclosed in the bid package. Work required under the Contract generally includes all labor and materials for the installation of mast arms and strain poles, controller cabinet, wiring, internally illuminated signs, striping, pedestrian ramps, crosswalks and associated signal and roadway work tasks as included on the signal plans.

The bid submittal requires a Base Bid and an Alternate Bid.

The project shall be Substantially Complete within **120 calendar** days from the date of issuance of the Notice to Proceed. Liquidated damages of \$500 per day will be assessed if work is not completed within 120 calendar days (excluding delays associated with weather or quantifiable material shortages) from the date of the Notice to Proceed issuance.

Source of project funding is Putnam County TSPLOST.

Putnam County will receive sealed bids (ITB package – Bid #21-42001-002) until **3:00 PM on May 26, 2021 at 117 Putnam Drive, Suite A, Eatonton, GA 31024; ATTN: Paul Van Haute – County Manager**. Bids received after 3:00 PM on May 26, 2021 will not be accepted. Bids will be opened and publicly read aloud in the Administration Building Conference Room (Room 301) at approximately 3:05 PM on May 26, 2021. All interested parties are invited to attend. A pre-bid conference will not be held. Apparent bid results will be posted on the county web site; <http://www.putnamcountyga.us>. Bids received after the above date and time or in any location other than that specified will not be accepted.

Bidding Documents are available for download from the Putnam County Board of Commissioners web site; <http://www.putnamcountyga.us>.

Bids shall be presented in a sealed envelope with Bid #21-42001-002 and the name of the company or firm submitting clearly marked on the outside of the envelope. Bids will not be accepted verbally, email or by fax.

Award will be made to the vendor submitting the lowest and responsive bid for the Base Bid and the Alternative Bid. The bidder will be disqualified from bidding if both bids are not submitted.

The Putnam County Board of Commissioners reserves the right to reject any or all bids and re-advertise, to waive any informalities or irregularities and to make an award as deemed in its best interest. The written bid documents supersede any verbal or written prior communications between the parties.

All contractors shall submit with the bid, a bid bond, certified check or cashier's check in the amount of five percent (5%) of the total bid, made payable to Putnam County, Georgia. The selected contractor will be required to submit a one hundred percent (100%) performance bond and a one hundred percent (100%) payment bond upon being notified of an award.

Putnam County does not discriminate on the basis of disability in the admission or access to its programs or activities. Any requests for reasonable accommodations required by individuals to fully participate in any open meeting, program or activity of the Putnam County Government should be directed to Paul Van Haute, County Manager, Putnam County Administrative Offices, 706-485-5826.

All questions regarding the bid documents shall be made via email to the Project Manager; kaiser@co-infra-services.com. The Project Manager will acknowledge receipt of questions. If bidder does not receive acknowledgement, it's the bidder's responsibility to contact the Project Manager at 404-909-5619 to ensure questions are received. Questions must be submitted no later than 5:00 PM on May 17, 2021. The County will post "Response to Questions and/or Addendum", if applicable, on the County web site no later than 5:00 PM on May 20, 2021.

PUTNAM COUNTY
(Invitation to Bid 21-42001-002)

INVITATION TO BID INSTRUCTIONS

**FAILURE TO RETURN THE FOLLOWING COMPLETED BID DOCUMENTS
COULD RESULT IN THE BID BEING DEEMED NON-RESPONSIVE AND BEING
REJECTED:**

Item	Description
1	Filled out and Signed Invitation to Bid (cover sheet)
2	Bid Form (7 pages)
3	Addendum Acknowledgment
4	Bid Bond (3 pages)
5	Qualification Signature and Certification
6	Statement of Bidder Qualifications (2 pages)
7	List of Subcontractors
8	Contractor & Sub-Contractor Affidavit and Agreement (E-Verify)
9	Disclosure Form

Failure to include any of the above items fully complete and executed could force your bid to be declared as “non-responsive” and it could not be considered for award

If a Bid is forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope to the attention of OWNER at the address previously given. If bid is sent electronically, bidder to place name of the company submitting the bid and the Bid Number in the email subject line.

Any and all Bids received without the aforementioned criteria enclosed will be returned to Bidder. Any Bid received after said time and date will be marked late and not opened. Bids will be publicly opened and read aloud on May 26, 2021 at 3:05 PM at the Administration Building Conference Room (Room 301).

THERE WILL BE A BID OPENING AND READING ONLY. No determination of award recommendation will be made until a thorough evaluation has been conducted by Putnam County including receipt and evaluation of any additional information, of any kind, from any Bidder.

The Instructions to Bidders, Bid Information and Forms, Project Manual, Specifications, Drawings, Bid Bond, Performance and Labor & Material Payment Bond requirements and other Documents related to the bidding and construction of the Work of this Project may be obtained via the Putnam County web site; <http://www.putnamcountyga.us>.

BIDS MUST BE SUBMITTED IN RESPONSE TO THE PROJECT IN ITS ENTIRETY. NO PARTIAL BIDS WILL BE ACCEPTED.

The Putnam County is the only official source for this invitation and any addenda that may be issued will be provided by the Putnam County. Putnam County will not be held responsible for errors or omissions in submitted bids.

The Contractor's Bid will include the furnishing of all labor, materials, equipment, and all items necessary pursuant to Drawings, Specifications and Conditions, etc., for Traffic Signal Installation at the 3-legged intersection of SR 44 at Scott Road (hereinafter referred to as the Project).

Proposed Project Location: Intersection of SR 44 at Scott Road
Eatonton, GA

Scope of Work: The proposed improvements consist of installation of a traffic Signal; including all associated construction improvements at said intersection. The base bid includes the labor cost only for the strain poles/mast arms installations and all labor and materials for associated construction improvements. The alternate bid is for labor and materials for the complete traffic signal installation and all associated construction improvements.

Bidder Experience Requirements:

1. The Bidder maintains a permanent place of business and has a current business license.
2. The Bidder has operated under the current corporate name for at least the last five (5) years.
3. The Bidder currently has sufficient bonding capacity. Contractor to provide performance and payment bonds, both in the amount of 100 percent of the contract amount.
4. The Bidder has not defaulted on a project or failed to complete a project within the last ten years.
5. The Bidder has not filed for bankruptcy nor been judged bankrupt at any time over the last ten years.
6. The Bidder has a history of completing projects consistently on time and within the bid amount.
7. The Bidder must be GDOT prequalified.
8. The Bidder has available at least two (2) project management personnel with at least five years' experience on projects with the technical characteristics required of a project of similar scope. One of these project management personnel must be the Project Superintendent and must be on the jobsite at all times during construction. Documentation of this experience must be provided with the bids, including resumes of the two project management personnel and a list of at least 3 similar projects completed by the bidder with project name, description, and reference contact information.
9. The Bidder is not, nor any of its affiliated companies, currently involved in a dispute, formal claim, or litigation with Putnam County, or with any authority or organization with which the Putnam County has a vested interest.
10. The Bidder has a written Quality Control/Quality Assurance Program (must submit to County if selected).
11. The Bidder has a written Safety Program (must submit to County if selected).

Project Schedule:

PROJECT HAS A MANDATORY COMPLETION DATE OF 120 CALENDAR DAYS

Contractor understands that time is of the essence for completion of the project and, because damages will be difficult to ascertain, the parties shall include a provision in the Contract agreeing that liquidated damages in the amount of five hundred dollars (\$500.00) per calendar day shall be paid by Contractor for each day that Contractor is in default of completing the work within the agreed-upon time frame. Completion of the work includes successfully passing any required punch-list inspection by the designer or owner. The only exception to the liquidated damages will be for quantifiable weather events or material shortages for the cabinet controller or the mast arms/poles.

The successful bidder shall commence work with an adequate force and equipment on a date to be specified in a written order of the Owner (Anticipated Notice to Proceed – June 11, 2021), and shall complete the work within the time period allotted. Payment will be made to the contractor each calendar month based on the estimated work complete and in place as prescribed by the standard specifications. Retainage as prescribed by the standard specifications will be withheld. Final payment of amount withheld will not be made until the work has been satisfactorily completed and accepted by Owner.

