

National Environmental Policy Act (NEPA)

Environmental Assessment (EA)

for

Suniva Solar Project Site

Community Development Block Grant

in

Thomas Township, Saginaw County, Michigan

by:

County of Saginaw, Michigan

for:

U.S. Department of Housing and Urban Development

Prepared by:

Bridget I. Smith, AICP, Planner

February 2, 2010

**Environmental Review Record
Suniva Solar Project Site
Thomas Township, Saginaw County, Michigan**

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1. Application to Michigan State Historic Preservation Office For Section 106 Review (including photographs of the subject property and surrounding areas)
2. Initial Response from Michigan State Historic Preservation Officer Regarding Section 106 Consultation
3. Cultural Resources Survey of Property at 1000 N. Graham Road, Thomas Township Saginaw, Michigan (Suniva property is a portion of the surveyed property)
4. Final Section 106 Consultation Response from Michigan State Historic Preservation Officer Opinion of No Historic Properties Affected
5. Thomas Township Re-zoning Decision Public Meeting, Public Petitions Against Re-zoning, and Final Re-zoning Decision and Maps
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ATTACHMENT A

Certifying Officer

Marc McGill, Chief Administrative Officer and Controller for Saginaw County, is the certifying officer for the environmental review requirement regarding the Solar Development Project, Community Development Block Grant award through the Michigan Department of Labor and Economic Growth for the project known as the Suniva Site Project, generally located at the northeast corner of the intersection of Graham and Gratiot Roads, commonly known as 1000 N. Graham.

Marc A McGill

Marc McGill, Chief Administrative Officer
and Controller

2-2-10

Date

Attachment B

Program Summary

Suniva Project Site

Activity Description: *The proposed dollars are requested for machinery and equipment purchases relative to a new solar project coming to the renewable energy park site. The improvements include funding through a grant to the community and loan to the company for the purchase of equipment. Additionally, the company associated with the proposed development will be investing \$250 million in additional equipment, machinery and building improvements. These improvements will help bring 500 jobs, with the proposed development located at 1000 N. Graham Road.*

Activity Classification: Environmental Assessment: This project requires an environmental assessment under 24 CFR 58.35.

Marc A. McGill

Marc McGill, Controller

2-2-10

Date

Attachment C - Environmental Review Record

Part 1 – Project Abstract

Statutory Checklist

Part 2 – Environmental Assessment Checklist

ENVIRONMENTAL REVIEW RECORD

Name of Grantee or Applicant

County of Saginaw

Application/Grant Number

MSC 209112-EDME

Original

Revision (dated): _____

Amendment (dated): _____

Name and Title of Certifying Officer

Marc McGill, Controller

County of Saginaw

Project Title

Suniva M&E Project

Project Site

Nothwest Corner of M-52 & M-46

Thomas Township Saginaw County MI

Grantee or Applicant

County of Saginaw

Address

111 S. Michigan Ave. Saginaw MI 48602

Project Representative

Marc Rogovin Suniva

Telephone

(404) 477-2755

Contact Person

Steve JONas Saginaw Future

Telephone

(989) 757-201

Project Summary

Estimated Funds

CDBG Funds

Other

Machiner & Equipment Acquisition \$2.5 Million

Building Construction M & E

\$250 Million

Environmental Assessment

for HUD-funded Proposals

Recommended format per 24 CFR 58.36, revised February 2004
[Previously recommended EA formats are obsolete]

Project Identification: **Sunivia Investments**

Preparer: Bridget I Smith, AICP

Responsible Entity: Thomas Township

Month/Year: January 2010

Environmental Assessment

Responsible Entity:

__ Saginaw County _____
[24 CFR 58.2(a)(7)]

Certifying Officer:

__ Marc McGill _____
[24 CFR 58.2(a)(2)]

Project Name:

__ Suniva Site Assistance _____

Project Location:

__ Improvements are located at an address commonly known as 1000 N. Graham Road and immediate adjacent.

Estimated total project cost:

