

**REQUEST FOR PROPOSAL  
FOR A  
TAX-EXEMPT LEASE PURCHASE  
FOR AN ENERGY PERFORMANCE CONTRACT PROJECT  
FOR THE CITY OF MUSKEGON, MICHIGAN**



**Proposals Due:  
June 17, 2026 @ 12:00 PM Eastern Daylight Time**

# REQUEST FOR PROPOSAL

## Tax-Exempt Lease Purchase for a Performance Contract Project

### Introduction

This is a request for proposal (“RFP”) administered by Johnson Controls, Inc. (“JCI”) on behalf of the City of Muskegon, Michigan (the “Customer”).

The purpose of this RFP is to solicit financing offers from qualified financial institutions (each a “Respondent”). It is contemplated that the selected Respondent, as lessor, will enter into a tax-exempt lease purchase (“TELP”) with the Customer, as lessee, to finance the Customer’s \$43,296,839 comprehensive energy performance contract with JCI.

### Project Background

The project involves the renovation, revitalization and reprogramming of the central Department of Public Works facility, City Hall, and the replacement and automation of over 10,000 water meters. The renovation of the central Department of Public Works building will enable a more streamlined and productive delivery of services and an improved work environment. The facility, constructed in 1971, will be outfitted with modern security, HVAC, lighting, and networking capabilities while also being brought up to current building codes. It is anticipated that this high-performance facility will qualify for Energy Star certification.

For city utilities specifically, the program will provide a state-of-the-art advanced metering infrastructure (AMI) system which will allow the water/sewer utilities to streamline operations as well as bill and collect for actual usage and eliminate revenues lost by outdated, inaccurate, manual or drive-by read meters. It will also help the city to detect and repair leaks in the distribution system which will reduce the amount of water loss in the system and the costs associated with that water loss.

The JCI project will improve our community’s environmental impact by reducing carbon emissions associated with inefficient HVAC, lighting and controls. The program will reduce greenhouse gas emissions by 3,900mTons of CO<sub>2</sub>e annually, which is equivalent to removing 900 gasoline-powered vehicles from our roadways. Furthermore, the need to “roll trucks” for meter reading, check readings, move-in/move-out final readings, and troubleshooting will be nearly eliminated.

The attached **Schedule 1 – Scope of Work** (SOW) provides a detailed description of the SOW being performed. The total cost of the project is \$42,446,839 with a customer contingency of \$850,000, for a total financed cost of \$43,296,839.

### Lease Information

1. The TELP involves a transaction between the selected Respondent, as lessor, and the Customer, as lessee. JCI is not a party to the TELP.

2. The Customer is looking for proposals for 20-year performance period in addition to 18 months construction term as exemplified in the **Attachment A – Sample Amortization**, or longest term possible up to 20 years.
3. The TELP will be subject to the annual appropriations of funds and Lessor will be allowed a secure interest in the equipment as recognized by a UCC-1 filing.
4. The Customer recognizes the savings guaranteed by JCI are not sufficient to service the TELP payment and are prepared to provide sufficient capital injections each year to meet the TELP payment. Please see **Attachment B – Project Savings Cash Flows** for the savings guarantees each year.
5. The Customer is expecting to notify the successful respondent of award the week of June 22, 2026, with document reviews to follow. The financing resolution will be scheduled for the July 14, 2026, Board of Commissioners meeting with an anticipated financial close on or before July 17, 2026.
6. Respondents are allowed to use an escrow and paying agent if so desired.
7. Once installation commences, JCI will invoice the Customer on a monthly for the amount owed for the project. The Customer will direct the lessor to pay JCI from the TELP proceeds, which may be held in escrow. If such proceeds are not sufficient, due to a change order for scope expansion or other reason, the Customer is responsible for funding the additional cost. The Customer may ask the lessor to expand the credit capacity to finance the additional cost, but the lessor is not obligated to do so.
8. Subject to change due to state and local laws, to secure the transaction, the lessor will receive a first priority security interest in the FIMs and any money related to the project held in escrow. The security interest will be evidenced by a UCC-1 financing statement.
9. JCI will provide a payment and performance bond for the project and will list the lessor as a dual obligee.
10. The Customer, as lessee, is responsible for all maintenance and insurance. The Customer bears all risk of loss. Lessor shall be named as an additional insured and loss payee on the lessee's insurance policy, which is subject to lessor's approval.
11. Respondents shall clearly describe any prepayment rights, timing and expenses. Respondents shall clarify if the prepayment right is in whole or in part.
12. Respondents shall describe any closing costs and if they are capitalized in the TELP.
13. Title to the FIMs shall transfer to the Customer upon installation.
14. The lessor shall have the right to assign the TELP if it first obtains permission from the Customer, which permission shall not be unreasonably withheld.

RFP for Financing  
Scott Kuhn  
Johnson Controls, Inc.  
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15. Respondents shall offer a fixed interest rate for the term of the TELP. Respondents shall state the expiration date (i.e. the end of the lock period) for the offered rate and an index for how the fixed rate would be calculated at closing after the initial expiration date.
16. Respondents should assume that this transaction will be Non-Bank Qualified.
17. Respondents shall attach a table of cash flows in their responses that includes amounts financed, amortization of principal, interest due, payment amounts, payment dates and early termination values.

### **Response Deadline**

Please submit your response to this RFP no later than **12:00 PM EDT on June 17, 2026**. All responses should be emailed in “soft copy” form to Johnson Controls Structured Finance at the following addresses: [Joseph.scott.kuhn@jci.com](mailto:Joseph.scott.kuhn@jci.com).

### **Selection**

All responses will be provided to the Customer for their evaluation. The Customer is responsible for selection of the Respondent as well as the ultimate structure of the financing. Johnson Controls Structured Finance is not providing “advice” on selection.

### **Questions**

For questions related to the RFP, related documents, project details or other pertinent issues, please contact JCI Structured Finance at the aforementioned contact information.

### **Disclaimer**

Johnson Controls is not a registered Municipal Advisor with the U.S. Securities and Exchange Commission, and is not acting as a municipal or financial advisor to the Customer. The information provided in this document is not intended to be and should not be construed as “advice” within the meaning of Section 15B of the Securities Exchange Act of 1934 and the municipal advisor rules of the SEC. Johnson Controls is not acting as a broker, dealer, underwriter or placement agent with respect to the potential transactions discussed herein. This RFP pertains to a TELP and not the issuance of securities. JCI is issuing this RFP and collecting responses as a matter of convenience for the Customer. All responses will be provided to the Customer for their evaluation.

## SCOPE OF WORK:

### Scope of work Summary:

1. DPW Building Facility Improvement Measures (the “DPW FIMs”):
  1. Public Works Building (1350 E. Keating Ave., Muskegon, MI) – Building Improvements
2. All Non-DPW FIMs:
  1. City Hall – Chiller, Pump (chilled water (CHW) & hot water (HHW)), Controls
  2. City Hall – Building Envelope
  3. City Hall – Window Replacement
  4. City Hall – Domestic Water Fixtures
  5. Water Filtration Plant – Boilers, pumps, controls
  6. Water Filtration Plant – Variable Refrigerant Flow (VRF) system, Window Film, Controls
  7. Water Meter Replacement and Related Improvements
  8. Leak Detection
  9. Sewer Manhole Rehab - Infiltration
  10. Cemetery – Irrigation Controller updates
  11. Marina – Lighting updates
  12. Marina – Domestic water heater replacement
  13. Parks – Irrigation Controller updates

**DPW FIMs:****Public Works Building (1350 E. Keating Ave., Muskegon, MI) – Building Improvements:**

Current scope of work as briefly described below and further identified in the 25% DD drawings set attached as file “JCI-Muskegon DPW-25% DD Set-Supporting Budget.pdf” dated 2-28-2026 is the basis for the scope of work and pricing. JCI and our design partners will continue to work with the City to finalize the drawings for final construction. The DPW FIMs scope described herein is preliminary and subject to the NTP2-DPW FIMs Implementation process specified in Paragraph 1 of the Agreement.

**Building General:**

- Office block
  - Ribbon fascia panel, soffits, and coping
  - New storefront
  - New Insulated Metal Panel (IMP) and coping
- Warehouse/Garage new IMP and coping
  - New overhead doors - (20) 16' to 20' - sectional
  - New led warehouse high-bay lighting
  - Roof Replacement (TPO and R-30 continuous insulation)
- Community space
  - Renovate existing vestibule
  - New storefront
  - New clerestory windows
  - New fascia, soffit, and coping
- Site work
  - (2) gas pumps relocated
  - New fencing and gate – 200 linear feet (lf)
  - New landscape island
  - Reconfigure existing island
    - landscape island (final landscape by city staff, per city request)

**Building Systems**

- New generator - natural gas and auto transfer switch
- New HVAC system
- Tube heaters in garage
- Compressed air system
- Updated electrical service as indicated on electrical drawings and limited to areas of construction
- Security and telecom systems
- Upgrade natural gas service
- New sand/oil separator
- New drains / sewer lines in floors

**Water and Sewer Department:**

- ~4,000 SQFT TOTAL
  - Racking for relocation of material from wares/stores and current storage (reuse of as much racking as possible, where possible)

- (20) new gear lockers, Basis of Design: 24" X 24" X 90" with boot drawer and integral bench seat
- Laundry: (1) Washer (1) Dryer (appliances by City)
- Gear Cleaning mop sink/mud space
- Workshop: Existing Compressed air, grinding station, drill press, workbench, sandblast hood (equipment by City)
- New overhead door at existing location
- Relocate Water Meter Tester.
- ~600 – 700 SQFT Dispatch, Breakroom, and Offices
  - (2) Supervisors' offices with entry from hallway and crew room
  - (4) Hoteling Workstations
  - GIS Monitor with adjacency to hoteling "mis-dig" workstations
  - Full Kitchenette (appliances by City)
  - Small map space. Vertical or flat file.

### Highway and Traffic Department:

- ~3,000 SQFT TOTAL
  - Current Space + Existing Sign Shop Space
  - (23) new lockers. Basis of design 24" X 24" X 90" gear locker single tier locker, boot and bench
  - Mud space/mop sink station
  - Laundry, washer + dryer. (appliances by City)
  - Monitor space for GIS and/or Cartegraph management system (equipment by city)
  - New Racking (reuse of as much racking as possible, where possible)
  - New bench space
- ~600 – 700 SQFT Dispatch, Breakroom, and Offices
  - (2) Supervisor office with entry from hallway and breakroom/crew room
  - (2) Hoteling Workstations
  - Monitor space for GIS and/or Cartegraph System (equipment by city)
  - Full Kitchenette (appliances by City)
  - Breakroom space to provide flexibility for training workshops (20-25 Max staff with seasonal) (Monitor + presentation equipment by city)

### Sign Shop Department:

- ~775 SQFT Relocated Sign Shop (More office/clean space)
  - (2) Permanent Workstations open to shop
  - ~20' x 10' space allocated for printer/roller/worktable signage workspace. Linear flow from machine to machine (City provided equipment or reuse of existing)
  - Whiteboard, or work monitor (monitor provided by city)
  - Workbench space in Highway/Traffic
  - Semi-heated space for vehicle decal work in Highway/Traffic
  - Update sign blanks and horizontal storage

### Salt Shed

- ~8,000 SQFT Pre-engineered Metal Building
  - Lean-to's each side
  - New portable ramp, Dockzilla, Basis of Design
  - Pull-thru layout for salt loading under roof
  - 100' x 80' with lean-to and Overhead Doors
- Provide new CMU/concrete retaining wall, epoxy coated, for cold-patch asphalt. Requires semi-heating, located in Garage.

### Mechanics Department:

- ~11,000sqft TOTAL
  - Breakroom/ Office recently updated no major changes
    - New Large monitor for Cartegraph and training (equipment provided by City)
    - Storage for Manuals
- Shop Updates
  - Relocate Vehicle exhaust main for fire truck access
  - Updated/cleaned concrete floor
  - New Lift
  - Power for mobile workstations
  - Consolidate tire storage
  - Relocate space for tire changing equipment
  - New High Volume Low Speed (HVLS) fan
  - New trench drains
  - Update overhead doors and operators
  - New enclosed welding area with man-door access
  - Parts stock storage updates

### Police Shop Department:

- ~3,050 SQFT TOTAL
  - Relocated police space adjacent to mechanics
  - Additional Space for (6) vehicles total
  - Relocate existing lifts
  - Add quick hitter lift near overhead door
  - Relocate fluids storage
  - Relocate tire storage
  - Shares mechanic breakroom
  - New overhead door location and new overhead door in existing

### Parks and Rec Department:

- ~6,600 SQFT TOTAL
  - Relocate small engines lift for additional tractor space
  - ~500 SQFT dedicated paint area with spray paint area and ventilation
  - ~500 SQFT wood shop area
  - Large Material Storage for wood shop
  - Storage for Janitorial Supplies
  - Racking storage for seasonal (Xmas) (reuse of as much racking as possible, where possible)
  - Racking for Rec Storage (reuse of as much racking as possible, where possible)
  - Secure Storage Area
  - Locked Key Storage
  - (30) New Lockers. Basis of Design: 18" X 21" X 90" standard single tier
  - Storage for Hand tool, weed whip, and etc.
- ~1,000 Dispatch, Breakroom, and Offices
  - (4) Hoteling workstations
  - (2) Parks Supervisor Office with office and corridor access
  - Arborist Workstation (larger for laydown)
  - Kitchenette (appliances by city)
  - Break space flexible/expandable (for seasonal growth (30) staff)
  - Monitor and Display space (equipment by city)

Forestry Department:

- ~300 SQFT TOTAL
  - New enclosed space for minor maintenance of equipment; chain sharpening, etc.

Engineering Department: (incorporated into Administration space)

- (4) workstations
- (1) hoteling workstation for summer intern
- (1) Supervisor
- Lockable storage for equipment in garage
- Stand up collaborative touchdown space

Admin Department:

- ~6,800 SQFT TOTAL
  - New entry and lobby with (2) station transaction window
    - Counter height storage for mattress bags
    - Space for 5-10 public to wait
  - (5) Engineering workstations
  - (1) Engineering Supervisor Office
  - (8) Private offices
  - (14) workstation open office
    - (10) permanent staff
    - (4) general hoteling
  - (1) Touchdown/Kitchenette space with coffee bar, snack station, sink, fridge. Focal Point of office (appliances by City)
  - Wellness/Mother's Room
  - Small mail, print, and office supply space (equipment by city)
  - (2) Enclave meeting space
  - (1) Medium meeting
  - (1) Large Meeting
  - (1) Breakroom shared with Community Space
- Standup table space
- Updated and expanded toilet rooms
- New staff entry and corridor with timeclocks and display boards
- Sound reflection mitigation via attenuation baffles, higher ceilings, and white noise
- Dedicated file storage (equipment by City)
- Permanent file storage located off corridor (equipment by City)

Community Space:

- ~6,000 SQFT TOTAL
  - Renovate existing canopy and vestibule
  - Add additional storefront for natural light
- ~1,000 SQFT
  - Toilet rooms
  - Breakroom, office use only
  - Kitchen, office use can flex to public use (appliances by City)
- ~5,000 SQFT - Multi-function space
  - Large storage for mobile equipment, chairs and tables, sports gear, portable partitions, etc. (all equipment, furniture, etc. by City)

- New entry area with front desk and cubby storage area.
- Durable and versatile flooring, rubber sports floor, basis of design.
- Direct and indirect lighting for various activity types.
- Audio and Visual systems for lectures/presentations. Projectors, monitors, PA's.  
(equipment by City)

General notes on DPW renovation:

- City will carry separate budget for all work related to any asbestos / lead abatement, contaminated soils clean-up/remediation, landscaping, furniture, appliances, equipment, workstations, monitors, technology equipment, loose furnishings, play / sports, program related equipment.
- This plan assumes the reuse of Voice over IP (VOIP) phones, IT closet racking technology equipment with any associated servers, switches, customer provided computers, etc.

## City Hall

### Mechanical:

#### Chiller & Pump Replacement:

Provide and install one (1) new 120 ton YLAA0120SJ46XFB Chiller per drawings PM 501 - 504

#### Scope

- Remove existing Trane chiller and dispose of per EPA guidelines in effect at the time of contract signing.
- Provide all hoisting, rigging, piping, insulation, needed for the chiller install.
- Provide and install (2) new chilled water system base mounted pumps.
- Install (2) new chilled water pumps Variable Frequency Drives (VFD).
- Provide and install (1) new glycol make up station.
- Provide electrical power needed for the new chiller & pumps per drawing EP101.
- Provide complete start up and check out of new equipment.
- Reuse existing expansion tank and air separator.
- Flushing of existing chilled water system.
- Cut & Cap chilled water lines going to the currently abandoned police Air Handling Unit.
- Water balance of chilled water system to set VFD speed.
- Chiller Warranty:
  - Compressor Parts and Labor Warranty: 78 Month (2-6 Year) from date of Shipment.
  - Entire Unit Parts & Labor Only Warranty: 66 Month (2-5 Year) (Months are from date of shipment/Years are from date of start up, whichever expires first).