Bid Information:

The County will assume no responsibility for representations or understandings concerning conditions made by its officers or employees unless included in this invitation for bid. While site inspections are not a mandatory requirement to submit a bid, contractors are urged to take a self-guided site visit to ascertain all requirements of this invitation.

A Bid Bond in the amount of not less than 5% of the total amount of the base bid must be submitted with each bid made payable to the Putnam County. Failure to supply bond will force your bid to be declared non-responsive.

The successful bidder shall provide a 100% payment and a 100% performance bond at the signing of the contract. Failure to supply bonds will result in default of contract.

Failure to sign your bid in the proper space provided on Part II (Bid Form) will force your bid to be declared as “non-responsive” and it will not be considered for award.

No bid may be withdrawn for a period of sixty (60) days after time has been called on the date of opening.

Contract, if awarded, will be on a lump sum basis and in the best interest of the Putnam County.

The Putnam County reserves the right, with or without notice or cause, to accept any bid regardless of the amount thereof; to reject any bid, any number of bids or all bids; to negotiate with any bidder for a reduction or alteration in its bid; to waive or insist upon formal requirements; to reject all bids and to call for additional bids upon the same or different Invitation to Bid and/or Plans and Specifications; to be sole judge, in its discretion, of all questions as to whether or not a bid complies with the Invitation to Bid, the Plans or the Specifications, and as to the qualifications of a bidder to perform the Contract.

Signal Plans (Exhibit A) and attached to the ITB package.

Questions must be submitted in writing to Larry Kaiser, P.E. with the Putnam County via email; kaiser@co-infra-services.com. The final day of questions shall be **May 17, 2021 at 5:00 PM**. All questions and/or addendum will be answered via addendum posted on the County's website. No phone calls will be accepted.

The successful bidder will be issued one (1) complete set of documents for construction execution. Any additional sets required will be at the bidder's expense. A land disturbance permit will not be required for the work.

END OF SECTION

INSTRUCTIONS TO BIDDERS/PROPOSERS

SECTION 1

1.1 QUALIFICATIONS

Firm must have a current Contractor's Public Liability Insurance policy and must be insurable in the following amounts: Bodily injury, including death limits of \$1,000,000 for each accident. Property damage limits of \$2,000,000 for each accident and \$10,000,000 for the aggregate of operations. (The OWNER reserves the right to require additional limits and/or coverage for actual contract.)

O.C ERRORS IN BIDS:

Bidders or their authorized representatives are expected to fully inform themselves as to the conditions, requirements, and specifications before submitting bids. Failure to do so will be at the bidder's own risk. In case of error in extension of prices in the bid, the contract price will govern.

O.D CONTRACT INFORMATION

The contract will be a lump sum contract. The total lump sum bid price will include materials, labor, tools, equipment and all other miscellaneous and/or necessary items to complete the project.

1.4 STATEMENT OF AGREEMENT

With the submission of a bid, the Bidder agrees that he/she has carefully examined the Invitation to Bid and the bidding documents and the Bidder agrees that it is the Bidder's responsibility to request clarification on any issues in any section of the Invitation to Bid with which the Bidder disagrees or needs clarified. The Bidder also understands that failure to mention these items in the bid will be interpreted to mean that the Bidder is in full agreement with the terms, conditions, specifications and requirements therein. With submission of a bid, the Bidder hereby certifies: (a) that this bid is genuine and is not made in the interest or on behalf of any undisclosed person, firm, or corporation; (b) that Bidder has not directly or indirectly included or solicited any other Bidder to put in a false or insincere bid; (c) that Bidder has not solicited or induced any person, firm, or corporation to refrain from sending a bid.

END OF SECTION

GENERAL CONDITIONS

SECTION 2

2.1 MULTIPLE BIDS:

No vendor shall be allowed to submit more than one bid.

2.2 BID FOR ALL OR PART:

Bidders must submit a bid for the Base Bid items of the project. Bidder may not restrict his bid to consideration in the aggregate but must name a price on each item bid upon.

2.3 PRICES TO BE FIRM:

Bidder warrants that bid prices, terms and conditions quoted in his bid will be firm for acceptance for a period of Sixty (60) days from bid opening date, unless otherwise stated in the bid.

2.4 COMPLETENESS:

All information required by Invitation for Bids must be completed and submitted to constitute a proper bid proposal.

2.5 QUALITY:

All materials, or supplies used for the construction necessary to comply with this bid shall be of the best quality and of the highest standard of workmanship. Workmanship employed in any construction, repair, or installation required by this bid shall be of the highest quality and meet recognized standards within the respective trades, crafts, and of the skills employed.

2.6 GUARANTEE:

Unless otherwise specified by the County, the Bidder shall unconditionally guarantee the materials and workmanship on all material and/or services. If, within the guarantee period any defects occur which are due to faulty material and/or services, the contractor at his expense, shall repair or adjust the condition, or replace the material and/or services to the complete satisfaction of the County. These repairs, replacement or adjustments shall be made only at such time as will be designated by the County as being least detrimental to the operation of the County business.

2.7 LIABILITY PROVISIONS:

Where bidders are required to enter or go onto County property to take measurements or gather other information in order to prepare the bid or proposal as requested by the County, the bidder shall be liable for any injury, damage or loss occasioned by negligence of the bidder, his agent, or any person the bidder has designated to prepare the bid and shall indemnify and hold harmless the County from any liability arising therefrom. The contract documents specify the liability provisions required of the successful bidder in order to be awarded a contract with the County.

2.8 CANCELLATION OF CONTRACT:

The contract may be cancelled or suspended by the County in whole or in part by written notice of

default to the contractor upon non-performance or violation of contract terms.

2.9 PATENT INDEMNITY:

Except as otherwise provided, the successful bidder agrees to indemnify the County and its officers, agents and employees against liability, including costs and expenses for infringement upon any letters patent of the United States arising out of the performance of this contract or out of the use of disposal for the account of the County of supplies furnished or construction work performed hereunder.

2.10 CERTIFICATION OF INDEPENDENT PRICE DETERMINATION:

By submission of this bid, the bidder certifies, and in the case of a joint bid each party thereto certifies, as to its own organization, that in connection with this procurement:

- (1) The prices in this bid have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
- (2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder prior to opening, directly or indirectly to any other bidder or to any competitor; and
- (3) No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a bid for the purpose or restricting competition.

2.11 SIGNED BID CONSIDERED OFFER:

The signed bid shall be considered an offer on the part of the bidder, which offer shall be deemed accepted upon approval by the County, Purchasing Agent or his designee. In case of default on the part of the bidder after such acceptance, the County may take action as it deems appropriate, including legal action for damages or lack of required performance.

2.12 NOTICE TO PROCEED:

The successful bidder or proposer shall not commence work under this Invitation to Bid until a written contract is awarded and a Notice to Proceed is issued by the County or their designee. If the successful bidder does commence any work or deliver items prior to receiving official notification, he does so at his own risk.

2.13 TERMS OF CONTRACT:

This is a one-time Contract

2.14 RESPONSIBILITY FOR CLAIMS AND RELIABILITY:

The Contractor shall agree to hold harmless, indemnify and defend the County and its agents. The Contractor will require any and all Subcontractors to conform to the provisions of this clause prior to commencing any work and agrees to insure that this clause is in conformity with the insurance provisions of the contract.

2.15 BASIS OF CONTRACT AWARD:

If the contract is awarded, it will be awarded to the lowest qualified responsive and responsible bidder.

The County reserves the right to reject any or all bids and to waive any technicalities.

Contracts will be administered by the County Representative. Invoices will be submitted to the County Representative as directed.

2.16 SUBLETTING, ASSIGNMENT OR TRANSFER

The County considers the work of the CONTRACTOR personal. The CONTRACTOR agrees not to assign, sublet, or transfer any or all of its interest in this agreement without prior written approval of the County.

The County reserves the right to review all subcontracts prepared in connection with the agreement, and the CONTRACTOR agrees that it shall submit to the County any proposed subcontract documents together with the subcontractor cost estimates for review and written concurrence of the County in advance of their execution. All subcontracts of \$10,000 or more shall include the provisions set forth in this agreement.

