

CHECKLIST TO DESIGNATE AREAS OF EVALUATION FOR REQUESTS FOR PROPOSAL (RFP)

MDOT PROJECT MANAGER			JOB NUMBER (JN)	CONTROL SECTION (CS)
DESCRIPTION				
MDOT PROJECT MANAGER: Check all items to be included in RFP WHITE = REQUIRED GRAY SHADING = OPTIONAL			CONSULTANT: Provide only checked items below in proposal	
Check the appropriate Tier in the box below				
TIER I (\$25,000-\$99,999)	TIER II (\$100,000-\$250,000)	TIER III (>\$250,000)		
			Understanding of Service	
			<i>Innovations</i>	
			<i>Safety Program</i>	
N/A			Organizational Chart	
			Qualifications of Team	
			Past Performance	
Not required As part of Official RFP	Not required As part of Official RFP		Quality Assurance/Quality Control	
			Location: The percentage of work performed in Michigan will be used for all selections unless the project is for on-site inspection or survey activities, then location should be scored using the distance from the consultant office to the on-site inspection or survey activity.	
N/A	N/A		Presentation	
N/A	N/A		Technical Proposal (if Presentation is required)	
3 pages (MDOT Forms not counted) (No Resumes)	7 pages (MDOT Forms not counted)	19 pages (MDOT Forms not counted)	Total maximum pages for RFP not including key personnel resumes	

The Michigan Department of Transportation (MDOT) is seeking professional services for the project contained in the attached scope of services.

If your firm is interested in providing services, please indicate your interest by submitting a Proposal, Proposal/Bid Sheet or Bid Sheet as indicated below. The documents must be submitted in accordance with the latest "Consultant/Vendor Selection Guidelines for Service Contracts" and "Guideline for Completing a Low Bid Sheet(s)", if a low bid is involved as part of the selection process. **Referenced Guidelines are available on MDOT's website under Doing Business > Vendor/Consultant Services > Vendor/Consultant Selections.**

RFP SPECIFIC INFORMATION

BUREAU OF HIGHWAYS

BUREAU OF TRANSPORTATION PLANNING **

OTHER

THE SERVICE WAS POSTED ON THE ANTICIPATED QUARTERLY REQUESTS FOR PROPOSALS

NO

YES

DATED

THROUGH

Prequalified Services – See page ___ of the attached Scope of Services for required Prequalification Classifications.

Non-Prequalified Services - If selected, the vendor must make sure that current financial information, including labor rates, overhead computations, and financial statements, if overhead is not audited, is on file with MDOT's Office of Commission Audits. This information must be on file for the prime vendor and all sub vendors so that the contract will not be delayed. **(Form 5100J Required with Proposal)**

Qualifications Based Selection – Use Consultant/Vendor Selection Guidelines

For all Qualifications Based Selections, the section team will review the information submitted and will select the firm considered most qualified to perform the services based on the proposals. The selected vendor will be contacted to confirm capacity. Upon confirmation, that firm will be asked to prepare a priced proposal. Negotiations will be conducted with the firm selected.

****For RFP's that originate in Bureau of Transportation Planning only**, a priced proposal must be submitted at the same time as, but separate from, the proposal. Submit directly to the Contract Administrator/Selection Specialist, Bureau of Transportation Planning **(see address list, page 2)**. The priced proposal must be submitted in a sealed envelope, clearly marked **"PRICE PROPOSAL."** The vendor's name and return address **MUST** be on the front of the envelope. The priced proposal will only be opened for the highest scoring proposal. Unopened priced proposals will be returned to the unselected vendor(s). Failure to comply with this procedure may result in your priced proposal being opened erroneously by the mail room.

For a cost plus fixed fee contract, the selected vendor must have a cost accounting system to support a cost plus fixed fee contract. This type of system has a job-order cost accounting system for the recording and accumulation of costs incurred under its contracts. Each project is assigned a job number so that costs may be segregated and accumulated in the vendor's job-order accounting system.

Qualifications Review / Low Bid - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions for additional information.

For Qualification Review/Low Bid selections, the selection team will review the proposals submitted and post the date of the bid opening on the MDOT website. The notification will be posted at least two business days prior to the bid opening. Only bids from vendors that meet proposal requirements will be opened. The vendor with the lowest bid will be selected. The selected vendor may be contacted to confirm capacity.

Best Value - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions below for additional information. The bid amount is a component of the total proposal score, not the determining factor of the selection.

Low Bid (no qualifications review required - no proposal required.) See Bid Sheet Instructions below for additional instructions.

