City of Mt. Pleasant, Michigan

CONTRACT DOCUMENTS

For

2017 Solar LED Flashing School Crossing Signs

KATHLEEN LING
Mayor

NANCY RIDLEY
City Manager

Prepared By:
Division of Public Works

JOHN ZANG
DPW Director

June 2017
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**Bidding Information**

Notice to Bidders
Instructions to Bidders

**Contract Documents**

Proposal

**Technical Specifications**

Supplemental Specifications
NOTICE TO BIDDERS

2017 Solar LED Flashing School Crossing Signs

The City of Mt. Pleasant, Michigan, is requesting sealed bids at the Office of the City Clerk, City Hall, 320 W. Broadway Street, Mt. Pleasant, Michigan 48858, until 1:30 p.m. (local time), on June 27, 2017, at which time and place the bids will be publicly opened and read. All bids shall be submitted in a sealed envelope, plainly marked "2017 Solar LED Flashing School Crossing Signs– June 27, 2017."

Proposals are solicited on a unit price basis, for the following work (approx. quantities):

Solar LED Flashing School Crossing Signs 16 Each
w/ Push Button Activation

A bid bond is not required for this project.

To view and download complete Plans and Specifications at no charge, visit the City of Mt. Pleasant website at www.mt-pleasant.org and navigate to the bids and quotes page.

A non-refundable $10.00 fee is required for plans and specifications picked up at the Public Works Building, 1303 N. Franklin Street, Mt. Pleasant, Michigan 48858, (989) 779-5401, Monday through Friday, 8:00 a.m. to 4:30 p.m. A non-refundable $15.00 fee is required for plans and specifications that must be mailed.

The City of Mt. Pleasant reserves the right to accept or reject any or all bids, to waive any irregularities in the bids, and to select the bid considered most advantageous to the City.

Stacie Tewari          Jeremy Howard
City Engineer          City Clerk
(989) 779-5404
1. **Proposals**

Proposals must be made upon the forms provided therefore, with the Bid amount both written and shown in figures, and all other data required submitted.

The Proposal, bound together with all Proposal Documents, must be enclosed in a sealed envelope marked as specified in the Notice to Bidders for such Bid and clearly indicating the name and address of the Bidder and must be received by the City Clerk, City Hall, 320 West Broadway Street, Mt. Pleasant, Michigan 48858, no later than the time and date specified in the Notice to Bidders. At such specified time, Proposals shall be publicly opened and read aloud.

2. **Basis of Proposals**

Proposals are solicited on the basis of unit price(s) and/or lump sum(s), as specified on the Proposal form.

The City of Mt. Pleasant (also referred to as "Owner"), reserves the right to accept any Bid, to reject any or all Bids, to waive any irregularities in the Bids, and to select the Bid considered most advantageous to the city.

3. **Comparison of Bids**

In comparing Bids, consideration shall be given to the time proposed for completion of the Contract, qualifications of Bidder, price differentials, alternate Proposals for the alternate items listed in the Proposal (if applicable), and any other pertinent factors. The City of Mt. Pleasant grants a preference to businesses located within the Mt. Pleasant City Limits. The preference given is a differential above the low bid if the low bid is not from a City of Mt. Pleasant bidder. The differential allowed is 3% of the total for bids between $5,000 and $9,999 and 2% of the total for bids over $10,000. The maximum credit allowed is $1500.00. The Owner reserves the right to make an award to the Bidder whose Proposal is deemed to be in the best interest of the Owner.

4. **Time**

Time is of the essence in the performance of the Contract, and each Bidder, by submitting a Proposal, certifies his/her acceptance of the time allowed by the Contract for the completion of the work specified.

5. **Indemnification**

The Contractor shall save and hold harmless the city and its employees from and against all claims, damages, losses, or expenses, including attorney’s fees, arising out of or resulting from the performance of the work; provided that any such claim, damage, loss or expense is caused in whole or in part by any negligent or willful act of omission of the contractor, subcontractor, employee, or anyone under their direction. The Contractor shall at his/her own expense, defend any and all such actions and shall pay all attorney’s fees, costs, and expenses pertaining thereto.
6. **Bid Deposits**

   Not required.

7. **Liquidated Damages**

   Not applicable.

