

**CITY OF GRAND HAVEN  
GRAND HAVEN, MICHIGAN  
DEPARTMENT OF PUBLIC WORKS**

**April 10, 2019**

**REQUEST FOR PROPOSALS**

**NOTICE TO BIDDERS**

It is the intent of the City of Grand Haven to receive bids for a lawn irrigation installation at the Community Center Parking Lot in the City of Grand Haven.

Sealed proposals will be received by the City of Grand Haven, 519 Washington Avenue, Grand Haven, Michigan, 49417, Attn: Linda Browand, City Clerk, until 10:00 a.m. local time, Wednesday, April 24, 2019, at which time the proposals will be publicly opened and read aloud. Proposals must be submitted on the official proposal form attached. Sealed proposal envelopes must be clearly marked on the outside **“Community Center Parking Lot Irrigation - 2019.”**

Copies of the Requests for Proposals (RFP) that contain the minimum specifications and official proposal forms are available at the City Clerk’s office at City Hall, 519 Washington Avenue, Grand Haven, Michigan 49417, or can be picked up at the Department of Public Works office at 1120 Jackson Street (*this is not a mailing address*).

Any questions regarding this RFP or the minimum specifications shall be directed to Dan Vivian, Facilities Manager at 616-847-3493.

The City of Grand Haven reserves the right to reject any or all bids or any parts of the same, to waive any irregularities and to accept any bid in its own best interest.

Dan Vivian  
Facilities Manager

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INSTRUCTIONS TO BIDDERS

1. **SPECIAL CONDITIONS:** Special conditions included in the Bid Document shall take precedence over any provisions stipulated hereunder.
2. **APPLICABLE LAWS:** The revised code of the state of Michigan, Charter of the City of Grand Haven, and all city ordinances insofar as they apply to the laws of competitive bidding, contracts, and the purchases, are made a part hereof.
3. **WORKMEN'S COMPENSATION:** In so far as Workmen's Compensation is concerned, the bidder of contractor agrees to furnish. Upon request, certified copies of policies and adequate certificates pertaining thereto as evidence that bidder carries Workmen's Compensation Insurance.
4. **INFRINGEMENTS AND INDEMNIFICATIONS:** The bidder, if awarded an order or contract, agrees to protect, defend, and save the City harmless against any demand for payment for the use of any patented material, process, article, or device that may enter into the manufacture, construction, or form as part of the work covered by either order or contract and he/she further agrees to indemnify and save the City harmless from suits or actions of every nature and description brought against it, for or on account of any injuries or damages sustained by a party or parties, by or from any of the acts of the contractor, his/her servants, or agents.

To this extent the bidder or contractor agrees to furnish adequate Public Liability and Property Damage Insurance, the amounts of which will be determined by the City whenever such insurance is deemed necessary, when so required the types and amounts of insurance to be provided will be set forth in the Bid Document.

5. **DEFAULT PROVISIONS:** In case of default by the bidder or contractor, the City of Grand Haven may procure the articles of services from other sources and hold the bidder or contractor responsible for any excess costs occasioned thereby.

In case of an error by the bidder in making up a proposal, the City Manager may reject such a proposal upon presentation of a petition accompanied by a sworn affidavit of error which sets forth the error, the cause thereof and sufficient evidence to substantiate the claim.

6. **PRICING:** Prices should be stated in units of quantity specified in the Bid Document. In case of discrepancy in computing the amount of the bid the unit prices quoted will govern.
7. **QUANTITIES:** When approximate quantities are stated, the City reserves the right to increase or decrease the quantity as best fits its needs.