BID SHEET INSTRUCTIONS

A bid sheet(s) must be submitted in accordance with the "Guideline for Completing a Low Bid Sheet(s)" (available on MDOT's website). The Bid Sheet(s) is located at the end of the Scope of Services. Submit bid sheet(s) separate from the proposal, to the address indicated below. The bid sheet(s) must be submitted in a sealed manila envelope, clearly marked **"SEALED BID."** The vendor's name and return address **MUST** be on the front of the envelope. Failure to comply with this procedure may result in your bid being opened erroneously by the mail room and the bid being rejected from consideration.

PROPOSAL SUBMITTAL INFORMATION

REQUIRED NUMBER OF COPIES FOR PROJECT MANAGER	PROPOSAL/BID DUE DATE	TIME DUE
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PROPOSAL AND BID SHEET MAILING ADDRESSES

Mail the multiple proposal bundle to the MDOT Project Manager or Other indicated below.

MDOT Project Manager

MDOT Other

Mail one additional stapled copy of the proposal to the Lansing Office indicated below.

Lansing Regular Mail	OR	Lansing Overnight Mail
Secretary, Contract Services Div - B470 Michigan Department of Transportation PO Box 30050 Lansing, MI 48909		Secretary, Contract Services Div - B470 Michigan Department of Transportation 425 W. Ottawa Lansing, MI 48933
Contract Administrator/Selection Specialist Bureau of Transportation Planning B470 Michigan Department of Transportation PO Box 30050 Lansing, MI 48909		Contract Administrator/Selection Specialist Bureau of Transportation Planning B470 Michigan Department of Transportation 425 W. Ottawa Lansing, MI 48933

GENERAL INFORMATION

Any questions relative to the scope of services must be submitted by e-mail to the MDOT Project Manager. Questions must be received by the Project Manager at least four (4) working days prior to the due date and time specified above. All questions and answers will be placed on the MDOT website as soon as possible after receipt of the questions, and at least three (3) days prior to the RFP due date deadline. The names of vendors submitting questions will not be disclosed.

MDOT is an equal opportunity employer and MDOT DBE firms are encouraged to apply. The participating DBE firm, as currently certified by MDOT’s Office of Equal Opportunity, shall be listed in the Proposal

The following two American Recovery and Reinvestment Act of 2009 (ARRA) notifications, **ARRA MONTHLY EMPLOYMENT REPORTS** and **REQUIRED CONTRACT PROVISIONS TO IMPLEMENT AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SECTIONS 902 AND 1515**, are attached to this Request For Proposal for your understanding. These two notifications are only applicable for those projects/contracts funded with ARRA funds and will be included in contract Exhibits.

MDOT FORMS REQUIRED AS PART OF PROPOSAL SUBMISSION

- 5100D** – Request for Proposal Cover Sheet
- 5100G** – Certification of Availability of Key Personnel
- 5100I** – Conflict of Interest Statement
- 5100J** - Consultant Data and Signature Sheet (Required only for Non-Prequalified Work)

(These forms are not included in the proposal maximum page count.)

Michigan Department of Transportation

**SCOPE OF SERVICE
FOR
SPECIALTY SERVICES
Car Pool Lot Solar Array Installation
REVISED 2/23/2011**

CONTROL SECTION: 41025 & 41051

JOB NUMBER: 109153

PROJECT LOCATION: This project is located at the existing Michigan Department of Transportation (MDOT) car pool lot in the southeast quadrant of the I-96 and M-37/M-44 (East Beltline) interchange, in the City of Grand Rapids, Kent County, Michigan.

PROJECT DESCRIPTION:

To develop, install and maintain an elevated grid-connected solar array at the car pool lot for the purpose of demonstrating the feasibility and benefit of solar technologies in offsetting the cost of powering the adjacent freeway lighting.

The installation, operation, and maintenance documented in the proposal must comply with applicable city ordinances, building codes and laws, interface with the existing power grid, have minimal impact to the existing operations of the car pool lot, and be physically and financially feasible.

Those submitting proposals must demonstrate:

- (i) Experience and capacity to develop and install a solar array
- (ii) The ability to address design considerations
- (iii) The ability to implement a solar array and demonstrate the benefits to MDOT and the State of Michigan.

Each proposal must be in the format and include all the elements addressed under “Work Specifications” of this RFP. Submission Requirements include a conceptual design and installation plan.

Total project cost (including design, procurement, installation, commissioning, maintenance and warranty) shall not exceed \$600,000.