#### Chiller Enclosure upgrade:

- Remove and dispose of existing lumber for the chiller enclosure wall and gate.
- Provide labor and material to fabricate and install a louvered metal wall section around a chiller only in areas that have existing wood.
- Provide labor and material to fabricate and install a louvered gate replacing existing wood gate.
- The new louvered wall panel & gate will be powder coated using a standard color.

#### Rebalance Heating Hot Water System:

Provide and install three (3) new 2-way valves in the hot water system per drawing PM101.

#### Scope

- Provide and install three (3) new 2-way bypass valves in the hot water system.
- Provide and install a new differential pressure (DP) sensor for the hot water system. Location determined by Johnson Controls prior to installation.
- Provide water balancing for the new 2-way valves as required.

## Controls:

### **Metasys Supervisory Server:**

- Furnish and install Metasys ADS software (5 User) license and UI graphics on Customer provided Virtual Server Machine that meets JCI minimum server requirements.
- Provide and install Graphical user interface for each HVAC system and associated floor plans/area served.
- Integrate NEW and EXISTING digital controls into new server via Customer's (LAN/WAN) network. Network connectivity from Water Filtration Plant, City Hall and DPW building shall be provided and supported by Customer's IT department.

### **Metasys Network Architecture:**

- Provide and install a new Supervisory Controller and 550 VA UPS panel.
- Provide and install new CAT6 ethernet cable from supervisory controller to Customer's network switch port provided by Customer.
- Provide and install BACnet MSTP wiring to integrate new DDC controls, new pump VFDs and new chiller.

### **Chiller Replacement:**

- Provide and install new Metasys DDC controller panel in mechanical room.
- Provide and install BACnet integration cable to new air-cooled chiller.
- Provide chiller enable/disable, setpoint adjustment, status and alarm hardwire to chiller unit controls.
- Provide and install new chilled water supply temperature sensor and well.
- Provide and install new chilled water return temperature sensor and well.
- Provide CHWP VFD start/stop, status, setpoint and BACnet integration.
- Provide two (15HP) VFDS. VFDs fixed speed shall be established and set during balancing.

### **Hot Water Bypass Control:**

- Provide and install new Metasys DDC controller panel in boiler mechanical room.
- Provide and wire three (3) new Bypass Control Valves as shown on PM101.
- Provide and wire one (1) new differential pressure sensor.
- Engineer to finalize sequence of operation as part of final construction drawings.
- Existing Boilers plant JCI FX controls shall be integrated to the new Metasys ADS server.

### **Air Handling Unit – Electric Valve Actuator Retrofit:**

- Existing JCI FX controller panel shall remain.
- Provide and install (2) new Electric Actuator Retrofit Kit to replace existing pneumatic actuator for each of (2) AHU chilled water coil control valves.
- Provide conduit and wiring from existing DDC control panel to AHU CW Valves electric actuator.
- Existing AHU JCI FX controls shall be integrated to the new BAS server. Existing pneumatic transducers within control panels shall be removed.

Building Envelope:

Door Sealing:

TYPE OF MEASURE:	Building Level	Quantity
Overhead Door to be sealed on 3 sides.	Basement	1 OH Door
Int. Door(s) to be weather-stripped & sealed.	Basement	4 Doors
Ext. Door(s) to be weather-stripped & sealed.	First	8 Doors

Door sealing materials consist of a heavy metal aluminum carrier, and strip of Q-lon which is a formed & angled sponge wrapped in vinyl. It's applied to the door frames, secured with screws, and caulked for added durability and air sealing through the carrier.

Window Replacement:

Turnkey replacement of 169 operable windows with energy efficient windows

- EFCO 2700 series windows.
- Thermally broken aluminum framing.
- Dark bronze anodized finish.
- Clear SN68 low-E insulated glass.
- 115 windows with 15-1/2" tall hopper style operable at bottom of window with fixed Upper.
- 54 windows with fixed upper and lower lite.
- Shop drawings included.
- 1 year labor and 10 year material warranty.
- Final Cleaning.
- Interior & Exterior perimeter caulking.
- Existing window coverings will be removed and reinstalled as required.

Domestic Water Retrofits:

- Dispose of removed equipment and waste materials.
- Clean-up at the end of each shift with vacuuming, dusting and trash removal.
- Furnish and install new or upgraded water components as listed in chart below.
- Clean up of job-related debris daily. Clean up and store tools and equipment daily and remove after installation and operational checkout.

Room Type	Type	Quantity	Retrofit	Retrofit Description
Restroom	FAUCET	20	Faucet - replace aerator	0.5 GPM Faucet Aerator
Restroom	URINAL	7	Urinal - retrofit valve kit	0.5 GPF Diaphragm Urinal Valve Kit
Restroom	WATER CLOSET	17	Toilet - retrofit valve kit	1.6 GPF Diaphragm Toilet Valve Kit
Restroom	WATER CLOSET	1	Toilet - full fixture replace (tank)	1.0 GPF Floor Mount Tank Type Toilet with Pressure Assist Tank and Bowl STD w/ Seat minus cover

**Water Filtration Plant:**

Mechanical:

**Boiler Replacement:**

Provide and install two (2) new Lochinvar FBN3001 hot water boilers.PM001-PM503.

Scope

- Demolish one (1) existing boiler, piping, and dispose of demolished materials.
- Demolish two (2) existing base mounted system pumps.
- Remove vent breeching and cap at connection as needed in the mechanical room.
- New exhaust flues will be direct vent through per manufacturer specifications.
- Install two (2) new Lochinvar Crest FBN3001 boilers in same area where the existing boiler was removed.
- Provide and install hot water piping as required for a complete operating system.
- Provide and install two (2) new inline boiler pumps.
- Provide and install two (2) new base mounted system pumps.
- Provide and install gas piping to new boilers.
- Provide and install new venting per manufactures specifications.
- Provide and install new boiler combustion air intake location determined during final engineering.
- Furnish and install new drain piping with neutralizer from each boiler to existing floor drain.
- Provide and install pipe insulation on new hot water piping.
- Furnish and install weld lets and wells as required for the temperature controls.
- Provide and install a new floor mounted NLAP-815 expansion tank, FMX1-1-304 inline side stream filter, and 6RSN-6F air separator.
- Provide and install electrical wiring to new boilers including the demolition of the existing.
- Heating system water balance to set VFD fixed speed.
- Boiler room emergency stops as required.

**Air Conditioning Updates:**

Provide and install a new Samsung VRF system per PM-504.

Scope

- Demolish (3) existing Fan Coil units, associated condensing units, refrigerant piping, associated equipment, and dispose of demoed materials.
- Dispose of refrigerant per EPA guidelines in effect at the time of contract signing.
- Install (1) new Samsung Outdoor unit on the roof, (3) new Fan Coil Units (FCU) in the penthouse, and (1) new ceiling hung unit in the IT closet.
- Provide and install new refrigerant piping as required for a complete operating system.
- Provide and install (3) hot water coils with valve tied into the existing HW piping for each of the new FCUs.
- Provide and install new ductwork to connect the new FCUs to the existing ductwork.

- Furnish and install new PVC drain piping from each FCUs to existing floor drain.
- Provide and install pipe insulation on all new piping as required.
- Provide and install electrical wiring to new Samsung VRF system including the demolition of the existing.
- Sealing wall/roof penetrations of old condensing units.
- Provide & install new standalone thermostats for new system control
- Startup and testing of system

### Lab window film installation:

#### Scope

- Window glass being treated will be cleaned and washed as a normal part of the installation.
- Window Gaskets will remain in place as a normal part of the installation process.
- Normal measures will be included to protect any items exposed that can't be removed from the immediate area during the installation process.
- Provide & install Panorama Slate 10 (or similar) window film to the interior of (6) casement windows in Lab areas.

#### Exclusions:

- Any window coverings such as blinds, shutters, drapes must be removed or protected by the customer. Any item that is required to be removed by JCI will incur an additional charge.
- Any furniture that obstructs the installation area or access to the window within 3 feet of the glass must be removed by the customer. Furniture that is moved by JCI will incur an additional charge.
- Broken windows and doors will be brought to the attention of the customer for repair prior to the installation of the window film.
- Code issues, including, but not limited to, ADA are excluded from this project.

#### Controls:

##### Metasys Network Architecture:

- Provide and install a new Supervisory Controller and 550 VA UPS panel.
- Provide and install new CAT6 ethernet cable from supervisory controller to Customer's network switch port provided by Customer.
- Provide and install BACnet MSTP wiring to integrate new DDC controls, pump VFDs and boilers.
- Integrate NEW digital controls into new server via Customer's citywide network (WAN).

##### Boiler Plant Upgrade:

- Provide and install new Metasys DDC controller panel in mechanical room.
- Provide and install BACnet integration of boilers and VFDs
- Provide two (2) new boiler enable/disable, status, alarm and one (1) setpoint to the new boilers.

## Schedule 1

- Provide one (1) existing boiler enable/disable, alarm and setpoint.
- Provide and install one (1) boiler hot water supply temp and well for the existing boiler.
- Provide and install outside air temperature located on north wall.
- Supply and install two temperature sensors to measure common system header supply/return temperatures. A separate HW supply temp sensor installed for one existing boiler. New boilers temperatures will be monitored via integration.
- Provide and install differential pressure sensor across boiler side stream water filter.
- Provide and install hot water differential pressure sensor.
- Provide and install two (2) HW Pump VFD start/stop, status, setpoint for each pump.
- Provide two (2) 20HP VFDs.
- Retrofit combustion air intake damper actuator wiring to reduce air intake per PM501 note 2.
- (2) New Inline Boiler Pumps shall be interlocked to run with respective boilers.
- New DDC controller Boiler HW temperature setpoint signal shall be inversely reset by DDC controller based on outside air temperature.
- One existing boiler to remain as backup only.

Water Distribution:

Water Meter Replacement:

### Water Utility Meter Improvements:

This measure will include the following:

- Replacement of select active small and intermediate water meters as defined below.
- Replacement of select active large water meters as defined below.
- Retrofit of select active large water meters as defined below.
- Installation of meters per manufacturer recommendation and AWWA M5, 5th edition or AWWA C7XX standards and guidelines.

Warranties:

One (1) year warranty on materials (excluding water meters and endpoints) and one (1) year workmanship beginning at the date of signoff for each route. Water meter and endpoint warranties commence upon date of shipment from the original equipment manufacturer. See Appendix 2 for a copy of manufacturers' warranties and extended warranties. This information will also be provided in the O&M manuals.

After the year-one material and labor warranty have expired, in subsequent years should there be a need to replace any defective meters still covered by the meter manufacturer's warranty, any labor associated with said warranty meter replacement shall be borne by the Customer and will not be the responsibility of JCI.

## A. Small and Intermediate Water Meter Replacement and AMI System Installation

1. JCI shall remove seven thousand, three hundred and eleven (7,311) existing **5/8"x1/2"** water meters from service and shall install new **3/4"** Master Meter Sonata ultrasonic water meters with electronic registers that read in Cubic Feet. The new **3/4"** meters shall have a 7.5" lay length (LL).
  - a. Approximately six thousand, five hundred and eighty (6,580) of the existing **5/8"** meters are located in basement/indoor sets. For these services, JCI shall:
    1. Remove the existing **5/8" × 1/2"** water meter.
    2. Remove the existing **1/2" × 1/2"** meter couplings.
    3. Install two (2) new **1/2" × 3/4"** meter couplings.
      - i. A.Y. McDonald No. 5124-093 or approved equivalent.
    4. Install the new **3/4"** Master Meter Sonata with 7.5"LL and integrated Allegro AMI system endpoint
    5. Magnet swipe register logo until register face shows "8" magnet sensing
    6. JCI shall provide and install grounding clamps and a grounding wire at each service. One end of the wire shall be connected to metal pipe upstream of the new meter and the other end of the wire shall be connected to metal pipe downstream of the new meter.

**\*The existing meter set is assumed to contain 1/2"x 1/2" threaded meter couplings so no plumbing modifications are anticipated beyond the installation of the new 1/2"x 3/4" meter couplings.**

- b. Approximately seven hundred and thirty-one (731) of the existing **5/8"** meters are located in outdoor pits which are equipped with a yoke bar and expander. For these services, JCI shall:
  1. Remove the existing **5/8" × 1/2"** water meter and yoke expander.
  2. Install a new **3/4"** yoke expander
    - i. A.Y. McDonald No. 5139-035 or approved equivalent.
  3. Install the new **3/4"** Master Meter Sonata with 7.5"LL and integrated Allegro AMI system endpoint.

4. Magnet swipe register logo until register face shows “8” magnet sensing

**\*The existing yoke bar shall remain in place and is assumed to be compatible with the new meter assembly.**

2. JCI shall remove one thousand, nine hundred and ninety-eight (1,998) existing 3/4” water meters from service and shall install new 3/4” Master Meter Sonata water meters with electronic registers that read in Cubic Feet. The new 3/4” meters shall have a 7.5” lay length.

- a. Approximately one thousand, seven hundred and ninety-eight (1,798) of the existing 3/4” meters are located in basement/indoor sets. For these services, JCI shall:
  - a. Remove the existing 3/4” water meter
  - b. Install a 1.5” coupling to fill the gap between the existing 9”LL meter and the new 7.5”LL meter
    - i. Ford Meter Box A23-NL or equivalent
  - c. Install the new 3/4” Master Meter Sonata with 7.5”LL and integrated Allegro AMI system endpoint
  - d. Magnet swipe register logo until register face shows “8” magnet sensing
  - e. JCI shall provide and install grounding clamps and a grounding wire at each service. One end of the wire shall be connected to metal pipe upstream of the new meter and the other end of the wire shall be connected to metal pipe downstream of the new meter.
- b. Approximately two hundred (200) of the existing 3/4” meters are located in outdoor pits which are equipped with a yoke bar and expander. For these services, JCI shall
  - a. Remove the existing 3/4” meter
  - b. Install a new 3/4” yoke expander
    - i. A.Y. McDonald No. 5139-035 or approved equivalent
  - c. Install the new 3/4” Master Meter Sonata with 7.5”LL and integrated Allegro AMI system endpoint
  - d. Magnet swipe register logo until register face shows “8” magnet sensing

**\*The existing yoke bar shall remain in place and is assumed to be compatible with the new meter assembly.**

3. JCI shall remove two hundred and sixty-nine (269) existing 1” water meters from service and shall install new 1” Master Meter Sonata ultrasonic water meters with electronic registers that read in Cubic Feet.

- a. Approximately two hundred and forty-two (242) of the existing 1” meters are located in basement/indoor sets. For these services, JCI shall:
  - a. Remove the existing 1” water meter
  - b. Install the new 1” Master Meter Sonata water meter with 10.75”LL and integrated Allegro AMI system endpoint.
  - c. Magnet swipe register logo until register face shows “8” magnet sensing
  - d. JCI shall provide and install grounding clamps and a grounding wire at each service. One end of the wire shall be connected to metal pipe upstream of the new meter and the other end of the wire shall be connected to metal pipe downstream of the new meter.
- b. Approximately twenty-seven (27) of the existing 1” meters are located in outdoor pits which are equipped with a yoke bar and expander. For these services, JCI shall
  - a. Remove the existing 1” meter
  - b. Install the new 1” Master Meter Sonata meter with 10.75”LL and integrated Allegro AMI system endpoint
  - c. Magnet swipe register logo until register face shows “8” magnet sensing

**\*The existing yoke bar shall remain in place and is assumed to be compatible with the new meter assembly.**

4. JCI shall remove one hundred and forty-two (142) existing 1.5" water meters from service and shall install new 1.5" Master Meter Octave ultrasonic water meters with electronic registers that read in Cubic Feet.
  - a. Approximately one hundred and twenty-eight (128) of the existing 1.5" meters are located in basement/indoor sets. For these services, JCI shall:
    - a. Remove the existing 1.5" water meter
    - b. Install the new 1.5" Master Meter Octave water meter
    - c. Install a Master Meter Allegro AMI system endpoint on the outside wall of the residence or building.
    - d. Connect the new Allegro AMI system endpoint to the new Octave meter using the included Nicor connector.
  - b. Approximately fourteen (14) of the existing 1.5" meters are located in outdoor pits. For these services, JCI shall
    - a. Remove the existing 1.5" meter
    - b. Install the new 1.5" meter with 13"LL
    - c. Install a new Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not or if there is no existing hole in the pit lid, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

All meters are expected to have flanged connections. However, in the event that meters with screw connections are encountered, JCI shall convert the existing meter set to accept a meter with a flanged connection. The additional cost shall be handled via the Customer contingency.