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8. **DELIVERY:** Quotations should include all charges for delivery, packing, crating, containers, etc. Unless otherwise stated by the bidder prices quoted will be considered as being based on delivery to the destination designated in the Bid Document and to include all delivery and packing charges.
9. **SPECIFICATIONS:** Unless otherwise stated by the bidder the proposal will be considered as being in strict accordance with the specifications outlined in the Bid Document.
  1. References to a particular trade name, manufacturer's catalog, or model number are made for descriptive purposes to guide the bidder in interpreting the requirements of the City. They should not be construed as excluding proposals on other types of materials, equipment and supplies. However, the bidder, if awarded, a contract will be required to furnish the particular item referred to in the specifications or description unless a departure or substitution is clearly noted and described in the proposal.
10. **SAMPLES:** Samples, when requested, shall be filed prior to the opening of bids and must be furnished free of expense to the City and if not destroyed, will upon request be returned at the bidder's expense.
11. **TAXES:** Contractor shall include and be deemed to have included in his bid and contract price Michigan State Sales and Use Taxes currently imposed by Legislative enactment and as administered by the Michigan Department Treasury, Revenue Division, on the bid date. If the Contractor is not required to pay or bear the burden, or obtains a refund or drawback in whole or in part of any Michigan Sales or Use Tax, interest or penalty thereon, which was required to be and was deemed to have been included in the bid and contract price, the contract price shall be reduced by the amount thereof and the amount of such reduction, whether as a refund or otherwise, shall endure solely to the benefit of the City of Grand Haven.
12. **BID INFORMALITIES AND REJECTION:** The City reserves the right to waive any nonconformity, irregularity or informalities' in any bid, to negotiate with the selected bidder and to award the bid in its determination of its best interest.
13. **AWARD:** Unless otherwise specified in the Bid Document the City reserves the right to accept or reject any item in the bid. Unless otherwise stated in the Bid Document bidders may submit proposals on any item or group of items, provided however that the unit prices are shown as requested.

As soon as the Award is made, an order or contract documents will be sent to the successful bidder for execution and bond if necessary. If the contracts are not executed and returned to the Purchasing Agent within 10 days of the date of sending, the Bid Survey, if required, will be declared forfeited as liquidated damages.

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14. **PAYMENTS:** Partial payments may be made upon presentation of a properly executed claim voucher, unless otherwise stated in the Bid Document. The final payment will be made by the City when the materials, supplies or equipment have been fully delivered and accepted or the work completed to the full satisfaction of the City.

a) Increases in contract cost shall be approved in writing, prior to excess expense being incurred. Approval of increases may require formal action by City Council.

15. **BIDDER'S SIGNATURE:** Each proposal and bid surety form must be signed by the bidder with his usual signature. All signatures should be in full.

Bids by partnership must be signed by one or more of the partners in the following manner: "John Jones and James Smith, D.B.A., Smith Jones Company, by John Jones, a partner".

Bids by corporations must be signed with the names of the corporation, followed by the signature and designation of the president, vice-president, or person authorized to bind it in the matter.

16. **SUBMISSION AND RECEIPT OF BIDS:** Inquires involving an expenditure exceeding the limits established in the City Charter usually require advertising over a period of at least 5 days prior to scheduled bid opening. Proposals of the nature are publicly read at 10 o'clock AM (unless otherwise noted) on the date bids are scheduled to be received.

a) Proposals, to receive consideration, must be received prior to the specified time of opening and reading as designated in the invitation.

b) *Bidder must use the bid document proposal forms furnished by the City as none other may be accepted.*

c) *Proposal forms must be returned intact.*

d) *Removal of any thereof may invalidate the bid.*

e) Specifications and plans referred to in this bid document by reference only, need not be returned with the bid, however, no excision of material physically incorporated in the bid document will be permitted.

f) Bids are to be submitted in sealed envelopes and identified as requested in the specifications.

g) Separate proposals must be submitted on each reference number and proposals shall be typewritten or written in ink.

h) Proposals having any erasures or corrections thereon may be rejected unless explained or noted over the signature of the bidder.

i) Proposals must be mailed or delivered to the Clerk's Office at Grand Haven City Hall 519 Washington Avenue, Grand Haven, MI. 49417.