2.17 PRE-CONSTRUCTION CONFERENCE:

The contractor shall attend a pre-construction conference prior to commencing any work.

END OF SECTION

BONDING REQUIREMENTS

Each bid must be accompanied with a **BID BOND** (bond only: certified checks or other forms are not acceptable) in an amount equal to five percent (5%) of the base bid, payable to the Putnam County. Said bid bond guarantees the bidder will enter into a contract to construct the project strictly within the terms and conditions stated in this bid and in the bidding and contract documents, should the construction contract be awarded.

The Successful Bidder shall be required to furnish **PAYMENT AND PERFORMANCE BONDS** for the faithful performance on the contract and a bond to secure payment of all claims for materials furnished and/or labor performed in performance of the project, both in amounts equal to one hundred percent (100%) of the contract price.

Bonds shall be issued by a corporate surety appearing on the Treasury Department's most current list (Circular 570 as amended) and be authorized to do business in the State of Georgia. Bonds shall be on the forms provided by the County and subject to the review and approval of the County Attorney.

Date of Bond must not be prior to date of Contract. If Contractor is a Partnership, all partners shall execute Bond.

END OF SECTION

OATH

Prior to commencing the Work, the successful bidder shall execute a written oath as required by O.C.G.A. §§ 32-4-122 and 36-91-21(e).

COST OF PREPARING A PROPOSAL

The costs for developing and delivering responses to this ITB and any subsequent presentations of the proposal as requested by the County are entirely the responsibility of the bidder. The County is not liable for any expense incurred by the bidder in the preparation and presentation of their proposal. All materials submitted in response to this ITB become the property of the Putnam County.

END OF SECTION

[BIDDERS MUST RETURN THIS FORM WITH BID RESPONSE]

BID FORM

Bid Form Page 1 of 7
Putnam County, GA

In compliance with your Invitation to Bid, the undersigned, hereinafter termed the Bidder, proposes to enter into a Contract with the Putnam County to provide the necessary machinery, tools, apparatus, and other means of construction, and all materials and labor specified in the Contract, necessary to complete the work in the manner therein specified within the time specified, as therein set forth, for:

Traffic Signal Installation at SR 44 at Scott Road.

The Bidder has carefully examined and fully understands the Contract and other Contractual Documents hereto attached and has made a personal examination of the proposed Work and has satisfied himself as to the actual conditions and requirements of the Work, and hereby proposes and agrees that if his Bid is accepted, he will contract with the Putnam County in full conformance with the Contract Documents.

It is the intent of this Bid to include all items of construction and all Work indicated on the Signal Drawings (Exhibit A) and called for in the Specifications and General Notes in the plan set prepared by Southeast Engineering (SEI). Selected bidder must provide all required submittals to GDOT for either the Base Bid or the Alternate Bid.

The Bidder agrees that the cost of any work performed, materials furnished, services provided, or expenses incurred, which are not specifically delineated in the Contract Documents, but which are incidental to the scope, intent, and completion of the Contract, shall be deemed to have been included in the prices bid for the various items scheduled.

Selected bidder will be required to submit a Traffic Control plan to the GDOT for approval.

The Bidder further proposes and agrees hereby to promptly commence the Work with adequate forces and equipment within ten (10) calendar days from receipt of Notice to Proceed and to s u b s t a n t i a l l y complete all Work within One Hundred Twenty (120) calendar days from the Notice to Proceed. If weather affects the required completion schedule, The County and selected Bidder will negotiate a new completion date.

Bidder understands that bids must be submitted for both the Base Bid and the Bid Alternate. If bids are not submitted for both, the bidder will be deemed as unqualified for the purposes of this ITB and bid will be rejected.

UNIT PRICE SCHEDULE

Base Bid includes all work described in the project description and items described below. The total cost amounts for the estimated quantities below (contractor to verify) are for the **Base Bid and Bid Alternate**. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit. The unit prices listed below are complete as specified, acknowledges that the estimated quantities are not guaranteed, and agrees that payment will be for actual in-place quantities installed per the plans.

BASE BID SCHEDULE OF ITEMS

SIGNAL

ITEM NO.	DESCRIPTION	UNIT	EST QTY	UNIT COST	TOTAL
639-3004	STEEL STRAIN POLE, TYPE IV (w/ 35' MAST ARM) – BLACK POWDER COATED	EA	1		
639-3004	STEEL STRAIN POLE, TYPE IV (w/ 55' MAST ARM) – BLACK POWDER COATED	EA	1		
639-3004	STEEL STRAIN POLE, TYPE IV (W/ 60' MAST ARM) – BLACK POWDER COATED	EA	1		
647-1000	TRAFFIC SIGNAL INSTALLATION #1 ¹	LUMP	LS		
647-2140	PULL BOX, PR-4	LUMP	1		
647-3000	INTERNALLY ILLUMINTED STREET SIGN (2 DOUBLE-SIDED & 1 SINGLE)	EA	3		
647-3100	INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY (INCL. HANGERS)	EA	1		
682-9950	DIRECTIONAL BORE, 5"	LF	95		
682-9950	DIRECTIONAL BORE, 7"	LF	115		
687-1000	TRAFFIC SIGNAL TIMING	LUMP	LUMP		
937-6000	MICROWAVE RADAR DETECTION ASSEMBLY	EA	4		
937-8020	TESTING – MICROWAVE DETECTION SYSTEM	LUMP	LUMP		
937-8520	TRAINING – MICROWAVE DETECTION SYSTEM	LUMP	LUMP		
SUBTOTAL (Base Bid)				\$	

ROADWAY

ITEM #	DESCRIPTION	UNIT	EST QTY	UNIT COST	TOTAL
150-1000	TRAFFIC CONTROL	LUMP	LUMP		
205-0100	CONSTRUCTION ALLOWANCE ²	LUMP	LUMP	5,000	5,000
210-0100	GRADING COMPLETE	LUMP	LUMP		
310-5060	GR AGGR BASE CRS, 6 INCH, INCL MATL	SY	30		
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	3		
441-7011	CURB CUT WHEELCHAIR RAMP, TYPE A	EA	2		
441-7012	CURB CUT WHEELCHAIR RAMP, TYPE B	EA	2		
500-9999	CLASS B CONC, BASE OR PVMT WIDENING	CY	5		
610-9001	REMOVE SIGN	EA	2		
653-0120	THERMO PLASTIC PVMT MARKINGS, ARROW, TY 2	EA	4		
653-1501	THERMO PLASTIC TRAF STRIPE, 5 IN, WHITE	LF	563		
653-1502	THERMO PLASTIC TRAF STRIPE, 5 IN, YELLOW	LF	419		
653-1704	THERMO PLASTIC TRAF STRIPE; 24 IN, WHITE	LF	50		
653-1804	THERMO PLASTIC TRAF STRIPE; 8 IN. WHITE	LF	743		
653-6006	THERMO TRAF STRIPING; YELLOW	SY	50		
656-0050	REMOVE EXIST SOLID TRAF STRIPE, 5 IN THERMO	LF	1231		
656-0080	REMOVE EXIST SOLID TRAF STRIPE, 8 IN THERMO	LF	90		
656-0120	REMOVE EXIST SOLID TRAF STRIPE, 12 IN, THERMO	LF	154		
656-0240	REMOVE EXIST SOLID TRAF STRIPE, 24 IN, THERMO	LF	80		
656-5000	REMOVE EXIST PVMT MARKINGS	EA	4		
SUBTOTAL (Base Bid)				\$	

TOTAL (Base Bid)	\$
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Note:¹ Strain poles and mast arms may be purchased by the County in the **Base Bid**. This Base Bid price for Signal Installation shall **only** reflect compensation for labor and means necessary to install said steel strain poles and mast arms (including all foundation work).

Prices must be entered for all blanks in the schedule. If there is an error in the calculation for the total amount entered, the bid unit price multiplied by the Estimated Quantity will be the bid amount that is considered included in the Base Bid.

Providing items in excess of the amount shown on the plans (only if requested by the County) will be paid at the unit price, upon verification of quantities by the County's site representative.