5. JCI shall remove one hundred and eighty-eight (188) existing 2" water meters from service and shall install new 2" Master Meter Octave ultrasonic water meters with electronic registers that read in Cubic Feet.
  - a. Approximately one hundred and sixty-nine (169) of the existing 2" meters are located in basement/indoor sets. For these services, JCI shall:
    - a. Remove the existing 2" water meter
    - b. Install the new 2" Master Meter Octave water meter
    - c. Install a Master Meter Allegro AMI system endpoint on the outside wall of the residence or building.
    - d. Connect the new Allegro AMI system endpoint to the new Octave meter using the included Nicor connector.
  - b. Approximately nineteen (19) of the existing 2" meters are located in outdoor pits. For these services, JCI shall
    - a. Remove the existing 2" meter
    - b. Install the new 2" meter
    - c. Install a new Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not or if there is no existing hole in the pit lid, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

All meters are expected to have flanged connections. However, in the event that meters with screw connections are encountered, JCI shall convert the existing meter set to accept a meter with a flanged connection. The additional cost shall be handled via the customer contingency.

Approximately 75% of the existing 2" meters are expected to have a 17"LL per a meeting with Customer on January 21, 2026. For the remaining 25% of 2" meters which are expected to have a 10"LL, JCI shall provide and install a spool piece with a 7"LL as necessary to fill any gaps created from installing a new Master Meter Octave meter with a 10"LL at a location where the existing meter has a 17"LL.

**B. Retrofit of Existing Small and Intermediate Water meters and AMI system Installation**

There are no existing meters that will be retrofit as part of this project.

**C. Large Water Meter Replacement, Improvements, and AMI System Installation**

- 1) Account Number: 198050001  
Customer Name: Denali Investors LLC  
Service Address: 1266 E. Sherman Blvd  
Existing Meter: 3" Sensus Omni T2  
SN: 78172299  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
  
- 2) Account Number: 198233503  
Customer Name: Quality Car Wash  
Service Address: 1931 E. Sherman Blvd  
Existing Meter: 3" Sensus Omni T23  
SN: 828909233  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing spool piece located downstream of the existing meter (7"LL) and shall install a spool piece with a 12"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall Connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
  
- 3) Account Number: 198640001  
Customer Name: West Michigan Renal Properties  
Service Address: 1250 Mercy Dr.  
Existing Meter: 3" Sensus Omni T2  
SN: 71542219  
Scope of Work: JCI shall remove the existing meter (19"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 7"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
  
- 4) Account Number: 199015101  
Customer Name: Board of Education – Muskegon Middle School  
Service Address: 480 Bennett St.

Existing Meter: 3" Sensus Omni T2  
SN: 91365671

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid and shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 5) Account Number: 199172501  
Customer Name: Oakview School  
Service Address: 1420 Madison St.  
Existing Meter: 3" Metron Spectrum 175  
SN: 15904279

Scope of Work: JCI shall remove the existing meter (11.75"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing Master Meter endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 6) Account Number: 199175001  
Customer Name: Lake Woods Nursing & Rehabilitation  
Service Address: 1684 Vulcan St.  
Existing Meter: 3" Sensus Omni T2  
SN: 83588822

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing spool piece located downstream of the existing meter (4.5"LL) and shall install a spool piece with a 9.5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 7) Account Number: 199221501  
Customer Name: ADAC Plastic  
Service Address: 2050 Port City Blvd.  
Existing Meter: 3" Sensus Omni T2

SN: 88218771s  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 8) Account Number: 199247502  
Customer Name: Holy Trinity Comm Center  
Service Address: 2140 Valley St  
Existing Meter: 3" Metron Spectrum 175  
SN: 11906671

Scope of Work: JCI shall remove the existing meter (11.75"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing Master Meter endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using

the included Nicor connectors.

- 9) Account Number: 199262504  
Customer Name: SRS Fiberglass Products LLC  
Service Address: 1041 E. Keating Ave.  
Existing Meter: 3" Sensus Omni T2  
SN: 82792297  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid and shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 10) Account Number: 199272502  
Customer Name: Hy-Lift Inc.  
Service Address: 1185 E. Keating Ave.  
Existing Meter: 3" Metron Spectrum 175  
SN: 15911409  
Scope of Work: JCI shall remove the existing meter (11.75"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing Master Meter endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 11) Account Number: 199286201  
Customer Name: Lorin Industries  
Service Address: 1960 Roberts St. E  
Existing Meter: 3" Sensus Omni T2  
SN: 88218772  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 12) Account Number: 199293400  
Customer Name: Beacon Recycling  
Service Address: 1241 Keating Ave. – Car Building  
Existing Meter: 3" Sensus Omni T2  
SN: 93760100  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Master Meter endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 13) Account Number: 199308001  
Customer Name: Honeywell International  
Service Address: 1953 Harvey St. A  
Existing Meter: 3" Sensus Omni T2

SN: 91365670

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

14) Account Number: 199308501

Customer Name: Honeywell International

Service Address: 1953 S. Harvey St.

Existing Meter: Unknown

SN:

Scope of Work: JCI was not able to access this meter as part of the large meter survey efforts during project development. This meter will not be included in the project scope of work.

15) Account Number: 199342601

Customer Name: City of Roosevelt Park

Service Address: 1663 W. Sherman Blvd. - Plumbs

Existing Meter: 3" Neptune TruFlo

SN: 70372210

Scope of Work: This meter is not owned by the Customer and will not be part of JCI's scope of work.

16) Account Number: 205312510

Customer Name: Allen Crossings LDHA LP

Service Address: 148 Allen Ave.

Existing Meter: 3" Sensus Omni T2

SN: 94337427

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Master Meter endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

17) Account Number: 212100300

Customer Name: Trilogy Health Services LLC

Service Address: 60 Viridian Dr.

Existing Meter: 3" Sensus Omni T2

SN: 93760102

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Master Meter endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

18) Account Number: 213061001

Customer Name: Berkshire Muskegon LDH Association LLC

Service Address: 275 W. Clay Ave

Existing Meter: 3" Sensus Omni T2

SN: 83425987

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave

## Schedule 1

ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 19) Account Number: 214072501  
Customer Name: First Congregational  
Service Address: 1201 Jefferson St.  
Existing Meter: 3" Metron Spectrum 175  
SN: 15911392  
Scope of Work: JCI shall remove the existing meter (11.75"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing Master Meter endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 20) Account Number: 214324001  
Customer Name: Ten21 Apartments  
Service Address: 1021 Jefferson St.  
Existing Meter: 3" Sensus Omni T2  
SN: 89214078  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 21) Account Number: 220000100  
Customer Name: Sweetwater Development LLC  
Service Address: 292 W. Western Ave  
Existing Meter: 3" Sensus Omni T2  
SN: 91379743  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 22) Account Number: 226002302  
Customer Name: Trillium Amazon Owner, LLC  
Service Address: 550 W. Western Ave  
Existing Meter: 3" Sensus Omni T2  
SN: 81775499  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Master Meter endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 23) Account Number: 299015002  
Customer Name: Muskegon Community College

Service Address: 981 3<sup>rd</sup> St.

Existing Meter: 3" Sensus Omni T2

SN: 78229565

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

24) Account Number: 299050001

Customer Name: US Postal Service

Service Address: 800 First St.

Existing Meter: 3" Sensus Omni T2

SN: 85801692

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing spool piece located downstream of the meter with approximate 10"LL and install a spool piece with a 15"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

25) Account Number: 299086502

Customer Name: Hinman Co

Service Address: 700 Terrace Point Dr.

Existing Meter: 3" Sensus Omni T2

SN: 84213983

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing spool piece located downstream of the meter (7"LL) and shall install a spool piece with a 12"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

JCI shall install a 2" tap with ball valve on the new 12" spool piece located immediately downstream of the new meter in order to facilitate future meter accuracy testing.

26) Account Number: 299087201

Customer Name: Shoreline Inn

Service Address: 750 Terrace Point Dr.

Existing Meter: 3" Sensus Omni T2

SN: 91258742

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

27) Account Number: 299123601

Customer Name: Nelson Place

Service Address: 381 W. Muskegon Ave.

Existing Meter: 3" Sensus Omni T2

SN: 89467545

## Schedule 1

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 28) Account Number: 299137502  
Customer Name: 297 Clay Ave Condo  
Service Address: 297 W. Clay Ave.  
Existing Meter: 3" Sensus Omni T2  
SN: 88926319

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 29) Account Number: 299144003  
Customer Name: Muskegon County  
Service Address: 155 E. Apple Ave. Dorm  
Existing Meter: 3" Sensus Omni T2  
SN: 81277282

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 30) Account Number: 299146103  
Customer Name: Muskegon County  
Service Address: 990 Terrace St.  
Existing Meter: 3" Sensus Omni T2  
SN: 77848918

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 31) Account Number: 299183301  
Customer Name: Baker College of Muskegon  
Service Address: 336 W. Clay Ave.  
Existing Meter: 3" Sensus Omni T2  
SN: 69411789

Scope of Work: JCI shall remove the existing meter (19"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 7"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 32) Account Number: 299231501  
Customer Name: Muskegon High School  
Service Address: 80 Southern Ave. – Lawn A  
Existing Meter: 3” Sensus Omni T2  
SN: 91379744  
Scope of Work: JCI shall remove the existing meter (17”LL) and shall install a new 3” Master Meter Octave ultrasonic water meter (12”LL) that reads in cubic feet. JCI shall install a spool piece with a 5”LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75” hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 33) Account Number: 311255001  
Customer Name: Every Woman’s Place  
Service Address: 1221 W. Laketon Ave.  
Existing Meter: 3” Sensus Omni T2  
SN: 84198117  
Scope of Work: JCI shall remove the existing meter (17”LL) and shall install a new 3” Master Meter Octave ultrasonic water meter (12”LL) that reads in cubic feet. JCI shall install a spool piece with a 5”LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 34) Account Number: 386000001  
Customer Name: Reese Park Lawn  
Service Address: E. Forest Ave.  
Existing Meter:  
SN:  
Scope of Work: This meter was unable to be located during JCI’s large meter survey efforts. This meter will not be included as part of this project.
- 35) Account Number: 386000501  
Customer Name: Reese Park - Lawn  
Service Address: Corner of Forest & Creston (GPS 43.223195, -86.210179)  
Existing Meter: 3” Kamstrup FlowIQ 3101  
SN: 26688169  
Scope of Work: JCI shall remove the existing meter (12”LL) and shall install a new 3” Master Meter Octave ultrasonic water meter (12”LL) that reads in cubic feet. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75” hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 36) Account Number: 386023002  
Customer Name: City of Muskegon – Seyferth Park  
Service Address: 2250 W. Sherman Blvd.  
Existing Meter: 3” Sensus W-350  
SN: 152970X  
Scope of Work: JCI shall remove the existing meter (19”LL) and shall install a new 3” Master Meter Octave

## Schedule 1

ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 7"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 37) Account Number: 388000301  
Customer Name: Oakwood Cemetery  
Service Address: Corner of Forest & McIlwrai  
Existing Meter:  
SN: Unknown  
Scope of Work: JCI shall remove the existing meter (12"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 38) Account Number: 388013001  
Customer Name: Oakwood Cemetery - Lawn  
Service Address: Nims near Irwin (GPS 43.223342, -86.231828)  
Existing Meter: 3" Sensus W-350  
SN: 1465070  
Scope of Work: JCI shall remove the existing meter (12"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 39) Account Number: 388014501  
Customer Name: Restlawn Cemetery - Lawn  
Service Address: 1400 Kenneth St.  
Existing Meter: 3" Sensus W-350  
SN: 1611431  
Scope of Work: JCI shall remove the existing meter (19"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 7"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 40) Account Number: 388017301  
Customer Name: Evergreen Cemetery  
Service Address: E. Grand Ave (GPS 43.224877, -86.235738)  
Existing Meter: 3" Sensus W-350  
SN: 1478982

## Schedule 1

Scope of Work: JCI shall remove the existing meter (19"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 7"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

41) Account Number: 388020501

Customer Name: Lakeside Cemetery

Service Address: 2101 Crozier Ave

Existing Meter: 3" Sensus Omni T2

SN: 93760101

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors

42) Account Number: 399005001

Customer Name: West Michigan Dock & Market

Service Address: Goodrich St. (GPS 43.235753, -86.259592)

Existing Meter: 3" Sensus Omni T2

SN: 88875742

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

43) Account Number: 399095001

Customer Name: Glenside School

Service Address: 1213 W. Hackley Ave.

Existing Meter: 3" Sensus Omni T2

SN: 78176354

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

44) Account Number: 399102004

Customer Name: New GLDC LLC

Service Address: 1940 Henry St.

Existing Meter: 3" Sensus Omni T2

SN: 83425986

Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1)

## Schedule 1

new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 45) Account Number: 399240501  
Customer Name: Bunker Elementary School  
Service Address: 2312 Denmark St. Lawn  
Existing Meter: 3" Sensus W-350  
SN: 5399263  
Scope of Work: JCI shall remove the existing meter (12"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 46) Account Number: 399285201  
Customer Name: Hartshorn Holdings, LLC  
Service Address: 1050 W. Western Ave.  
Existing Meter: 3" Sensus Omni T2  
SN: 85801691  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 47) Account Number: 399362001  
Customer Name: Brunswick Bowling Products LLC  
Service Address: 525 W. Laketon Ave.  
Existing Meter: 3" Sensus Omni T2  
SN: 78310346  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing meter pit lid and shall install a composite pit lid that is traffic rated. JCI shall mount one (1) new Master Meter Allegro AMI system endpoint on the underside of the new composite meter pit lid. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 48) Account Number: 399435100  
Customer Name: Adelaide Point QOZB, LLC  
Service Address: 901 Adelaide Circle  
Existing Meter: 3" Sensus Omni T2  
SN: 93760103  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 49) Account Number: 399436200  
Customer Name: Adelaide Point QOZB, LLC  
Service Address: 500 Adelaide Circle

Existing Meter: 3" Master Meter Octave  
SN: 23007526

Scope of Work: This service is brand-new and already has a Master Meter Octave meter with Master Meter Allegro AMI system endpoint. This meter will not be replaced as part of this project.

- 50) Account Number: 399550001  
Customer Name: Parkland Properties of Michigan  
Service Address: 930 Washington Ave  
Existing Meter: 3" Sensus Omni T2  
SN: 78229566  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 51) Account Number: 399970150  
Customer Name: West Michigan Dock & Market Corp.  
Service Address: 560 Mart St. – Tiki Hut  
Existing Meter: 3" Sensus Omni T2 SN: 88875742s  
Scope of Work: This meter was not surveyed during JCI'S large meter survey efforts. As such, this meter will not be included as part of this project.
- 52) Account Number: 120027502  
Customer Name: Muskegon Christian School  
Service Address: 1220 Eastgate St. (GPS 43.229904, -86.219085)  
Existing Meter: 3" Sensus Omni T2  
SN: 86760821  
Scope of Work: JCI shall remove the existing meter (17"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall install a spool piece with a 5"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 53) Account Number: Unknown  
Customer Name: Muskegon Schools  
Service Address: Amity (GPS 43.236398, -86.216433)  
Existing Meter: 3" Metron Spectrum 175  
SN: 1515205  
Scope of Work: JCI shall remove the existing meter (11.75"LL) and shall install a new 3" Master Meter Octave ultrasonic water meter (12"LL) that reads in cubic feet. JCI shall remove the existing Master Meter endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 54) Account Number: 199012501  
Customer Name: City of Muskegon – Parks (Beukema Park)  
Service Address: 480 Bennett St.  
Existing Meter: 4" Sensus W-1000  
SN: Unknown

## Schedule 1

Scope of Work: JCI shall remove the existing meter (23"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 9"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 55) Account Number: 199018001  
Customer Name: Village of the Oaks  
Service Address: 1740 Village Dr.  
Existing Meter: 4" Kamstrup FlowIQ 3101  
SN:  
Scope of Work: JCI shall remove the existing meter (14"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 56) Account Number: 199047501  
Customer Name: Muskegon Community College  
Service Address: 221 Quarterline Rd.  
Existing Meter: 4" Sensus Omni T2  
SN: 83588821  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 57) Account Number: 199145001  
Customer Name: Board of Education – Steel Elementary School  
Service Address: 1150 Amity Ave  
Existing Meter: 4" Metron Spectrum 175  
SN: 15908166  
Scope of Work: This building is scheduled for demolition and will not be replaced as part of this project.
- 58) Account Number: 199162501  
Customer Name: Muskegon Maritime Academy  
Service Address: 571 E. Apple Ave.  
Existing Meter: 4" Sensus Omni T2  
SN: 82524224  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors. a JCI shall install a 2" tap with ball valve on the new 6" spool piece located immediately downstream of the new meter in order to facilitate future meter accuracy testing.
- 59) Account Number: 199177501  
Customer Name: Lake Woods Nursing & Rehabilitation

Service Address: 1776 Vulcan St.  
Existing Meter: 4" Sensus Omni T2  
SN: 89611499

Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install a metal or wooden post in the grass area next to the vault. JCI shall mount an Allegro AMI system endpoint on the newly installed post. JCI shall bore a hole through the side of the meter vault and shall run the register cable underground from the existing vault to the newly installed post where the new endpoint is located. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

JCI shall install a 2" tap with ball valve, on the new 6" spool piece located immediately downstream of the new meter in order to facilitate future meter accuracy testing.