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17. **INTERPRETATION OF BID AND/OR CONTRACT DOCUMENTS:** No oral interpretation will be made to any bidder as to the meaning of the bid and/or Contract Documents or any part thereof. Every request for such an interpretation shall be made in writing to the City of Grand Haven. Any inquiry received within a reasonable time prior to the date fixed for the opening of bids will be given consideration. Every interpretation made to a bidder will be on file in the Clerk's office of the City of Grand Haven. In addition, copies will be mailed to each person holding Bid and/or Contract Documents and all bidders shall be bound by such interpretations whether or not received by the bidders.
18. **CHANGES AND ADDENDA TO BID DOCUMENTS:** Each change or addenda issued in relation to this bid document will be on file in the Clerk's Office of the City of Grand Haven. In addition, to the extent possible, copies will be mailed to each person registered as having received a set of the bid documents.

It shall be the bidder's responsibility to make inquiry as to the changes or addenda issued. All such changes or addenda shall become part of the contract and all bidders shall be bound by such changes or addenda. Information on all changes or addenda issued will be available at the office of the City Purchasing Agent. All changes will be approved by City Council.

**IF BID SURETY IS REQUESTED ON PROPOSAL FORM, PLEASE OBSERVE THE FOLLOWING:**

19. **BID SURETY:** All Proposals must be accompanied by the bid bond, deposit of cash, certified check, bank cashier's or bank official's check, drawn on a solvent bank payable to the Treasure of the City of Grand Haven in the amount determined by the City as stated in the Proposal Form, as a guarantee that if the bid is accepted a contract will be entered into.
- a) The City will determine the sufficiency of the surety.
  - b) The bid bond should be executed by an authorized surety, guaranty, or trust company.
  - c) If corporate surety is given, the surety or guaranty company should indicate the bond in the State in which it is incorporated. A certificate of authority authorizing the "attorney-in-fact" to sign the bond, should accompany the Bid Document unless the certificate is on file in the Office of the City Purchasing Agent.
  - d) The surety signature should be witnessed.
20. **PERFORMANCE SURETY:** The successful bidder may be required to furnish a bond or certified check on a solvent bank, payable to the Treasure of the City of Grand Haven in the amount stated in the Proposal Form as a guarantee for the faithful performance of the contract. The City will determine the sufficiency of the surety.

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21. **INSURANCE REQUIREMENTS:** The Contractor will secure and maintain insurance during the term of the contract from an insurance company authorized to do business in the State of Michigan that will protect contractors and subcontractors and the City from all liability (public liability, personal injury and property damage) claims which may arise from operations under the contract. The Contractor may not start work until evidence of all required insurance has been submitted and approved by the City. The contractor must cease work if any of the required insurance is canceled or expires. Three (3) copies of certificates of insurance shall be submitted to be approved by the City prior to the execution of the contract. The Certificate shall specifically name the City as an additional insured party. The certificates must contain the agreement of the insurance company notifying the City in writing ten (10) days prior to any cancellation or material alteration of the policy. The Contractor shall not allow any work under the contract to be performed by a subcontractor unless evidence of similar insurance covering the activities of the subcontractor is submitted to and approved by the City. The limits of insurance shall not be less than the following:

A. Workers Compensation Insurance in the amount required by Michigan Law.

B. General Liability:

Bodily Injury and Property Damage combined

Each Occurrence	\$1,000,000.00
Aggregate	\$1,000,000.00

Personal Injury	\$1,000,000.00
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C. Automobile Insurance for Vehicles:

Bodily Injury Each Person	\$1,000,000.00
Bodily Injury Each Accident	\$1,000,000.00

Property Damage Each Accident	\$1,000,000.00
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22. **REFERENCES:** Please list three (3) references (Municipal Government) where your company has performed a window installation project proposed for the City of Grand Haven. Failure to list references may result in your company being disqualified.

