

PHASE II – PUMP STATION PERMANENT STANDBY GENERATORS

Bundle 1, Bundle 2 & Bundle 3 Design-Build (DB)
Projects
Statewide

Michigan Department of Transportation

September 7, 2023

Autumn Driving Safety Tips

- **Make adjustments for the light.** Did you know that we lose a minute of daylight every day until the clocks are set back in November? Fewer hours of daylight make it more difficult to see pedestrians, cyclists and children playing in the late afternoon. Also, later sunrises mean that drivers need to adjust to the brighter sun at different times of the morning. Always keep a pair of sunglasses in your car to shield your vision.
- **Avoid driving over wet leaves.** Fall foliage is beautiful but once those leaves start falling and get wet from rain, they can become a serious driving hazard. Wet leaves are slippery and reduce traction.
- **Don't veer for deer.** If a crash with a deer is unavoidable, remember don't swerve. Be sure to brake firmly and hold onto the steering wheel with both hands. Come to a controlled stop and move the vehicle out of traffic to a safe location.
- **Prepare an emergency kit for your car.** Carrying an emergency kit in your car trunk or cargo area can be a real lifesaver. Be sure to include a flashlight, flares and a first-aid kit, jumper cables, extra washer fluid, nonperishable food, a jug of water, and a few basic tools such as wrenches, a ratchet/socket set, screwdrivers, and pliers.
- **Watch for frost.** Low nighttime temperatures cause frost on windshields and roads. Be sure to clear your windshield completely before driving. Also, slow down when approaching bridges and overpasses, as these structures are more prone to collect frost on the roadway surface. Stay alert for shaded areas that could create black ice during early morning and evening hours.
- **Plan ahead for changing weather conditions.** Have your car winterized before the winter storm season sets in. Keeping your car in good condition decreases your chance of being stranded in cold weather. Also, be sure to have a first-aid kit, thermal blanket, a working flashlight, a shovel and sand in your car.
- **Watch for construction work zones.** Construction work zones may still be active. Consult MDOT's [Mi Drive traffic Web site](#) to plan your route. Please remember to slow down and pay attention in work zones. The life you save could be your own.

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Safety Minute and Introductions



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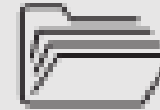
Project Location



4-6

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Project Summary



7-10

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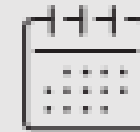
Project Coordination