60) Account Number: 199225907  
Customer Name: Essex Property  
Service Address: 2121 Latimer Dr.  
Existing Meter: 4" Sensus Omni C2  
SN: 78327251

Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

JCI shall install a 2" tap with ball valve on the new 6" spool piece located immediately downstream of the new meter in order to facilitate future meter accuracy testing.

61) Account Number: 199230006  
Customer Name: ADAC  
Service Address: 2653 Olthoff Dr.  
Existing Meter: 4" Sensus Omni T2  
SN: 80606892

Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

62) Account Number: 199237001  
Customer Name: McAuley Place  
Service Address: 1380 E. Sherman Blvd.  
Existing Meter: 4" Sensus Omni T2  
SN: 91365672

Scope of Work: This building is vacant and will not be replaced as part of this project.

63) Account Number: 199237501

Customer Name: Trinity Health  
Service Address: 1500 E. Sherman Blvd.  
Existing Meter: 4" Sensus Omni T2  
SN: 84610812

Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install a metal or wooden post in the grass area on the side of the road next to the vault. JCI shall mount an Allegro AMI system endpoint on the newly installed post. JCI shall bore a hole through the side of the meter vault and shall run the register cable underground from the existing vault to the newly installed post where the new endpoint is located. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

64) Account Number: 199240002  
Customer Name: Trinity Health Hospital  
Service Address: 1560 E. Sherman Blvd.  
Existing Meter: 4" Sensus Omni T2  
SN: 84610812

Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

65) Account Number: 199272402  
Customer Name: Hy-Lift Inc.  
Service Address: 1185 E. Keating Ave.  
Existing Meter: 4" Metron Spectrum 260  
SN: 17908110

Scope of Work: JCI shall remove the existing meter (13.75"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall relocate the existing plate strainer so that it is located downstream of the new meter. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

66) Account Number: 199285601  
Customer Name: Lorin Industries  
Service Address: 1960 Roberts St.  
Existing Meter: 4" Sensus Omni T2  
SN: 87958455

Scope of Work: JCI shall remove the existing meter (23"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 9"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

JCI shall also install a 2" tap with ball valve on the new 9" spool piece located immediately downstream of the new meter in order to facilitate future meter accuracy testing.

67) Account Number: 199304003

Customer Name: BTM Holdings  
Service Address: 2051 S. Harvey St.  
Existing Meter: 4" Sensus Omni C2  
SN: 78364452

Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

68) Account Number: 199349001  
Customer Name: Muskegon Area Intern.  
Service Address: 200 Harvey St.  
Existing Meter: 4" Metron Spectrum 260  
SN: 17908108

Scope of Work: JCI shall remove the existing meter (13.75"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

69) Account Number: 199540001  
Customer Name: Muskegon SC Holdings, LLC  
Service Address: 1400 Mercy Dr.  
Existing Meter: 4" Sensus Omni T2  
SN: 69892754

Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

70) Account Number: 212281002  
Customer Name: Muskegon Convention Center LLC  
Service Address: 460 W. Western Ave.  
Existing Meter: 4" Sensus Oni T2  
SN: 85938849

Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

71) Account Number: 299003002  
Customer Name: City of Muskegon – Ice Arena  
Service Address: 955 4<sup>th</sup> St.  
Existing Meter: 4" Sensus Omni T2  
SN: 80606893

Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 72) Account Number: 299008005  
Customer Name: Parkland Acquisition Two, LLC  
Service Address: 939 3<sup>rd</sup> St.  
Existing Meter: 4" Sensus Omni T2  
SN: 82524221  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 73) Account Number: 299086002  
Customer Name: Hinman Co.  
Service Address: 316 Morris Ave  
Existing Meter: 4" Sensus Omni T2  
SN: 89409507  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 74) Account Number: 299105001  
Customer Name: Frontier Comm  
Service Address: 860 Terrace St.  
Existing Meter: 4" Sensus Omni T2  
SN: 86924756  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 75) Account Number: 299111003  
Customer Name: Webster Devcore LLC  
Service Address: 221 W. Webster  
Existing Meter: 4" Sensus Omni T2  
SN: 84198115  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 76) Account Number: 299144702  
Customer Name: Muskegon County  
Service Address: 131 E. Apple Ave.  
Existing Meter: 4" Sensus Omni T2  
SN: 83588820  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately

## Schedule 1

downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 77) Account Number: 299145501  
Customer Name: Hartford Terrace  
Service Address: 1080 Terrace St.  
Existing Meter: 4" Sensus Omni T2  
SN: 83944754  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 78) Account Number: 299146001  
Customer Name: Muskegon County  
Service Address: 9960 Terrace St.  
Existing Meter: 4" Sensus Omni T2  
SN: 89409508  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

JCI shall install a 2" tap with ball valve on the new 6" spool piece located immediately downstream of the new meter in order to facilitate future meter accuracy testing.

- 79) Account Number: 299147003  
Customer Name: Bayview Tower  
Service Address: 864 Spring St.  
Existing Meter: 4" Sensus Omni T2  
SN: 83425988  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 80) Account Number: 299183001  
Customer Name: Muskegon Retirement Apartments  
Service Address: 1077 Jefferson St.  
Existing Meter: 4" Sensus Omni C2  
SN: 77392710  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

81) Account Number: 299215201  
Customer Name: Hackley Professional Centere  
Service Address: 1675 Leahy St.  
Existing Meter: 4" Sensus Omni T2  
SN: 84521967  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

82) Account Number: 299215500  
Customer Name: Muskegon Public Schools – Middle School  
Service Address: 1700 Clinton St.  
Existing Meter: 4" Sensus Omni T2  
SN: 93295888  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

83) Account Number: 299247601  
Customer Name: Muskegon Senior HS  
Service Address: 80 W. Southern Ave.  
Existing Meter: 4" Sensus Omni T2  
SN: 77984720  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

84) Account Number: 299250001  
Customer Name: Muskegon HS Gym/Library  
Service Address: 80 Southern Ave.  
Existing Meter: 4" Sensus Omni T2  
SN: 82524225  
Scope of Work: JCI shall remove the existing meter (23"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 9"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

85) Account Number: 299258101  
Customer Name: Board of Education  
Service Address: Corner of 5<sup>th</sup> and Grand (GPS 43.225549, -86.248099)  
Existing Meter: 4" Sensus Omni T2  
SN: 84632768  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave

## Schedule 1

ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 86) Account Number: 386001001  
Customer Name: Smith Playfield Bathroom  
Service Address: Corner of Sumner & Marshall (GPS 43.242163, -86.231639)  
Existing Meter: 4" Sensus Omni T2  
SN: 89409509  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 87) Account Number: 386015001  
Customer Name: Sheldon Park  
Service Address: 1059 Isabella Ave.  
Existing Meter: 4" Sensus Omni T2  
SN: 90401023  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid and shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 88) Account Number: 387000501  
Customer Name: Fisherman's Landing  
Service Address: E. Western Ave.  
Existing Meter: 4" Sensus Omni T2  
SN: 83403895  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid and shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 89) Account Number: 394000501  
Customer Name: Village at Park Terrace  
Service Address: 1350 W. Hackley Ave.  
Existing Meter: 4" Sensus Omni T2  
SN: 85938848  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

JCI shall install a 2" tap with ball valve on the new 6" spool piece located immediately downstream of the new meter in order to facilitate future meter accuracy testing.

- 90) Account Number: 399058001  
Customer Name: Catholic Central  
Service Address: 1851 Barclay St.  
Existing Meter: 4" Sensus Omni T2  
SN: 82184894  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 91) Account Number: 399237104  
Customer Name: Bel Air Estates MHP, LLC  
Service Address: 2481 W. Sherman Blvd.  
Existing Meter: 4" Master Meter Octave  
SN: 24002178  
Scope of Work: This meter has already been replaced with a Master Meter Octave and upgraded to an Allegro AMI system endpoint and will not be replaced as part of this project.
- 92) Account Number: 399240001  
Customer Name: Board of Education – Bunker Elementary School  
Service Address: 2312 Denmark St.  
Existing Meter: 4" Sensus Omni T2  
SN: 93341551  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 93) Account Number: 399246001  
Customer Name: Harbour Towne Marina Association  
Service Address: 3429 Fulton St. Marina  
Existing Meter: 4" Sensus Omni T2  
SN: 77848971  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 94) Account Number: 399255501  
Customer Name: Muskegon Country Club  
Service Address: 2801 Lakeshore Dr.  
Existing Meter: 4" Sensus Omni T2  
SN: 83403894  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately

## Schedule 1

downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 95) Account Number: 399272503  
Customer Name: 1161 W. Southern Ave, LLC  
Service Address: 1161 W. Southern Ave.  
Existing Meter: 4" Sensus Omni T2  
SN: 82890924  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 96) Account Number: 399295801  
Customer Name: Boys & Girls Club  
Service Address: 900 W. Western Ave.  
Existing Meter: 4" Sensus Omni T2  
SN: 82184893  
Scope of Work: JCI shall remove the existing meter (20"LL) and shall install a new 4" Master Meter Octave ultrasonic water meter (14"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 97) Account Number: 399307501  
Customer Name: Moon School  
Service Address: 550 W. Grand Ave. (GPS 43.227303, -86.257848)  
Existing Meter: 4" Sensus W-1000  
SN: Unknown  
Scope of Work: This meter is not owned by the Customer and will not be replaced as part of this project.
- 98) Account Number: 199015504  
Customer Name: OHAT-1 LLC/OHAT-2 LLC  
Service Address: 1000 Marquette Ave.  
Existing Meter: 6" Sensus Omni T2  
SN: 97610846  
Scope of Work: JCI shall remove the existing meter (24"LL) and shall install a new 6" Master Meter Octave ultrasonic water meter (18"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 99) Account Number: 199016001  
Customer Name: Carriage House  
Service Address: 1930 Carriage Rd.  
Existing Meter: 6" Sensus Omni T2  
SN:

## Schedule 1

Scope of Work: JCI shall remove the existing meter (24"LL) and shall install a new 6" Master Meter Octave ultrasonic water meter (18"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 100) Account Number: 199040003  
Customer Name: Muskegon County  
Service Address: 1903 Marquette Ave.  
Existing Meter: 6" Sensus Omni T2  
SN: 85813463

Scope of Work: JCI shall remove the existing meter (24"LL) and shall install a new 6" Master Meter Octave ultrasonic water meter (18"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 101) Account Number: 199050001  
Customer Name: Muskegon Community College  
Service Address: 221 Quarterline Rd.  
Existing Meter: 6" Sensus Omni T2  
SN: 79599753

Scope of Work: JCI shall remove the existing meter (24"LL) and shall install a new 6" Master Meter Octave ultrasonic water meter (18"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 102) Account Number: 199237201  
Customer Name: Trinity Health Hospitals  
Service Address: 1500 E. Sherman Blvd.  
Existing Meter: 6" Sensus Omni T2  
SN: 80051330

Scope of Work: JCI shall remove the existing meter (24"LL) and shall install a new 6" Master Meter Octave ultrasonic water meter (18"LL) that reads in cubic feet. JCI shall install a spool piece with a 6"LL immediately downstream of the new water meter. JCI shall remove the existing Sensus endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

JCI shall also install a 2" tap with ball valve on the new 6" spool piece located immediately downstream of the new meter in order to facilitate future meter accuracy testing.

- 103) Account Number: 199286501  
Customer Name: Lorin Industries  
Service Address: 1960 Roberts St.  
Existing Meter: 6"  
SN:

Scope of Work: This meter is not owned by the Customer and will not be replaced as part of this project.

104) Account Number: 199339001  
Customer Name: Renk America  
Service Address: 76 Getty St.  
Existing Meter: 6" Metron Enduro  
SN: Unknown  
Scope of Work: This meter is not owned by the Customer and will not be replaced as part of this project.

105) Account Number: 199339001  
Customer Name: Renk America  
Service Address: 76 Getty St.  
Existing Meter: 6" Neptune HPT  
SN: Unknown  
Scope of Work: This meter is not owned by the Customer and will not be replaced as part of this project.

106) Account Number: 199339101  
Customer Name: Renk America  
Service Address: 76 Getty St.  
Existing Meter: 6" Neptune HPT  
SN: Unknown  
Scope of Work: This meter is not owned by the Customer and will not be replaced as part of this project.

107) Account Number: 199339101  
Customer Name: Renk America  
Service Address: 76 Getty St.  
Existing Meter: 6" Neptune HPT  
SN: Unknown  
Scope of Work: This meter is not owned by the Customer and will not be replaced as part of this project.

108) Account Number: 199347501  
Customer Name: Township of Muskegon  
Service Address: E. Keating Ave – Twp. 59 (GPS 43.216052, -86.211352)  
Existing Meter: 6" Metron Enduro  
SN: 1482121  
Scope of Work: JCI shall remove the existing meter (22"LL) and shall install a new 6" Master Meter Octave ultrasonic water meter (18"LL) that reads in cubic feet. JCI shall install a spool piece with a 4"LL immediately downstream of the new water meter. JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid and shall install one (1) new Master Meter Allegro AMI system endpoint, through the existing meter pit lid. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

109) Account Number: 199347501  
Customer Name: Township of Muskegon  
Service Address: E. Keating Ave – Twp. 59 (GPS 43.216052, -86.211352)  
Existing Meter: 6" Metron Enduro  
SN: 1492121

## Schedule 1

Scope of Work: JCI shall remove the existing meter (22"LL) and shall install a new 6" Master Meter Octave ultrasonic water meter (18"LL) that reads in cubic feet. JCI shall install a spool piece with a 4"LL immediately downstream of the new water meter. JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid and shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

- 110) Account Number: 299215401  
Customer Name: Hackley Community Care Center  
Service Address: 1550 Clinton St.  
Existing Meter: 6" Metron Spectrum 440  
SN: 19910224  
Scope of Work: JCI shall remove the existing meter (17.75"LL) and shall install a new 6" Master Meter Octave ultrasonic water meter (18"LL) that reads in cubic feet. JCI shall remove the existing Allegro endpoint and shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.
- 111) Account Number: 380000001  
Customer Name: City Hall Building  
Service Address: 933 Terrace St.  
Existing Meter: 6" Sensus Omni T2  
SN: 79730213  
Scope of Work: This meter was replaced in March 2026 and was upgraded to a Master Meter Octave with Master Meter Allegro AMI system endpoint. This meter will not be replaced as part of this project.
- 112) Account Number: 385000001  
Customer Name: Public Service Building  
Service Address: 1350 E. Keating Ave.  
Existing Meter: 6" Master Meter Octave  
SN: 25000720  
Scope of Work: This meter has already been replaced and upgraded to a Master Meter Octave with Master Meter Allegro AMI system endpoint. This meter will not be replaced as part of this project.
- 113) Account Number: 199230701  
Customer Name: Northern Biomedical Research  
Service Address: 2725 Olthoff Dr.  
Existing Meter: 8" Master Meter Octave  
SN: 23005737  
Scope of Work: This meter has already been replaced and upgraded to a Master Meter Octave with Master Meter Allegro AMI system endpoint. This meter will not be replaced as part of this project.
- 114) Account Number: 199340001  
Customer Name: City of Roos Park  
Service Address: W. Sherman Blvd. (GPS 43.205478, -86.283218)8  
Existing Meter: 8" Master Meter Octave  
SN: 23000772  
Scope of Work: This meter has already been replaced and upgraded to a Master Meter Octave with Master Meter Allegro AMI system endpoint. This meter will not be replaced as part of this project.
- 115) Account Number: 199350001

Customer Name: City of North Muskegon  
Service Address: 1502 Ruddiman St.  
Existing Meter: 8" Sensus Omni T2  
SN: 94109990

Scope of Work: JCI shall remove the existing meter and plate strainer (30.125"LL) and shall install a new 8" Master Meter Octave ultrasonic water meter (20"LL) that reads in cubic feet. JCI shall install a spool piece with a 10.125"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

116) Account Number: 199340201

Customer Name: City of Roos Park  
Service Address: W. Sherman Blvd (GPS 43.205192, -86.263274)  
Existing Meter: 10" Sensus Omni T2  
SSN: 84829303S

Scope of Work: JCI shall remove the existing meter and plate strainer (41.125"LL) and shall install a new 10" Master Meter Octave ultrasonic water meter (17.75"LL) that reads in cubic feet. JCI shall install a spool piece with a 23.375"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint in the meter pit. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

117) Account Number: 399348001

Customer Name: County Northside Water  
Service Address: 44 Ottawa St.  
Existing Meter: 10" Yokogawa Admag AXF 250C  
SSN: S5G606842S

Scope of Work: JCI shall install one (1) SCADAmetrics Encodalizer PTE device near the existing meter. JCI shall connect the pulse output from the remote display – specifically the DO- and DO+ terminals – of the existing meter to the input of the PTE device. JCI shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building and shall connect the new Master Meter AMI system endpoint to the output of the SCADAmetrics Encodalizer PTE device.