Note:² To be utilized at the sole discretion of the county

ALTERNATE BID SCHEDULE OF ITEMS

SIGNAL

ITEM NO.	DESCRIPTION	UNIT	EST QTY	UNIT COST	TOTAL
639-3004	STEEL STRAIN POLE, TYPE IV (w/ 35' MAST ARM) – BLACK POWDER COATED	EA	1		
639-3004	STEEL STRAIN POLE, TYPE IV (w/ 55' MAST ARM) – BLACK POWDER COATED	EA	1		
639-3004	STEEL STRAIN POLE, TYPE IV (w/ 60' MAST ARM) – BLACK POWDER COATED	EA	1		
647-1000	TRAFFIC SIGNAL INSTALLATION #1	LUMP	LS		
647-2140	PULL BOX, PR-4	LUMP	1		
647-3000	INTERNALLY ILLUMINTED STREET SIGN (2 DOUBLE-SIDED & 1 SINGLE)	EA	3		
647-3100	INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY (INCL. HANGERS)	EA	1		
682-9950	DIRECTIONAL BORE, 5"	LF	95		
682-9950	DIRECTIONAL BORE, 7"	LF	115		
687-1000	TRAFFIC SIGNAL TIMING	LUMP	LUMP		
937-6000	MICROWAVE RADAR DETECTION ASSEMBLY	EA	4		
937-8020	TESTING – MICROWAVE DETECTION SYSTEM	LUMP	LUMP		
937-8520	TRAINING – MICROWAVE DETECTION SYSTEM	LUMP	LUMP		
SUBTOTAL (Alt. Bid)				\$	

ROADWAY

ITEM #	DESCRIPTION	UNIT	EST QTY	UNIT COST	TOTAL
150-1000	TRAFFIC CONTROL	LUMP	LUMP		
205-0100	CONSTRUCTION ALLOWANCE ²	LUMP	LUMP	5,000	5,000
210-0100	GRADING COMPLETE	LUMP	LUMP		
310-5060	GR AGGR BASE CRS, 6 INCH, INCL MATL	SY	30		
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	3		
441-7011	CURB CUT WHEELCHAIR RAMP, TYPE A	EA	2		
441-7012	CURB CUT WHEELCHAIR RAMP, TYPE B	EA	2		
500-9999	CLASS B CONC, BASE OR PVMT WIDENING	CY	5		
610-9001	REMOVE SIGN	EA	2		
653-0120	THERMO PLASTIC PVMT MARKINGS, ARROW, TY 2	EA	4		
653-1501	THERMO PLASTIC TRAF STRIPE, 5 IN, WHITE	LF	563		
653-1502	THERMO PLASTIC TRAF STRIPE, 5 IN, YELLOW	LF	419		
653-1704	THERMO PLASTIC TRAF STRIPE; 24 IN, WHITE	LF	50		
653-1804	THERMO PLASTIC TRAF STRIPE; 8 IN. WHITE	LF	743		
653-6006	THERMO TRAF STRIPING; YELLOW	SY	50		
656-0050	REMOVE EXIST SOLID TRAF STRIPE, 5 IN THERMO	LF	1231		
656-0080	REMOVE EXIST SOLID TRAF STRIPE, 8 IN THERMO	LF	90		
656-0120	REMOVE EXIST SOLID TRAF STRIPE, 12 IN, THERMO	LF	154		
656-0240	REMOVE EXIST SOLID TRAF STRIPE, 24 IN, THERMO	LF	80		
656-5000	REMOVE EXIST PVMT MARKINGS	EA	4		
SUBTOTAL (Alt. Bid)				\$	

TOTAL (Alt. Bid)	\$
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Note: ² To be utilized at the sole discretion of the county

Prices must be entered for all blanks in the schedule. If there is an error in the calculation for the total amount entered, the bid unit price multiplied by the Estimated Quantity will be the bid amount that is considered included in the Base Bid.

Providing items in excess of the amount shown on the plans (only if requested by the County) will be paid at the unit price, upon verification of quantities by the County's site representative.

BASE BID TOTAL: \$ _____

PRINT: _____

ALTERNATE BID TOTAL: \$ _____

PRINT: _____

COMPANY

SIGNATURE

DATE

PRINT NAME

TITLE

[BIDDERS MUST RETURN THIS FORM WITH BID RESPONSE]

ADDENDA ACKNOWLEDGEMENT

Bidder acknowledges receipt of the following addenda:

Addendum No.	Date viewed
_____	_____
_____	_____
_____	_____
_____	_____

Add additional pages as necessary for the Addendum.

Bidder further declares that the full name and resident address of Bidder's Principal is as follows:

Signed, sealed, and dated this _____ day of _____, 202__

Bidder _____ (Seal)
Company Name

Bidder Mailing Address:

Signature: _____

Print Name: _____

Title: _____

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to the County upon Default of Bidder the penal sum set forth on the face of this Bond.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension of that time agreed to in writing by the County) the executed Agreement required by the Bidding Documents and any performance and payment Bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
 - a. The County accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension of that time agreed to in writing by the County) the executed Agreement required by the Bidding Documents and any performance and payment Bonds required by the Bidding Documents; or
 - b. All Bids are rejected by the County; or
 - c. The County fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension of that time agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon Default by Bidder within 30 calendar days after receipt by Bidder and Surety of a written Notice of Default from the County, which Notice will be given with reasonable promptness and will identify this Bond and the Project and include a statement of the amount due.
5. Surety waives notice of, as well as any and all defenses based on or arising out of, any time extension to issue a Notice of Award agreed to in writing by the County and Bidder, provided that the total time, including extensions, for issuing a Notice of Award shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond either prior to 30 calendar days after the Notice of Default required in paragraph 4 above is received by Bidder and Surety or later than one year after Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the State of Georgia.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer or proposal, as applicable under the particular circumstances.

12. The terms of this Bid Bond shall be governed by the laws of the State of Georgia.

[BIDDERS MUST RETURN THIS FORM WITH BID RESPONSE]

QUALIFICATIONS SIGNATURE AND CERTIFICATION

I certify that this offer is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a proposal for the same materials, supplies, equipment, or services and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of State and Federal Law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the proposal and certify that I am authorized to sign this proposal for the proposer. I further certify that the provisions of the Official Code of Georgia Annotated, including but not limited to Title 32, Chapter 4, Article 4, Part 2 and Sections 45-10-20 et seq. have not been violated and will not be violated in any respect.

Authorized Signature _____ Date _____

Print/Type Name _____

Print/Type Company Name Here _____

CORPORATE CERTIFICATE

I, _____, certify that I am the Secretary of the Corporation named as Contractor in the foregoing bid; that _____ who signed said bid in behalf of the Contractor, was then (title) _____ of said Corporation; that said bid was duly signed for and in behalf of said Corporation by authority of its Board of Directors, and is within the scope of its corporate powers; that said Corporation is organized under the laws of the State of _____.

This _____ day of _____, 20 _____

(Seal) (Signature)

[BIDDERS MUST RETURN THIS FORM WITH BID RESPONSE]

STATEMENT OF BIDDER QUALIFICATIONS

(To be subscribed and sworn to before a notary public)

Page 1 of 2

Firm Name: _____
LEGAL NAME OF BUSINESS (As registered with Secretary of State)

Address: _____
LEGAL BUSINESS ADDRESS (P.O. BOX IS INSUFFICIENT)

COUNTY STATE ZIP

MAILING ADDRESS IF DIFFERENT FROM ABOVE

Telephone Number: _____ Facsimile Number: _____

Contact Person Name and Email Address: _____

Georgia Resident: YES _____ NO _____

When Organized: _____ Where Incorporated: _____

Federal I.D. No.: _____ or Social Security No.: _____

Number of years engaged in the contracting business under the present firm name: _____

General Contractor's License Number: _____

Credit Available for This Contract: _____

Contracts Now in Hand, Gross Amount: _____

The bidder has refused to sign a contract at the original bid. YES or NO (Please circle one)

The bidder has been declared in default on a contract. YES or NO (Please circle one)

The bidder has been involved in litigation or filing claims against Owners, Construction Contract Administration Firms, or Design Firms in the last 3 years. YES or NO (Please circle one)

If answer is Yes to any statement above, please explain:

The bidder has written corporate safety and quality assurance/quality control processes in place, and the County may examine these documents if requested. YES or NO (Please circle one)

STATEMENT OF BIDDER QUALIFICATIONS (continued)

Page 2 of 2

I certify that the above information is complete, true, and correct.

