
OFFICIAL BID PACKAGE

GP1149
Railroad Crossing - Traffic Signal Upgrade
Equipment Supply

Re-Bid March 17, 2014
The City of Canton
Engineering Department

LEGAL NOTICE

Ordinance 151-2013, Reauthorized Ordinance 7-2014

The Director of Public Service of the City of Canton, Ohio will accept sealed bids until 2:00PM, Local Time on **MONDAY, March 17, 2014, 2014**, for the purpose of securing bids for,

GP1149 Railroad Crossing - Traffic Signal Upgrade Equipment Supply

Submit bid according to the specifications and bid sheet(s) on file and available on-line at <http://cantonohio.gov/engineering/?pg=480>. The City will open bids in the Sixth Floor Conference Room of Canton City Hall.

Submit all bids to the City of Canton Contract Office, 218 Cleveland Avenue SW, Purchasing Department/ Sixth Floor, Canton, Ohio 44702 before 2:00 p.m. on the day of the bid opening. **THE CITY WILL DISQUALIFY ANY BID NOT RECEIVED IN THE CONTRACT OFFICE ON OR BEFORE 2:00 PM ON MONDAY, March 17, 2014, 2014.**

Each bid must contain the full name of every person or company participating in the bid. A CERTIFIED CHECK, CASHIER'S CHECK or SURETY BOND must accompany the bid. Draw this check or bond from a solvent bank or bonding company satisfactory to the Director of Public Service as a guarantee the contract and its performance properly secured if the bid is accepted.

You the Bidder shall verify the CERTIFIED CHECK, CASHIER'S CHECK or BID BOND for **FIVE HUNDRED (\$500.00) DOLLARS**. PLEASE NOTE. THE CITY OF CANTON WILL ONLY ACCEPT ORIGINAL CHECKS AND BID BONDS. THEREFORE, IF ANY COMPANY AND/OR BIDDER SUBMITS A COPY (INCLUDING FAXED COPIES) OF HIS/HER \$500.00 SECURITY, THE CITY WILL DISQUALIFY YOUR BID.

A PLA will not be required for this project. The estimated construction cost is **\$97,400** for this project. It is the City's policy that for IRS purposes, all companies must submit their Federal I.D. number.

The Director of Public Service reserves the right to waive any technical defects in any bid bond submitted so long as the bond is in substantial compliance with State Law. Any bidder may withdraw his bid, by written request, at any time prior to the hour set for the bid opening. Please be advised, the city of canton may impose a \$500.00 penalty to any bidder that withdraws his bid after the bid opening and prior to a contract award(s).

Should any bid be rejected, such check or bond will be returned to the bidder or bidders within ten (10) days after the contract is awarded, and should any bid be accepted, such check or bond will be returned upon execution and securing of contract. Bidders shall be prepared to furnish any information requested regarding return of bond or check.

The Board of Control reserves the right to reject any or all bids and to accept the bid(s) deemed most beneficial to the City of Canton. All companies must submit their Federal ID Number.

BY ORDER OF THE DIRECTOR OF PUBLIC SERVICE BILL BARTOS

PUBLISHED IN THE CANTON REPOSITORY: February 21, 28 and March 7, 2014

NOTICE TO CONTRACTOR

Supplier will be required to make delivery of the contract items to the Traffic Engineering Department at 2436 30th Street NE, Canton, Ohio 44705 no later than 60 days after, "Notice to Proceed." Coordinate the delivery(s) through Doug Serban at (330) 438-6924.

Each bidder must submit an "affirmative action plan" and/or "EEO Policy." Bidder must read all EEO and MBE requirements. Please submit a request for waiver on company letterhead if you cannot meet the requirement. Enclose the company EEO policy. An EEO policy statement form is included if you do not have a formal policy.

The Director of Public Service reserves the right to waive/accept any technical defects in the submission of documentation for this bid.

Notice: The, "Instruction to Bidders", has changed. You will be required to submit the bid forms only (Appendix B) and the support documentation for the bid forms. See, "Instruction to Bidders" for details.

All items shall conform to ODOT 2010 CMS unless otherwise noted. See Detailed Specifications following the bid forms.

PLEASE ACKNOWLEDGE THAT YOU HAVE READ THE ABOVE REQUIREMENTS BY SIGNING BELOW.

DATE

SIGNATURE

Instruction to Bidders

The bidder must review the complete bid package as advertised. You must submit the Appendix B bid forms for the bid. **SUBMIT THE ENTIRE BID PACKAGE.** Use blue ink for all signatures. The City expects all necessary bid forms to be submitted with the bid package.

Bidders must examine, before submitting their bids, the specifications and form of contract. There may be changes in the specifications from those previously used; the City presumes that a bidder has read and fully understands each clause embodied in this contract. Any information derived from the Engineer's office will not relieve the Contractor from any risks or from fulfilling all of the terms of this contract.

It is the bidders' responsibility to revisit this website for any updates or changes until date and time of the bid opening. Please, send email to steve.henderson@cantonohio.gov if you intend to bid the project. I will send any updates to you via email. However, it does not release you from checking the website for updates.

All written addenda issued by the Engineer will become part of the Contract Documents. The addenda are binding for all bidders, whether the bidder has received or not received it (the City will post the addenda on the website). The City will not consider any oral or telephonic modifications of the Contract Documents.

The owner reserves the right to reject bids or waive any informality or irregularity in any bid received. Failure to complete/submit all documentation may result in the bidder being determined as non-responsive. The Director shall make the final decision in this matter.

The City will permit the bidder to include additional or supplemental attachments. The bid must be sealed, and addressed to the Service Director of the City of Canton, Contract Office – 6th Floor, 218 Cleveland Avenue S.W., P.O. Box 24218, Canton, Ohio 44701-4218, Attn: Randall Dublikar and write on the envelope, "Proposal for the GP 1149 RR – Traffic Signal Upgrade Project", and must be deposited with all papers bound.

Any bidder may withdraw the bid(s), by written request, at any time prior to the hour set for the bid opening. If there is no withdrawal of the bid(s), in accordance with the above procedure, the City reserves the right to enforce said bid price(s) and/or contract.

The successful bidder, to whom the City may award the contract, shall be required to execute the contract, and furnish a surety bond satisfactory to the Service Director, within ten (10) days from the date of service of notice to that effect. In case of failure to do so, he will be considered as having abandoned it, and the deposit accompanying the proposal shall thereupon be forfeited to the City of Canton, and the work may be re-advertised or awarded to the next higher bidder, as the Service Director may determine. Such bond shall be of an approved guaranty company, satisfactory to the Service Director in the sum of the total price bid for the completed work.

The Service Director reserves the right to reject any bids. Furthermore, the Service Director has the right to waive any informality or irregularity of any bid received.

DURATION OF CONTRACT

This/these contract(s) will be for a one-time delivery of all equipment to the Canton Traffic Signal Department at 2436 30th Street NE, Canton, Ohio 44705. Coordinate this delivery with Doug Serban at (330) 438-6924. The effective date of the contract will not begin until the City has fully executed the contract. All equipment and supplies must be delivered within

ARTICLES OF INCORPORATION

Unless the bidder submits, with its bid, the "Articles of Incorporation" showing the name exactly as incorporated, under with the state of Ohio, Canton may request the bidder provide this information.