118) Account Number: 199347401

Customer Name: Township of Muskegon  
Service Address: Harvey St. Twp. (GPS 43.210596, -86.205868)  
Existing Meter: 12" Sensus Propeller  
SN: 92589085

Scope of Work: JCI shall remove the existing meter (28"LL) and shall install a new 12" Master Meter Octave ultrasonic water meter (19.75"LL) that reads in cubic feet. JCI shall install a spool piece with a 8.25"LL immediately downstream of the new water meter. JCI shall install a metal or wooden post in the grass area nearby the existing meter vault. JCI shall mount an Allegro AMI system endpoint on the newly installed post. JCI shall bore a hole through the side of the meter vault and shall run the register cable underground from the existing vault to the nearby post where the new endpoint is located. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

119) Account Number: 199347601

Customer Name: Township of Muskegon  
Service Address: 99 Quarterline Rd.  
Existing Meter: 12" Sparling FM657  
SN: M075070905  
Date of Manufacture: 2005

Scope of Work: JCI shall install one (1) SCADAmetrics Encodalizer PTE device on the support posts for the existing Sparling TigerMag remote display near the existing meter. JCI shall connect the digital pulse output from the remote display – terminal block J6, ports 3 & 4 – of the existing meter to the input of the PTE device. JCI shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building and shall connect the new Master Meter AMI system endpoint to the output of the SCADAmetrics Encodalizer PTE device.

120) Account Number: 199347701

Customer Name: Township of Muskegon  
Service Address: 1701 Stebbins Rd.  
Existing Meter: 12" Siemens OCM3  
SN: Unknown

Scope of Work: This meter is not owned by the Customer and will not be replaced as part of this project.

121) Account Number: 199352501

Customer Name: Department of Corrections  
Service Address: 2400 S. Sheridan Rd.  
Existing Meter: 12" Hersey MFM  
SN: 70044422

Scope of Work: JCI shall remove the existing meter (68"LL) and shall install a new 12" Master Meter Octave ultrasonic water meter (19.75"LL) that reads in cubic feet. JCI shall install a spool piece with a 48.25"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

122) Account Number: 199352801

Customer Name: Department of Corrections  
Service Address: 2900 Olthoff Dr.  
Existing Meter: 12" Hersey MFM  
SN: 91963134

Scope of Work: JCI shall remove the existing meter (68"LL) and shall install a new 12" Master Meter Octave ultrasonic water meter (19.75"LL) that reads in cubic feet. JCI shall install a spool piece with a 48.25"LL immediately downstream of the new water meter. JCI shall install one (1) new Master Meter Allegro AMI system endpoint through the existing meter pit lid. JCI may use the existing hole in the pit lid if the hole is of sufficient size. If it is not, JCI shall cut/bore/burn/drill a 1.75" hole through the existing meter pit lid in order to facilitate the installation of the new Allegro endpoint. JCI shall remove and dispose of the existing endpoint. JCI shall connect the new Master Meter AMI system endpoint to the new Master Meter Octave using the included Nicor connectors.

JCI shall install a 2" tap with ball valve on the new 48.25" spool piece located immediately downstream of the new meter in order to facilitate future meter accuracy testing.

123) Account Number: 323068200

Customer Name: Muskegon County

Service Address: 1465 Beach St.  
Existing Meter: 12" Emerson Rosemount 8750  
SN: 21230345

Scope of Work: JCI shall install one (1) SCADAmetrics Encodalizer PTE device within the confines of the existing electrical cabinet which houses the remote display for the existing meter. JCI shall connect the pulse output from the remote display – terminals 5 and 6 – of the existing meter to the input of the PTE device. JCI shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the existing electrical cabinet and shall connect the new Master Meter AMI system endpoint to the output of the SCADAmetrics Encodalizer PTE device.

- 124) Account Number: 199347601  
Customer Name: Township of Muskegon  
Service Address: 99 Quarterline Rd.  
Existing Meter: Fuji Ultrasonic Strap-On  
SN: Unknown  
Scope of Work: This meter is not owned by the Customer and will not be included in JCI's scope of work for this project.

- 125) Account Number: 399900001  
Customer Name: West Michigan Regional Water  
Service Address: 1900 Beach St.  
Existing Meter: 36" Yokogawa  
SN: Unknown  
Scope of Work: JCI shall install a SCADAmetrics Encodalizer PTE device on the support posts for the existing Yokogawa remote display. JCI shall connect the pulse output from the remote display of the existing meter to the input of the PTE device. JCI shall install one (1) new Master Meter Allegro AMI system endpoint on the outside wall of the building and shall connect the new Master Meter AMI system endpoint to the output of the SCADAmetrics Encodalizer PTE device.

- 126) Account Number: 199228501  
Customer Name: Mich Con  
Service Address: 2359 Olthoff Dr.  
Existing Meter: Unknown  
SN: Unknown  
Scope of Work: JCI was not able to access this meter as part of the large meter survey efforts during project development. This meter will not be included in the project scope of work.

- 127) Account Number: 199308502  
Customer Name: Solstice Advanced Materials US  
Service Address: 1953 S. Harvey St.  
Existing Meter: Unknown  
SN: Unknown  
Scope of Work: JCI was not able to access this meter as part of the large meter survey efforts during project development. This meter will not be included in the project scope of work.

- 128) Account Number: 399900001  
Customer Name: West Michigan Regional Water  
Service Address: 1900 Beach St.  
Existing Meter: Unknown  
SN: Unknown  
Scope of Work: JCI was not able to access this meter as part of the large meter survey efforts during project development. This meter will not be included in the project scope of work.

**D. Large Water Meters that are Omitted from the Project**

- 1) The following meters were not photographed or documented due to their being identified as a fireline meter in the billing system data that was provided by the Customer to JCI and, as a result, will not be included in this project:

<u>Account Number</u>	<u>Customer Name</u>	<u>Address</u>
800272503	1161 W SOUTHERN AVE LLC	1161 W SOUTHERN AVE FIRE
800217503	FLEET ENGINEERING	1895 PORT CITY BLVD
800286002	LORIN INDUSTRIES	1960 ROBERTS ST FIREB
800222502	JOHNSON TECH INC	2034 LATIMER DR FIRELI
800221002	ADAC PLASTIC INC	2050 PORT CITY BLVD
800227004	LAKESIDE SURFACES INC	2265 BLACK CREEK RD
800243002	ABC SUPPLY COMPANY	2285 ROBERTS ST
800275001	BERKSHIRE MUSKEGON LDH ASSOC LLC	275 W CLAY AVE FIRE
800210077	STRANDBERG CLARE	974 PINE ST FIRELINE
800129804	WEST VILLAGE MALL	HENRY ST

- 2) The following meters were photographed and documented during JCI's large meter survey efforts in October 2025. However, per direction from the Customer during a meeting on December 9, 2025, JCI will not replace or upgrade these meters to AMI:

<u>Account Number</u>	<u>Customer Name</u>	<u>Address</u>
198229202	KAMP TRUST	2304 OLTHOFF DR
199016401	GLEN OAKS	410 GLEN OAKS DRIVE
199016601	GLEN OAKS	410 GLEN OAKS DRIVE
199016601	GLEN OAKS	410 GLEN OAKS DRIVE
199245702	AMERICAN CHEMICAL SOLUTIONS	1221 E BARNEY AVE ACT5
199246002	AMERICAN CHEMICAL SOLUTIONS LLC	1221 E BARNEY AVE A
199304301	MAHLE INDUSTRIES INC	2051 S HARVEY ST
199900001	WEST MICHIGAN REGIONAL WATER	2615 BLACK CREEK RD
399308001	BD OF EDUCATION	550 W GRAND AVE NELSON
399309001	BD OF EDUCATION	550 W GRAND AVE POOL
406230001	CHRISTIAN RETIREMENT HOME	1480 MCLAUGHLIN AVE
406250003	APPLE VENTURES, LLC	1501 APPLE AVE

**GENERAL SCOPE OF WORK:**

- 1) Customer shall be responsible for reading water utility meters using the existing Master Meter Allegro AMI system network or by using the existing handhelds/mobile AMR system until acceptance plan steps are completed for the water meter installation. This includes any updates to firmware, software, or hardware that is required to read and operate the new water meters.
- 2) The parties acknowledge that Customer has an existing Master Meter Allegro AMI system – the infrastructure for which has already been installed by Customer
  - a. JCI shall provide list of endpoints not reporting on biweekly basis for analysis to determine if customer will need to install additional infrastructure or modify original specified equipment.
  - b. JCI's services and Work hereunder do not include remedying any deficiencies in the AMI System (whether or not identified pursuant to JCI's analysis), and Customer acknowledges that it has sole responsibility to address any deficiencies with the AMI System.
  - c. Customer acknowledges that JCI bears no responsibility for the read rate performance of the AMI System including all related components such as towers, endpoints, and the communication of the meter data from the endpoint to the existing AMI network.
- 3) For locations where JCI has made the first attempt to install a 5/8" x 3/4" meter but is unable to do so, JCI shall attempt to install a 5/8" x 1/2" meter. JCI shall notify the customer of locations where 5/8" x 1/2" meters have been installed vs. a 5/8"x3/4" meter. If a 5/8" x 1/2" meter cannot be installed, JCI will not perform work and notify the customer regarding locations where additional plumbing is required outside of what is specified above for the indicated meter size. Customer will provide JCI on next steps.
- 4) JCI shall document the end user account number, service address, existing serial number and size, and the final reading from the existing register and outside meter.
- 5) For new water utility meters, JCI shall document the serial number, meter size, GPS Coordinates, initial register reading, endpoint radio transmitter serial number, and meter register ID# (if applicable).
- 6) JCI shall document GPS coordinates to within a 3-5m (10-15 ft) radius for all meter service locations.
- 7) JCI shall provide and install couplings, connectors, gaskets, and accessories as required excluding shut off valves (unless otherwise noted in the scope of work above).
- 8) Customer acknowledges that the flow characteristics of the Master Meter Sonata 5/8"x3/4" meter and the 3/4"S Sonata meter are identical.
- 9) Customer has selected the A.Y. McDonald No. 5124-093 coupling, A.Y. McDonald No. 5139-035 coupling, and Ford Meter Box A23-NL for use on this project at the locations specified in section A above. Any deviation from these specifications, either due to Customer request or due to field conditions that did not match expected specifications, shall be Customer's financial responsibility and shall be handled via a change order and/or the Customer contingency.
- 10) JCI shall provide and install new register cable for all meter replacements and retrofits, where applicable.
- 11) Manufacturer product warranties will be transferred directly to the Customer upon installation completion.
- 12) The Customer has selected the Master Meter Sonata ultrasonic meter with integrated Allegro AMI system endpoint for meter sizes 1" and smaller and the Master Meter Octave ultrasonic meter for intermediate and select large meter accounts for this project.
- 13) The Customer previously selected the Master Meter Allegro AMI system prior to project development and has installed the necessary infrastructure in accordance with the AMI system propagation study that was provided to Customer prior to this project development. JCI shall not be responsible for additional infrastructure that may be required to obtain meter reads.
- 14) Quantities of active accounts and conditions are based upon information provided to JCI by the Customer on March 6, 2026 and the JCI large water meter survey from October 27-November 7, 2025. This information shall be considered to form the database of record and is attached to this Agreement as Appendix 3. Any new material leftover after the completion of the project will be turned over to the Customer to be used as bench stock.
- 15) Customer's utility reads in units of cubic feet per an email received by the Customer on October 30, 2025.

- 16) JCI does not accept responsibility for existing conditions of the water distribution system that affects JCI's ability to complete the Work and may require additional compensation.
- 17) Customer will accept ownership of meters which are removed during project implementation and is responsible for disposing of these meters in a safe, responsible manner. Removed meters are the property of the Customer and will be placed in a mutually agreed upon storage location.
- 18) JCI shall be responsible for coordinating installation activities with both the end user and the Customer.
- 19) JCI shall provide digital photographs of meter installations included in this improvement measure. The photographs shall include the final register reading on meters just prior to their retrofit or replacement.
- 20) JCI shall provide an flat file for input of meter data from field installer handhelds to the existing billing system.

### **Meter Installation and Route Acceptance Procedures**

- 1) JCI completes the utility meter installations within a specified route.
- 2) JCI provides the Customer with a substantial completion notification for the route. This is the method to inform the Customer that the installation is substantially complete for this route and that it is ready for inspection. The Substantial Completion Document should be prepared when the route is at least 95% complete. There may be a few meters not installed for various reasons, and those services will be listed. JCI shall attach a meter reading report that indicates that meters are installed. JCI shall only be responsible for the appropriate wiring of the new AMI system endpoint to the new meter. Any further troubleshooting is the responsibility of the Customer.
- 3) The Customer-designated representative will then have 15 working days to visually inspect the meters in this route. Any installations that are deemed less than satisfactory shall be listed on a punch list form. Customer responsibilities include:
  - a. Inspect meter installations in the cycle/route for installation acceptance.
  - b. Verify meter and radio numbers match the data that JCI has uploaded into the billing system. This is not mandatory, but it is suggested that the Customer perform a spot check at a minimum.
  - c. Produce list of any installations that are found to be unacceptable and turn over to JCI for correction.
- 4) Once the corrections have been made by JCI or Customer, both the Customer and JCI will visit the specific meters to verify that the improvements have been made.
- 5) Upon successful installation, final Completion Documents are to be signed. The warranty period begins for the meters per the contract documents.

### **After the Final Completion Document Is Signed:**

- 1) The one (1) year warranty period for workmanship and material begins for the Customer.
- 2) The Customer accepts ownership of the accounts within the cycle/route and are responsible for:
  - a. Route maintenance, including unresponsive meters and field repairs.
  - b. Return Merchandise Authorization (RMA) processes for defective meters and radios.
  - c. Billing system data integrity.
- 3) Copies of signed documents are to be distributed to Stakeholders within the Customer and JCI. Originals are to be kept with the project documents.

### **System Maintenance Process**

- 1) JCI will respond to 100% of initial service calls on any meter installed as part of this Agreement, and not signed off/accepted, where the route was entered (opened). Once the meter has been installed and route acceptance has been completed, Customer will be the initial responder to the call. JCI will only be called out to a meter if a problem consists in item 2 below. If the problem has anything to do with workmanship from an installation (during the labor warranty period), JCI will correct the issue (during the labor warranty period). Workmanship examples include anything that has not been completed per the Agreement (e.g. Meter not installed per manufacturer and AWWA M6, 5th edition or AWWA C7XX standards guidelines).
- 2) If the problem has anything to do with workmanship from an installation (during the labor warranty period), JCI will correct the issue (duUpon sign-off of each route, all responsibility for warranty coverage of installed equipment will be transferred from JCI to the Customer. Further, meters that are "faulty" due to non-wear related failure such as, but not limited to, a broken freeze plate, register errors or failure, any end user damages and/or a meter that stops recording water flow after it has already recorded flow are Customer's responsibility.

## Use of and Access to Project Critical Equipment and Software

Customer agrees to provide unrestricted and timely access to all equipment, software, and hardware that is provided through the meter and/or AMI manufacturer as part of this project. This equipment is inclusive of (but not limited to) the following items:

- Handheld Programming Device (Radix, Nomad, or the like)
- Mobile Automated Meter Reading System (AMR) Hardware and Software
- Meter programming and interrogation devices
- Remote access and administrative privileges to the AMI system management software
- Any other manufacturer equipment that is critical to installation

## Utility Interruptions and Customer Support

JCI will be responsible for adequate management, notification, and coordination of installation efforts related to this project. Customer involvement and support will also be required during implementation of this improvement measure. Any staff overtime or water fees that are a result of this project are the responsibility of the Customer.