COMPANY

DATE

SIGNATURE

TITLE

Sworn to and subscribed before me this _____ day of _____, 2019.

Notary Public

(SEAL)

[BIDDERS MUST RETURN THIS FORM WITH BID RESPONSE]

LIST OF SUBCONTRACTORS

I do _____, do not _____, propose to subcontract some of the work on this project. I propose to Subcontract work to the following subcontractor(s):

Company #1

Company Name: _____

Company Address: _____

Company President & Phone Number: _____

Company #2:

Company Name: _____

Company Address: _____

Company President & Phone Number: _____

Company #3:

Company Name: _____

Company Address: _____

Company President & Phone Number: _____

ATTACH ADDITIONAL PAGES AS NECESSARY

[BIDDERS MUST RETURN THIS FORM WITH BID RESPONSE]

EXHIBIT A

STATE OF GEORGIA

PUTNAM COUNTY

CONTRACTOR AFFIDAVIT AND AGREEMENT

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm, or corporation which is contracting with the Putnam County has registered with and is participating in a federal work authorization program, in accordance with the applicability provisions and deadlines established in O.C.G.A. § 13-10-91.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with the Putnam County, contractor will secure from such subcontractor(s) similar verification of compliance with O.D.G.A. § 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08 in the form attached hereto as Exhibit "B" Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the Putnam County at the time the subcontractor(s) is retained to perform such service.

EEV / Basic Pilot Program User Identification Number

BY: Authorized Officer or Agent Date

Print Contractor Name

Title of Authorized Officer or Agent of Contractor

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN
BEFORE ME ON THIS THE
____ DAY OF _____, 201_

Notary Public
My Commission Expires:

[BIDDERS MUST RETURN THIS FORM WITH BID RESPONSE]

EXHIBIT B

STATE OF GEORGIA

PUTNAM COUNTY

SUB- CONTRACTOR E-VERIFY

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm, or corporation which is contracting with Putnam County has registered with and is participating in a federal work authorization program, in accordance with the applicability provisions and deadlines established in O.C.G.A. § 13-10-91.

The undersigned agrees that they shall be in compliance with O.C.G.A. § 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08. Sub-contractor further agrees to maintain records of such compliance and provide a copy of each such verification to Putnam County at the time the Contractor is retained to perform contract services with Putnam County.

EEV / Basic Pilot Program User Identification Number

BY: Authorized Officer or Agent Date

Print Sub- Contractor Name

Title of Authorized Officer or Agent of Sub-Contractor

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE
____ DAY OF _____, 202_

Notary Public (Seal):

My Commission Expires: _____

In compliance with the attached Specification, the undersigned offers and agrees that if this Bid is accepted, by the Putnam County Board of Commissioners within One Hundred Twenty (120) days of the date of Bid opening, that he will furnish any or all of the Items upon which Prices are quoted, at the Price set opposite each Item, delivered to the designated point(s) within the time specified in the Bid Schedule.

COMPANY _____

ADDRESS _____

AUTHORIZED SIGNATURE _____

PRINT / TYPE NAME _____

TITLE _____

[BIDDERS MUST RETURN THIS FORM WITH BID RESPONSE]

DISCLOSURE FORM

This form is for disclosure of campaign contributions and family member relations with Putnam County officials/employees or Owner's Representative (Collaborative Infrastructure Service employees).

Please complete this form and return as part of your bid package when it is submitted.

Name of Bidder _____

Name and the official position of the Putnam County Official to whom the campaign contribution was made (Please use a separate form for each official to whom a contribution has been made in the past two (2) years.)

List the dollar amount/value and description of each campaign contribution made over the past two (2) years by the Applicant/Opponent to the named Putnam County Official.

Amount/Value	Description
_____	_____
_____	_____
_____	_____

Please list any family member that is currently (or has been employed within the last 2 years) by Putnam County and your relation:

SCHEDULE OF EVENTS

FOR REFERENCE ONLY - DO NOT SUBMIT WITH BID RESPONSE

Event:

Date:

Release of ITB

Wednesday, April 28, 2021

Deadline for Written Questions *

Monday, May 17, 2021; 5:00 PM

*Submit questions via email to Larry Kaiser; kaiser@co-infra-services.com

Putnam County to post on county web site
“Response to Questions” and/or Addendum

Thursday, May 20, 2021; 5:00 PM

Bids Due: May 26, 2021 @ 3:00PM

Bids are due to:

Putnam County Board of Commissioners
Attn: Paul Van Haute
117 Putnam Drive
Suite A
Eatonton, GA 31024

Contract Award (On/about)

June 7, 2021

Notice to Proceed Issued (On/about)

June 11, 2021

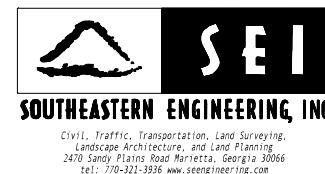
EXHIBIT A

Traffic Signal Plans

(Dated 3/15/2021)