The Articles of Incorporation are the documents filed with the state (Ohio or otherwise) creating the corporate entity.

BID FORMS

Please be advised that it is the City of Canton Policy that the following bid forms be completed before the Contract can be executed. Please complete these forms and submit at the time of bid. Bid forms 4, 10, 12 and the Weekly Payroll Submission Form do not pertain to this project. Be sure to submit the bid forms, the support documents and any addendum required.

The EEO Bid Form 9 must be accompanied by the Company's' Affirmative Action Plan.

Please include copy of your Workmen's Compensation Certificate.

Bid Form 1

AUTHORITY OF BID SIGNATORY

The bidder shall indicate which of the following is the source of the bid signatory's authority to sign the bid on behalf of the bidder. The bidder shall follow the instructions noted.

- _____ The party bidding is a sole partnership. Below the signature affixed on the Proposal Sheet, a sole proprietorship's owner shall write "sole owner" or "doing business as (name of bidder)".

- _____ The party bidding is a partnership and the party signing is one of the partners. Below the signature affixed on the proposal sheet, a signatory for a partnership shall write "member of the firm".

- _____ The party is a corporation. The party signing is authorized to sign on behalf of the corporation. A copy of the resolution of the corporation's board of directors which delegates signatory authority to the individual signing is to be attached to this bid form. This resolution can be a general delegation of authority for signing bids or can be a specific authorization for this project. The secretary of the corporation shall authenticate the resolution as currently being in full force and effect.

- _____ Signatory authority is evidenced by other means noted below:

Bid Form 2

INSERT BID GUARANTY HERE

Each proposal shall be accompanied by a bid guarantee which shall consist of one of the following:

Ohio Statutory Bid Guaranty and Contract Bond must be substantially in the form prescribed by ORC 153.571. The 153.571 statutory bond forms require that the penal amount be an amount not less than the bid price. It is a bid error to write in an amount equal to ten percent (10%) of the amount bid.

NOTE: Make a certified check or cashier's check in an amount not less than ten percent (10%) of the total amount bid for all items of the proposal. Such a bid guarantee check shall be made payable to the OWNER without condition.

Bidders using the Ohio Statutory Bid Guaranty and Contract Bond Form can leave the penal amount blank, if such is acceptable to the bidder and the surety. The statutory bond form, per ORC 153.571, the penal amount equal to the price bid, if the amount is left blank.

In case a bidder to whom a contract award is made shall fail to execute and secure a contract within ten (10) days after notice of award in writing, the award shall be vacated and the bid guarantee, in an amount not to exceed ten percent (10%) of the amount bid, forfeited.

An approved surety company must provide bid Bond. This company must be authorized to transact business in the State of Ohio and with local agent. Agents of bonding companies shall be licensed to conduct business in the State of Ohio and have a local (Ohio) agent. Each bid shall contain the power of attorney, bearing the seal of the company and evidencing such agent's authority to execute the documents furnished. Identification of the local agent is to accompany each Bond.

The surety used for the bid bond shall be listed in the current edition of the U.S. Treasury Circular 570 and the Penal Sums shall be within the maximum specified for such company in said Circular 570.

BIDDER INFORMATION

1. The Bidder shall provide the following information as part of its bid.

a. Name of Bidder _____

b. Business Address _____

_____ City _____ State _____ Zip

c. Business Telephone Number (____) _____

d. Person, address, **email** and telephone to whom official notices are to be sent _____

e. Person, address, **email** and telephone for further information regarding this proposal _____

f. State(s) of incorporation (w/dates of incorporation) _____

g. Principal place of business _____

h. ~~Working days necessary to complete project~~ _____ N/A _____ days

i. Federal I.D. Number # _____ - _____

j. Amount of Certified Check, Cashier's Check, Bid Bond \$ _____

2. Form of Business Organization.

____ Corporation

____ Partnership

____ Other _____

3. The bidder shall provide the names and addresses of all persons interested as principals (officers, partners, and associates) in this proposal. Write first name in full, and give titles for offices.

_____	_____
_____	_____
_____	_____
_____	_____

All of the above, including the signatory to this bid, are citizens of the United States, except the following. (Provide names and addresses of those not a citizen of the United States.)

_____	_____
_____	_____
_____	_____
_____	_____

4. Name and address of other person, firms or companies interested in this contract.

_____	_____
_____	_____
_____	_____
_____	_____

The undersigned certifies that the bidder has the facilities, ability and financial resources available for the fulfillment of the contract if such be awarded to said bidder.

Upon request, the bidder will be expected to amplify the foregoing statements as necessary to satisfy the OWNER concerning his ability to successfully perform the work in a satisfactory manner.

Signed this _____ day of _____, 20 _____.

Contractor

By _____
(Signature of individual, partner or officer signing the proposal.)

Please have this page Notarized _____

Full name(s) of individual owner(s) of business: _____

Please list company's full name
and any other designation
under which your company is
doing business as (dba): _____

SIGNATURE OF AUTHORIZED REPRESENTATIVE:

Full Business Address: _____
CITY STATE ZIP CODE

Telephone Number: (_____) _____ Federal I.D. Number # _____

Purchase Terms: _____ % Net _____ Days Delivery Time: _____.

Bid Form 5

INSURANCE AFFIDAVIT

Each bidder shall obtain from its insurance representative and include in the bid submittal an insurance affidavit that contains the representations noted below. Make the affidavit on the insurance agency's letterhead, reference this project by name, and state at least the following:

- (1.) The representative has reviewed and understands the insurance requirements (including the cancellation/non-renewal provisions) set forth in "General Conditions" § 1.14 Insurance.
- (2.) The representative certifies that the company will provide the specified insurance should the contract be awarded to the contractor on whose behalf the certificate is being provided.
- (3.) The names and A.M. Best Company ratings of companies required to provide the required insurance.

You must have the insurance affidavit notarized.

“General Conditions” INSURANCE § 1.14

- A. The following standard indemnity agreement and minimum insurance requirements are incorporated in the Specifications for all work performed by the Contractor for the Owner, its affiliated and associated organizations or subsidiaries, hereinafter referred to as Owner.
 - I. The Contractor agrees to indemnify and save the Owner harmless from and against any and all costs, loss and expense, liability damages, or claims for damages, including cost for defending any action, on account of any injury to persons (including death) or damage to or destruction of property of the Owner, arising or resulting from the work provided for or performed, or from any act, omission, or negligence of the Contractor, Subcontractor and his or their agents or employees. The foregoing provisions shall in no way be deemed released, waived or modified in any respect by reason of any insurance or surety provided by the Contractor.
 - II. The Contractor shall maintain insurance of the kinds and in amounts specified in the attached schedule and furnish the Service Director with Certificates of Insurance as evidence thereof in the prescribed form. If any work provided for or to be performed under any Specifications is sublet (as otherwise permitted by the terms of such Specifications), the Contractor shall require the sub-contractors to maintain and furnish him with satisfactory evidence of Workmen's Compensation, Employers' Liability and such other forms and amounts of insurance which Contractor deems reasonably adequate.
 - III. In accordance with Item II, the Contractor shall maintain the following insurance:
 - I. Workmen's Compensation and Employer's Liability

Insurance affording,

- (a) protection under the Workmen's Compensation Law in the State of Ohio.
- (b) Employer's Liability protection subject to a minimum limit of \$100,000.00.