## Weekly Utility Database Refresh

Customer shall provide a refresh file of entire water utility database as requested by JCI. On a weekly basis, during the installation period, the refresh file shall be provided in electronic format and posted to an FTP server mutually agreed to in advance of project Notice to Proceed. The file should be either comma delimited or fixed-width and contain (at minimum) the following fields:

- Service Type (water)
- Account Number
- Address
- Cycle/Zone (if applicable)
- Route/Book
- Reading Sequence
- Endpoint ID
- Register ID (e.g., AMR #, Register ID, endpoint ID)
- Meter Number (e.g., Serial #)
- Meter Make (Sensus, Badger Meter, etc.)
- Meter Model (e.g. FlowIQ, Hydrus, etc.)
- Meter Size (5/8, 3/4, 1, 1.5, 2, 3, 4, 6 and 8)
- Last Read
- Last Read Date

### **Note:**

Any meter with an account listed as “Closed” or “Inactive” in Appendix 3 along with any additional meters not listed that are found during installation will not be replaced as part of this contract. Any excess materials will be left with the Customer to be used as bench stock. If JCI is requested to install additional quantities of water meters to complete this project, the total installed unit price per meter will be negotiated at that time. The database file previously mentioned will be submitted back to the Customer within 30 days of the contract signing that will include all accounts and a description of work as it relates to this contract and shall also include those accounts designated as “Do Not Do”.

## Required Access and Support

- Meter Access Program: Customer support will be required during implementation to obtain access to meters and to coordinate utility interruptions. When Customer confirms access with building owner, JCI shall respond as required to meet the installation schedule and the Customer will not be held responsible for any delays associated with those accounts. JCI personnel will be responsible for adequate notification and coordination with appropriate Customer personnel and end users to facilitate access and minimal disruption.
- JCI shall follow the following Access Program for meter located within Customer's residents:
  - Written attempt one: JCI will proceed with meter replacement per a scheduled implementation plan. If the installer cannot gain access to the meter (inaccessible), a door hanger with the installer contact phone number to make an arrangement for access, will be left.
  - Written attempt two: On a second occasion, JCI will attempt to reschedule and access the meter in an attempt to complete the work. If JCI still cannot gain access to the meter, another door hanger will be left.
  - If access cannot be obtained via "cold-calls", JCI will attempt to contact the end user via telephone (where available) to gain access to the meter. A valid telephone attempt is: a) when the End User can be reached; or, b) when a message is left on an answering machine or voice mail. JCI will make a minimum of three (3) telephone attempts utilizing the telephone number supplied by the Customer via the work order data and any other reasonable means available to JCI. A minimum of one telephone call must be attempted on Saturday or on a weekday after 5:00pm.
  - Written attempt three: On a third occasion, JCI will call for an appointment, and then visit the premise in an attempt to complete the work. If JCI still cannot gain access to the meter, another door hanger will be left.
  - If 10 business days after JCI delivers the third written attempt, the work order has not been completed and an appointment has not been established, the work order will be returned to the Customer as a "Cannot Complete" order. For project tracking purposes, such orders will be considered complete. A weekly "Cannot Complete" list will be returned to the Customer in an Excel format and at a minimum will contain the following information:
    - Name
    - Address
    - Phone numbers called
    - Dates door hanger left for each of three written attempts
    - Dates of written attempts
    - Dates and time of each of three valid telephone attempts
- Hard to access accounts – Accounts that do not respond to the above attempts process shall be listed by JCI on a weekly basis and submitted back to the Customer, and the Customer will then be responsible for gaining access to these accounts; JCI may participate in the scheduling (with the Customer) and shall participate in the meter change-out of these accounts.
- Faulty plumbing or abnormal conditions – If the JCI installer identifies a condition at a residence or business that would prevent the water meter from being replaced, that account will be submitted by JCI in a list of accounts to return to the Customer

## Field Leak Detection Services

JCI shall perform a one-time leak detection and correlation service in order to target potential leaks in two (2) areas as indicated in Map 1. The Scope of Work contained herein details the work and services that JCI will provide as well as the roles and responsibilities of JCI and the Customer.

The field services will cover the area indicated in Map 1 an estimated 10 miles of water lines

- JCI is not responsible for the excavation and repair of any leaks or breaks.
- JCI is not responsible for any "dry holes" which is defined as a location that has been field surveyed and a potential leak site correlated, but at which excavation of the site reveals no leak orifices or line breaks.

- Additional years of correlation services are the responsibility of the Customer.

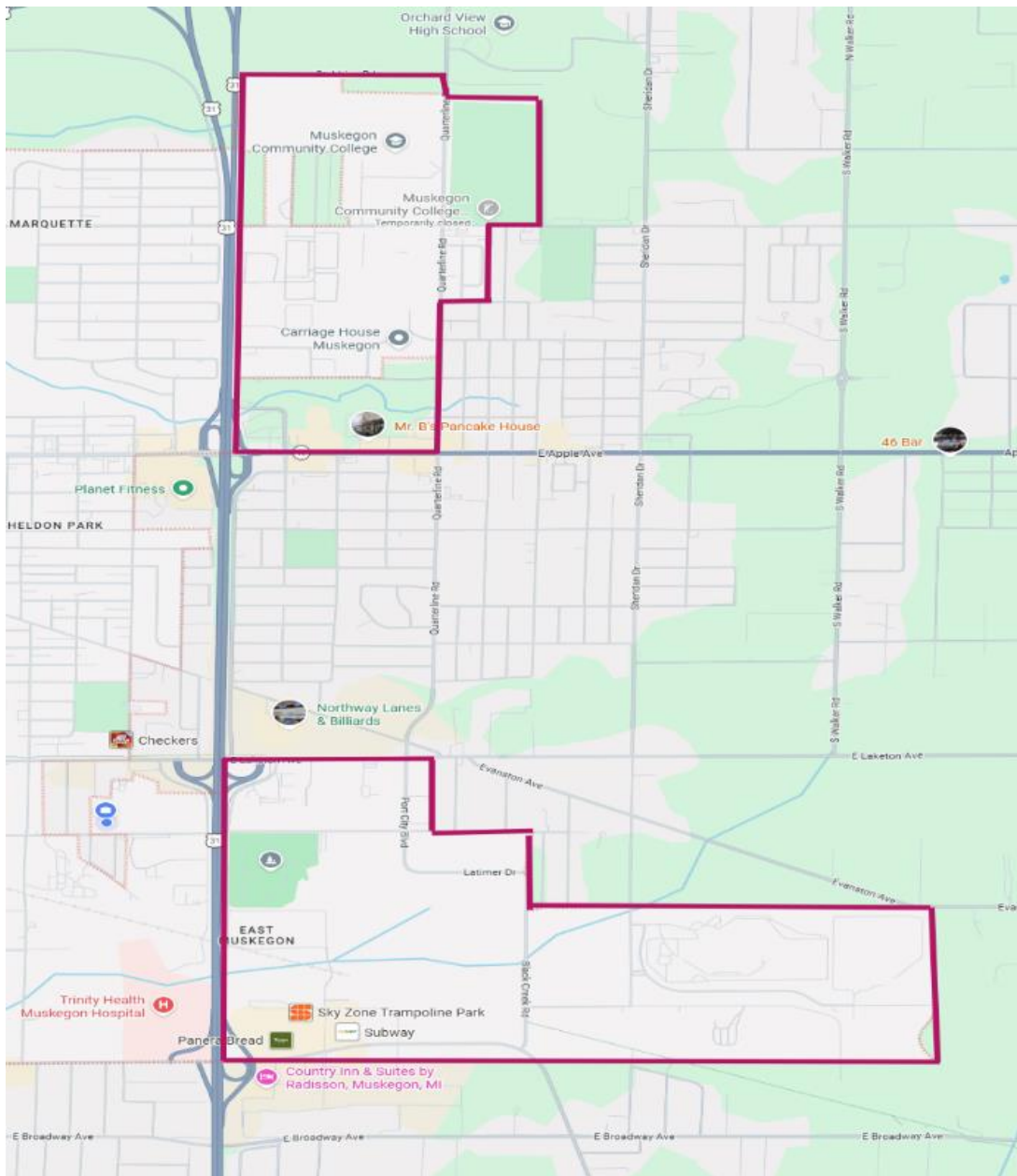
### Services & Responsibilities

- Supplying all essential resources including labor, materials, transportation, tools, and equipment that are required for the survey. A minimum of two (2) persons will be part of a survey team.
- Providing field technicians with readily observable identification badges which will be worn while in the field.
- Providing Customer with cell phone numbers of field technicians and an 800 number for direct contact with JCI for emergencies.
- Conduct physical contact listening on fire hydrants, accessible main line valves, and selected service connections (when necessary) which may include service valves or water meters. Inaccessible listening points will be reported to the Customer for resolution.
- Maintain a "Suspected Leak Log" indicating all areas where a suspected leak noise was detected. This log will be reviewed during the verification of suspected leak areas with an explanation of noise source. This log shall include:
  - Mechanical deficiencies that are discovered.
  - Mapping errors on the water atlas.
  - Type of monitored appurtenances.
  - Location of same for leaks discovered.
  - Total estimated loss.
- Electronic leak correlators, listening devices, and ground microphones will be utilized to detect and pinpoint leaks.
- Field marking of leak locations using an environmentally formulated precautionary blue paint.
- Documenting all leak locations with diagrams indicating the leak's precise location along with related correlation information such as filters used, line locations, sensor distances, and more.
- Daily reporting to the Customer's designated professional which shall cover progress from the previous day and survey plans for the current day.
- Reported leak locations will be limited to the Customer's distribution network. Leaks confirmed on the side of a residential or commercial user will not be located beyond the curb stop or shut-off. If the Customer requests leak locations beyond the service curb stop or shut-off, an additional charge may be applied.
- Providing a final, comprehensive report at the completion of field activities which shall include drawings, total estimated water loss, total pipe distance investigated, and other problems found in the system which require Customer attention. The leak summary will list leak types such as main leaks, service line breaks, valve leaks, or hydrant leaks.

### Services & Responsibilities – Customer

- Customer shall provide access to documents, records, electronic & paper maps, and data sources in order to properly conduct the leak survey. These may include but are not limited to:
  - ArcGIS internet mapping application
  - Exported copy of the Customer's water GIS database in shapefile or another ESRI-compatible format.
  - Electronic version of Customer's service area in PDF format.
  - Detailed engineering drawings in PDF or paper format.
- Customer shall assist as necessary to clean out service valves, meter pits, and valve-boxes that are required for acoustic listening activities.
- Customer shall provide a primary and/or secondary contact person to JCI in order to facilitate open communication and serve on an "as-needed" basis for hard to find locations.
- Assistance, if required, for permissible entry into sites that may be difficult to access due to security issues or other concerns.
- Assistance, if required, for locating nonmetallic pipe within the service area.
- Operation of valves and hydrants as necessary.

Map 1



### Owner-Controlled Contingency

This contract includes an owner-controlled contingency of \$200,000 (Two hundred thousand dollars) that may be applied to repairs and upgrades to the existing water and wastewater infrastructure at the Customer's discretion. These funds must be spent on projects for the Customer and any owner-controlled contingency funds

## Schedule 1

not utilized by substantial completion date will be forfeited. Any owner-control contingency not used for existing water and wastewater infrastructure can be applied elsewhere in this project.

Sewage Collection:

**Sewer Manhole Rehab – Infiltration**

JCI shall supply and install the following:

- (108) Manholes to be lined comprising of the following:
  - (13,556) Total Surface Area (sq. ft.)
  - (977) Total Vertical Feet (V-ft)
  - Work will be completed at the below locations during third shift

Manhole Identification	Manhole Identification
MH8569	MH8664
MH8645	MH8667
MH8647	MH8671
MH8659	MH8697

- First shift is defined as 8 am – 5pm
- Second shift is defined as 4pm – 1 am
- Third shift is defined as 11 pm – 7am
- Lining of the manholes will consist of the application of a multi-layer lining system that resists corrosion and stops infiltration and ex-filtration. The lining application would consist of the following sequential steps:
  1. Surface preparation by pressure washing the manholes to remove oil, grease and other contaminants that could affect adhesion. Manhole steps or run ladder would be removed following NASSCO Manhole Rehabilitation PSG (August 2025), Part 1.
  2. Leak elimination: Identify defects and apply a hydrophilic chemical group to stop active infiltration leaks and repair all leaks and severe cracks.
  3. Surface Priming: Utilize flow through plugs to keep material from entering the sewer system and to reach 1 inch below the normal flow level. Apply a primer.
  4. Liner Application: Apply multi-layer liner system in three layers to all surfaces, including chimney areas and benches. The invert of the manhole will not be lined.
    - The minimum liner system should be 500 mils in total:
      - The first barrier coat shall be a sprayable polymeric polyurea moisture barrier with a minimum thickness of 40 mils
      - The closed cell foam layer shall be a low viscosity flame-retardant polyurethane and polymeric blend foam with a minimum thickness of 400 mils
      - The second barrier coat shall be a sprayable polyurea final corrosion barrier with a minimum thickness of 60 mils.
  5. Applicator would check visually for any defects, confirm minimum liner thickness. Any deficiencies in the finished liner system would be marked and repaired according to the manufacturer.

6. Warranty: The liner system must be covered by a 10-year warranty issued by the manufacturer and applicator.
7. See Appendix 4 for documentation with survey list of sites.

- JCI will provide signage to block off the work area if the work is done during occupied hours. The City has indicated no additional traffic control is required.
- JCI will clear the area at the end of the workday and remove all waste associated with the installation.
- JCI will provide as-built documentation including items below
- JCI will provide Pre and Post installation pictures
- JCI will provide count and log of manhole inlets/outlets
- JCI will provide CSV file with updated information after completion of scope of work. Reference Appendix 4 – Manhole Survey.
- JCI will provide one time onsite training of repairs.

### Customer Responsibilities

- Provide potable water for pressure washing available to fill up from either hydrant or water fill station.
- Provide area for dumping and disposal of debris removed from manholes at wastewater treatment plant.
- Bypass pumping was discussed with the Customer. Customer will provide bypass pumping at required locations.
- Maintenance and operations of sewer system pre-implementation, post-implementation, and during implementation.
- Maintenance of manhole liner after installation.

### Warranty

- Reference Manhole Warranty Appendix 5

### Exclusions:

- Lining of invert.
- Labor to replace shut off valves or repair main water valves that do not close completely or that will not fully re-open.
- Permits, fees or process required by local or oversight jurisdiction and/or utilities or permits and upgrades triggered by other upgrades and renovation projects.
- Any stamped engineering plans.
- Any electrical service and or breaker upgrade unless otherwise noted.
- Installation of manhole steps and run ladder
- Any traffic control required during the installation.

**Rest lawn Cemetery:**

Irrigation Upgrade:

Existing Controllers are to be retrofit per chart below

- Provide and install (1) Rainbird LXME 2 irrigation controller per chart below.
- IQ Network System Software and Cloud Base Program Set Up one time at initial installation.
- Controller Programming and Set Up one time at initial installation.
- One year of cellular service included for controller communication.
- One (1) Rain Sensor.
- Four (4) hours one time System Training
- System repairs are excluded.

Building	Controllers (qty)	Controller	Rain/ Freeze Sensor	4G	Expansion Module	Weather Based Controller Replacement	Sensor Replacement (qty)	Proposed 4G Card (qty)	Proposed Expansion Module (qty)
RESTLAWN CEMETERY-LAWN	1	LXME 2	Yes	Yes	Yes	1	1	1	1

Hartshorn Marina:

Lighting:

Forty-eight (48) of the existing (78) seventy eight fixtures listed in the line by line survey below will be retrofitted or relamped as identified in the line by line scope FIM definition. Retrofit CFL fixtures with LED. Relamp incandescent with LED lamps. Retrofit 4' strip with LED. Some fixtures that are already LED will remain and are identified as "NR" / "no measure recommended" in the FIM definition in the survey. Refer to the line by line (LXL) below.