__ \$227,000,000 (\$2.5 million grant/loan; \$225,000,000 private investment)

Grant Recipient:

__ Saginaw County _____
[24 CFR 58.2(a)(5)]

Recipient Address:

__ 111 South Michigan Avenue, Saginaw, MI 48602 _____

Project Representative:

__ Steve Jonas, Saginaw Future, Inc. _____

Telephone Number:

__ 989-754-8222 _____

Conditions for Approval: (List all mitigation measures adopted by the responsible entity to eliminate or minimize adverse environmental impacts. These conditions must be included in project contracts and other relevant documents as requirements). [24 CFR 58.40(d), 40 CFR 1505.2(c)]

Not applicable. There are no required mitigation measures as there are no adverse environmental impacts.

FINDING: [58.40(g)]

Finding of No Significant Impact

(The project will not result in a significant impact on the quality of the human environment)

Finding of Significant Impact

(The project may significantly affect the quality of the human environment)

Preparer Signature:

Bridget Smith

Date: 1/31/2010

Name/Title/Agency:

Bridget I. Smith, AICP Planner

RE Approving Official Signature:

Marc A. McGill

Date: 2-2-10

Name/Title/ Agency:

Marc McGill, County Controller

Statement of Purpose and Need for the Proposal: [40 CFR 1508.9(b)]

Description of the Proposal: Include all contemplated actions that are either geographically or functionally a composite part of the project, regardless of the source of funding. [24 CFR 58.32, 40 CFR 1508.25]

The proposed dollars are requested for machinery and equipment purchases relative to a new solar project coming to the renewable energy park site. The improvements include funding through a grant to the community and loan to the company for the purchase of equipment. Additionally, the company associated with the proposed development will be investing \$250 million in additional equipment, machinery and building improvements. These improvements will help bring 500 jobs, with the proposed development located at 1000 N. Graham Road.

Existing Conditions and Trends: Describe the existing conditions of the project area and its surroundings, and trends likely to continue in the absence of the project. [24 CFR 58.40(a)]

The property itself is identified as Solar Technology/Renewable Energy in the Township's adopted future land use map and was rezoned to the same designation in November 2009. The proposed improvements will be associated with the initial building development and associated related work (machinery, equipment, etc.).

Statutory Checklist

[24CFR §58.5]

Record the determinations made regarding each listed statute, executive order or regulation. Provide appropriate source documentation. [Note reviews or consultations completed as well as any applicable permits or approvals obtained or required. Note dates of contact or page references.] Provide compliance or consistency documentation. Attach additional material as appropriate. Note conditions, attenuation or mitigation measures required.

Factors	Determination and Compliance Documentation
Historic Preservation [36 CFR 800]	No above ground historic properties affected, see SHPO letter, November and December 2009. See additional approval and concurrence from SHPO.
Floodplain Management [24 CFR 55, Executive Order 11988]	Please see attached for Compliance Documentation for Executive Order 11988 and 24 CFR Part 55 Floodplain Management.
Wetlands Protection [Executive Order 11990]	No known or suspected wetlands per site visit and review of National Wetlands Inventory for majority of project site.
Coastal Zone Management Act [Sections 307(c), (d)]	Not part of a defined coastal zone.
Sole Source Aquifers [40 CFR 149]	Thomas Township receives their water through an agreement with the City of Saginaw, which receives its water from a location in Lake Huron.
Endangered Species Act [50 CFR 402]	There are no known endangered species within the area. Species within the area are typical to this region (deer, rabbit and other small game.) The property commonly known as 1000 N. Graham was farmed as recently as 2009.
Wild and Scenic Rivers Act [Sections 7 (b), (c)]	Thomas Township does not have a wild or scenic river.
Air Quality [Clean Air Act, Sections 176 (c) and (d), and 40 CFR 6, 51, 93]	The proposed project is located in a geographic area that is in <i>attainment</i> or <i>nonattainment</i> with the National Ambient Air Quality Standard, per the EPA Green Book.
Farmland Protection Policy Act [7 CFR 658]	The area is built and used for industrial, residential and commercial purposes. While the property was previously farmed it is not under PA 116. The property is shown to be used for industrial/commercial/Solar/Renewable purposes in the Township's adopted Future Land Use Map.
Environmental Justice [Executive Order 12898]	The proposed area is suitable for the project and minority and low income persons will not be disproportionately affected in comparison to the rest of the population