2. Commercial General Liability Insurance in amounts not less than:

General Aggregate Limit	\$2,000,000.00
Products - Completed Operations Aggregate Limit	\$2,000,000.00
Personal and Advertising Injury Limit	\$1,000,000.00
Each Occurrence Limit	\$1,000,000.00
Fire Damage Limit	\$50,000.00
Medical Expense Limit	\$5,000.00

This insurance shall:

- a. include coverage for the liability assumed by Contractor under Item I (Indemnity);
- b. not to be subject to any of the special property damage liability exclusions commonly referred to as the XCU exclusions pertaining to blasting or explosion, collapse or structural damage and underground property;
- c. not be subject to any exclusion of property used by the insured or property in the care, custody or control of the insured or property as to which the insured for any purpose is exercising physical control unless the required Builders Risk or Installation Floater coverage is indicated on the required Certificate of Insurance (Item III.4);
- d. and the Certificates of Insurance furnished by the Contractor shall show by specific reference that each of the foregoing items have been provided for.
- e. **INCLUDE THE CITY OF CANTON, OHIO AND ITS AGENTS, AS ADDITIONAL INSURED FOR PURPOSES OF COVERAGE UNDER THE SUBJECT POLICY.**

3. Comprehensive Automobile Liability Insurance in the following minimum amounts:

Bodily Injury and Property Damage any one accident or loss:	\$1,000,000.00
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4. The contractor will provide and maintain Installation/Builders Risk Insurance to protect the interests of both the contractor and the owner for materials transported to the job, stored or installed on the premises, or stored at any temporary location off premises. Such insurance shall be written on an "All Risk" form to include the perils of Fire, Extended Coverage, Vandalism, Malicious Mischief, Theft, Collapse and Water Damage. The amount of Insurance shall be 100% of the insurable value of the work performed. It

should include all items of labor and materials incorporated therein, materials in storage, on or off the job site, scheduled for use in completing the work, and such other supplies and equipment incidental to the work as are not owned or rented by the contractor, the cost of which is included in the direct cost of the work. This Insurance shall not cover any tools, derricks, machinery, tar buckets, ladders, engines, workmen's quarters, boilers, pumps, wagons, scaffolds, forms, compressors, shanties or other items owned or rented by the Contractor, the cost of which is not included in the direct cost of the work.

- B. The Certificates of Insurance furnished by the Contractor as evidence of the Insurance maintained by him shall include a clause obligating the Contractor to give the Service Director ten (10) days prior written notice for cancellation or any material change in the insurance.

-END-

BIDDER'S AFFIDAVIT: NON-COLLUSION STATEMENT

This affidavit is to be filled out and executed by the bidder; if the bid is made by a corporation, then by its properly authorized agent.

STATE OF _____)
) SS: COUNTY OF _____)

_____)
being first duly sworn, deposes and says that he is _____)

_____)
(sole owner, a partner, president, secretary, etc.)

of _____)

the party making the enclosed proposal or bid, and say further that

_____)
(Give names of all persons, firms or corporations interested in the bid) is or

are the only party or parties interested with the party making this bid in the profits of any contract which may result from the herein contained proposal; that the said proposal is made without any connection or interest in the profits thereof with any other person making any other bid or proposal for said work; that no member of the City of Canton, head of any department or bureau or employee therein or any official or officer of City of Canton, is directly or indirectly interested therein; that said proposal or bid is genuine and not collusive or sham; that said bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to put in a sham bid, or that such person shall refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any person, to fix the bid price of affiant or any other bidder, or to fix any overhead, profit or cost element of said bid price, or of that of any other bidder, or to secure any advantage against the OWNER, or any person interested in the proposed contract; and that all statements contained in said proposal or bid are true; that such bidder has not, directly or indirectly submitted this bid, or the contents thereof, or divulged information or data relative thereto any association or to any member or agent thereof; and further says that all the statements made by him in said proposal or bid are true.

Affiant

Sworn to and subscribed before me this _____ day of
_____, 20 ____.

Notary Public in and for

_____ County, _____

My Commission Expires:

_____, 20 ____.

Bid Form 7

BIDDER'S AFFIDAVIT: FOREIGN CORPORATION*

The undersign certifies that _____ is a foreign corporation incorporated in the State of _____, whose principal place of business is _____ and is required to obtain authorization to transact business in the State of Ohio.

The undersigned bidder further certifies that said authorization has been obtained and is in effect and the bidder has a designated statutory agent upon whom process against bidder corporation may be served within the State of Ohio. The designated

statutory agent is _____
(name and address)

Process served upon the designated statutory agent named above shall be effective service, unless the Owner has been informed, by certified mail or its equivalent (return receipt), of a change in the agent upon whom process can be served.

Date

Signed

Title

Note: This statement is to be reproduced on the bidder's letterhead, signed by the authorized bid signatory, notarized and submitted with the bid.

***Any corporation that is not incorporated in the State of Ohio is a foreign corporation.**

LISTING OF SUBCONTRACTORS

The Bidder shall set forth the name, location of principal place of business, proposed amount of subcontract and type of work to be performed of each subcontractor who will perform work or labor or render service, as listed, to the bidder in or about the construction of the work or improvement to be performed under the Contract for which the attached Bid is submitted, and where the portion of the work which will be performed by each subcontractor. Note that subcontractors are distinguishable from suppliers.

Subcontractor - An individual or entity having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the work at the site.

Supplier - A manufacturer, fabricator, supplier, distributor, material man, or vendor having a direct contract with CONTRACTOR or with any Subcontractor to furnish materials or equipment to be incorporated in the work by the CONTRACTOR or any Subcontractor.

The Bidder understands that if he fails to specify a subcontractor for any portion of the work to be performed under the Contract, he shall be deemed to have agreed to perform such portion itself.

Bid Form 9
Bidder and Contract Employer Practices Report

PLEASE FILL OUT THIS FORM AND RETURN PROMPTLY TO THE ADDRESS BELOW

BIDDER AND CONTRACTOR EMPLOYMENT PRACTICES REPORT

Minority Coordinator
218 Cleveland Avenue SW
Canton, Ohio 44702

I. INSTRUCTIONS

- A. **EQUAL EMPLOYMENT OPPORTUNITY REQUIREMENT:** This form is designed to provide an evaluation of your policies and practices relating to the extension of equal employment opportunity to all persons without regard to race, religion, color, sex or national origin.

Ordinance No. 179-74 of the City of Canton and the rules and regulations pursuant thereto provide for a contract compliance inspection of personnel policies and practices related to any contract with the City including contracts for work, labor, services, supplies, equipment, materials, leases, concession agreements, and permits.

- B. **CONTRACTOR AND BIDDER PERFORMANCE:** Completion of this Contractor and Bidder Employment Practices Report is one of the steps which demonstrates compliance with the City's Equal Employment Opportunity Program. Responsibility for demonstrating compliance with the Program by the contractor and his subcontractors rests with the contractor or subcontractor. Such demonstration is a prerequisite for continued eligibility for bidding on city contracts, or for continuing in contract with the City.