8. **Insurance and Bonds**

   Not required.

9. **Permits and Local Codes**

   Not required.

10. **Qualifications of Bidders**

    It is the intent of the Owner to award the Contract to a Bidder fully capable, both financially and with regard to experience, to perform and complete all work in a satisfactory and timely manner. Evidence of such competency must be furnished on the forms included in the proposal, listing projects of similar difficulty, scope of work, and size, which the Bidder has satisfactorily undertaken and completed.

    It is the intention of the City to award the contract to a Contractor whose ability and financial resources are fully equal to the task of performing the work in a satisfactory manner. With this in view, the Proposal calls for at least five (5) references, using specific names of persons to contact concerning the Contractor's ability to do this particular class of work. References from municipalities are preferred. The mere ability to furnish a Performance Bond shall not be accepted as sufficient evidence of responsibility on the part of the Bidder. The Bidder may also be required to furnish evidence of his current financial status.

11. **Interpretation of Documents**

    If any Bidder is in doubt as to the true meaning of any part of the Plans, Specifications or any Contract Document, he/she may submit to the Owner a written request for an interpretation thereof. Any interpretation made in response to such a query shall be made only by Addendum, duly issued, and a copy of such Addendum shall be mailed or duly delivered to each prospective Bidder. The Owner shall not be responsible for any other explanation or interpretation of the Contract Documents. Alternative proposals that are suggested by bidders will be given consideration, if presented before the bid opening. If accepted, an addendum will be issued and sent out to all potential bidders, so that they may bid on the alternatives that have been identified.

12. **Execution of Bid Proposal**

    A Bid Proposal, which is not signed by the individual making it, should have attached thereto a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the person for whom it is signed.
A Bid Proposal, which is signed by a partnership, shall be signed by all of the partners or by an Attorney-in-Fact. If signed by an Attorney-in-Fact, there should be attached to the Bid a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the partnership and such Power of Attorney shall be signed by all partners of the partnership.

A Bid Proposal, which is signed for a corporation, should have the correct corporate name thereof and the signature of the President, or other authorized officer(s) of the corporation, manually written below the corporate name and on the line indicating "By:___________________________." If such a Bid Proposal is manually signed by an officer other than the President of the corporation, a certified copy of a Resolution of the Board of Directors evidencing the authority of such officer(s) to sign the Bid Proposal should be attached thereto. Such a Bid Proposal should also bear the attested signature of the Secretary of the corporation and an impression of the corporate seal.

13. **Execution of Contract**

The successful Bidder to whom an award is made shall be required to enter into a written agreement, in the form attached hereto, within ten (10) days after receipt of a Notice of Award and copies of the documents to be executed. In the event the successful Bidder fails to comply with this provision, he/she may be considered by the Owner to have abandoned all his/her rights and interests in the award and his/her certified check or amount of the Bid Bond may be declared to be forfeited to the Owner, and the Contract may be awarded to another.
The undersigned, as Bidder, hereby declares that his bid is made in good faith without fraud or collusion with any person or persons bidding on the same Contract; that he has carefully read and examined the Contract Documents, including the Notice to Bidders, Instructions, Bond Forms, Technical and Detailed Specifications, and Contract Drawings, for the designated work and understands all of the same; that he, or his representative, has made such a personal investigation at the site as is necessary to determine the character and difficulties attending the execution of the proposed work; and he proposes and agrees that if this Proposal is accepted, he will contract with the Owner in the form of the Contract hereto annexed, to provide necessary machinery, tools, apparatus and other means of construction, including utility and transportation services, necessary to do all the work and furnish all the materials and equipment specified or referred to in the Contract Documents, including Addenda No. __, __, and __, in the manner and time therein prescribed, and according to the requirements of the Owner as therein set forth to furnish Contractor Bonds and Insurance required of the Contractor by the Contract Documents, and that he will take in full payment therefore the unit prices set forth in the following Proposal.

The Bidder understands that the Owner reserves the right to reject any or all bids and to waive any irregularities in the bidding.

The Bidder agrees that his bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving the bids.

Upon receipt of a written Notice of Award of the Bid, the Bidder shall execute the formal Contract Agreement attached hereto within ten (10) days.