ANTICIPATED SERVICE START DATE: March 28, 2011

ANTICIPATED SERVICE COMPLETION DATE: July 31, 2011 (excluding warranty)

PRIMARY PREQUALIFICATION CLASSIFICATION(S): N/A

SECONDARY PREQUALIFICATION CLASSIFICATION(S): N/A

DBE REQUIREMENT: N/A

MDOT PROJECT MANAGER:

Paul Arends, P.E.
Operations Engineer
Michigan Department of Transportation
Grand Region Office
1420 Front Avenue, NW
Grand Rapids, MI 49504
Phone: (616) 451-2663
Fax: (616) 451-0707
Email: arendsp@michigan.gov

PURPOSE OF REQUEST FOR PROPOSAL (RFP)

The Michigan Department of Transportation (MDOT) is committed to exploring ways of reducing our overall energy costs to the greatest extent possible. The goals of this project are to:

- Reduce the overall energy costs and increase energy efficiency for the purpose of powering the freeway lighting system.
- Reduce the impacts of energy production and use on the environment
- Provide a public demonstration of solar technology in support of the State of Michigan's policy to encourage renewable energy resource development.
- Provide an aesthetically pleasing, functional design.

GENERAL INFORMATION

Issuing Office

This Request for Proposal (RFP) is issued by the MDOT. Oversight and project management will be performed by the project manager. ARRA reporting for the project will be coordinated by the Project Manager through the Office of Operations Administrative Services, Facilities Administration and Operations.

Terminology

Project Engineer

The Department's authorized representative for the Car Pool Lot Solar Array Project who will direct the Consultant.

Solar Array

For the purposes of this document, this is the generic term which would encompass all permits, equipment, structure, hardware, software, and installation for a solar array system. The specifics of the desired system will be outlined later in this RFP.

Incurring Costs

MDOT is not liable for any cost incurred by the Consultant prior to issuance of a contract, including costs for preparation of the proposal.

CONSULTANT RESPONSIBILITIES:

The selected Consultant will be required to assume responsibility for all services required in this proposal. Primary responsibilities include, but are not limited to, the full development, design, procurement, installation and implementation of a solar array system for the car pool lot identified above and according to the specifications outlined herein.

If any part of the work is subcontracted, the Consultant must provide a complete description of the work to be subcontracted and descriptive information about the subcontractor's organization and capabilities to perform the work. The Consultant is responsible for adherence of the subcontractor(s) to all provisions of the contract.

CONSULTANT QUALIFICATIONS REQUIREMENTS:

The proposing Consultant must have experienced personnel and/or past performance of work similar in nature. The Consultant must demonstrate, at a minimum, the ability to maintain sufficient staff resources to operate and maintain the services required of this project. A list of all key staff and their roles shall be provided, as well as key staff for any subcontractor(s) being used by the Consultant.

The Consultant must maintain liability insurance coverage for protection of the Consultant and MDOT and its state partners, against loss or damage to any and all equipment/systems in the facility and from claims for damage to public or private property and any and all claims for injuries to persons which may arise out of or result from the equipment and/or the installation, removal, use, operation, malfunction, and/or maintenance of the equipment or systems. Documentation of the required insurance coverage and limits of liability for the facility, systems, and services shall be provided to MDOT as described in Section II of this RFP.

The Consultant must procure, install, and maintain the equipment/systems of this project to meet all federal, state, and/or manufacturer requirements, and must comply ADA requirements. The Consultant may perform work at its own offsite facility or onsite at the car pool lot. All work performed at the car pool lot must have prior approval by MDOT.

SELECTION CRITERIA

A team of MDOT staff and representatives will be used to evaluate responses to the RFP based upon the following factors as presented in the vendor's proposal. All proposals will receive an initial screening to ensure that the eligibility criteria are met. Oral interviews may be requested

during the selection process. These are listed in order of importance and a scoring factor has been provided for each category, with a total of 100 points possible.

Energy Generated (28 pts.)

- Estimated amount of energy that will be generated from this system on a yearly basis at this location (provide calculations and assumptions).

Project Cost (25 pts.)

- Total cost to the department to develop, procure, install and maintain a functioning solar array system as described herein.

Past Performance/Experience in Providing Grid-Connected Solar Array System (14 pts.)

- Records of past performance including such things as quality of work, ability to meet deadlines/schedules, and ability to develop and deliver a quality product.
- List a minimum of three (3) references including names, addresses, phone numbers, and email addresses.
- Capability and qualification of key individuals including previous work on similar projects, technical expertise, education and training.
- Describe roles for key personnel and sub-vendors

System Warranty (10 pts.)

- Minimum 10 years for the entire system.
- Service/Installation warranty – 10 years
- Points will be awarded based on length of warranty provided on individual components and labor.

Understanding of the Project Needs (7 pts.)