II. CONTRACTOR AND BIDDER INFORMATION

1. REPORTING STATUS <input type="checkbox"/> a. Prime Contractor <input type="checkbox"/> b. Prime Subcontractor <input type="checkbox"/> c. Supplier <input type="checkbox"/> d. Other (Specify)
2. NAME, ADDRESS AND TELEPHONE NUMBER OF BIDDER COVERED BY THIS REPORT
3. NAME, ADDRESS AND TELEPHONE NUMBER OF PRINCIPAL OFFICIAL OR MANAGER OF BIDDER
4. NAME, ADDRESS AND TELEPHONE NUMBER OF PRINCIPAL OFFICE OF BIDDER
5. CONTRACTING CITY AGENCY (OR AGENCIES)
6. SIGNATURE AND TITLE OF AUTHORIZED EQUAL EMPLOYMENT OPPORTUNITY REPRESENTATIVE DATE

EVALUATION (level blank)

Compliance

Non-Compliance

Follow-up _____

III. POLICIES AND PRACTICES

The bidder and the Contractor will indicate his willingness or unwillingness to comply with the requirements of the Equal Employment Opportunity Program of the City of Canton by encircling the appropriate or applicable letter to the left of each item below. The letters are to be interpreted as follows:

- A - This is now a practice of the Company.
- B - The Company will adopt this policy.
- C - The Company cannot or will not adopt this policy. (If "C" is circled, state reason. Use separate sheet if additional space is needed.)

It is understood that the Company's willingness to participate in the Equal Employment Opportunity Program will be evaluated by the Office of Directors of Contract Compliance. This evaluation will directly influence our decision on the qualifications of each bidder and contractor, and is an integral part of your bid.

CIRCLE ONE	ITEMS	STATE REASON IF (C) IS CIRCLED
A B C	1. The Company will adopt a policy of non-discrimination on the basis of race, religion, color, sex, or national origin with regard to recruitment, hiring, training, upgrading, promotion and discipline of employees or applicants for employment.	
A B C	2. The Company will develop procedures which will assure that this policy is understood and carried out by managerial, administrative, supervisory personnel.	
A B C	3. The Company will state its non-discriminatory policy in writing and communicate it to the following: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>a. All employees</p> <p>b. All recruitment sources</p> <p>c. All subcontractors</p> </div> <div style="width: 45%;"> <p>d. All relevant employee organizations including labor unions</p> </div> </div>	
A B C	4. The Company will use recruitment sources such as employment agencies, unions, and schools which have a policy of referring applicants on a non-discriminatory basis.	
A B C	5. The Company will participate in training programs for the benefit of employees or prospective employees, according to the intent of City Ordinance Number 179-74.	
A B C	6. Company recruiters will seek a broad recruitment base in order that a representative cross-section of applications might be obtained, and will refrain from a hiring policy which limits job applicants to persons recommended by company personnel.	
A B C	7. The Company will take steps to integrate any position, departments, or plant locations which have no minority persons including African Americans or are almost completely staffed with one particular ethnic or racial group.	
A B C	8. The Company will review its qualifications for each job to determine whether such standards eliminate unemployed persons who could, if hired, perform the duties of the job adequately. The following qualifications should be reviewed: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>a. education</p> <p>b. experience</p> </div> <div style="width: 45%;"> <p>c. tests</p> <p>d. arrest records</p> </div> </div>	
A B C	9. Residence in a particular geographical area will not be a qualifying or disqualifying criterion for employment with the Company.	
A B C	10. The Company will provide that all bargaining agreements with employee organizations, including labor unions, have non-discrimination clauses requiring equal employment opportunity.	

IV. EMPLOYMENT DATA

Please note that this data may be obtained by visual survey or post-employment records. Neither visual surveys nor post-employment records are prohibited by any Federal, State or local law. All specified data are required to be filled in by law.

JOB CATEGORIES	ALL EMPLOYEES			MINORITY GROUP EMPLOYEES								
	TOTAL MALE & FEMALE	MALE	FEMALE	MALE				FEMALE				
				African American	Asian American	Native American	Hispanic	African American	Asian American	Native American	Hispanic	
Officials, Mgrs and Supervisors												
Professionals												
Technicians												
Part-Time Seasonal												
Office and Clerical												
Craftsmen (Skilled)												
Operatives (Semi-skilled)												
Laborers (Unskilled)												
Service Workers												
TOTAL												
Total employment from previous report (if any)												

REMARKS Use this space to give any identification data appearing on last report which differs from that given above, explain major changes in employment, changes in composition of reporting units, and other pertinent information.

The undersigned certifies that he is legally authorized by the bidder to make the statements and representations contained in this report. That he has read all of the foregoing statements and representations and that they are true and correct to the best of his knowledge and belief. The undersigned, understands that if any of the statements and representations are made knowing them to be false or there is a failure to implement any of the stated intentions or objectives, set forth herein, without prior notice to the Office of Contract Compliance, the bidder will be subject to the loss of all future awards.

FIRM OR CORPORATE NAME _____

DATE OF SIGNING _____

SIGNATURE _____

TITLE _____

SIGNATURE _____

TITLE _____

V. ADDITIONAL INFORMATION (OPTIONAL)

Describe any other actions taken which show that all employees are recruited, hired, trained, and promoted without regard to their race, religion, color, sex, or national origin. Use separate sheet if additional space is required.

DESCRIPTION OF OCCUPATIONAL CATEGORIES

Officials, managers and supervisors - Occupations requiring administrative personnel who set broad policies, exercise over-all responsibility for execution of these policies, and direct individual departments or special phases of a firm's operations. Includes officials, executives, middle management, plant managers, department managers and superintendents, salaried foremen who are members of management, purchasing agents and buyers, and kindred workers.

Professionals - Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes accountants and auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, lawyers, librarians, mathematicians, natural scientists, physicians, social scientists, teachers, and kindred workers.

Technicians - Occupations requiring a combination of basic scientific knowledge and manual skill which can be obtained through about 2 years of post high school education, such as is offered in many technical institutes and junior colleges, or through equivalent on-the-job training. Includes draftsmen, engineering aids, junior engineers, mathematical aids, nurses, photographers, radio operators, scientific assistants, surveyors, technical illustrators, technicians, (medical, dental, electronic physical sciences), and kindred workers.

Sales workers - Occupations engaging wholly or primarily in direct selling. Includes advertising agents and salesmen, insurance agents and brokers, stock and bond salesmen, demonstrators, salesmen and sales clerks and kindred workers.

Office and clerical - Includes all clerical type work regardless of level of difficulty, where the activities are predominantly nonmanual though some manual work not directly involved with altering or transporting the products is included. Includes bookkeepers, cashiers, collectors (bills and accounts), messengers and office boys, office machine operators, shipping and receiving clerks, stenographers, typists and secretaries, telegraph and telephone operators, and kindred workers.

Craftsmen (Skilled) - Manual workers of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgement and usually receive an extensive period of training. Includes the building trades hourly paid foremen and leadmen who are not members of management, mechanics and repairmen, skilled machining occupations, compositors and typesetters, electricians, engravers, job setters (metal), motion picture projectionists, pattern and model makers, stationary engineers, tailors and tailoresses, and kindred workers.

Operatives - (Semi-Skilled) - Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training.

Laborers (Unskilled) - Workers in manual occupations which generally require no special training. Perform elementary duties that may be learned in a few days and require no independent judgement. Includes garage laborers, car washers and greasers, gardeners (except farm) and groundskeepers, longshoremen and stevedores, lumbermen, raftsmen and wood choppers, laborers performing lifting, digging, mixing, loading, and pulling operations, and kindred workers.