	CITY	ADDRESS	CONTACT PERSON	TELEPHONE NUMBER
A.	_____	_____	_____	_____
B.	_____	_____	_____	_____
C.	_____	_____	_____	_____

**NOTE**

Previous experience and performance may be a factor in making the award.

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**PROJECT COMPLETION DATE:** A start date shall be agreed upon between the City and the contractor upon award of contract. All work and restoration must be completed before June 28, 2019. A \$150.00 per day fine shall be assessed for each day after. All parties agree that the timetable may be extended due to unforeseen circumstances as agreed by City Manager or designee and the Contractor. Once construction is started contractor **MUST** be onsite each work day until project completion.

**MISCELLANEOUS:**

- A. Contractor shall install in each controller a reduced drawing of sprinkler plan showing each area operated by a remote control valve. Chart shall be laminated in 4 mil plastic and securely attached to irrigation controller inside lockable lid.
  - B. Contractor is required to complete each proposal form in its entirety.
  - C. It will be the responsibility of the Bidder to familiarize themselves with the nature and scope of the project specifications, installation and types of materials and incidentals to complete the project.
  - D. Ten percent of all invoices will be held by the City of Grand Haven until project completion.
23. To arrange a pre bid site visit contact the Grounds Crew leader Earl Jorgensen at 616-847-3493, [ejorgensen@grandhaven.org](mailto:ejorgensen@grandhaven.org). or Facilities Manager, Dan Vivian at 616-847-3493, [dvivian@grandhaven.org](mailto:dvivian@grandhaven.org).

**END OF SECTION**

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**April 10, 2019**

**IRRIGATION SPECIFICATONS**

**PART 1 - GENERAL**

**1.01 DESCRIPTION OF WORK**

- A. **Scope of Services Proposal:** Work includes the construction of a new lawn irrigation system. This work shall include piping, fittings, sprinkler heads, valves, controls, control wiring, control system, electrical connections fabrications, excavations, backfill, flushing, testing and connection to existing facilities and any other work associated with the irrigation system installation. Irrigation system shall be installed in accordance with the attached drawings.

**1.02 AT COMPLETION OF PROJECT PROVIDE AS BUILT DRAWINGS SHOWING THE LOCATIONS AND DEPTH OF THE FOLLOWING ITEMS:**

- Connection to existing water lines
- Connection to existing electric power
- Ball valves
- Routing of sprinkler pressure lines
- Sprinkler control valves
- Routing and control wiring
- Other equipment as directed by Owner's Representative

**PART 2 - PRODUCTS**

**2.01 ACCEPTABLE MANUFACTURERS**

- A. Products listed on the attached drawing are the only acceptable products to be used. No other model or manufacturer will be accepted.
- B. **Control Wiring:** All control wiring downstream from clock shall be 14AWG approved direct bury.

**PART 3 - EXECUTION**

**3.01 GENERAL**

- A. **General Note:** Unless noted otherwise, all equipment and appurtenances shall be installed as per the submitted drawings, specifications, manufacturer's instructions, and as required by local codes and ordinances.
- B. **Connection to Water Source:** Connection to the water source shall be at the existing water meter pit(s) provided by the City of Grand Haven. The Contractor shall be responsible for installing an approved backflow prevention device after the water meter (if applicable).

**3.02 SYSTEM DESIGN**

- A. **Design Pressures:** Verify pressure, at the point of connection to main system and at last head in circuit by installer.
- B. **Location of Heads:** Design location is approximate. Make minor adjustments, as necessary, to avoid plantings and other obstructions, with The City of Grand Haven approval.



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**C. Minimum Water Coverage:** All planting areas, 100%. Layout may be modified, if necessary to obtain coverage to suit manufacturer's standard heads. Notify City of Grand Haven before making any changes to the submitted design. Do not decrease number of heads indicated in the design unless otherwise acceptable to the City of Grand Haven.