Facility Name	Room # or Unique Identifier	Room Type (Usage Group Description)	Existing Fix Qty	Existing Component Code	Qty Proposed	Strategy/Action	Exist System Wattage	ECM Definition	Proposed System Wattage	Existing Burn Hours	Proposed Burn Hours
Marina	Docks	Dock Pedestal Marina	34	1X7CFL2P	34		10	Retrofit with a Kit or Reflector - Bollard Fixture, Compact Fluorescent, twin, (1) 7W lampLED 2-Pin G24d Plug-In Lamp (Multiple LED s), (1) 6W, utilizing existing magnetic ballast for operation - RELAMP, 13LED2P	6,000	8,760	8,760
Hartshorn Marina	Offices	Open Office	3	1X24LEDF	3	NR	24	4' Industrial Fixture, LED Luminaire (Multiple LED s), 24W, with Separate or Integrated Driver Component - No Measure Recommended	24,000	1,890	1,890
Hartshorn Marina	Electrical Room	Mechanical/Electrical Rooms	1	1X6LEDSI	1	NR	6	Keyless Fixture, LED Screw-in Lamp, 6W, with Integrated Driver Component - No Measure Recommended	6,000	350	350
Hartshorn Marina	Electrical Room	Mechanical/Electrical Rooms	1	1X20CFLSI	1		20	Relamp - Keyless Fixture, Compact Fluorescent, (1) 20W screw-in lamp/base w/ permanent disk installed, any bulb shapeLight Emitting Diode (LED) Screw-in Lamp, 8W, with Integrated Driver Component, LEDSI-A19	8,000	350	350
Hartshorn Marina	Storage	Storage	1	1X9LEDSI	1	NR	9	Recessed Enclosed Fixture, LED Screw-in Lamp, 9W, with Integrated Driver Component - No Measure Recommended	9,000	350	350
Hartshorn Marina	Storage	Storage	1	4X40INCA	1		160	Relamp - Vanity Fixture, Incandescent, (4) 40W lampLight Emitting Diode (LED) Screw-in Lamp, 8W, with Integrated Driver Component, LEDSI-A19	32,000	350	350
Hartshorn Marina	Storage	Storage	1	4X40INCA	1		160	Relamp - Vanity Fixture, Incandescent, (4) 40W lampLight Emitting Diode (LED) Screw-in Lamp, 8W, with Integrated Driver Component, LEDSI-A19	32,000	350	350
Hartshorn Marina	Storage	Storage	1	1X9LEDSI	1	NR	9	Recessed Enclosed Fixture, LED Screw-in Lamp, 9W, with Integrated Driver Component - No Measure Recommended	9,000	350	350
Hartshorn Marina	Storage	Storage	1	1X40INCA	1		40	Relamp - Recessed Enclosed Fixture, Incandescent, (1) 40W lampLight Emitting Diode (LED) Screw-in Lamp, 8W, with Integrated Driver Component, LEDSI-A19	8,000	350	350
Hartshorn Marina	Showers	Restroom	1	1X20LEDF	1	NR	20	Drum Fixture, LED Luminaire (Multiple LED s), 20W, with Separate or Integrated Driver Component - No Measure Recommended	20,000	2,100	2,100
Hartshorn Marina	Showers	Restroom	1	1X20LEDF	1	NR	20	Drum Fixture, LED Luminaire (Multiple LED s), 20W, with Separate or Integrated Driver Component - No Measure Recommended	20,000	2,100	2,100
Hartshorn Marina	Showers	Restroom	1	1X20LEDF	1	NR	20	Drum Fixture, LED Luminaire (Multiple LED s), 20W, with Separate or Integrated Driver Component - No Measure Recommended	20,000	2,100	2,100
Hartshorn Marina	Showers	Restroom	1	1X20LEDF	1	NR	20	Drum Fixture, LED Luminaire (Multiple LED s), 20W, with Separate or Integrated Driver Component - No Measure Recommended	20,000	2,100	2,100
Hartshorn Marina	Showers	Restroom	1	1X20LEDF	1	NR	20	Drum Fixture, LED Luminaire (Multiple LED s), 20W, with Separate or Integrated Driver Component - No Measure Recommended	20,000	2,100	2,100
Hartshorn Marina	Showers	Restroom	1	1X20LEDF	1	NR	20	Drum Fixture, LED Luminaire (Multiple LED s), 20W, with Separate or Integrated Driver Component - No Measure Recommended	20,000	2,100	2,100
Hartshorn Marina	Boiler Room	Mechanical/Electrical Rooms	2	1X6LEDSI	2	NR	6	Keyless Fixture, LED Screw-in Lamp, 6W, with Integrated Driver Component - No Measure Recommended	6,000	350	350
Hartshorn Marina	Boiler Room	Mechanical/Electrical Rooms	2	2X40T12MB	2		62.2	Retrofit - 4' Strip Fixture, Fluorescent, (2) 60", STD lampLED Tube, (2) 48", 8.5W LED Tube, Line Voltage Type B Direct Wire NON-DIMMING, 4'LEDT-DW	16,000	350	350
Hartshorn Marina	Mens	Restroom	4	1X40T12MB	4		31.101	Retrofit - 4' Vanity Fixture, Fluorescent, (1) 40", STD lampLED Tube, (1) 48", 8.5W LED Tube, Line Voltage Type B Direct Wire NON-DIMMING, 4'LEDT-DW	8,500	2,100	2,100

## Schedule 1

Facility Name	Room # or Unique Identifier	Room Type (Usage Group Description)	Existing Fix Qty	Existing Component Code	Qty Proposed	Strategy/Action	Exist System Wattage	ECM Definition	Proposed System Wattage	Existing Burn Hours	Proposed Burn Hours
tshorn Mar	Mens	Restroom	3	2X10LEDT	3	NR	21	1x4 Layin Prismatic Fixture, LED Tube, (2) 24", 10W LED Tube, (Integrated Driver, Non-dimming, 5 Yr warranty) - No Measure Recommended	21,000	2,100	2,100
tshorn Mar	Mens	Restroom	1	1X5LEDSI	1	NR	5	Exit Sign (Red), LED Screw-in Lamp, 5W, with Integrated Driver Component - No Measure Recommended	5,000	2,100	2,100
tshorn Mar	Pipe chase	Mechanical/Electrical Rooms	1	1X6LEDSI	1	NR	6	Keyless Fixture, LED Screw-in Lamp, 6W, with Integrated Driver Component - No Measure Recommended	6,000	350	350
tshorn Mar	Womens	Restroom	4	1X40T12MB	4		31.101	Retrofit - 4" Vanity Fixture, Fluorescent, (1) 40", STD lampLED Tube, (1) 48", 8.5W LED Tube, Line Voltage Type B Direct Wire NON-DIMMING, 4"LEDT-DW	8,500	2,100	2,100
tshorn Mar	Womens	Restroom	3	2X10LEDT	3	NR	21	1x4 Layin Prismatic Fixture, LED Tube, (2) 24", 10W LED Tube, (Integrated Driver, Non-dimming, 5 Yr warranty) - No Measure Recommended	21,000	2,100	2,100
tshorn Mar	Womens	Restroom	1	1X5LEDSI	1	NR	5	Exit Sign (Red), LED Screw-in Lamp, 5W, with Integrated Driver Component - No Measure Recommended	5,000	2,100	2,100
tshorn Mar	Pipe chase	Mechanical/Electrical Rooms	1	1X6LEDSI	1	NR	6	Keyless Fixture, LED Screw-in Lamp, 6W, with Integrated Driver Component - No Measure Recommended	6,000	350	350
rn Marina	Exterior	Exterior	4	1X20LEDF	4	NR	20	Wall Mount Interior Fixture, LED Luminaire (Multiple LED s), 20W, with Separate or Integrated Driver Component - No Measure Recommended	20,000	4,380	4,380
rn Marina	Exterior	Exterior	2	2X9LEDSI	2	NR	18	Flood Fixture, LED (2) Screw-in Lamps, 9W, with Integrated Driver Component - No Measure Recommended	18,000	4,380	4,380

### Lighting Inclusions

- Material, labor, engineering, design, and recycling/disposal costs.
- Electrical permits and fees.
- Pricing assumes 100% access will be granted to facilities during the construction schedule. Keys, escort, and security clearance requirements will be provided in a timely manner.
- Work shall be performed in accordance with industry standards and approved safety practices. Professional performance by licensed, insured, and certified personnel skilled in lighting retrofit services.
- Lamps and ballasts removed as part of the work shall be recycled and/or disposed of in compliance with applicable regulations in effect at the time of contract signing.
- Work performed during standard 40-hour work week, Monday through Friday; weekends or overtime not included.
- Circuit breakers, contactors, switches/controls, existing fixtures, and the electrical system in general are assumed to be operational working order and compliant with current electrical code requirements.
- Johnson Controls shall be given ample notice for security clearance procedures required for access to any facility.
- Maintenance stock of 1.5% of lamps and kits only is included.
- If specified materials become either temporarily or permanently unavailable for reasons beyond the control of Johnson Controls, then the expected time for performance of the work will be extended or equipment listed may be modified based on equipment availability, procurement, price, shipping, customs, etc. Johnson Controls reserves the right to provide equivalent substitutions at no price increase.
- Where retrofits of existing fixtures are noted, the scope includes wiping down prismatic lenses with dry cloth.
- Warranties:
  - Labor Warranty – 1 year workmanship guarantee in accordance with the terms and conditions of the proposal from the date of acceptance by the Customer.
  - Material Warranties - Manufacturer warranties of lamps, retrofit kits, and fixtures installed as part of the project are covered by the individual manufacturer's published documentation. Johnson Controls will furnish contact information for each manufacturer. Alleged defective product may be required for return to factory for analysis.
- Design illumination levels: In the absence of code-mandated lighting requirements, industry standards have been used as a guide, primarily the most recent edition of the Illuminating Engineering Society of North America (IESNA), IESNA Recommended Practice documents and IESNA Design Guides.
- Existing lighting systems were presumed to be designed based on IESNA recommended practices. In the event current light levels are above IESNA recommendations for the space type (i.e., over-lit), light levels will be reduced. In the event light levels are below IESNA recommendations for the space type, JCI will

meet or exceed current light levels. If the space is under-lit due to an inadequate spacing or quantity of fixtures from initial design, which requires adding fixtures, adding circuits, reconfiguration, or new construction, this will be brought to the attention of the Customer. LED fixtures or components specified for the project are based on comparable original lumen outputs of existing equipment rather than depreciated light output values.

### Lighting Exclusions

- Stamped engineered drawings.
- Replacement or repair of existing dock pedestal.
- Existing dock pedestals will be re-used. Repair of wiring to or within pedestal, if required, is not included.
- Existing task lighting, equipment lighting, and table type light fixtures unless specified in the Line-by-Line (LxL).
- Removal or replacement of ceiling tiles unless specified in the LxL.
- Existing decorative and stage light fixtures unless noted in the LxL.
- The addition of lighting fixtures in areas with existing illumination deficiencies is not covered under this scope of work unless otherwise noted in the LxL. If foot-candle levels do not meet minimum standards, the Customer will be notified.
- Existing fluorescent dimming systems or fixtures will remain "as is" unless otherwise noted in the LxL.
- Reconfiguration of existing fixture layout unless otherwise noted in the LxL, room by room description of work.
- Replacement of existing wiring and/or electrical issues in exterior fixtures.
- Existing fixtures that are not in a well-maintained condition including, but not limited to, rusted or embrittled in a manner which would impede retrofit.
- Any electrical wiring other than that required for the retrofit or replacement within the existing lighting fixtures, the installation of new fixtures as scheduled, the installation of occupancy sensors and other controls.
- Double or bi-level switching of in-board and out-board sockets is not included unless specified in the LxL.
- Repair, replacement and adjustments of existing sensors, time clocks, switches or energy management systems unless otherwise noted in the LxL.
- Calibration or adjustment of the lighting control devices post installation. JCI will set controls to the agreed upon settings at time of installation.
- Repair or replacement of louvers or other components unless denoted in the LxL.
- Repair or replacement of yellowed, cracked, damaged or missing fixture lenses, louvers or other components unless denoted on the Johnson Controls line by line scope of work.
- Repair or replacement of the existing Emergency and Egress Lighting Systems unless otherwise noted in the LxL.
- Replacement of defective emergency battery back-up ballast unless otherwise noted in the LxL.
- No work can be performed in asbestos contaminated areas. If asbestos is present, the scope of work may have to be adjusted unless the asbestos is abated by the Customer.
- Unless specified in the scope of work, no provisions are made to ensure that the light levels will comply with existing surveillance camera requirements. Proposed light levels will meet or exceed the current light levels of the exterior fixtures.
- Replacement of existing lighting sockets and ballast unless otherwise noted.
- Correction or repair of electrical system deficiencies such as grounding or any NFPA, NEC, or Local Code deficiencies unless provided for in the scope.
- Painting, plastering or any other type of repair to existing mounting surfaces after the removal or replacement of fixtures, unless otherwise noted.
- Work in areas that could not be reasonably documented during the audit (i.e., concealed locations or hidden conditions) are not included.
- Work in buildings or areas not specifically indicated on the line-by-line scope of work is excluded. Should Customer desire additional areas, buildings, or campuses added into the program, Johnson Controls will provide a written estimate for change order.

**Domestic Water Heater Replacement:**

Provide and install Two (2) new Navien NPE-240A2 on demand tankless water heaters.

**Scope**

- Demolish (1) existing Lochinvar boiler, piping, electrical wiring and dispose of demolished materials.
- Remove vent breeching and cap at connection as needed in the mechanical room.
- Exhaust flues will be direct vent through the mechanical per manufacturer specifications.
- Install (2) new Navien NPE-240A2 tankless water heaters in same area where the existing boiler was removed.
- Provide and install water piping as required for a complete operating system.
- Provide and install gas piping to new water heaters.
- Provide and install new venting per manufactures specifications.
- Provide and install intake per manufactures specifications.
- Furnish and install new drain piping with neutralizer from each water heater to existing floor drain.
- Provide and install pipe insulation on new water piping.
- Provide and install electrical wiring to new water heaters.

**Parks:**

Irrigation Controller Upgrade:

Existing Controllers are to be retrofit per chart below

- Provide and install (5) Rainbird LXME 2 irrigation controllers per chart below.
- IQ Network System Software and Cloud Base Program Set Up one time at initial installation.
- Controller Programming and Set Up one time at initial installation.
- One year of cellular service included for controller communication.
- Five (5) Rain Sensors.
- Four (4) hours one time System Training
- System repairs are excluded.

Building	Controllers (qty)	Controller	Rain/ Freeze Sensor	4G	Expansion Module	Proposed Weather Based Controller Replacement (qty)	Proposed Rain Sensor Replacement (qty)	Proposed 4G Card (qty)	Proposed Expansion Module (qty)
CITY OF MUSKEGON - Seyferth	1	LXME 2	Yes	Yes	Yes	1	1	1	1
MARSH FIELD - Ball Field	1	LXME 2	Yes	Yes	Yes	1	1	1	1
PARKS - Terrace and Shoreline	1	LXME 2	Yes	Yes	Yes	1	1	1	3
HACKLEY PARK	1	LXME 2	Yes	Yes	Yes	1	1	1	1
PARKS - Mart and Shoreline	1	LXME 2	Yes	Yes	Yes	1	1	1	1

**General Conditions, Mechanical, Electrical and Controls Scope of Work Exclusions:**

- Supplying safety or security escorts;
- Environmental permits, JCI will assist the Customer in applying for permits if so required;
- Any information previously released either verbally or in writing shall be deemed preliminary and shall not bind JCI in any manner;
- Resolution of existing design, service, and or distribution conditions known or unknown;
- All work will be performed during normal work hours unless stated otherwise, there is no premium time included unless otherwise noted in the FIM Scope of Work;
- Temporary cooling, heating, power, or plumbing required to perform the work will utilize the Customer's utilities unless noted otherwise in the FIM Scope of Work;
- Correction of any existing applicable building code violations and Federal Americans with Disabilities Act (ADA) violations identified by JCI during the execution of the Work. Such violations will be brought to the attention of the Customer for remedy;
- The Customer is responsible for timely scheduled shutdowns as required for JCI to complete the Scope of Work;
- Hazardous material abatement or removal, such as but not limited to asbestos, lead paint mold/mildew, etc. unless noted otherwise in the FIM Scope of Work;
- Temporary space conditioning, water, or power unless otherwise identified in a FIM Scope of Work;
- Test and balance of existing air and water HVAC systems unless otherwise noted in a specification FIM Scope of Work;
- Duct cleaning and coil cleaning unless otherwise identified in a FIM Scope of Work;
- Duct work repair and/or replacement for HVAC units will be limited to the confines of the mechanical room unless otherwise identified in a FIM Scope of Work;
- Any building system design issues not related to the FIM Scope of Work is the responsibility of the Customer unless noted otherwise in the FIM Scope of Work;
- Disabling or disconnecting active devices from an existing fire alarm system, furnishing intelligent fire devices, fire system testing or programming. Unless otherwise noted in the scope of work, this work is the responsibility of the Customer as it must be coordinated and scheduled through maintenance personnel and the fire alarm contractor;
- The fire alarm smoke detectors and fire/smoke damper system(s) hardware shall be connected to the existing fire alarm panels, any require upgrades to the existing panels shall be the Owner's responsibility;
- All fire sprinkler upgrades/modifications (i.e. risers, stand pipes, and fire pumps) required to support the mechanical rooms sprinkler systems in this scope of work shall be the responsibility of the owner, including testing, commissioning and permitting of the system;
- Repair or replacement of defective mechanical, controls, and electrical equipment and electrical distribution system, except the equipment described in the Scope of Work (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer);
- Repairs/replacement of insulation, piping, electrical or ductwork found to be corroded or rusted or otherwise unacceptable for installation of components or fittings required for installation other than what is specified in the Scope of Work;
- The scope of work does not include the repair or installation of any structural systems.
- The scope of work does not include the repair or installation of any roofs.