- Describe understanding of the project needs, innovation and/or product to be proposed.
- Ability to demonstrate a viable plan for the development, procurement, and installation of a solar array system.
- Provide a schedule outlining the proposed work plan and milestone dates.
- Provide a quality assurance plan

Location (5 pts.)

- Vendors, manufacturers, and contractors with a business presence in Michigan will receive the maximum points. Fewer points will be awarded to vendors, manufacturers, and contractors with a business presence in the United States, followed by those located outside of the United States.
- The vendor is required to provide the location of where the system components are produced, as well as where the design work will be performed, and the location of the contractor that will install the system.

System Maintenance and Service Life (4 pts.)

- Annual operating and maintenance needs and costs: including hourly maintenance rates (prevailing wage), panel washing schedule, inspections, etc.
- Long term (10+ years) maintenance needs and costs
- Estimated service life and associated costs assuming properly maintained

Aesthetics (4 pts.)

- Overall design of this system including site plan, layout, elevations, etc.
- Ability of the system to serve as a shelter from the elements (snow, sun, wind, rain, etc)
- Ability of system to compliment the architecture of the Grand Rapids Area.
- Lighting characteristics for underneath the solar arrays (LED, natural, combined, etc). Consideration will be given to the amount of energy consumed by lighting.
- Integration of potential electric vehicle charging station

Demonstration, Education, and Information Plan (3 pts.)

- Plan to reach, inform, and educate the public and media
- Plan/design for on-site display
- Plan/design for MDOT/public monitoring/viewing web-site dashboard

MDOT will award the contract to the most responsive Consultant subject to final agreement on the scope of service and contract provisions.

MDOT may conduct an evaluation to ensure that the successful Consultant has adequate facilities and staff to provide the proposed service. MDOT may also perform a compliance review regarding safety, installation, operations, and maintenance capabilities.

MDOT will also have final approval of the plans and specifications

All Renewable Energy Certificates (REC's) generated by this system will be retained solely by the Michigan Department of Transportation for its use.

WORK SPECIFICATIONS

The project will include an appropriate, commercially available, constructible, cost effective, and energy saving solar array system that is compatible with existing systems and can be monitored remotely. Installation must include a technology that does not generate toxic or hazardous substances or pose any risk to human health or the environment.

The Consultant must outline in detail the following components of the solar array system proposed:

General

- a) The Consultant will submit a Project Schedule including starting and ending dates as well as major milestones such as equipment delivery, structure assembly, component installation, completion, testing, etc.

- b) Any damage to the existing car pool lot or site will be the responsibility of the contractor.
- c) To the extent possible, the system and equipment will be protected from the public in an effort to minimize the potential for vandalism.
- d) Work will be done with minimal disruption to the freeway lighting system and operations/use of the car pool lot. Construction and staging plans will require the approval of MDOT.
- e) Any necessary permits will be the responsibility of the contractor. Electrical service is provided through Consumers Energy, and specific information and requirements regarding Net Metering and the interconnection process can be found at <http://www.consumersenergy.com/content.aspx?id=1800>
- f) The Consultant will design, build, and construct an on-site display illustrating the various components and expectations of the system to be installed by the contractor once project is completed.
- g) The parking area under the newly installed solar arrays will have adequate illumination (day and night) so that car pool lot users are able to safely use the facility. Lighting may be of any type (LED, natural lighting, etc) and the energy needed to drive the lighting does not need to be directly supplied by the solar panels (can be grid-tied). A minimum horizontal luminance of 0.2 foot-candles is required for night time is required under the structure.
- h) The Consultant will provide a hands-on training session to MDOT and its maintaining agencies once the project is complete. Training will include required maintenance, disconnection, monitoring, repairs, etc. This training will also include creating or providing any necessary instruction manuals and documentation.
- i) The structure and panels will be situated such that rain run-off and snow melt are directed away from the immediate area where motorists access their vehicles
- j) The Consultant will be required to provide system support and maintenance for a period of one year after the system is commissioned, at no additional cost to MDOT.
- k) Refer to the attached Right of Way sketch, Fiber Optic plans and freeway lighting circuitry for additional information. This information is provided for information only and shall be verified prior to construction.

Photovoltaic Solar System

- a) The Consultant will provide the minimum sustained output based on sunny and overcast days for the proposed site.
- b) Completed shop drawings, site plans, and specifications will be reviewed and approved by MDOT prior to system fabrication and installation.
- c) The system will have bypass components to disconnect it from the freeway lighting circuit and electrical grid in the event of a failure or necessary maintenance. The Disconnect will be located adjacent to the existing electrical meter.
- d) The system will be able to withstand the environmental extremes of Michigan's summer and winter climate (temperature, snow, wind, ice, etc). Provide criteria used for calculations.
- e) The design/location for this system will minimize the amount of parking spaces lost due to the solar array support structure.