**3.03 TRENCHING AND BACKFILLING**

**A. General:** Excavate straight and true with bottom uniformly sloped to low points.

**B. Minimum Cover:** Provide following minimum cover over top of installed piping:

- 1) Main Lines, 18" minimum.
- 2) Lateral Lines, 12" minimum
- 3) Piping under pavement, 24" minimum
- 4) Sleeves, 18" minimum

**C. Backfill:** Backfill with clean material from excavation. Remove organic material as well as rocks and debris larger than 1" diameter. Place acceptable backfill material in 6" lifts, compacting each lift and flush with water to settle trench except under pavement.

**D. Existing Lawns:** Where trenching is required across existing lawns, uniformly cut strips of sod 6" wider than trench. Remove sod in rolls of suitable size for handling and keep moistened until replanted. Backfill trench to within 6" of finished grade. Continue fill with acceptable topsoil and compact to bring sod even with existing lawn. Replant sod within 7 days after removal, roll and water generously. Reseed and restore to original condition any sod areas not in healthy condition equal to adjoining lawns 30 days after replanting.

**3.04 INSTALLATION**

**A. General:** Unless otherwise indicated, comply with requirements of The State of Michigan Plumbing Code.

**B. Connection to Main Water Source:** Connect to an approved backflow preventer (installed by the contractor) at the existing water meter pit(s).

**C. Backflow Preventer:** Provide an approved backflow preventer at each water source (unless the existing source has a approved backflow preventer) on downstream side as shown on plans.

**D. Blow-Out Valve:** Install a blowout valve downstream of the backflow preventer.

**E. Meter Pit:** Install a drain in meter pit to prevent flooding.

**F. Circuit Valves:** Install in valve box, arranged for easy adjustment and removal. Adjust automatic control valves to provide flow rate of rated operating pressure required for each sprinkler circuit. One remote control valve per box, no exceptions.

**G. Piping:** Lay pipe on solid sub base, uniformly sloped without humps or depressions. Install PVC pipe in dry weather when temperature is above 40 degrees F (4 degrees C) in strict accordance with manufacturer's instructions. Allow joints to cure at least 24 hours at temperature above 40 degrees F (4 degrees C) before testing, unless otherwise recommended by manufacturer.

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H. **Sprinkler Heads:** Flush circuit lines with full head of water and install heads after hydrostatic test is completed. Locate part circle heads to maintain a minimum distance as shown on plans to maintain a minimum distance from walls and other boundaries, unless otherwise indicated. Check all sprinkler heads at corners near pedestrian walkways and readjust location so that heads do not obstruct pedestrians cutting corners.

I. **Controller and control wires:** Install per details of the attached plan.

J. **Electrical:** Control wiring shall be of the size, type and specification as recommended by the manufacturer of the controller and control valve and meet local requirements. Common wire must be white color; control wire must be red in color. Lay a control wire from each remote control valve to the controller and control valve to the common ground. Lay wiring from the remote control valve to the controllers beneath the mains where practicable and install control wiring in conduit when passing beneath paving. Tape wire together at ten foot intervals. Provide an 18 inch expansion wire loop at each valve. Above ground control wiring shall be encased in electrical conduit as required by local code.

K. **Cover splices as follows:** All wire splices or connections shall be made with approved waterproof wire connections and be in a valve or splice box.

L. **Trenching:** Trenches for pipe lines shall be as specified on the plan. Minor adjustments may be made to fit field conditions. All lateral irrigation pipe shall be installed at a minimum depth of 12" below grade. All pressure lines shall be installed a minimum depth of 18" below grade.

M. **Sprinkler Irrigation Pipe:** All pipes shall be placed as shown on drawings by dimensions or accurate scaling except where existing conditions require slight changes to better suit field conditions. The contractor will be responsible for installing piping through or under structures and walkways where pipe is to extend from one place to another.

N. **PVC Pipe:** Shall be installed as shown on drawing. Use only the solvent supplied by or as recommended by the manufacturer. Clean pipe and fittings thoroughly of dirt, dust and moisture before applying solvent. Remove excess solvent from joint after joining.