HUD Environmental Standards

Factors	Determination and Compliance Documentation
Noise Abatement and Control [24 CFR 51 B]	See attached.
Toxic/Hazardous/ Radioactive Materials, Contamination, Chemicals or Gases [24 CFR 58.5(i)(2)]	The proposed project is not within one mile of a National Priority List (NPL) "Superfund" site, or 2,000 feet of a State hazardous materials site
Siting of HUD-Assisted Projects near Hazardous Operations [24 CFR 51 C]	There are no known storage tanks by others of 100 gallons or more within one mile of the site that are within a line of site.
Airport Clear Zones and Accident Potential Zones [24 CFR 51 D]	The site is approximately 11 miles from the nearest commercial airport, well outside clear zones and accident potential zones.

Environmental Assessment Checklist

[Environmental Review Guide HUD CPD 782, 24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27]

Evaluate the significance of the effects of the proposal on the character, features and resources of the project area. Enter relevant base data and verifiable source documentation to support the finding. Then enter the appropriate impact code from the following list to make a determination of impact. **Impact Codes:** (1) - No impact anticipated; (2) - Potentially beneficial; (3) - Potentially adverse; (4) - Requires mitigation; (5) - Requires project modification. Note names, dates of contact, telephone numbers and page references. Attach additional material as appropriate. Note conditions or mitigation measures required.

Land Development	Code	Source or Documentation
Conformance with Comprehensive Plans and Zoning	1	The future land use proposes solar/renewable energy where structures (proposed building pad and immediate surrounding area) is proposed.
Compatibility and Urban Impact	1	See above.
Slope	1	There is no slope or steep conditions. Per site visit October 21, 2009
Erosion	1	Soil erosion and sedimentation plans will be implemented and followed per county ordinance.
Soil Suitability	1	Soil is suitable for excavation, no buildings or other structures are proposed. Soil is being removed.
Hazards and Nuisances including Site Safety	1	No known or proposed hazard associated with construction or installation.
Energy Consumption	1	Energy consumption for the proposed infrastructure and water tower is limited due to its function.

Noise - Contribution to Community Noise Levels	1	The proposed project will not contribute to noise levels in the area.
Air Quality Effects of Ambient Air Quality on Project and Contribution to Community Pollution Levels	1	The proposed project will comply with all state and federal emission requirements. The proposed project location on a state highway will reduce additional trucking and shipping.
Environmental Design Visual Quality - Coherence, Diversity, Compatible Use and Scale	1	The area immediately surrounding is a mix of woods and commercial and residential properties. There is an existing cell tower, approximately 120 feet in height, located about 1200 feet east from the proposed site.

Socioeconomic	Code	Source or Documentation
Demographic Character Changes	1	The proposed project does not involve residential dwellings and will not impact any residential units.
Displacement	1	No businesses or residential units are displaced with this project.
Employment and Income Patterns	1	The end result of this project is expected to generate approximately 500 jobs.