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Project Schedule



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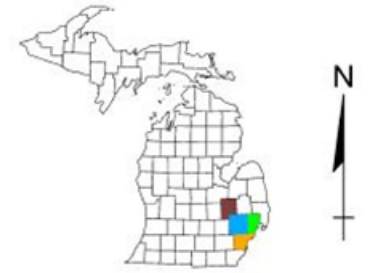
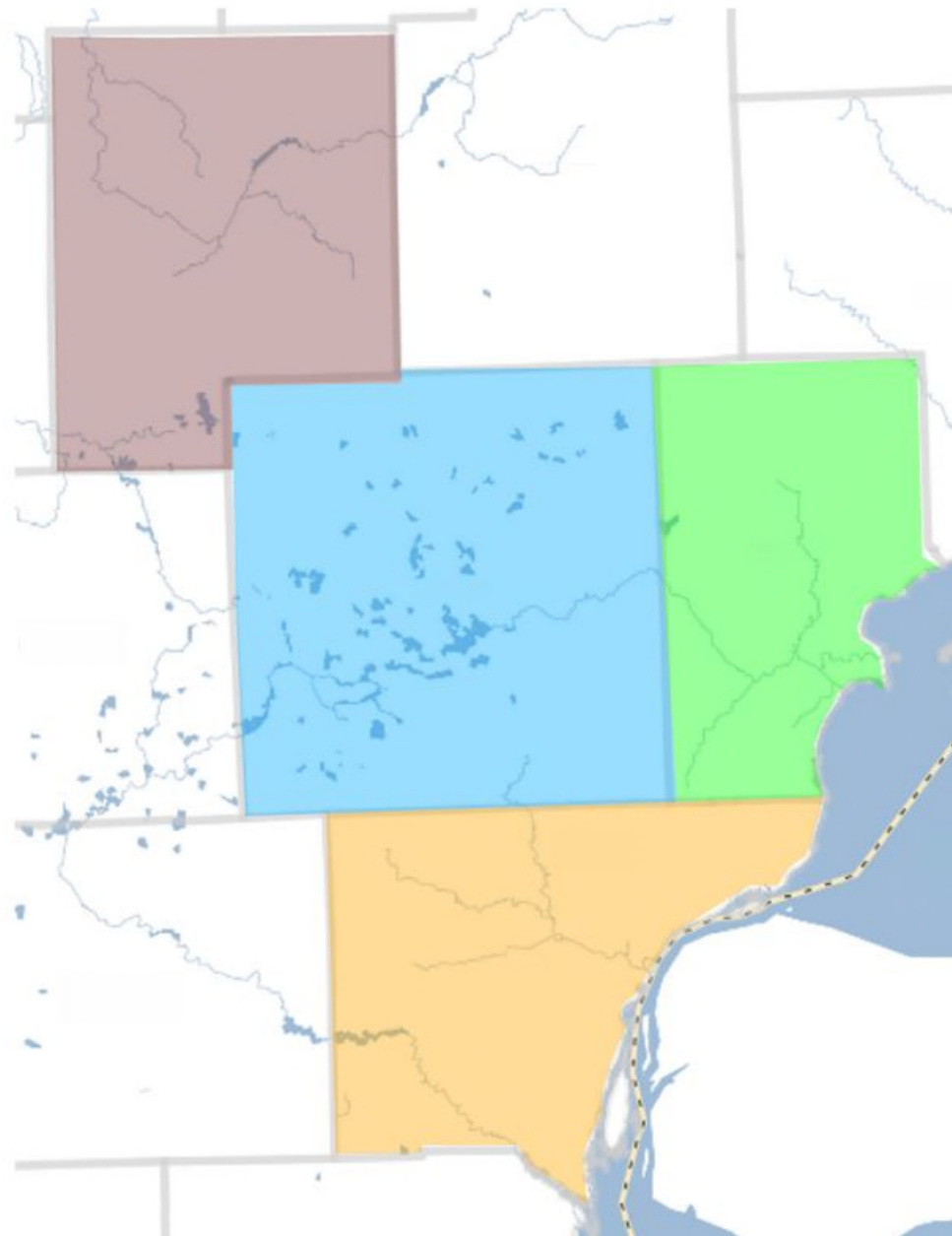
Pre-Quals/DBE Goal