Service workers - Workers in both protective and nonprotective service occupations. Includes attendants (hospital and other institution, professional and personal service), barbers, charwomen and cleaners, cooks (except household), counter and fountain workers, elevator operators, firemen and fire protection, guards, watchmen, and doorkeepers, stewards, janitors, policemen and detectives, porters, waiters and waitresses, and kindred workers.

Apprentices - Persons employed in a program including work training and related instruction to learn a trade or craft which is traditionally considered an apprenticeship, regardless of whether the program is registered with federal or State agency.

SECTION 105.06 - MINORITY CONTRACT PROVISIONS; MINORITY ENTERPRISE UTILIZATION COMMITMENT;

A) The Bidder agrees to expend at least \$ _____ of the Contract in the event the contract is awarded to such bidder for minority/women's business enterprises. For purposes of this pledge, the term "minority/women's business enterprise" means a bona fide business established as a sole proprietorship, partnership or corporation owned, operated and controlled by one or more minority persons or women who have at least fifty-one percent (51%) ownership. "Minority" includes African Americans, Asian/Pacific Islanders, Hispanic/Latino Americans and Native American Indians. The minority or woman must have operational and managerial control, interest in capital, and earnings commensurate with the percentage of ownership. Minority/women's business enterprises may be employed as construction contractors, subcontractors, vendors or suppliers. The Bidder must indicate the minority business enterprise it intends to utilize in this document as follows:

<u>Name/Address of Minority Firm</u>	<u>Nature of Participation</u>	<u>Dollar Value of Participation</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Total Bid Amount: _____ Total _____

Percentage of Minority Enterprise Participation: _____ %

- B) The Bidder agrees to furnish implementation reports to indicate the minority business enterprises which it has or intends to utilize. The first report is due five (5) days after notification to the lowest and best bidder. The second report is due at 40% completion.
- C) It is the goal of the City that at least 10 percent (10%) of the total of all contracts be expended for a bona fide minority business enterprise.
- D) If the 10 percent (10%) minority business utilization cannot be met, a waiver can be granted by the Board of Control upon recommendation by the Service Director. To justify a waiver, it must be shown that every feasible attempt has been made to comply, and it must be demonstrated that sufficient, relevant, qualified minority business enterprises (which can perform sub-contracts or furnish supplies) are unavailable in the market area of the project to enable meeting the 10 percent (10%) minority business enterprise goal.
- E) Failure to comply with the Minority Business Enterprise Utilization Commitment will not be grounds for the forfeiture of a bid bond so long as a “best effort” approach can be demonstrated. If such compliance cannot be obtained, the bidder shall furnish written evidence to justify that he has made “best effort” to comply with the Minority Business Enterprise Assistance Program. A representative of the City of Canton will monitor and determine whether or not a good faith effort to comply with the Minority Business Enterprise Commitment has been made.
- F) In light of the above, the Board of Control will still award the contract to the lowest and best bidder. Breach of the commitment constitutes breach of the Bidder’s contract, if awarded.
- G) For information regarding the City’s Minority Business Enterprise Utilization Requirement, please contact the City of Canton’s Compliance Office.
- H) The undersigned hereby certifies that he/she has read the terms of the commitment and is authorized to bind the Bidder to the commitment herein set forth.

Name/Title of Authorized Officer

Signature of Authorized Officer

Date

The additional bid requirements are as a result of legislation passed by City Council and are incorporated within the City Code and/or Codified Ordinances of the City of Canton. Detailed copies of these code requirements are available within the City Law Department, 7th Floor, City Hall.

EEO
POLICY STATEMENT

THE CITY OF CANTON, OHIO IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS REQUIRE EACH EMPLOYER, CONTRACTOR, AND MATERIAL SUPPLIERS WORKING CITY PROJECTS TO BE SIGNATURES OF THE FOLLOWING STATEMENTS:

1. IT IS THE POLICY OF _____ THAT EQUAL EMPLOYMENT OPPORTUNITY BE AFORDED TO ALL QUALIFIED PERSONS WITHOUT REGARD TO RACE, RELIGION, SEX OR NATIONAL ORIGIN.
2. IN SUPPORT OF THIS DOCUMENT _____ WILL NOT DISCRIMINATE AGAINST ANY EMPLOYEE OR APPLICANT BECAUSE OF RACE, RELIGION, COLOR, SEX OR NATIONAL ORIGIN.
3. THE _____ WILL TAKE AFFIRMATIVE ACTION TO INSURE THAT APPLICANTS ARE EMPLOYED AND THAT EMPLOYEES ARE TREATED DURING EMPLOYMENT WITHOUT REGARD TO THEIR RACE, RELIGION, COLOR SEX OR NATIONAL ORIGIN. SUCH ACTION WILL INCLUDE BUT NOT BE LIMITED TO:
RECRUITMENT, ADVERTISING OR SOLICITATION FOR EMPLOYMENT, HIRING, PLACEMENT, UPGRADING, TRANSFER OR DEMOTION, SELECTION FOR TRAINING INCLUDING APPRENTICESHIP RATES OF PAY OR OTHER FORMS OF COMPENSATION, LAYOFFS OR TERMINATION.
4. THE OF _____ WILL MAKE EVERY EFFORT TO COMPLY WITH MINORITY UTILIZATION GOALS AS FOLLOWS: (9%) NINE PERCENT MINORITIES IN WORKFORCE ON THIS JOB, (6.9%) SIX POINT NINE PERCENT FEMALE UTILIZATION ON THIS JOB, (10%) TEN PERCENT OF CONTRACT AMOUNT EXPENDED WITH MINORITY BUSINESS ENTERPRISES.
5. THE OF _____ SHALL REQUIRE EACH SUB-CONTRACTOR WE HIRE ON THIS PROJECT TO ADHERE TO, SIGN, AND RETURN THIS STATEMENT TO THE CITY.

(Date)

(Name of Company)

(Signature and Title of Company Officer)

PROJECT: GP 1149, Railroad Crossing – Traffic Signal Upgrade Project Equipment Supply

LETTER OF ASSURANCE

The _____ company hereby certifies that they will comply with the required goals and timetables pertaining to minority and female participation in all trades. The _____ company agrees to comply with the required 10% minority participation goal.

All bidders, contractors and subcontractors to perform work on _____ are subject to the above stated requirements and agree to comply with all local, state and Federal EEO, MBE, and labor requirements applicable to this project and further agree to complete and/or submit all necessary documents to the City of Canton's Compliance Office prior to the awarding of any contract for this project.

The _____ company also agrees to expend at least 10% of the dollar amount of any contract awarded for this project to Minority Business Enterprises.

Failure to submit this letter of assurance will make the bidder's bid non-valid and failure to comply with the applicable local, state and Federal EEO, MBE and labor requirements are basis for termination of any contract awarded for this project.

_____	_____
Company or Partnership	Federal ID #
_____	_____
President or Other Official Title	Telephone #

Date	

(Seal)
Subscribed and sworn to before me, this _____ day of _____, 20 _____.

Notary Public in and for the County of _____, State of _____.

My commission expires on the _____ day of _____, 20 _____.