1. When making plastic to steel connections, work steel connections first. Use Teflon tape on threaded plastic to steel joints.

O. **Adjustments:** Adjust irrigation heads, valves, controller, and other appurtenances to ensure proper operation and coverage.

**Flushing and Testing:** After installation and prior to backfilling, the sprinkler system including piping, fittings, sprinklers, valves and all appurtenances shall be flushed and tested in the presence of the Owner.

P. **As-Built Record Drawings:** Maintain a complete set of as-built drawings which shall be corrected daily to show changes in locations of all pipe, valves, pumps and related irrigation equipment. Show valves shall be shown with dimensions to reference points.

Q. **Clean up:** The premises shall be clear of debris resulting from work at end of each day. Upon completion of the installation, the project area shall be left in a broom clean manner.

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**3.05 TESTING**

- A. **General:** Notify The City of Grand Haven at least 24 hours before testing will be conducted. Conduct tests in presence of a representative of the City of Grand Haven.
- B. **Hydrostatic Test:** Test water piping and valves, before backfilling trenches, to a hydrostatic pressure of not less than 100 psi. Piping may be tested in sections to expedite work. Remove and repair piping, connections, or valves which do not pass hydrostatic testing.
- C. **Operational Testing:** Perform operational testing after hydrostatic testing is completed, backfill is in place, and sprinkler heads adjusted to final position.
  - 1. Demonstrate to the City of Grand Haven that system meets coverage requirements and that automatic controls function properly.
  - 2. Coverage requirements are based on operation of one circuit at a time.

**3.06 DESCRIPTION OF LOCATION**

- A. The Community Center parking lot is located along Columbus Ave, between Fifth and Sixth Streets in the City of Grand Haven.

**3.07 MISCELLANEOUS**

- A. Contractor is required to complete each proposal form in its entirety.
- B. It will be the responsibility of the Bidder to inspect the proposed area prior to submittal of a bid. It will also be the responsibility of the Bidder to familiarize themselves with the nature and scope of the project specifications, installation and types of materials and incidentals to complete the project.

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**April 10, 2019**

**PROPOSAL**

Mrs. Linda Browand, City Clerk  
519 Washington Avenue  
Grand Haven, Michigan 49417

\_\_\_\_\_ Date

Dear Ms. Browand:

Completely in accordance with your notice, instructions and specifications of the Request for Proposals dated April 10, 2019, we propose to furnish the labor and materials to complete irrigation work as described in your Request for Proposals as follows:

Labor: \_\_\_\_\_

Material: \_\_\_\_\_

Bid Surety  
(10% of bid total) \_\_\_\_\_

**Proposal Total:** \_\_\_\_\_

\_\_\_\_\_  
(Bidder's Company Name)