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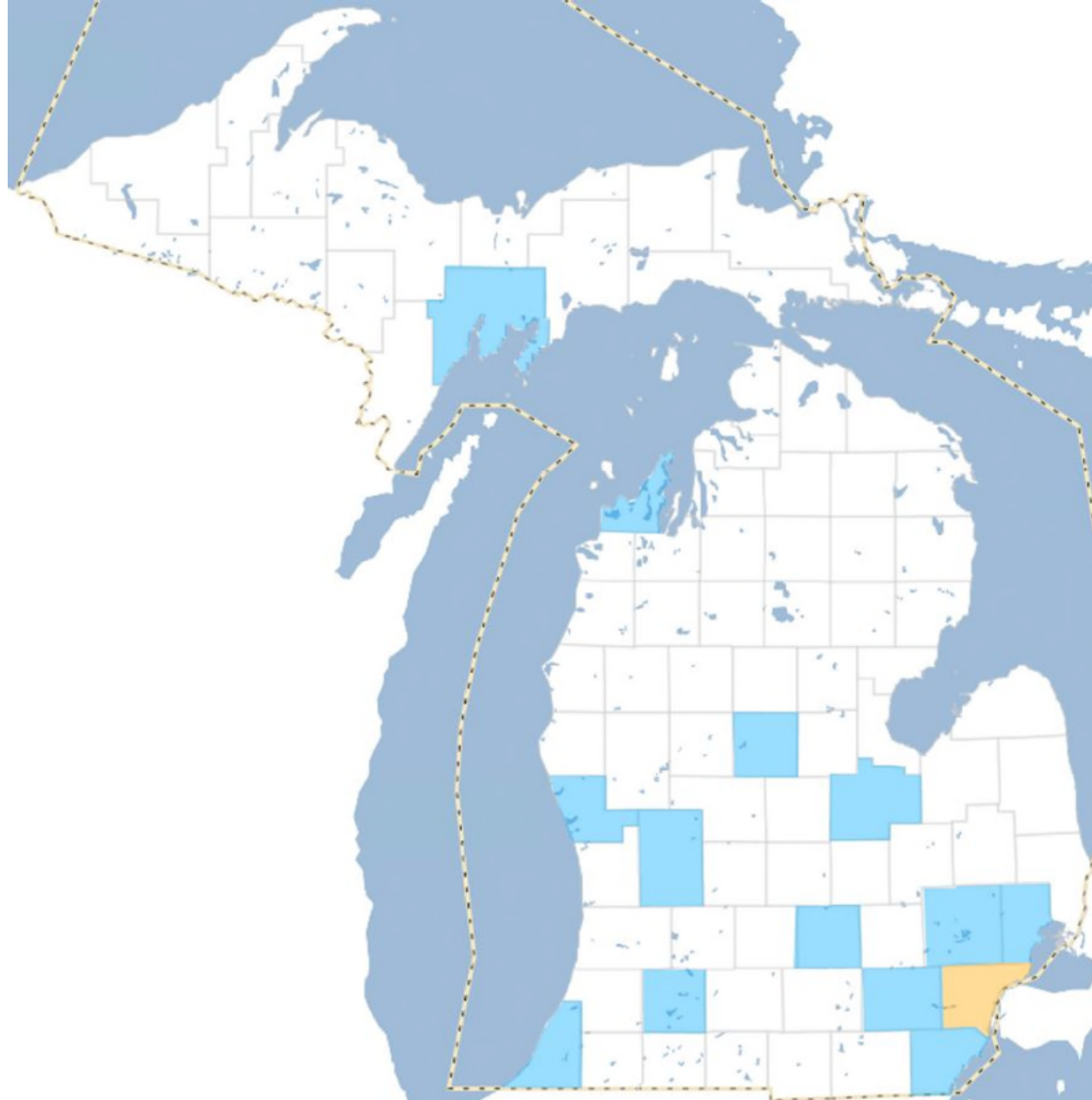
Bundle 2



LEGEND

-  Oakland County:
0 to 5 pump
station sites
-  Macomb County:
0 to 5 pump
station sites
-  Wayne County:
35 to 45 pump
station sites
-  Genesee County:
0 to 5 pump
station sites

Bundle 3



LEGEND

- Statewide:
15 to 30 pump
station sites
across 13
counties
- Wayne County:
15 to 25 pump
station sites



For each project (bundle), install permanent standby generators at up to 55 pump station sites



There will be three separately let projects. Bundle 1 and 2 will be fixed price variable scope primarily be in the Metro Region.



Two-Step low bid solicitation. RFQ anticipated to be issued in September will be for Bundle 1 and 2.



Procurement and installation timeframe is the primary concern



Installation of permanent standby generators and ancillary equipment



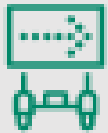
Installation of associated leveling pad and ancillary infrastructure, including retaining walls, protective & secure enclosures



Significant utility coordination for addressing conflicts and coordinating the installation of natural gas service



Minor work – site improvements and landscape restoration



Maintain traffic using shoulder closures or short term one-lane closures

Procurement of Generators and ATS: Long lead times for these items is a concern, in particular for the larger generators.

Utility Coordination: Utility conflicts may require revisions to the design-builder's design.

Gas Installation Coordination: Significant coordination with utility companies for installation of natural gas service to the generator. Anticipate some locations will utilize an alternate fuel source.