TRAFFIC SIGNAL GENERAL NOTES

1. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF THE FOLLOWING: GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS (SPECIFICALLY SECTIONS 647 & 925), THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE NATIONAL ELECTRIC CODE AND GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARDS AND DETAILS.
2. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.
3. 3-PAIR 18 AWG SHIELDED STRANDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET, DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CONTROL CABINET. ONLY ONE (1) PHASE PER LEAD-IN CABLE WILL BE ALLOWED.
4. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN VICINITY OF NEW TRAFFIC SIGNAL POLES PRIOR TO ORDERING. AT THE DISCRETION OF THE ENGINEER, MINOR SHIFTS, (UP TO A MAXIMUM OF 5 FEET), IN LOCATION OF NEW SIGNAL POLES, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PLANS.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY TIMBER POLES WHEN ATTACHING SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. MATERIAL CERTIFICATION AND APPROVAL BY GDOT TRAFFIC SIGNAL MANAGER AND/OR DEPARTMENT DESIGNEE IS REQUIRED PRIOR TO ORDERING ANY SIGNAL EQUIPMENT OR BEGINNING ANY INSTALLATION WORK. USE ONLY EQUIPMENT AND MATERIALS THAT ARE ON THE DEPARTMENT'S QUALIFIED PRODUCTS LIST (QPL). THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE LATEST EDITION OF THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS (SPECIFICALLY SECTIONS 647 & 925).
7. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE DISTRICT TRAFFIC SIGNAL MANAGER PRIOR TO FINAL ACCEPTANCE. NOTIFICATION OF REQUEST FOR INSPECTION MUST BE SENT IN WRITING OR VIA E-MAIL TO THE DISTRICT SIGNAL MANAGER AT "GEORGIA DEPARTMENT OF TRANSPORTATION, 643 HIGHWAY 15 SOUTH TENNILLE, GEORGIA 31089, ATTENTION: DISTRICT SIGNAL MANAGER" A MINIMUM OF ONE WEEK PRIOR TO THE DATE OF INSPECTION.
8. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.
9. THE INSTALLATIONS OF TRAFFIC SIGNALS ON THE STATE ROUTE SYSTEM SHALL BE CAPABLE OF MONITORING OVER IP NETWORKS FROM EXISTING CENTRAL COMPUTERS. CENTRAL COMPUTERS ARE LOCATED AT 935 EAST UNITED AVENUE BLDG. 24 ATLANTA, GEORGIA 30316. NETWORK ABILITIES DEMONSTRATION IS REQUIRED AT CENTRAL SITES PRIOR TO FINAL ACCEPTANCE.
10. ALL EXISTING STOP BARS, WORDS, ARROWS, AND CROSSWALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE REPLACED IN ACCORDANCE WITH CURRENT GDOT STANDARDS.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL VERTICAL AND HORIZONTAL OVERHEAD UTILITY CLEARANCES PER NEC AND GDOT SPECIFICATIONS. ANY EXISTING OVERHEAD UTILITIES THAT ARE IN CONFLICT WITH THE TRAFFIC SIGNAL INSTALLATION WILL HAVE TO BE ADJUSTED. MINOR SHIFTS (UP TO 5 FT) IN NEW STRAIN POLE LOCATIONS AT THE DISCRETION OF THE ENGINEER ARE ACCEPTABLE TO AVOID OVERHEAD UTILITIES. CONTRACTORS SHALL COORDINATE WITH UTILITY OWNERS TO MAKE UTILITY HEIGHT ADJUSTMENTS WHENEVER NEEDED TO ACCOMMODATE SIGNAL SPAN WIRE. THE SIGNAL SPAN SHALL BE 40 INCHES BELOW THE POWER LINE NEUTRAL. A 10' CLEAR ZONE SHALL BE MAINTAINED BETWEEN OVERHEAD POWER UTILITIES AND SIGNAL EQUIPMENT.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH MODIFYING AND ESTABLISHING NEW POWER AND COMMUNICATIONS SERVICES FOR TRAFFIC SIGNALS, DETECTION SYSTEMS, AND/OR CCTV CAMERAS ON THIS PROJECT. IF A UTILITY TRANSFORMER IS REQUIRED FOR TRAFFIC SIGNAL EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE AS PART OF THEIR BID PRICE, FOR THAT TRAFFIC SIGNAL INSTALLATION IF THE RESPECTIVE UTILITY REQUIRES PAYMENT FOR INSTALLATION.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL MONTHLY POWER AND COMMUNICATION SERVICE TO THE TRAFFIC SIGNAL INSTALLATION AND SUPPORT DEVICES, UNTIL THE NEW TRAFFIC SIGNAL INSTALLATION HAS SATISFACTORILY COMPLETED A TEST PERIOD OF UNINTERRUPTED OPERATION, FOR THIRTY (30) DAYS. UPON COMPLETION OF THE TEST PERIOD, AND THE LETTER OF ACCEPTANCE FROM THE DISTRICT SIGNAL ENGINEER, THE CONTRACTOR WILL COMPLETE A TRANSFER OF UTILITY COST TO PUTNAM COUNTY BOARD OF COMMISSIONERS.
14. PROPOSED ATTACHMENT HEIGHT LOCATIONS ARE PROVIDED AS GENERAL GUIDELINES TO THE TRAFFIC SIGNAL INSTALLER. ACTUAL ATTACHMENT HEIGHTS SHALL BE FIELD DETERMINED BY INSTALLER PRIOR TO ORDERING SIGNAL POLES TO PROVIDE REQUIRED SIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM EXISTING UTILITIES.
15. ALL PEDESTRIAN SIGNAL HARDWARE (PEDESTRIAN SIGNAL HEADS, MOUNTING BRACKETS, PUSH BUTTON STATIONS, PUSH BUTTON STATION ADAPTERS, PEDESTAL POLES AND BASES, ETC) ARE TO BE BLACK. ALL SPAN WIRE/MAST ARM MOUNTED SIGNAL HARDWARE (SIGNAL HEADS, MOUNTING BRACKETS, GOOSENECKS, ETC) ARE TO BE BLACK.
16. AS PER SOME POWER COMPANIES, IT IS REQUIRED THAT ALL TRAFFIC CONTROL DEVICES BE METERED. IF A METER IS REQUIRED, THE METER AND THE DISCONNECT BOX WILL NEED TO BE INSTALLED ON A PEDESTAL MOUNTED STRUCTURE BLACK IN COLOR (SEE POWER SERVICE ASSEMBLY DETAIL). THE SIGNAL CONTRACTOR IS TO COORDINATE WITH THE LOCAL POWER COMPANY FOR POWER CONNECTION AND METERING REQUIREMENTS.
17. THE METER BASE WILL BE SUPPLIED BY THE LOCAL POWER COMPANY. IT WILL BE A 200 AMP COMMERCIAL TYPE WITH A MANUAL BY-PASS SWITCH.
18. THE DISCONNECT NEEDS TO BE 60 AMP NONFUSABLE OUTDOOR TYPE. THE DISCONNECT WILL NEED TO BE A LOCKABLE TYPE. CONTRACTOR IS TO PROVIDE LOCKS AND KEYS.
19. A COMPLETE SIGNAL TIMING PROGRAM IS TO BE DEVELOPED AND INSTALLED IN THE SIGNAL CONTROLLER. SEE GEORGIA DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA SPECIAL PROVISION SECTION 687 - TRAFFIC SIGNAL TIMING.
20. UPON THE ISSUANCE OF NOTICE TO PROCEED ANY EXISTING TRAFFIC SIGNAL EQUIPMENT RESPONSIBILITIES FOR MAINTENANCE, OPERATIONS, AND RESPONSE TO TRAFFIC SIGNAL MALFUNCTIONS BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND WILL END WHEN THE DEPARTMENT ACCEPTS THE SIGNAL. PROVISIONS OF SUBSECTION 647.3.07, "CONTRACTOR WARRANT AND MAINTENANCE", APPLY.







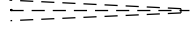


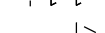







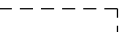
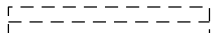
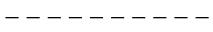



REVISION DATES

NO.	DATE	DESCRIPTION







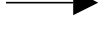
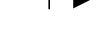








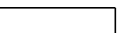
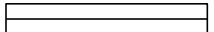








PUTNAM COUNTY
 BOARD OF COMMISSIONERS
 COLLABORATIVE INFRASTRUCTURE SERVICES
SIGNAL PLANS
 SR 44 AT SCOTT RD
 SIGNAL NOTES

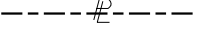
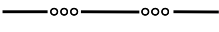




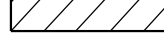



DRAWING No.
27-0000

EXISTING SIGNAL

-  CONTROLLER CABINET
-  STRAIN POLE
-  TIMBER POLE
-  DOWN GUY
-  MAST ARM
-  STREET LIGHT
-  3 SECTION HEAD
-  4 SECTION HEAD W/BACKPLATE
-  4/5 SECTION (CLUSTER/T-SHAPE) HEAD
-  OVERHEAD SIGN
-  PEDESTAL POLE
-  PED SIGNAL HEAD
-  CURB CUT RAMP
-  PULLBOX, (TYPE TO BE CALLED OUT)
-  6X6 PULSE LOOP
-  6X18 CALL LOOP
-  6X40 PRESENCE LOOP (DIPOLE)
-  6X40 PRESENCE LOOP (QUADRUPOLE)
-  CONDUIT
-  RAILROAD CONTROLLER
-  SIGN POST

PROPOSED SIGNAL

-  CONTROLLER CABINET
-  STRAIN POLE
-  TIMBER POLE
-  DOWN GUY
-  MAST ARM
-  STREET LIGHT
-  3 SECTION HEAD
-  3 SECTION HEAD W/ BACKPLATE
-  4 SECTION HEAD
-  4/5 SECTION (CLUSTER/T-SHAPE) HEAD
-  OVERHEAD SIGN
-  PEDESTAL POLE
-  PED SIGNAL HEAD
-  CURB CUT RAMP - (SEE ADA DETAIL)
-  PULLBOX, (TYPE TO BE CALLED OUT)
-  6x6 PULSE LOOP
-  6x18 CALL LOOP
-  6x40 PRESENCE LOOP (DIPOLE)
-  6x40 PRESENCE LOOP (QUADRUPOLE)
-  CONDUIT, (TYPE TO BE CALLED OUT)
-  RAILROAD CONTROLLER
-  SIGN POST
-  RADAR DETECTION DEVICE
-  MAGNETOMETER DETECTION DEVICE
-  VIDEO DETECTION DEVICE
-  VIRTUAL DETECTION ZONE (RADAR, VIDEO, ETC.)