**Community Facilities
and Services**

	Code	Source or Documentation
Educational Facilities	1	No residential development proposed. No impact anticipated.
Commercial Facilities	1	No impact anticipated.
Health Care	1	No impact anticipated.
Social Services	1	No impact anticipated.
Solid Waste	1	Additional development will generate solid waste. The development will contract with an independent hauler to dispose of the refuse. No impact anticipated.
Waste Water	1	Sanitary sewer is required for the development, however, additional growth has been anticipated and is accounted for.
Storm Water	1	Impervious surface will be created however, the Township in which the proposed project is located is part of the Saginaw Area Storm Water Authority and best management practices will be followed.
Water Supply	2	Water is required for the development; however, additional growth has been anticipated and is accounted for.
Public Safety - Police	1	The project is not anticipated to impact police.
- Fire	2	Project amendment includes infrastructure. The proposed elevated water tank will help to stabilize water pressures, increase fire flows and increase store water, all beneficial aspects..
- Emergency Medical	1	Project amendment includes soil removal only. No impact anticipated.
Open Space and Recreation - Open Space	1	The property proposed for development is not currently used for open space; no new residential users are proposed. No impact anticipated.
- Recreation	1	No new residential users are proposed. No impact anticipated.
- Cultural Facilities	1	No new residential users are proposed. No impact anticipated.
Transportation	1	Additional traffic generation is anticipated as part of the development. The project's location adjacent to a state highway helps to mitigate additional trips; road improvements are included as part of the proposed project.

Natural Features	Code	Source or Documentation
Water Resources	1	Project amendment includes soil removal only. No impact anticipated.
Surface Water	1	Project amendment includes soil removal only. No impact anticipated.
Unique Natural Features and Agricultural Lands	1	The proposed site, while rural and near the Tittabawassee River, has been previously disturbed in the past both by the landowner and for underground utility installation.
Vegetation and Wildlife	1	There is no significant vegetation or wildlife within the proposed project area. Vegetation and wildlife is typical of suburban/rural areas and includes deer, rabbit and other associated small game.

Other Factors	Code	Source or Documentation
Flood Disaster Protection Act [Flood Insurance] [§58.6(a)]	1	See attached maps showing flood plain data. Portions of the project are within the 100 and 500 year flood plain. See attached for 8 Step Process and review of alternatives.
Coastal Barrier Resources Act/ Coastal Barrier Improvement Act [§58.6(c)]	1	Not within a coastal area.
Airport Runway Clear Zone or Clear Zone Disclosure [§58.6(d)]	1	Approximately 11 miles from the nearest airport, well outside any accident or clear zone..
Other Factors		

Summary of Findings and Conclusions

ALTERNATIVES TO THE PROPOSED ACTION

Alternatives and Project Modifications Considered [24 CFR 58.40(e), Ref. 40 CFR 1508.9]

(Identify other reasonable courses of action that were considered and not selected such as other sites, design modifications, or other uses of the subject site. Describe the benefits and adverse impacts to the human environment of each alternative and the reasons for rejecting it.)

The alternative would be to consider an alternative location for this proposed development by Suniva. Though other properties would be potentially functional for this development, this property is zoned and master planned in a way that is consistent with the proposed project. Additionally, the developer chose this location as being the most viable solution for the development, given other existing sites.

No Action Alternative [24 CFR 58.40(e)]

(Discuss the benefits and adverse impacts to the human environment of not implementing the preferred alternative).

Finally, the no action alternative was considered. This alternative is not considered viable as the proposed development will create approximately 500 jobs, which is considered to be substantial.

Mitigation Measures Recommended [24 CFR 58.40(d), 40 CFR 1508.20]

(Recommend feasible ways in which the proposal or its external factors should be modified in order to minimize adverse environmental impacts and restore or enhance environmental quality.)

No mitigation needed; compliance with EO 11988 attached.

Additional Studies Performed

(Attach studies or summaries)

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]

- FEMA, floodplain maps
- Department of Environmental Quality, Storage Tank Locations
- Environmental Protection Agency, Envirofacts, Superfund Sites, Storage tank locations, air attainment information
- Thomas Township, staff
- Saginaw Area GIS Authority
- Saginaw County Road Commission, ADT for County Primary Roads
- Michigan Department of Transportation, 2007 ADT (Commercial and Noncommercial)
- National Wetlands Inventory
- Michigan Geographic Framework

Attachment D – NOI/RROF

Request for Release of Funds and Certification

U.S. Department of Housing and Urban Development
Office of Community Planning and Development

OMB No. 2506-0087
(exp. 11/30/2004)

This form is to be used by Responsible Entities and Recipients (as defined in 24 CFR 58.2) when requesting the release of funds, and requesting the authority to use such funds, for HUD programs identified by statutes that provide for the assumption of the environmental review responsibility by units of general local government and States. Public reporting burden for this collection of information is estimated to average 36 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless that collection displays a valid OMB control number.