LARA: Electrical and mechanical permits will be needed and final inspection will be performed by LARA.

Site Integration: The generator installations will need to be integrated into the existing SCADA system and will require coordination.

ROW Permit: Utility Design-Builder will be required to apply for and obtain the necessary permits within each road owner's jurisdiction. Since the project spans multiple cities, multiple ROW permit will be needed.

Construction Completion Date: All construction work in Bundle 1 and 2 must be completed and all invoices paid prior to 12/31/2026.



Road Project Coordination

- Various projects are on-going within the Metro Region and statewide. Coordination will be needed for lane closures and detours.

Utility Coordination – Gas Companies

- Coordination with utilities is on-going
- Requests for location information

Utility Coordination – General

- Design-build team required to develop utility conflict matrix



Bundle 1



Bundle 2



Bundle 3 – Schedule TBD





**Anticipated
Construction
Pre-qualifications:**

27500 Fd or
27500 L

**Subclassification
Required:**
Not anticipated



**Design Services
Pre-qualifications:**

Design – Utilities:
Pump Stations

*Design – Roadway

*Design – Hydraulics II

*Design – Geotechnical:
Advanced

*Design – Traffic:
Signing – Freeway

*Design – Traffic: Work
Zone Maintenance
of Traffic

*Surveying: Road
Design & Right of Way

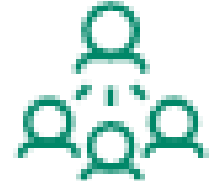


**Disadvantage
Business Enterprise
(DBE) Goal:**

Bundle 1 - 0%

Bundle 2 - 0%

Bundle 3 - TBD



Key Staff:

Project Manager

Project Supervisor

Electrical Lead Supervisor

Construction Quality
Control Manager

Design Manager

Lead Electrical Engineer

Lead Integration Engineer

Lead Maintenance of Traffic
Engineer

Lead Geotechnical Engineer



Pump Station Generator Industry Forum – Questions and Answers

Q1: Is there going to be a site priority list established for Bundle 1?

A1: Yes. This will be included in the Request for Proposals (RFP).

Q2: Will there be a separate RFQ for Bundle 3?

A2: Yes.

Q3: Are you going to have specific requirements for acceptable generator vendors and warranties?

A3: Yes. Requirements will be included in the RFP.

Q4: And will the generator vendor need to be identified at the RFQ stage?

A4: No.

Industry Forum for Pump Station Generator Phase II (Design-Build)

Meeting Attendee List

Thursday, September 7, 2023 9:00 AM - 10:00 AM

Microsoft Teams Meeting

Corey Hackworth – AECOM

Peter Kropf – J. Ranck Electric

John Condie – Fishbeck

Mark Chaput – Fishbeck

Megan Skelton – MDOT, Detroit TSC

James A. Stankiewicz – AECOM

Steve Minton – MDOT Innovative Contracting

Craig Merritt – Rauhorn Electric

Blake Zapczynski – Z Contractors

Ken Wells – Wade Trim

Divya Iyer – MDOT Detroit TSC

Jason Bodell – MDOT TSMO Maintenance

Kevin Anderson – Z Contractors

Michael Roskelley – HRC

Scott Finkbeiner – Rauhorn Electric

Ryan Wood – J. Ranck Electric

John Kersaan – Grand River Construction

Dave Becker – Grand River Construction

Joel Harkema – MDOT Metro Region Operations

Andrea Wilcox – MDOT Detroit TSC

Ishrat Jahan – MDOT Metro Region Operations

Melissa Townsend – J. Ranck Electric

Jon O'Brock – Materials Testing Consultants (Geotechnical)

Richard Fosgitt – Clark Construction

Keith Simons – Fishbeck

Robert Hentkowski – Dan's

Todd Spina – Rauhorn Electric

Todd Munger – Materials Testing Consultants

Jennifer Farrell – MDOT Metro Region Analyst, Operations

Billy Bowbin – AECOM

Stan Richard – Integral Blue