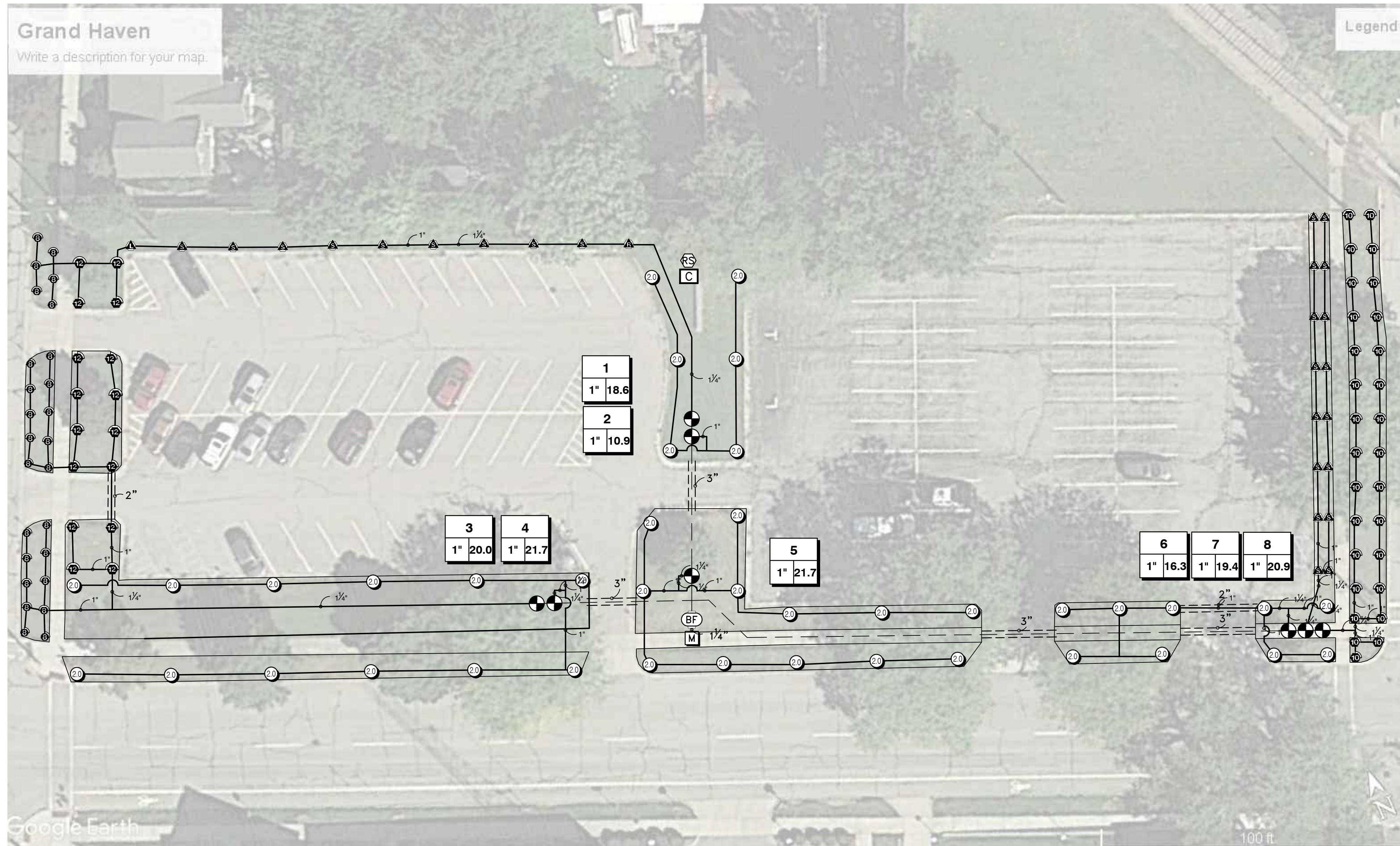
\_\_\_\_\_  
(Bidder's Telephone Number)

\_\_\_\_\_  
(Street/Mailing Address)

\_\_\_\_\_  
(City/State/Zip)

\_\_\_\_\_  
(Bidder's Signature)

\_\_\_\_\_  
(Print Bidder's Name)

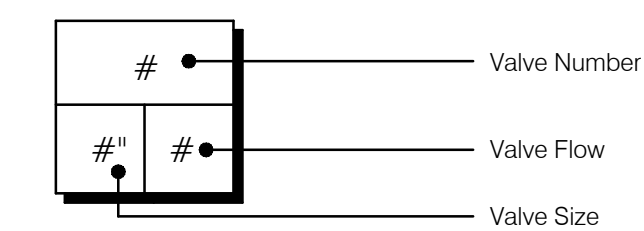


### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
ES LCS RCS CS SS	Hunter PROS-04 5' strip spray	27
Q T H F	Hunter PROS-04 8' radius	26
Q T H F	Hunter PROS-04 10' radius	29
Q T H TT TQ F	Hunter PROS-04 12' radius	16