- f) The system will be installed on the western portion of the lot, with consideration of manoeuvrability and under-clearance for maintenance and snow removal vehicles. Typical snow removal vehicle consists of a full-size pickup truck with a front-mounted plow. Final location and design will be approved by MDOT.
- g) The system may include ground-mounted Level 2 electric vehicle charging station(s), with the ability to charge two vehicles simultaneously. As part of the submittal, the Consultant will illustrate the additional costs specifically associated with the procurement, installation, commissioning and monitoring of a charging station, and what impact this has on the overall project cost, energy generation, and maintenance. **The inclusion of the charging station(s) is not guaranteed as part of this project. MDOT may omit the charging station component for any reason.**
- h) The system will be designed such that future expansion (additional panels) is easily possible.
- i) The Consultant must include a calculation of the photovoltaic system payback. MDOT reserves the right to reject and require recalculation. All necessary measurements, calculations, and meetings to verify to MDOT the successful completion of all costs and savings shall be included in the pricing.
- j) The Consultant will assume responsibility for the maintenance and repair of the photovoltaic system and equipment for the term of the contract. The Consultant should include points of contact for emergency and non-emergency repairs and a minimum and maximum response time.
- k) Supply the number of units (modules), make, model, nameplate size, power rating, voltage and current capacity of all hardware and software as applicable.
- l) Supply copies of manufacturer's data sheets for the proposed hardware.
- m) Supply component level pricing for each distinct product in the proposal, along with a total amount for the supply of this section.
- n) Supply an outline of the recommended service maintenance schedules for the equipment, along with details and prices of replacement parts, consumables and other costs associated with operating the equipment throughout the life cycle of the system.

Interconnection and Monitoring

- a) Remote monitoring of the system is required. The system must connect to the existing fiber network in the area, and have an IP address to be accessible via the internet. Any necessary hardware and other monitoring equipment will be housed at the West Michigan Traffic Operations Center.
- b) It is anticipated that there will be two real-time end users of this data: (1) MDOT and (2) the general public/media. The Consultant must illustrate how this data will be housed and shared with end users.
- c) The system will have the ability to identify and send alarm notifications (email and text) based on user defined criteria (energy consumption maximums, energy production minimums, temperatures, etc) for the purpose of monitoring system status.
- d) The solar array system will be interconnected to the existing nearby electric infrastructure and comply with the MPSC Electric Interconnection Standards R460.601-R460.656 as well as all applicable local code requirements, and be installed by a licensed electrician.

- e) The data acquisition system will read from a revenue grade (ANSI C.12) meter. Total input/output will be monitored, along with current status of all measurable components (individual and cumulative solar panel outputs, temperatures, inverter status, energy consumed by any necessary canopy lighting, etc).
- f) All data must be stored in a database for tracking, archiving, and real-time sharing.

Reporting

The Consultant will provide to MDOT a final report. This report will be due to MDOT within 60 days of project completion. This report will include, but not be limited to the following:

- a) Summary of costs to install the system.
- b) Summary of costs to maintain the system for one year.
- c) Anticipated time of return on investment from the system.
- d) Energy production, usage, and cost savings.
- e) Performance which includes unusual incidents including system problems and/or failures.
- f) Description of project activities.
- g) Accomplishments and problems experienced while carrying out the project activities.
- h) Impacts, anticipated and unanticipated, experienced as a result of project implementation.
- i) Copies of any materials developed as a result of the project
- j) Other info as requested by MDOT

PROPOSAL REQUIREMENTS

The following items must be included in the proposal:

Scope of Work

Description of Service

- a) Detailed description of car pool lot solar array system to be provided. Address all areas cited in the Work Specifications section of this RFP.
- b) Plan of action for initiating service at the car pool lot. Address all areas cited in the Work Specifications section of this RFP.
- c) Plan for providing required reports and the types of reports that will be provided. Address all areas cited in the Work Specifications section of this RFP.
- d) Provide technical details, plans, and specifications for installation of solar array system. This should include, but not be limited to, recommended size and placement of solar arrays, system equipment and related items specific to this installation.
- e) Describe the installation schedule and methods to be used to make sure all necessary installations are performed in a timely, quality, and efficient manner with minimal disruption to car pool lot users.