TO BE FILLED OUT WITH BID

CERTIFICATION

I, _____
(Name of person signing affidavit) (Title)

do hereby certify that _____ does not have an
(Company or Individual Name)

outstanding unresolved finding for recovery issued by the Auditor of the
State of Ohio as defined by Ohio Revised Code (ORC) Section 9.24 as of

(Current date)

Signature of Officer or Agent

Name (Print)

Sworn to and subscribed in my presence this _____ day of

_____, 20 _____

(Notary Public)

GOVERNMENT BUSINESS AND FUNDING CONTRACTS
In accordance with section 2909.33 of the Ohio Revised Code

DECLARATION REGARDING MATERIAL ASSISTANCE/NONASSISTANCE TO A TERRORIST ORGANIZATION

This form serves as a declaration by an applicant for a government contract or funding of material assistance/nonassistance to an organization on the U.S. Department of State Terrorist Exclusion List ("TEL"). Please see the Ohio Homeland Security Division Web site for a copy of the TEL.

Any answer of "yes" to any question, or the failure to answer "no" to any question on this declaration shall serve as a disclosure that material assistance to an organization identified on the U.S. Department of State Terrorist Exclusion List has been provided. Failure to disclose the provision of material assistance to such an organization or knowingly making false statements regarding material assistance to such an organization is a felony of the fifth degree.

For the purposes of this declaration, "material support or resources" means currency, payment instruments, other financial securities, funds, transfer of funds, financial services, communications, lodging, training, safe houses, false documentation or identification, communications equipment, facilities, weapons, lethal substances, explosives, personnel, transportation, and other physical assets, except medicine or religious materials.

COMPLETE THIS SECTION ONLY IF YOU ARE AN INDEPENDENT CONTRACTOR

LAST NAME		FIRST NAME		MI
HOME ADDRESS				
CITY	STATE	ZIP	COUNTY	
HOME PHONE		WORK PHONE		

COMPLETE THIS SECTION ONLY IF YOU ARE A COMPANY, BUSINESS OR ORGANIZATION

BUSINESS/ORGANIZATION NAME			PHONE	
BUSINESS ADDRESS				
CITY	STATE	ZIP	COUNTY	
BUSINESS/ORGANIZATION REPRESENTATIVE NAME			TITLE	

DECLARATION

In accordance with section 2909.32 (A)(2)(b) of the Ohio Revised Code

For each question, indicate either "yes," or "no" in the space provided. Responses must be truthful to the best of your knowledge.

- Are you a member of an organization on the U.S. Department of State Terrorist Exclusion List? Yes No
- Have you used any position of prominence you have with any country to persuade others to support an organization on the U.S. Department of State Terrorist Exclusion List? Yes No
- Have you knowingly solicited funds or other things of value for an organization on the U.S. Department of State Terrorist Exclusion List? Yes No
- Have you solicited any individual for membership in an organization on the U.S. Department of State Terrorist Exclusion List? Yes No
- Have you committed an act that you know, or reasonably should have known, affords "material support or resources" to an organization on the U.S. Department of State Terrorist Exclusion List? Yes No
- Have you hired or compensated a person you knew to be a member of an organization on the U.S. Department of State Terrorist Exclusion List, or a person you knew to be engaged in planning, assisting, or carrying out an act of terrorism? Yes No

If an applicant is prohibited from receiving a government contract or funding due to a positive indication on this form, the applicant may request the Ohio Department of Public Safety to review the prohibition. Please see the Ohio Homeland Security Web site for information on how to file a request for review.

CERTIFICATION

I hereby certify that the answers I have made to all of the questions on this declaration are true to the best of my knowledge. I understand that if this declaration is not completed in its entirety, it will not be processed and I will be automatically disqualified. I understand that I am responsible for the correctness of this declaration. I understand that failure to disclose the provision of material assistance to an organization identified on the U.S. Department of State Terrorist Exclusion List, or knowingly making false statements regarding material assistance to such an organization is a felony of the fifth degree. I understand that any answer of "yes" to any question, or the failure to answer "no" to any question on this declaration shall serve as a disclosure that material assistance to an organization identified on the U.S. Department of State Terrorist Exclusion List has been provided by myself or my organization. If I am signing this on behalf of a company, business or organization, I hereby acknowledge that I have the authority to make this certification on behalf of the company, business or organization referenced on page 1 of this declaration.

APPLICANT SIGNATURE X	DATE
---------------------------------	------

Detailed Specifications

Item 631 – Internally Illuminated Fixed Message Sign, (By Type), As Per Plan

This item shall consist of furnishing an LED Blank-Out Sign. The sign shall include the legend specified by type and include the word "TRAIN" as per Section 800 of the ODOT Traffic Engineering Manual (TEM). See details below. The sign legend shall be formed by rows of high intensity LED's. The legend shall be completely blanked out when not energized. The exterior housing shall be black in color.



R3-1



R3-2

Item 632 – Vehicular Signal Head (LED), Black, By Type, 12" Lens, 1-Way, Polycarbonate with Backplate, As Per Plan

In addition to the requirements of CMS 632 and 732, the following requirements shall also apply:

- A. Vehicular signal heads shall be free swinging.
- B. All upper signal support hardware and piping up to and including the wire inlet fitting shall be ferrous metal for signal displays of two or more sections.
- C. The entrance fitting shall be of the tri-stud design with serrated rings in order to achieve positive locking.
- D. Vehicular signal heads shall be provided with a pivot and lock balance adjuster. All balance adjusters shall have a minimum three-quarter inch (19 millimeter) eye bolt and three-quarter inch (19 millimeter) wide slot. Eye bolts are cast from 316 stainless steel and provided with a satin finish. Three-quarter inch (19 millimeter) body halves are cast from a minimum 65-45-12 ductile iron and provided with a bright zinc finish (ZN1).
- E. All lamp units shall be the 12 inch (300 millimeter) size and be equipped with 12" x 11" cutaway visors, unless otherwise noted in plans.
- F. Pipe, spacers and fittings constructed of aluminum.
- G. Proper exterior colors shall be obtained by use of colored plastic material rather than painting. All exterior color shall be black.

The supplier shall provide the city, in writing, the LED manufacturer name, serial number, part number, description of lamp, and date of manufacturer for all LED units to be used in the traffic signal heads prior to installation, for acceptance and warranty purposes. The information shall be sent to the following location:

Traffic Engineering Department
2436 30th Street N.E.
Canton, Ohio 44705
Attn: Nicholas J. Loukas, P.E.

The City will measure “vehicular signal head with LED lamp units, by type, as per plan” by the number of complete units furnished, and will include all support and mounting hardware, disconnect hangers, closure caps, dimmers, and lamps as specified.

Item 632 – Messenger Wire, 7 Strand, 1/2" Diameter with Accessories, As Per Plan

This item shall meet the requirements of CMS 632 except that it shall not include installation.

Payment for Item 632 – Messenger Wire, 7 Strand, 1/2" Diameter with Accessories, As Per Plan shall be made at the contract unit price per foot of cable supplied.

Item 632 – Signal Cable, 7 Conductor, No. 14 AWG, As Per Plan

This item shall meet the requirements of CMS 632 except that it shall not include installation.

Payment for Item 632 – Signal Cable, 7 Conductor, No. 14 AWG, As Per Plan shall be made at the contract unit price per foot of cable supplied.

Item 632 – Interconnect Cable, 6 Pair, NO. 19 AWG, Solid, REA (PE-39), As Per Plan

This item shall meet the requirements of CMS 632 except that it shall not include installation.