SYMBOL	MANUFACTURER/MODEL	QTY
20	Hunter PGP-04	39

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
⊕	Hunter PGV-100G 1" 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Globe Configuration, No Flow Control.	8
BF	Febco 825Y 1" Reduced Pressure Backflow Preventer	1
C	Hunter PC-400 with (02) PCM-300 Light Commercial & Residential Controller, 10-station expanded module controller, 120 VAC, Outdoor model	1
RS	Hunter WR-CLIK Rain Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted.	1
M	Water Meter 1"	1
—————	Irrigation Lateral Line: Polyethylene Pipe SDR-7 1"	1,798 l.f.
—————	Irrigation Lateral Line: Polyethylene Pipe SDR-7 1 1/4"	315.5 l.f.
—————	Irrigation Mainline: PVC Class 160 SDR 26 1 1/4"	299.1 l.f.
-----	Pipe Sleeve: PVC Class 160 SDR 26 2"	36.3 l.f.
-----	Pipe Sleeve: PVC Class 160 SDR 26 3"	73.0 l.f.



**GENERAL NOTES**

IRRIGATION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. ANY PRODUCT SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.

IRRIGATION PRODUCTS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL AND PLUMBING CODES.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF POC. CONTRACTOR IS ALSO TO VERIFY GPM AND PSI AVAILABLE MATCHES THE DATA ON THE IRRIGATION DESIGN.

DUE TO THE SCALE, ACCURACY, OR CONDITION OF THE SITE PLAN, CONTRACTOR WILL MODIFY SPRINKLER PATTERNS TO GUARANTEE 100% COVERAGE OF INDICATED AREAS IN CASES WHERE SITE DIMENSIONS CONFLICT WITH DRAWING.

IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED ON THE DESIGN.

IRRIGATION SYSTEM BASED ON 22 GPM @ 60 PSI.

No.	Revision/Issue	Date

**CENTRAL**  
TURF & IRRIGATION SUPPLY

**DESIGN SERVICES**  
PHONE: (914) 347-5656  
E-MAIL: TPEYROLO@CENTRALTIS.COM

**CENTRAL**  
TURF & IRRIGATION SUPPLY

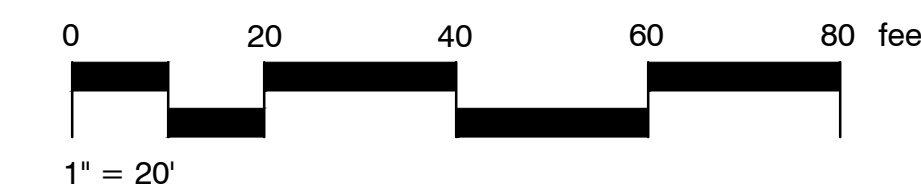
**MICHIGAN**

42730 MERRILL RD.  
STERLING HEIGHTS, MI 48314  
STORE: (586) 731-5780  
FAX: (586) 731-5780  
EMAIL: STERLINGHEIGHTS@CENTRALTIS.COM

1985 ROCK RD.  
COMMERCE, MI 48390  
STORE: (248) 669-9323  
FAX: (248) 669-6981  
EMAIL: COMMERCE@CENTRALTIS.COM

2645 28TH STREET SUITE F  
WYOMING, MI 49519  
STORE: (616) 261-2700  
FAX: (616) 261-1882  
EMAIL: WYOMING@CENTRALTIS.COM

Company Name and Address	
Project Name and Address	
Grand Haven, MI.	
Project	Sheet
Date	3/6/2019
Drawn by:	Checked by:
TP	TP
Scale	1" = 20'-0"



THIS DESIGN DRAWING IS THE PROPERTY OF CENTRAL IRRIGATION SUPPLY INC. ANY UNAUTHORIZED USE, ALTERATION OR DUPLICATION THEREOF IS PROHIBITED.

**IR-01**