PROPERTY AND EXISTING R/W LINE		BEGIN LIMIT OF ACCESS.....BLA	
REQUIRED R/W LINE		END LIMIT OF ACCESS.....ELA	
CONSTRUCTION LIMITS		LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES			
EASEMENT FOR CONSTR OF DRIVES			



REVISION DATES	

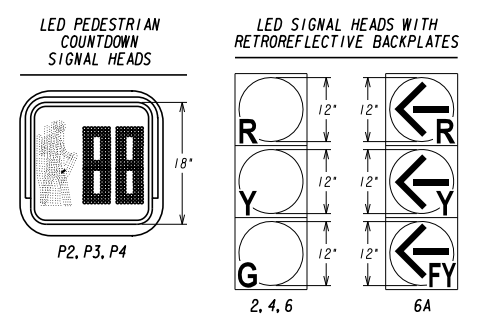
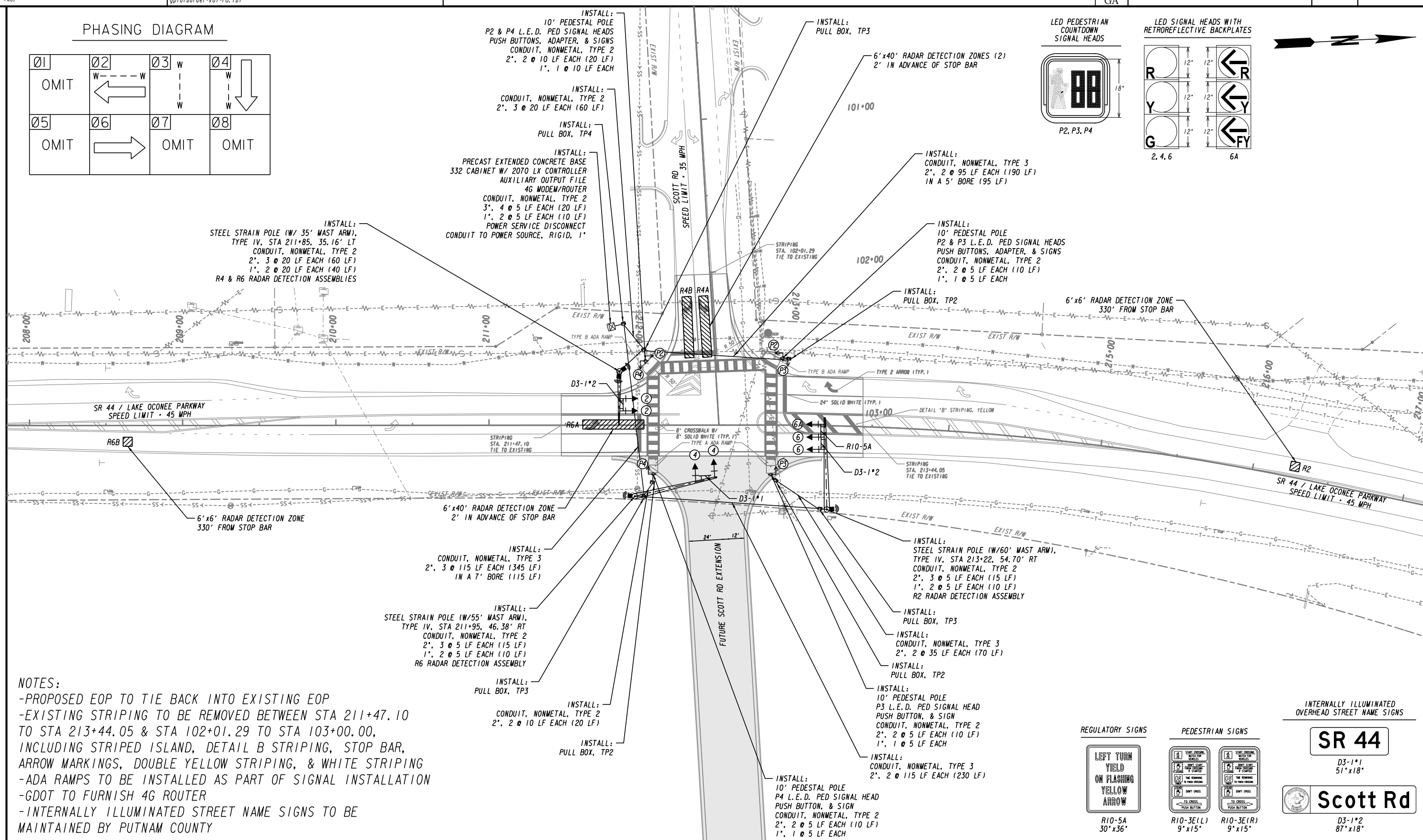
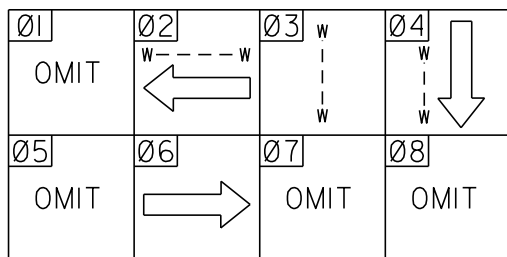
PUTNAM COUNTY
BOARD OF COMMISSIONERS
COLLABORATIVE INFRASTRUCTURE SERVICES

SIGNAL PLANS

SR 44 AT SCOTT RD
SIGNAL LEGEND

DRAWING No.
27-0001

PHASING DIAGRAM



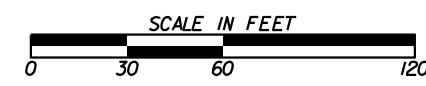
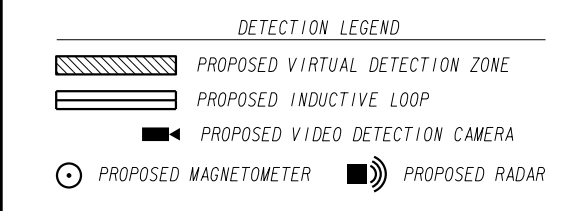
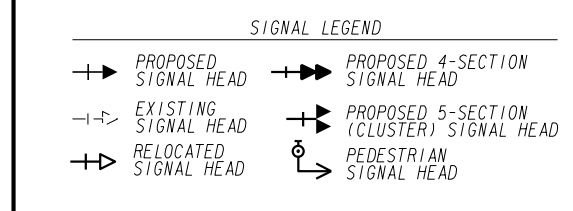
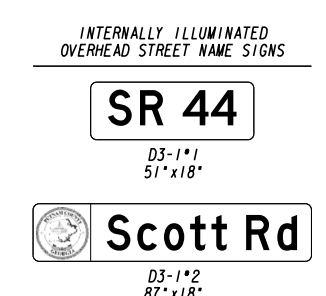
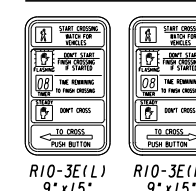
NOTES:

- PROPOSED EOP TO TIE BACK INTO EXISTING EOP
- EXISTING STRIPING TO BE REMOVED BETWEEN STA 211+47.10 TO STA 213+44.05 & STA 102+01.29 TO STA 103+00.00, INCLUDING STRIPED ISLAND, DETAIL B STRIPING, STOP BAR, ARROW MARKINGS, DOUBLE YELLOW STRIPING, & WHITE STRIPING
- ADA RAMP TO BE INSTALLED AS PART OF SIGNAL INSTALLATION
- GDOT TO FURNISH 4G ROUTER
- INTERNALLY ILLUMINATED STREET NAME SIGNS TO BE MAINTAINED BY PUTNAM COUNTY