The Bidder hereby agrees to commence work under this Contract on or before the date to be specified in the written Notice to Proceed executed by the Owner and to fully complete the project as stipulated in the Special Conditions of these Specifications.

The below unit prices shall include all labor, materials, overhead, profit, insurance, etc., to cover the finished work of the several kinds specified, and the Bidder agrees to perform all of the work described in the Specifications and/or shown on the Plans for the following unit prices:
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>TOTAL COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar LED flashing school crossing sign, 36”, wireless communication for</td>
<td>16</td>
<td>Each</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>wired activation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Round 2-3/8”x14’ Posts w/ V-loc Anchor System</td>
<td>16</td>
<td>Each</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Timeclock Control Cabinet</td>
<td>16</td>
<td>Each</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Software Programming Kit</td>
<td>1</td>
<td>Each</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>W16-7PL Down Arrow Sign</td>
<td>16</td>
<td>Each</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Blinker Beam Wireless Controller</td>
<td>16</td>
<td>Each</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Push Button Activators</td>
<td>16</td>
<td>Each</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

Total (written) and _______/100 Dollars

RESPECTFULLY SUBMITTED:

Date ________________

Company Name ____________________________________________

Address __________________________________________________________________________

City __________________ ST ______ Zip Code ________________

Area Code/Telephone Number ________________________________

Fax ________________________________

Email __________________________________________________________________________

Authorized Signature _____________________________________________

Print of Type Name and Title _____________________________________________
EXPERIENCE QUESTIONNAIRE
To be furnished by Bidder

The signatory of this proposal guarantees the truth and accuracy of all statements and of all answers hereinafter made.

1. How many years have you been in business as a contractor under your present name?

________________________________________________________________________

2. How many years have you been a principal officer of a firm under a different name?

________________________________________________________________________

Name of Firm ____________________________________________________________

3. What projects of a similar nature has your organization contracted for within the past five years? (NOTE: Fill out each blank completely.)

<table>
<thead>
<tr>
<th>Name of Owner &amp; Location</th>
<th>Name/Address/Phone # of Person in Charge as Reference</th>
<th>Type of Work</th>
<th>Value of Work</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
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<td>2.</td>
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<td>5.</td>
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<tr>
<td>6.</td>
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Construction Specifications

Time Constraints

Completion of this project within the time constraints described below is essential. The project will be awarded by July 14, 2017. The Supplier shall submit shop drawings by July 21, 2017 and materials by August 28, 2017.

School Crossing Signs

The supplier shall supply the signs, posts, and all required accessories and materials per the attached specifications. Approved equals will be considered. Signs will be installed by City of Mt. Pleasant staff.
TAPCO’s brilliant innovation of enhancing traffic signs with LEDs (Light-Emitting Diodes) makes intersections safer, reduces accidents and saves lives!

Day-Viz™ (Daylight Visible BlinkerSigns) feature an array of incredibly bright LEDs that flash in unison, per MUTCD, commanding the attention of drivers DAY AND NIGHT.

- Solar Powered
- Easy Installation
- MUTCD Compliant
- Proprietary Day-Viz™ Circuitry
Features

• Installs easily onto any new or existing sign post
• Can be integrated into an ITS (Intelligent Transportation System)
• High intensity Day-Viz™ LEDs command attention day and night
• Can be programmed to operate continuously (24/7) or on solar time clocks, push-buttons and/or motion (vehicle) detectors
• Proprietary circuitry automatically adjusts light output for maximum visibility and battery efficiency
• Multiple signs can be synchronized
• Heightened driver awareness
• Increased visibility at high incident intersections

Applications

• New school locations
• High incident intersections
• Rural roads
• Advance crosswalk warnings

Standard Specifications

<table>
<thead>
<tr>
<th>Sign</th>
<th>Sign Substrate</th>
<th>.080 Highway Grade Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reflective Sheeting</td>
<td>FYG - 3M™ DG3- with anti-graffiti overlay</td>
</tr>
<tr>
<td></td>
<td>MUTCD Compliance</td>
<td>MUTCD Section 2A.07 Compliant</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Day-Viz® Management System (patent pending)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
</tr>
<tr>
<td>Battery Lifespan</td>
</tr>
<tr>
<td>Autonomy- Functionality without Charge</td>
</tr>
<tr>
<td>Flash Pattern</td>
</tr>
<tr>
<td>LED Type</td>
</tr>
<tr>
<td>LED Life Expectancy</td>
</tr>
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</table>

Warranty

2 Year

Smart Activation Options

- Timeclock
- Push Button
- Wireless Bollard
- Pedestrian motion detector

Optional BlinkerBeam® Wireless Communication

Push buttons can activate BlinkerBeam® solar/battery-powered transceiver radios. These compact controllers activate one or more BlinkerSign® LED Signs, BlinkerBeacon® LED Beacons, RRFB and other ITS devices wirelessly within a 1000 ft. range, up to one mile with an external antenna.