Payment for Item 632 – Interconnect Cable, 6 Pair, NO. 19 AWG, Solid, REA (PE-39), As Per Plan shall be made at the contract unit price per foot of cable supplied.

Item 632 – Power Cable, 1 Conductor, No. 10 AWG, As Per Plan

This item shall meet the requirements of CMS 632 except that it shall not include installation.

Payment for Item 632 – Power Cable, 1 Conductor, No. 10 AWG, As Per Plan shall be made at the contract unit price per foot of cable supplied.

Item 632 – Power Cable, 3 Conductor, No. 6 AWG, As Per Plan

This item shall meet the requirements of CMS 632 except that it shall not include installation.

Payment for Item 632 – Power Cable, 3 Conductor, No. 6 AWG, As Per Plan shall be made at the contract unit price per foot of cable supplied.

Item 632 – Signalization, Misc.: Interconnect Splice Enclosure

All splice enclosures shall be a single-piece aerial enclosure, free breathing and suitable for straight, butt and branch splices of non-pressurized communications cables. Double-wall molded polyethylene construction, bottom hinged, interlocking ends to expand to meet any size sheath opening without special kits. No taping, bricking, special labor or sealing collars shall be required. All components shall be attached to the enclosure. The enclosure shall be manufactured by 3M (Model SLIC 2"x19" SES), GATM Series 2000, GATM 92000-00, or approved equal.

Payment for Item 632 – Signalization, Misc.: Interconnect Splice Enclosure shall be made at the contract unit price per each enclosure supplied.

Item 632 – Signalization, Misc.: Pre-emption Detector Cable

Pre-emption detector cable shall be No. 20 AWG shielded, 300 volt, type PLTC, 2 conductor cable in accordance with IMSA 50-2. Pre-emption detector cable shall be approved for both overhead and underground use. The jacket shall withstand exposure to sunlight and atmospheric temperatures and stresses expected in normal installations.

Payment for Item 632 – Signalization, Misc.: Pre-emption Detector Cable shall be made at the contract unit price per foot of cable supplied.

Item 632 – Signalization Item, Misc.: Preemption Detector

The pre-emption system equipment bid on this project shall employ sound detection communications.

Other types of pre-emption systems shall not be permitted. Pre-emption detectors shall be black in color and consist of a light weight, weatherproof and directional assembly. Each detector shall be 360 degree adjustable. Pre-emption detectors shall have internal circuitry to send the proper electrical signal to the pre-emption phase selector assembly via the pre-emption detector cable. Pre-emption detectors shall be supplied with mast arm mounting hardware which includes stainless steel banding, bolts, washers and brackets as approved by ODOT.

Payment for Item 632 – Signalization, Misc.: Preemption Detector shall be made at the contract unit price for each unit supplied.

Item 633 – Controller Item, Misc.: Preemption

This item of work shall consist of furnishing pre-emption equipment for installation in the controllers. The pre-emption shall conform to ODOT Specification 633 and shall utilize communications to identify the presence of an emergency priority vehicle. It shall cause the traffic signal controller to select a pre-programmed, pre-emption plan that will display and hold the desired signal phase for the direction of the emergency vehicle.

The communications medium shall employ sound detection techniques to determine and log the presence of the emergency vehicle. The system shall detect the presence of the vehicle through an emitting device located on the emergency vehicle. The system shall activate the pre-emption sequence by applying a signal to one of the controller's pre-empt discrete inputs. The system shall be completely compatible with the NEMA controller.

The equipment shall be shelf or rack mounted and easily removable and replaceable within the cabinet. The equipment shall be supplied completely wired in the controller cabinet and tested. The system shall be capable of pre-empting and receiving priority for each approach to the intersection. It shall be possible to detect the emergency vehicle up to 1200 feet from the intersection.

Each intersection shown in the plans and the additional spares shall be supplied with the following components:

- A. Pre-empt receiving unit
- B. Pre-empt phase selector assembly
- C. Pre-empt interface panel

The city shall be supplied with software required to calibrate, log, and operate the system. The software shall be capable of operating on an IBM or IBM compatible personal computer. Two (2) operating and instruction manuals shall be supplied with the software.

If the proposed pre-empt system is not compatible with the existing system, the supplier shall provide training for up to fifteen (15) persons in the operation of the system. It shall be provided within 48 hours of the installation of the system. It shall consist of hands-on instruction for a minimum of sixteen (16) hours. The supplier shall provide training for up to four (4) persons in the installation and maintenance of the system. It shall consist of a minimum of eight (8) hours of instruction. Training shall be supplied within seven (7) days of the installation of the system. All training shall be held in a city supplied location. Training shall be conducted by someone who has performed this within the last year and does it on a regular basis. The cost of training, including course material, travel subsistence and related costs, shall be entirely borne by the supplier and shall be incidental to the pre-emption equipment.

Payment for Item 633 – Controller Item, Misc.: Preemption shall be made at the contract unit price for each pre-emption supplied.

Item 633 – Controller Unit, Type TS2/A2, with Cabinet, Type TS1, As Per Plan

The controller units provided in this project shall be NEMA type manufactured by:

Econolite Control Products

3360 East La Palma

Anaheim, CA 92806

Phone: 800-225-6480

The controller shall be *Cobalt* model. This item shall consist of furnishing an actuated, solid state digital microprocessor type controller with menu driven prompts, internal TBC, FSK telemetry module for closed loop communications and all other accessories that are required to make the controller completely functional and operational as shown in the plans. Manufacturer guarantees or warranties on all installed traffic signal control equipment shall be transferred to the City of Canton Traffic Signal Department acceptance of the equipment. Payment shall be full compensation for all labor, materials, tools, equipment, testing, certifications, and other incidentals necessary to furnish the controller complete, including all connections made and wiring complete, tested, and accepted. The controller assembly and cabinet shall include a NEMA TS2 Type 2 controller and a NEMA TS2 Type 16 Malfunction Management Unit (MMU) complete in a NEMA TS1 cabinet assembly. In addition, the controller assembly and cabinet shall conform to ODOT Specification 633. The controller shall be capable of an additional 12 standard overlaps by assigning each phase output to an overlap.

The controller shall include time-of-day and coordination capabilities. In addition, the controller shall include pre-emption capabilities including six (6) railroad, fire, and emergency vehicle high-priority preemptors and four (4) low-priority bus-preemptors. Controller shall be programmable to allow for flashing “don’t walk” through the yellow signal phase.

The cabinet shall be equipped with a communications interface that fully supports an Ethernet IEEE 802.3 compliant 10/100 base T auto sensing port and capable of handling both copper and fiber optic cables for system communications. The cabinet shall be wired for monitoring each approach separately. All vehicle signal circuits shall be isolated (splitting the heads for pre-emption purposes).

The MMU shall pass all tests as performed by an automatic monitor tester. Test results shall be printed and supplied with each cabinet.

The police panel shall have switch access for signal on/off, flash control, automatic/manual transfer, and manual pushbutton with ten (10) feet coiled hand cord.

Technician switch panel shall be mounted on the inside of the main cabinet door and shall have switch access for stop time on/off, flash control, timer power on/off, detector test, monetary pushbutton.