Qualifications

Experience with Solar Array System

- a) Description of Consultant's prior experience with procurement, installation, implementation, maintenance, and reporting on solar array systems. Provide samples of prior installation locations and reports.
- b) Identify persons in the organization that are authorized to install and maintain system in accordance with contract.
- c) Identify who will perform the design and installations including prior experience and qualifications.
- d) Provide names and qualifications of staff assigned to the provisions of the service and maintaining equipment/systems. Include resumes for each of the staff identified, and note the day to day activities that each staff will perform in the implementation and maintenance of the system.
- e) Indicate where the Consultant's office of primary contact will be located and staffed for this project.

Insurance

- a) Commercial General Liability with the following minimum coverage: \$2,000,000 General Aggregate Limit other than Products/Completed Operations \$2,000,000 Products/Completed Operations Aggregate Limit; \$1,000,000 Personal & Advertising Injury Limit \$1,000,000 Each Occurrence Limit. The Consultant must list the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees and agents as ADDITIONAL INSUREDS on the Commercial General Liability certificate. The Consultant also agrees to provide evidence that insurance policies contain a waiver of subrogation by the insurance company.
- b) If a motor vehicle is used to provide services or products under this Contract, the Consultant must have vehicle liability insurance on any auto including owned, hired and non-owned vehicles used in Consultant's business for bodily injury and property damage as required by law. The Consultant must list the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees and agents as ADDITIONAL INSUREDS on the vehicle liability certificate. The Consultant also agrees to provide evidence that insurance policies contain a waiver of subrogation by the insurance company.
- c) Workers' compensation coverage must be provided in accordance with applicable laws governing the employees and employers work activities in the state of the Consultant's domicile. If the applicable coverage is provided by a self-insurer, proof must be provided of approved self-insured authority by the jurisdiction of domicile. For employees working outside of the state of qualification, Consultant must provide appropriate certificates of insurance proving mandated coverage levels for the jurisdictions where the employees' activities occur. Any certificates of insurance received must also provide a list of states where the coverage is applicable. The Consultant also agrees to provide evidence that insurance policies contain a waiver of subrogation by the insurance company. This provision shall not be applicable where prohibited or limited by the laws of the jurisdiction in which the work is to be performed.

- d) Employers liability insurance

Other

- a) Overall System/Consultant performance may be conducted by MDOT to evaluate the feasibility and benefit of adding solar array technologies to the car pool lot and adjacent freeway lighting.
- b) Additional information to be considered pertinent but not specifically requested in the RFP.
- c) The Consultant must provide a system and satisfy all requirements as contained in this RFP while keeping the total cost of the project within acceptable limits
- d) Any additional costs incurred in order to satisfy the requirements contained herein will be the responsibility Consultant.
- e) 5% upon final submission of approved work plan. 80% upon final acceptance & commissioning of system. 15% after two months of successful daily performance once final acceptance is given.

CONSULTANT PAYMENT:

Compensation for this project shall be on a **milestone** basis. Compensation shall be divided into payments for the completion of a portion of the services (deliverables).

The MDOT Project Manager may authorize payment if a milestone is delayed due to circumstances beyond the Consultant's control.

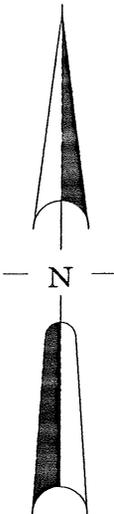
All billings for services must be directed to the Department and follow the current guidelines. The latest copy of the "Professional Engineering Service Reimbursement Guidelines for Bureau of Highways" is available on MDOT's website. This document contains instructions and forms that must be followed and used for billing. Payment may be delayed or decreased if the instructions are not followed.

Payment to the Consultant for Services rendered shall not exceed the maximum amount unless an increase is approved in accordance with the contract with the Consultant. Typically, billings must be submitted within 60 days after the completion of services for the current billing. The final billing must be received within 60 days of the completion of services. Refer to your contract for your specific contract terms.