Optional Push Button Activation

Activated with less than 2 lbs. of force. Provides two-tone audible confirmation as well as visual confirmation. Meets ADA, MUTCD and TAC requirements, and housing meets NEMA specifications. Remote mounting available. Audible navigation units are available.

Optional Wireless Bollard Activation

Pedestrians and bicyclists can passively trigger flashing BlinkerSign® LED signs, RRFB, BlinkerBeacon® LED Beacons, in-pavement LEDs and other ITS devices. Actuators are housed in anodized aluminum cabinets that can be secured to concrete or asphalt. Battery operated: no grid wiring required.

Optional Pedestrian Motion Detector

Active infrared and microwave technologies work together to provide precise presence and accurate motion detection. Mountable between 8’ and 16’. Impervious to light, sun rain and snow. Housing is rated NEMA-4.

Visit Traffic and Parking on YouTube for videos on these products and more.
When used on highway/roadway applications, BlinkerBeam wireless transmitters can activate pedestrian crosswalk signage, including BlinkerSign® LED Signs, detection devices and many other traffic control devices. It can also be an integral part of critical warning systems for alerting bikers, joggers and pedestrians to the presence of vehicle traffic and vice versa. For simple, reliable and flexible wireless activation, nothing outshines the BlinkerBeam® System from TAPCO.

**System activation**
(pedestrian push-button shown)

1. **Activated BlinkerBeam® transceiver radio sends wireless signal to nodes**
2. **BlinkerBeam® triggered nodes activate BlinkerSigns®, RRFB, in-pavement lighting or other devices**

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**The BlinkerBeam® controller**

- Operates license-free on 902-928 MHz Spread Spectrum
- Stand-alone operation
- Solar Powered or 110 VAC operation, or optional two-year battery
- Fully programmable outputs
- Terminal Block for easy connectivity
- Range up to 900 feet with internal antenna, optional antenna for extended line of sight distance

---

**The advantages of solar power versus 110v AC**

- Lower installation and operating costs
- Compact, clean appearance
- Self contained
- Easy to install
- Reduced labor
- No concrete cutting
- No electrician required
- No trenching
- Not affected by local grid power outages

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**BlinkerSign® LED sign Rectangular Rapid-Flash Beacon (RRFB)**

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110V AC grid-powered systems are available
ITS Time Clock Controller and Scheduling Software for ITS Traffic Control Devices

TAPCO’s ITS Time Clock Controller and scheduling software work together to allow ITS device scheduling. It’s the simple solution for single managing schedules controlling BlinkerSign® activity.

Hardware Time Clock Controller
The hardware controller is integrated into TAPCO BlinkerSign LED signs and stores the schedule uploaded from the Scheduling Software. The controller activates the BlinkerSign according to the schedule.

Scheduling Software
The software is a Windows OS calendar program with the ability to program in holidays and daylight savings time. Choose from 8 different day types and 16 events per day Ideal for school, business and industrial facility work schedules.

When scheduling for a BlinkerSign® needs to be configured or altered, simply connect a laptop (not included) running the Scheduling Software to the ITS Time Clock Controller via a USB cable (included with Scheduling Software). The schedule is uploaded to the device and can also be saved to the laptop.

Features
- Fully Customizable Calendar
- Apply different settings to different days, or groups of days
- 7 customizable day types allow for different schedules for each day of the week
- Up to 16 events per day
- Program the schedules with a Windows OS computer and included data connection cable.
- Ability to save schedules and calendars for re-use and easy updating
- Optionally configure schedules remotely with BlinkLink™ on enabled devices

© To Laptop

1-800-236-0112 www.tapconet.com

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