The cabinet shall be aluminum, with a natural satin finish outside with a painted semi-gloss white enamel finish inside. The cabinets shall comply with the requirements of 733.03

(Section A). In addition to cabinet requirements, supplier shall furnish at intersection with nostalgia pole type/style and street lighting control; the street lighting is to be controlled by single photo cell on closest signal pole or luminaire with contactor (tork 5401 or equal) installed in cabinet including a three position maintenance switch hand, off, auto (telemecanique #XB4BD33 or equal). The fail contacts of the surge protector shall be wired to an alarm input for reporting a failed device to a central computer, wire connections to the backpanel shall be made with crimp terminals and threaded fasteners. Soldier connections may be used on the backside of a panel that utilizes feed-thru style terminal blocks. Printed circuit boards shall not be used on any part of the terminals and facilities provided within the cabinet. All wires fastened to the load switch, flasher and flash transfer relay sockets shall be soldered in place. A good mechanical connection must be made prior to soldering. All wiring of harnesses and interpanel wiring, including wiring to the police panel shall be protected with a nylon mesh or "snake skin". Any exposes wires, or the use of cable ties to hold the wire bundles together shall not be allowed. For ease of maintenance, all harnesses shall be of sufficient length to place the equipment on top of the cabinet and be operational.

A color-coded wiring system shall be used throughout the wiring of the cabinet. All systems functions of the controller shall be terminated on a single panel. Wiring color-code shall be as follows:

- | | |
|-----------|---------------------------|
| A. Blue | Controller Unit |
| B. Violet | MMU |
| C. Red | Red Load Switch Output |
| D. Yellow | Yellow Load Switch Output |
| E. Brown | Green Load Switch Output |
| F. Black | AC Line Power |
| G. White | AC Neutral |
| H. Green | Earth Ground |
| I. Gray | Logic Ground |
| J. Orange | Flash Programming |

Two (2) sets of cabinet wiring diagrams, service manuals, programming and maintenance instructions shall be furnished for each cabinet and equipment item.

The cabinet wiring diagrams shall be supplied in a clear plastic pouch fastened to the inside of the controller cabinet.

Note:

All proposed cabinets shall be type SM/SM2 (size: 30"x17"x58") unless modification is otherwise needed as noted below:

The supplier for the control units shall verify that the proposed cabinet will fit on and conform to the existing ground mounted foundation at the following location:

A. 12th Street and Lawrence Road N.E.

Payment for Item 633 – Controller Unit, Type TS2/A2, with Cabinet, Type TS1, As Per Plan shall be made at the contract unit price per each controller and cabinet supplied.

Item 633 – Controller Unit, Type TS2/A2, As Per Plan

This item shall follow the controller specifications in Item 633 – Controller Unit, Type TS2/A2, with Cabinet, Type TS1, As Per Plan.

Payment for Item 633 – Controller Unit, Type TS2/A2, As Per Plan shall be made at the contract unit price per each controller supplied.

Item 633 – Cabinet Riser, As Per Plan

This item shall meet the requirements of CMS 633 except that it shall not include installation.

Payment for Item 633 – Cabinet Riser, As Per Plan shall be made at the contract unit price per each riser supplied.

Item 633 – Uninterruptible Power Supply (UPS), 1000 Watt, As Per Plan

This item shall meet the requirements of CMS 633 except that it shall not include installation.

Uninterruptible Power Supply (UPS), 1000 Watt, As Per Plan shall be made at the contract unit price per each unit provided.

Item 633- Controller Item, Misc.: Railroad Preemption Indicator Panel

This item shall include all coordination, hardware, cable, connectors, troubleshooting and resolution necessary to supply and install a railroad preemption indicator panel. The panel shall function with the traffic signal controller and shall meet the requirements of the Traffic Engineering Manual latest edition section 804-4.3.5.

A 7 conductor, IMSA signal cable, shall be installed between the traffic signal controller cabinet and the preemption indicator panel. All cable, galvanized conduit, risers, fittings and hardware necessary to install and connect the panel to the signal support or strain pole shall be included as part of this item, including bends and providing a weather tight seal.

Payment for Item 633-Controller Item, Misc.: Railroad Preemption Indicator Panel shall be made at the contract unit price bid per each unit provided.

Item 633- Controller Item, Misc.: Railroad Preemption Interface Panel

This item shall include all coordination, hardware, cable, connectors, relays, troubleshooting and resolution necessary to supply and install a railroad preemption interface panel in the traffic signal controller cabinet as described in the Traffic Engineering Manual latest edition section 804-4.5. The panel shall function with the traffic signal controller and communicate with the railroad control cabinet installed and or maintained by Wheeling & Lake Erie Railway Company.

Supplier shall assist City personnel with testing. Testing of the railroad interconnect shall be performed in accordance with ODOT CMS 632.28, part A, C, D, E, F and G. Personnel from the railroad will be required to assist in the completion of test C, D, E, F and G and to perform functional testing.

Payment for Item 633-Controller Item, Misc.: Railroad Preemption Interface Panel shall be made at the contract unit price bid per each unit provided.

GP 1149 Railroad Crossing - Traffic Signal Project Equipment Supply

Ref	Item	Ext.	Description	Unit	QTY	Unit Cost	Total Cost
1	631	90501	Internally Illuminated Fixed Message Sign, Type R3-1, As Per Plan	Each	2		
2	631	90501	Internally Illuminated Fixed Message Sign, Type R3-2, As Per Plan	Each	1		
3	632	05005	Vehicular Signal Head, (LED), 3 Section, 12" Lens, 1-Way, Polycarbonate, As Per Plan	Each	13		
4	632	05085	Vehicular Signal Head, (LED), 4 Section, 12" Lens, 1-Way, Polycarbonate, As Per Plan	Each	4		
5	632	30400	Messenger Wire, 7 Strand, 1/2" Diameter with Accessories, As Per Plan	Feet	45		
6	632	40700	Signal Cable, 7 Conductor, No. 14 AWG, As Per Plan	Feet	2095		
7	632	62810	Interconnect Cable, 6 Pair, NO. 19 AWG, Solid, REA (PE-39), As Per Plan	Feet	275		
8	632	66101	Power Cable, 1 Conductor, No. 10 AWG, As Per Plan	Feet	765		
9	632	68300	Power Cable, 3 Conductor, No. 6 AWG, As Per Plan	Feet	325		
10	632	90400	Signalization, Misc.: Interconnect Splice Enclosure	Each	1		
11	632	90500	Signalization, Misc.: Pre-Emption Detector Cable	Feet	1675		
12	632	90500	Signalization, Misc.: Pre-Emption Detector	Each	11		
13	633	01541	Controller Unit, Type TS2/A2, As Per Plan	Each	1		
14	633	01561	Controller Unit, Type TS2/A2, with Cabinet, Type TS1, As Per Plan	Each	4		
15	633	67000	Cabinet Riser, As Per Plan	Each	4		
16	633	75000	Uninterruptible Power Supply (UPS), 1000 Watt, As Per Plan	Each	5		
17	633	99000	Controller Item, Misc.: Pre-Emption	Each	3		
18	633	99000	Controller Item, Misc.: Railroad Preemption Indicator Panel	Each	5		
19	633	99000	Controller Item, Misc.: Railroad Preemption Interface Panel	Each	5		
Total Cost:							

GP 1149 Railroad Crossing - Traffic Signal Project Equipment Supply

TOTAL BID \$_____

For informational purposes only, total unit prices will govern