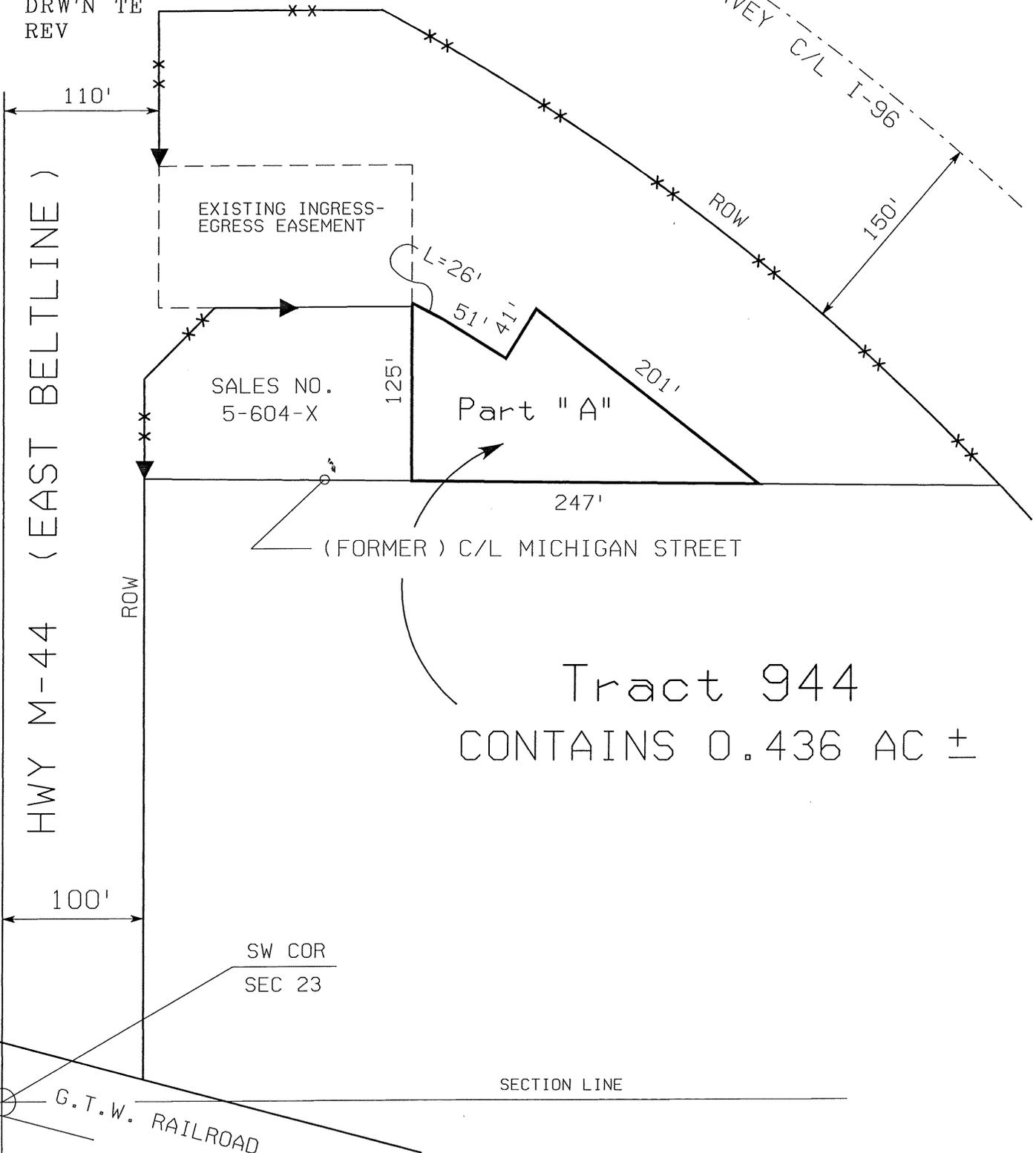
SEC.23, T7N , R11W
CITY OF GRAND RAPIDS
KENT COUNTY