Part 1. Program Description and Request for Release of Funds (to be completed by Responsible Entity)

1. Program Title(s)	2. HUD/State Identification Number	3. Recipient Identification Number (optional)
4. OMB Catalog Number(s)	5. Name and address of responsible entity Saginaw County 111 South Michigan Avenue Saginaw, MI 48602	
6. For information about this request, contact (name & phone number) Steve Jonas, 989-752-8222	7. Name and address of recipient (if different than responsible entity)	
8. HUD or State Agency and office unit to receive request MEDC attn: Larry Rogenbuck, 300 N. Washington Square Lansing, MI 48913		

The recipient(s) of assistance under the program(s) listed above requests the release of funds and removal of environmental grant conditions governing the use of the assistance for the following

9. Program Activity(ies)/Project Name(s) Suniva Project Assistance	10. Location (Street address, city, county, State) 1000 N. Graham Road, Saginaw, Saginaw County, Michigan
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Program Activity/Project Description

The proposed dollars are requested for machinery and equipment purchases relative to a new solar project coming to the renewable energy park site. The improvements include funding through a grant to the community and loan to the company for the purchase of equipment. Additionally, the company associated with the proposed development will be investing \$250 million in additional equipment, machinery and building improvements. These improvements will help bring 500 jobs, with the proposed development located at 1000 N. Graham Road.

Part 2. Environmental Certification (to be completed by responsible entity)

With reference to the above Program Activity(ies)/Project(s), I, the undersigned officer of the responsible entity, certify that:

1. The responsible entity has fully carried out its responsibilities for environmental review, decision-making and action pertaining to the project(s) named above.
2. The responsible entity has assumed responsibility for and complied with and will continue to comply with, the National Environmental Policy Act of 1969, as amended, and the environmental procedures, permit requirements and statutory obligations of the laws cited in 24 CFR 58.5; and also agrees to comply with the authorities in 24 CFR 58.6 and applicable State and local laws.
3. After considering the type and degree of environmental effects identified by the environmental review completed for the proposed project described in Part 1 of this request, I have found that the proposal did did not require the preparation and dissemination of an environmental impact statement.
4. The responsible entity has disseminated and/or published in the manner prescribed by 24 CFR 58.43 and 58.55 a notice to the public in accordance with 24 CFR 58.70 and as evidenced by the attached copy (copies) or evidence of posting and mailing procedure.
5. The dates for all statutory and regulatory time periods for review, comment or other action are in compliance with procedures and requirements of 24 CFR Part 58.
6. In accordance with 24 CFR 58.71(b), the responsible entity will advise the recipient (if different from the responsible entity) of any special environmental conditions that must be adhered to in carrying out the project.

As the duly designated certifying official of the responsible entity, I also certify that:

7. I am authorized to and do consent to assume the status of Federal official under the National Environmental Policy Act of 1969 and each provision of law designated in the 24 CFR 58.5 list of NEPA-related authorities insofar as the provisions of these laws apply to the HUD responsibilities for environmental review, decision-making and action that have been assumed by the responsible entity.
8. I am authorized to and do accept, on behalf of the recipient personally, the jurisdiction of the Federal courts for the enforcement of all these responsibilities, in my capacity as certifying officer of the responsible entity.

Signature of Certifying Officer of the Responsible Entity	Title of Certifying Officer
X <i>Marc A. Merrill</i>	County Controller
	Date signed 2-2-10
Address of Certifying Officer County of Saginaw 111 S. Michigan Saginaw, MI 48602	

Part 3. To be completed when the Recipient is not the Responsible Entity

The recipient requests the release of funds for the programs and activities identified in Part 1 and agrees to abide by the special conditions, procedures and requirements of the environmental review and to advise the responsible entity of any proposed change in the scope of the project or any change in environmental conditions in accordance with 24 CFR 58.71(b).