REGULATORY SIGNS



PEDESTRIAN SIGNS



REVISION DATES

PUTNAM COUNTY BOARD OF COMMISSIONERS
COLLABORATIVE INFRASTRUCTURE SERVICES
SIGNAL PLANS

SR 44 AT SCOTT RD PROPOSED

DRAWING No. 27-0002

INTERSECTION OF SR 44 | LAKE OCONEE PARKWAY & SCOTT ROAD

LIST OF MATERIALS

MATERIALS	UNIT	QUANTITY
CONTROL CABINET ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX (PREFERRED)	EACH	1
B. CABINET ASSEMBLY, MODEL 332 (EIGHT PHASE)	EACH	1
C. SWITCH PACK (LOAD SWITCH)	EACH	7
D. DC ISOLATOR	EACH	3
E. 2010 SIGNAL MONITOR, TYPE B (ETHERNET) (PREFERRED)	EACH	1
F. AUXILIARY OUTPUT FILE	EACH	1
332 PREFABRICATED CONTROLLER CABINET BASE		
PC642-200 (OR EQUIVALENT), SURGE PROTECTOR	EACH	1
LOOP/PEL LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT); 3 PAIR, 18 AWG	REEL	1
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT	REEL	2
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK" BLACK HOUSING WITH BLACK FRONT, PLASTIC	EACH	6
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK" BLACK HOUSING WITH BLACK FRONT, PLASTIC (RED LEFT ARROW, YELLOW LEFT ARROW, AND FLASHING YELLOW LEFT ARROW)	EACH	1
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, LOUVERED, BLACK WITH RETROREFLECTIVE STRIP	EACH	7
BLACK HARDWARE FOR MAST ARM MOUNTING - ASTRO TYPE BRACKETS	EACH	7
1-SECTION, 18" LED COUNTDOWN BLACK PEDESTRIAN SIGNAL HEAD, FULL, HAND/ARM OVERLAP, 9" HIGH NUMBERS & 12" SYMBOLS	EACH	6
BLACK PEDESTRIAN PUSHBUTTON STATIONS ADAPTERS (ONLY) 9"x15", DOUBLE PUSH BUTTON STATION ADAPTER FOR 4" DIA PEDESTRIAN POLE, ADJUSTABLE	EACH	2
BLACK PEDESTRIAN PUSHBUTTON STATIONS, WITH BUTTONS AND SIGNS, 9"x15", R10-3E, (L)LEFT OR (R)RIGHT, COUNTDOWN	EACH	6
BLACK HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY	EACH	2
BLACK HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY	EACH	2
BLACK PEDESTAL POLE & SQUARE BASE	EACH	4
PULLBOX, TP2	EACH	3
PULLBOX, TP3	EACH	3
CONDUIT, NONMETAL, TP2, 1"	LF	95
CONDUIT, NONMETAL, TP2, 2"	LF	220
CONDUIT, NONMETAL, TP2, 3"	LF	20
CONDUIT, NONMETAL, TP3, 2"	LF	720
R10-5A, LEFT TURN ON FLASHING YELLOW SIGN	EACH	1
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATIONS	LUMP	LUMP

332 CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
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UPPER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
CARD		2-CH					2-CH						DC 150	DC 150	DC 150
CI PIN	56	39	63	47	58	41	65	49	68		88		67	68	81
FUNCTION		R2				R4A							Ø2 PED		FLASH
FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10				TB8 4,6	TB8 7,9	N/C

CI PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
FUNCTION						R4B						Ø4 PED	Ø3 PED	STOP TIME
FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

LOWER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
CARD		2-CH													
CI PIN	55	40	64	48	57	42	66	50	59		54		71	72	51
FUNCTION		R6A													
FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10				TB9 4,6	TB9 7,9	TB9 10,12

CI PIN	55	44	77	48	57	46	79	50	61		75	73	74	52	
FUNCTION		R6B													
FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12				TB9 5,6	TB9 8,9	TB9 11,12

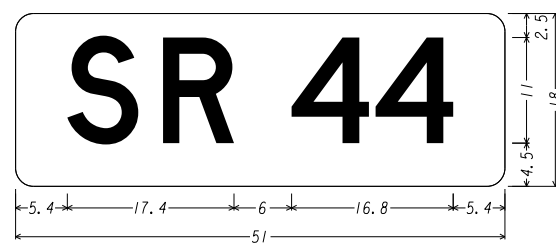
ROADWAY PAY ITEMS

PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
150-1000	TRAFFIC CONTROL	LUMP	LUMP
205-0100	CONSTRUCTION ALLOWANCE	LUMP	LUMP
210-0100	GRADING COMPLETE	LUMP	LUMP
310-5060	GR AGGR BASE CRS, 6 INCH, INCL MATL	SY	30
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	2
441-7011	CURB CUT WHEELCHAIR RAMP, TYPE A	EACH	2
441-7012	CURB CUT WHEELCHAIR RAMP, TYPE B	EACH	2
500-9999	CLASS B CONC, BASE OR P/MT WIDENING	CY	5
610-9001	REMOVE SIGN	EACH	2
653-0120	THERMOPLASTIC P/MT MARKING, ARROW, TP 2	EACH	4
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	563
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	419
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	80
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	743
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	50
656-0050	REMOVE EXIST SOLID TRAF STRIPE, 5 IN, THERMOPLASTIC	LF	1231
656-0080	REMOVE EXIST SOLID TRAF STRIPE, 8 IN, THERMOPLASTIC	LF	90
656-0120	REMOVE EXIST SOLID TRAF STRIPE, 12 IN, THERMOPLASTIC	LF	154
656-0240	REMOVE EXIST SOLID TRAF STRIPE, 24 IN, THERMOPLASTIC	LF	80
656-5000	REMOVE EXIST TRAF MARKINGS	EACH	4

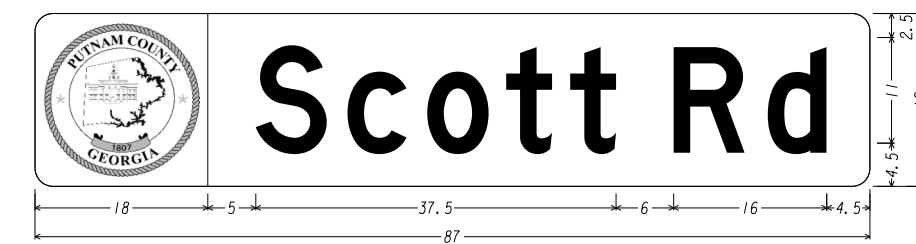
TRAFFIC SIGNAL PAY ITEMS

PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
639-3004	STEEL STRAIN POLE, TYPE IV (W/ 35' MAST ARM) [BLACK POWDER COATED]	EACH	1
639-3004	STEEL STRAIN POLE, TYPE IV (W/ 55' MAST ARM) [BLACK POWDER COATED]	EACH	1
639-3004	STEEL STRAIN POLE, TYPE IV (W/ 60' MAST ARM) [BLACK POWDER COATED]	EACH	1
647-1000	TRAFFIC SIGNAL INSTALLATION #1	LUMP	LUMP
647-2140	PULL BOX, PB-4	EACH	1
647-3000	INTERNALLY ILLUMINATED STREET SIGN (SINGLE-SIDED)	EACH	3
647-3100	INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY	EACH	1
682-9950	DIRECTIONAL BORE, 5"	LF	95
682-9950	DIRECTIONAL BORE, 7"	LF	115
687-1000	TRAFFIC SIGNAL TIMING	LUMP	LUMP
937-6000	MICROWAVE RADAR DETECTION ASSEMBLY	EACH	4
937-8020	TESTING - MICROWAVE DETECTION SYSTEM	LUMP	LUMP
937-8520	TRAINING - MICROWAVE DETECTION SYSTEM	LUMP	LUMP

INTERNALLY ILLUMINATED OVERHEAD STREET NAME SIGNS (double sided illumination - attached by hangers to the mast arms)



Identifier : D3-1 *1;
 1.875" Radius, 0.0" Border, White on Green;
 SR D; *44* D;



Identifier : D3-1 *2;
 1.875" Radius, 0.0" Border, White on Green; 16" Logo on White;
 Scott D; *Rd* D;

NOTES
 QUANTITIES ARE FOR INFORMATION PURPOSES ONLY - CONTRACTOR TO FIELD VERIFY PRIOR TO ORDERING MATERIALS.

REVISION DATES

PUTNAM COUNTY
 BOARD OF COMMISSIONERS
 COLLABORATIVE INFRASTRUCTURE SERVICES
SIGNAL PLANS

SR 44 AT SCOTT RD
 LIST OF MATERIALS

DRAWING No.
27-0003