CONTROL 41025
JOB NO. N/A
PARCEL C-187
Part A
Tract 944

AUGUST 3, 2005



SCALE
1"=100'
DRW'N TE
REV



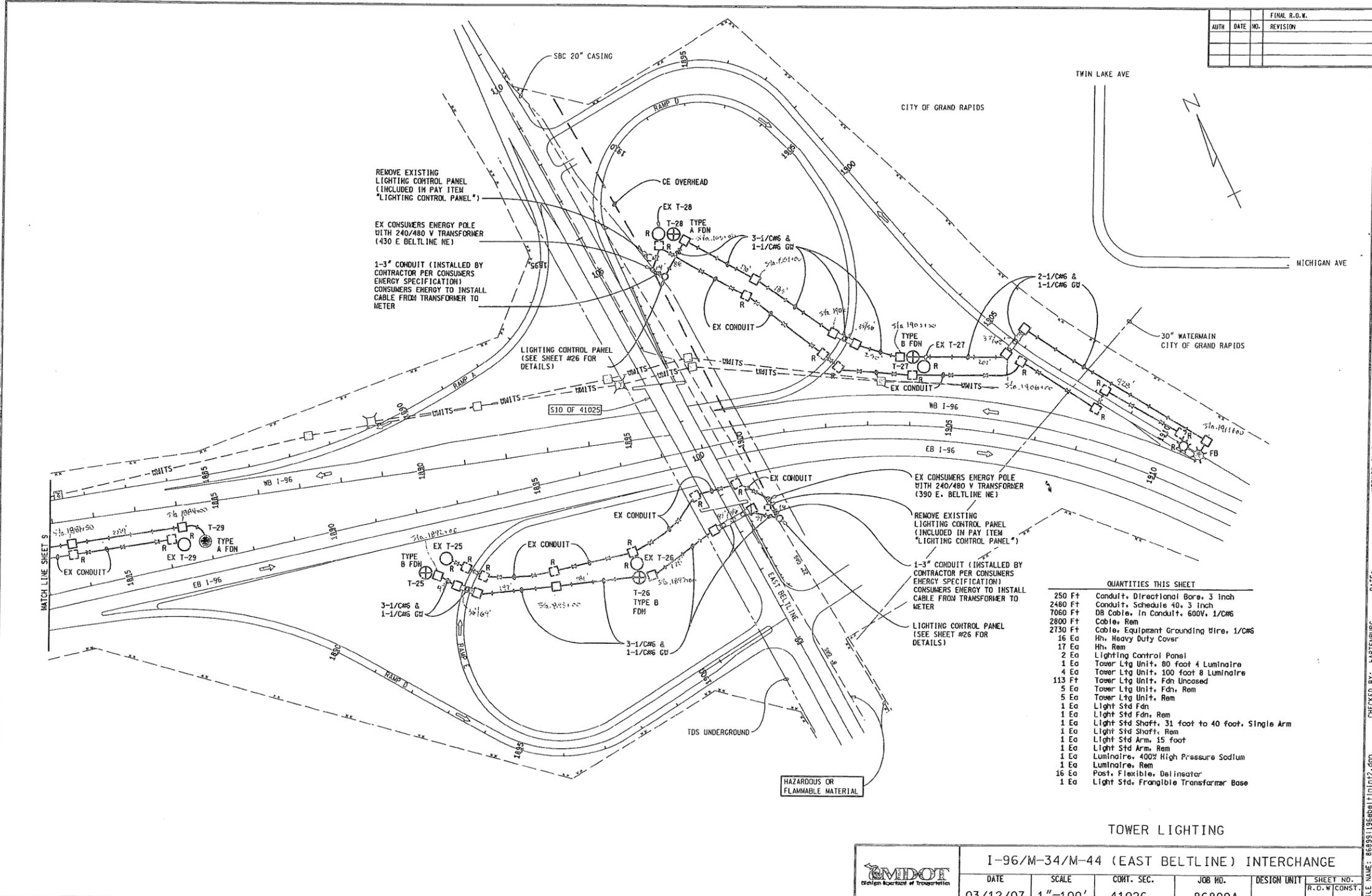
Tract 944
CONTAINS 0.436 AC ±

SW COR
SEC 23

SECTION LINE

G.T.W. RAILROAD

FINAL R.O.W.			
AUTH	DATE	NO.	REVISION



QUANTITIES THIS SHEET

250 Ft	Conduit, Directional Bore, 3 inch
2480 Ft	Conduit, Schedule 40, 3 inch
7060 Ft	DB Cable, In Conduit, 600V, 1/CMS
2800 Ft	Cable, Rom
2730 Ft	Cable, Equipment Grounding Wire, 1/CMS
16 Ea	Hh, Heavy Duty Cover
17 Ea	Hh, Rem
2 Ea	Lighting Control Panel
1 Ea	Tower Ltg Unit, 80 foot 4 Luminaire
4 Ea	Tower Ltg Unit, 100 foot 8 Luminaire
113 Ft	Tower Ltg Unit, Fdn Uncoed
5 Ea	Tower Ltg Unit, Fdn, Rom
5 Ea	Tower Ltg Unit, Rem
1 Ea	Light Std Fdn
1 Ea	Light Std Fdn, Rem
1 Ea	Light Std Shaft, 31 foot to 40 foot, Single Arm
1 Ea	Light Std Shaft, Rem
1 Ea	Light Std Arm, 15 foot
1 Ea	Light Std Arm, Rem
1 Ea	Luminaire, 400W High Pressure Sodium
1 Ea	Luminaire, Rem
16 Ea	Post, Flexible, Delinsator
1 Ea	Light Std, Frangible Transformer Base

TOWER LIGHTING

I-96/M-34/M-44 (EAST BELTLINE) INTERCHANGE					
DATE	SCALE	COMT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
03/12/07	1"=100'	41026	86899A	ZIELINSKI	R.O.W/CONST. 10

DATE: _____ WORKED ON BY: PARTENBURG
 DATE: _____ CHECKED BY: PARTENBURG
 FILE NAME: 86899113660811.in12.dgn