## Schedule 1

- JCI does not anticipate and has not included any hard digging (I.E. no blasting or rock removal). All trenching to be performed by normal means (Case 580 backhoe). Should additional means of excavation be required then JCI shall notify the Owner to mitigate or address at additional cost;
- Providing Ethernet ports for buildings or any infrastructure hardware/software needed to connect the building to the base IT network, Connection to the Owners Wide-Area Network to be coordinated with Client's IT Services;
- The Owner will provide, free of charge, high-speed Internet connections and the required Virtual Private Network (VPN) services to the Contractor, for monitoring, tuning, and making system changes to the building automation system connected to the HVAC Systems or Equipment;
- Phone line use or new fiber installation, if required;
- Non-Johnson Controls software upgrades (such as Microsoft, Norton Antivirus, etc.) for the Customer's front-end unless otherwise noted in the Scope of Work;
- Ongoing annual fees associated with licenses and access fees including, but not limited to cell phone fees, software license, annual boiler inspections, others

**Lighting Scope of Work Exclusions:**

- Lighting fixtures not identified in the FIM Scope of Work are excluded from any repair or replacement scope;
- Reconfiguration of existing lighting system layout, except where noted herein;
- Conformance to IESNA standards if the existing layout does not comply with same;
- Repair, replacement, or calibration of damaged or defective motion sensors, time clocks, switches, breakers, and wiring unless otherwise noted in the Scope of Work;
- Repair, replacement or upgrade of existing indoor or exterior emergency and/or egress lighting system unless otherwise noted in the Scope of Work;
- Replacement of defective emergency battery backup ballasts unless otherwise noted the Scope of Work;
- Repair or upgrades required to rectify existing lighting or electrical system code violations unless specifically described in this scope of work
- Repair or replacement of cracked, broken, missing, yellowed, or damaged fixture lenses or louvers unless otherwise noted in the Scope of Work;
- Lighting Exterior Pole Lighting
  - a. Existing light poles will be re-used. Repair of wiring to poles, if required, is not included.
  - b. Pole mounted lighting is reusing existing poles. Customer is responsible for pole maintenance, repair and replacement throughout the term of the guarantee.
  - c. Lighting Poles will be checked for contact voltage. If any hazardous voltage is noted, work on that pole will be stopped and the Customer and/or the utility company be notified immediately to correct the fault before any work will be performed.
  - d. Repair or replacement of defective equipment, other than the equipment specifically described above. Johnson Controls will identify the location of defective equipment and notify the owner.

**Water Conservation Scope of Work Exclusions:**

- Repair or replacement of defective piping, isolation valves, or plumbing fixtures is not included unless otherwise specified in the Scope of Work;
- Repair or replacement of inoperable or leaking cold water riser or isolation valves or repair or replacement of inoperable or leaking hot water circulating valves unless otherwise specified in the Scope of Work;
- Tile work, flange repairs, wall mount broken carriers, commercial angle-stop replacement, and floor or wall repairs are not included unless otherwise specified in the Scope of Work;
- Repair of existing damaged areas, such as re-tiling and painting.
- Installation beyond the plumbing fixtures described in the scope of work contained herein
- Repair of existing faucets, sinks, shower handles, valves and sink basins or leaks
- Replacement of angle stops for valves being retrofit (not replaced).
- Repair of pre-existing water damaged floors, walls and ceilings
- Replacement or modification of existing floor and wall coverings
- Any and all ADA bathroom partitions, grab bars, extensions, sink faucet actuators, piping insulation, or other ADA requirements are hereby excluded from this proposal. JCI does not take responsibility for any existing or future ADA compliance issues and if required to modify bathrooms or fixtures to meet an ADA code this will be completed for an additional cost.

**Building Envelope Scope of Work Exclusions:**

- Repair or replacement of existing exterior doors and windows is excluded in this scope of work other than as described in scope. If any doors are found to be inoperable, or windows are found to be broken, JCI will report the deficiency to the Customer for repair or replacement prior to JCI retrofitting the seals.
- Repair or replacement of existing brick, masonry block or split face block is excluded in this scope of work.
- Repair or replacement of existing attic space including rafters, roof decking, ceiling or roof areas
- Modifications required to due to existing code violations, including but not limited to the Americans with Disabilities Act (ADA) and egress, are the responsibility of the Customer.
- Cutting, patching, sealing and painting other than as described in the FM scope is excluded.
- The scope of work does not include the repair or installation of windows or doors except as described in the FIM scope.
- The scope of work does not include the repair or installation of any structural systems.

**TRAINING / WARRANTY**

- Includes (8) hours of on-site owner/operator training in accordance with specifications.
- Includes warranty for (1) years from the date of owner's acceptance of a certificate of substantial completion.

**CLARIFICATIONS:**

- Includes Johnson Controls Metasys® BACnet® network automation engine, field equipment controllers, and network sensors.
- Includes supply of electric control valves with fail last position actuators (non-spring return).
- Includes project management, engineering, and programming/commissioning.
- This proposal shall be included within any contract terms and conditions.
- Pricing is based on normal working hours (Monday - Friday) No overtime work is included in the above pricing.
- All control wiring will be in EMT conduit for interior exposed locations, rigid conduit exterior and in the plenum-rated cable where Applicable by code.
- Retrofit work may require new conduit and wiring and/or reuse of existing controls in some areas.
- This quote includes estimated sales tax only. Any additional taxes, duties, tariffs or similar items imposed prior to shipment will be charged.

**EXCLUSIONS (OTHER):**

- Furnishing of any control valves unless noted in the scope above.
- Furnishing of any control damper unless noted in the scope above.
- Furnishing of any electric meter, water meter, and gas meter unless noted in the scope above.
- Furnishing, installation, and power wiring of VFDs. Control wiring included in scope above.
- Furnishing, installation, and wiring of smoke detectors, smoke dampers, combination fire/smoke dampers, fire dampers, and associated actuators and wiring unless noted in scope above.
- Furnishing, installation and wiring of Lighting Controls.
- Installation of dampers, airflow measuring stations, valves, immersion wells, pressure taps, or flow meters as listed in the above scope of work.

## Schedule 1

- After hours, weekend, or holiday work
- Any 120V wiring unless noted in the scope above.
- Test & Balance Coordination.
- The Customer shall provide local building (LAN) and citywide network (WAN) connectivity support and physical network switch ports at City Hall and Water Filtration Plants. JCI shall provide and install network cabling from Customer's network switch to new supervisory panels.

**Attachment A - SAMPLE escalating AMORTIZATION**

Compounding Period:           Semiannual

Nominal Annual Rate:           4.750%

**Cash Flow Data - Loans and Payments**

	Event	Date	Amount	Number	Period	End Date
1	Loan	07/17/2026	43,296,839.00	1		
2	Payment	10/01/2027	1,801,206.00	2	Semiannual	04/01/2028
3	Payment	10/01/2028	1,471,687.00	2	Semiannual	04/01/2029
4	Payment	10/01/2029	1,507,006.00	2	Semiannual	04/01/2030
5	Payment	10/01/2030	1,541,910.00	2	Semiannual	04/01/2031
6	Payment	10/01/2031	1,577,755.00	2	Semiannual	04/01/2032
7	Payment	10/01/2032	1,649,573.00	2	Semiannual	04/01/2033
8	Payment	10/01/2033	1,652,396.00	2	Semiannual	04/01/2034
9	Payment	10/01/2034	1,691,255.00	2	Semiannual	04/01/2035
10	Payment	10/01/2035	1,731,182.00	2	Semiannual	04/01/2036
11	Payment	10/01/2036	1,098,011.00	2	Semiannual	04/01/2037
12	Payment	10/01/2037	1,813,574.00	2	Semiannual	04/01/2038
13	Payment	10/01/2038	1,856,051.00	2	Semiannual	04/01/2039
14	Payment	10/01/2039	1,899,683.00	2	Semiannual	04/01/2040
15	Payment	10/01/2040	1,944,505.00	2	Semiannual	04/01/2041
16	Payment	10/01/2041	1,990,554.00	2	Semiannual	04/01/2042
17	Payment	10/01/2042	2,037,873.00	2	Semiannual	04/01/2043
18	Payment	10/01/2043	2,086,502.00	2	Semiannual	04/01/2044
19	Payment	10/01/2044	2,136,484.00	2	Semiannual	04/01/2045
20	Payment	10/01/2045	2,187,863.00	2	Semiannual	04/01/2046
21	Payment	10/01/2046	2,387,467.90	2	Semiannual	04/01/2047

**TValue Amortization Schedule - Normal, 360 Day Year**

	Date	Payment	Interest	Principal	Balance
Loan	07/17/2026				43,296,839.00
1	10/01/2027	1,801,206.00	2,536,061.08	-734,855.08	44,031,694.08
2	04/01/2028	1,801,206.00	1,045,752.73	755,453.27	43,276,240.81
3	10/01/2028	1,471,687.00	1,027,810.72	443,876.28	42,832,364.53
4	04/01/2029	1,471,687.00	1,017,268.66	454,418.34	42,377,946.19
5	10/01/2029	1,507,006.00	1,006,476.22	500,529.78	41,877,416.41
6	04/01/2030	1,507,006.00	994,588.64	512,417.36	41,364,999.05
7	10/01/2030	1,541,910.00	982,418.73	559,491.27	40,805,507.78
8	04/01/2031	1,541,910.00	969,130.81	572,779.19	40,232,728.59
9	10/01/2031	1,577,755.00	955,527.30	622,227.70	39,610,500.89
10	04/01/2032	1,577,755.00	940,749.40	637,005.60	38,973,495.29
11	10/01/2032	1,649,573.00	925,620.51	723,952.49	38,249,542.80
12	04/01/2033	1,649,573.00	908,426.64	741,146.36	37,508,396.44

## Attachment A - SAMPLE escalating AMORTIZATION

13	10/01/2033	1,652,396.00	890,824.42	761,571.58	36,746,824.86
14	04/01/2034	1,652,396.00	872,737.09	779,658.91	35,967,165.95
15	10/01/2034	1,691,255.00	854,220.19	837,034.81	35,130,131.14
16	04/01/2035	1,691,255.00	834,340.61	856,914.39	34,273,216.75
17	10/01/2035	1,731,182.00	813,988.90	917,193.10	33,356,023.65
18	04/01/2036	1,731,182.00	792,205.56	938,976.44	32,417,047.21
19	10/01/2036	1,098,011.00	769,904.87	328,106.13	32,088,941.08
20	04/01/2037	1,098,011.00	762,112.35	335,898.65	31,753,042.43
21	10/01/2037	1,813,574.00	754,134.76	1,059,439.24	30,693,603.19
22	04/01/2038	1,813,574.00	728,973.08	1,084,600.92	29,609,002.27
23	10/01/2038	1,856,051.00	703,213.80	1,152,837.20	28,456,165.07
24	04/01/2039	1,856,051.00	675,833.92	1,180,217.08	27,275,947.99
25	10/01/2039	1,899,683.00	647,803.76	1,251,879.24	26,024,068.75
26	04/01/2040	1,899,683.00	618,071.63	1,281,611.37	24,742,457.38
27	10/01/2040	1,944,505.00	587,633.36	1,356,871.64	23,385,585.74
28	04/01/2041	1,944,505.00	555,407.66	1,389,097.34	21,996,488.40
29	10/01/2041	1,990,554.00	522,416.60	1,468,137.40	20,528,351.00
30	04/01/2042	1,990,554.00	487,548.34	1,503,005.66	19,025,345.34
31	10/01/2042	2,037,873.00	451,851.95	1,586,021.05	17,439,324.29
32	04/01/2043	2,037,873.00	414,183.95	1,623,689.05	15,815,635.24
33	10/01/2043	2,086,502.00	375,621.34	1,710,880.66	14,104,754.58
34	04/01/2044	2,086,502.00	334,987.92	1,751,514.08	12,353,240.50
35	10/01/2044	2,136,484.00	293,389.46	1,843,094.54	10,510,145.96
36	04/01/2045	2,136,484.00	249,615.97	1,886,868.03	8,623,277.93
37	10/01/2045	2,187,863.00	204,802.85	1,983,060.15	6,640,217.78
38	04/01/2046	2,187,863.00	157,705.17	2,030,157.83	4,610,059.95
39	10/01/2046	2,387,467.90	109,488.92	2,277,978.98	2,332,080.97
40	04/01/2047	<u>2,387,467.90</u>	<u>55,386.93</u>	<u>2,332,080.97</u>	0.00
<b>Grand Totals</b>		<b>72,125,075.80</b>	<b>28,828,236.80</b>	<b>43,296,839.00</b>	

## Attachment B – Project Savings Cash Flow

	Measured Savings			Non-Measured (Stipulated) Savings						
	Utility Savings	Meter Benefit	Total	Utility Savings	Right Type Meter Benefit	I&I, leak detection, sales tax, no & low use	Operational Savings	Rebates (Not Guarante	Capital Avoidance	Total
Year 1	\$ 6,136	\$ 145,687	\$ 151,823	\$ 36,657	\$ 9,009	\$ 14,653	\$ 257,866	\$ 17,626	\$ 977,728	\$ 1,313,539
Year 2	\$ 6,443	\$ 153,675	\$ 160,118	\$ 38,489	\$ 9,279	\$ 17,333	\$ 265,601	\$ -	\$ 272,760	\$ 603,463
Year 3	\$ 6,765	\$ 162,070	\$ 168,835	\$ 40,414	\$ 9,558	\$ 20,306	\$ 273,570	\$ -	\$ 277,943	\$ 621,790
Year 4	\$ 7,103	\$ 170,893	\$ 177,996	\$ 42,435	\$ 9,844	\$ 20,631	\$ 281,777	\$ -	\$ 283,281	\$ 637,968
Year 5	\$ 7,459	\$ 180,165	\$ 187,624	\$ 44,556	\$ 10,140	\$ 20,970	\$ 290,230	\$ -	\$ 288,780	\$ 654,675
Year 6	\$ 7,831	\$ 189,910	\$ 197,741	\$ 46,784	\$ 10,444	\$ 21,322	\$ 298,937	\$ -	\$ 294,443	\$ 671,929
Year 7	\$ 8,223	\$ 200,154	\$ 208,377	\$ 49,123	\$ 10,757	\$ 21,688	\$ 307,905	\$ -	\$ 300,276	\$ 689,749
Year 8	\$ 8,634	\$ 210,921	\$ 219,555	\$ 51,579	\$ 11,080	\$ 22,068	\$ 317,143	\$ -	\$ 306,285	\$ 708,155
Year 9	\$ 9,066	\$ 222,240	\$ 231,306	\$ 54,158	\$ 11,412	\$ 22,464	\$ 326,656	\$ -	\$ 312,473	\$ 727,164
Year 10	\$ 9,519	\$ 234,139	\$ 243,658	\$ 56,866	\$ 11,755	\$ 22,876	\$ 336,456	\$ -	\$ (1,029,561)	\$ (601,608)
Year 11	\$ 9,995	\$ 245,018	\$ 255,013	\$ 59,710	\$ 12,107	\$ 23,304	\$ 346,550	\$ -	\$ 325,413	\$ 767,083
Year 12	\$ 10,495	\$ 256,419	\$ 266,914	\$ 62,695	\$ 12,470	\$ 23,749	\$ 356,946	\$ -	\$ 332,175	\$ 788,036
Year 13	\$ 11,020	\$ 268,368	\$ 279,388	\$ 65,830	\$ 12,845	\$ 24,212	\$ 367,655	\$ -	\$ 339,140	\$ 809,682
Year 14	\$ 11,571	\$ 280,892	\$ 292,463	\$ 69,121	\$ 13,230	\$ 24,694	\$ 378,685	\$ -	\$ 346,315	\$ 832,045
Year 15	\$ 12,149	\$ 294,020	\$ 306,169	\$ 72,577	\$ 13,627	\$ 25,195	\$ 390,045	\$ -	\$ 353,704	\$ 855,148
Year 16	\$ 12,757	\$ 307,783	\$ 320,540	\$ 76,206	\$ 14,036	\$ 25,716	\$ 401,746	\$ -	\$ 361,315	\$ 879,018
Year 17	\$ 13,394	\$ 322,214	\$ 335,608	\$ 80,017	\$ 14,457	\$ 26,257	\$ 413,798	\$ -	\$ 369,155	\$ 903,684
Year 18	\$ 14,064	\$ 337,347	\$ 351,411	\$ 84,017	\$ 14,890	\$ 26,821	\$ 426,213	\$ -	\$ 377,229	\$ 929,171
Year 19	\$ 14,767	\$ 353,217	\$ 367,984	\$ 88,218	\$ 15,337	\$ 27,407	\$ 438,999	\$ -	\$ 385,546	\$ 955,507
Year 20	\$ 15,506	\$ 369,862	\$ 385,368	\$ 92,629	\$ 15,797	\$ 28,016	\$ 452,169	\$ -	\$ 394,113	\$ 982,724
	<b>\$ 202,898</b>	<b>\$ 4,904,994</b>	<b>\$ 5,107,892</b>	<b>\$ 1,212,084</b>	<b>\$ 242,073</b>	<b>\$ 459,680</b>	<b>\$ 6,928,946</b>	<b>\$ 17,626</b>	<b>\$ 5,868,513</b>	<b>\$ 19,076,192</b>