Signature of Authorized Officer of the Recipient	Title of Authorized Officer
X	Date signed

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

MICHIGAN CDBG PROGRAM

MICHIGAN STRATEGIC FUND

Request for Release of Funds
And
Certification of Environmental Review Procedures

(Pursuant to Section 104 (f) of Title I of the Housing and Community Development Act of 1974, as amended through 1983)

1. NAME OF APPLICANT

County of Saginaw

2. GRANT NUMBER

MSC 209112-EDME

3. APPLICANT'S ADDRESS

111 S. Michigan Ave.
Saginaw MI 48602

4. DATE OF REQUEST/
CERTIFICATION

2/26 '10

5. REQUEST FOR RELEASE OF FUNDS. Release of approved grant funds for the following project is requested.

PROJECT: Suniva M&E Project

GRANTEE: County of Saginaw

6. CERTIFICATION. With reference to said project it is hereby certified:

- a. That the applicant has, at least 15 days prior to submitting this request for release of funds and certification, published in a newspaper of general circulation in the community affected a notice to the public (a copy of which is attached hereto) in accordance with 24 CFR 58.70;
- b. That the applicant has fully carried out its responsibilities for environmental review, decision-making, and action pertaining to the project named in the above request for release of funds;
- c. That the level of environmental clearance carried out by the applicant in connection with said project _____ did xx did not require the preparation and dissemination of an environmental impact statement;
- d. That the dates upon which all statutory and regulatory time periods for review, comment, or other response or action in regard to the clearance commenced and expired as indicated below; that all such dates which are applicable to the clearance are indicated below; and that with the expiration of each of the time periods indicated below, applicant is in compliance with the requirements of 24 CFR Part 58;

ITEM	COMMENCE MO/DAY/YR	EXPIRE MO/DAY/YR
Notice of Finding of No Significant Impact (FONSI) Publication		
Notice of Intent to Request a Release of Funds (NOI/RROF) Publication		
Combined FONSI/RROF or Concurrent Publication	2/10/10	2/25/10
Anticipated State Comment Period	2/25/10	3/15/10
Other		

- e. That the undersigned officer of applicant is authorized to, and does consent to, assume the status of responsible federal official, under the National Environmental Policy Act of 1969, insofar as the provisions of said Act apply to the state of Michigan responsibilities for environmental review, decision-making, and action assumed and carried out by the applicant; that by so consenting, the undersigned officer of applicant assumes the responsibilities, where applicable, for the conduct of environmental review, decision-making, and action as to environmental issues, preparation and circulation of draft and final environmental impact statements, and assumption of lead agency responsibilities for preparation of such statements on behalf of federal agencies when such agencies consent to such assumption;
- f. That the undersigned officer of applicant is authorized to consent personally, and on behalf of the applicant, to accept the jurisdiction of the federal courts, for the enforcement of all the aforesaid responsibilities, and that the undersigned does so consent, on behalf of applicant and of the undersigned, in the official capacity of the undersigned.

NOTE: Section 1001 of Title 18 of the United States Code and Criminal Procedure shall apply to the foregoing certification. Title 18 provides, among other things, that whoever knowingly and willfully makes or uses a document or writing containing any false, fictitious, or fraudulent statement or entry, in any matter within the jurisdiction of any department or agency of the United States, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Man A. Moxie Controller
(Signature, Title, and

County of Saginaw
Address of Officer of Applicant)

111 S. Michigan Ave. Saginaw MI 48602

Attachment E – Mailing List to Interested Parties

Attachment E - Mailing List to Interested Parties

Person/Agency	Area of Expertise	
Doug Bell County Planning 400 Court St. Saginaw, MI 48602	County Planning	MEDC 300 N. Washington St. LANSING, MI 48913
Airport Manager MBS International Airport 8500 Garfield Rd., Box P Freeland, MI 48623	Clear Zones	Michigan Dept. of Environmental Quality P.O. Box 30457 LANSING, MI 48909
James Lehman Saginaw County Road Commission 3020 Sheridan Ave. Saginaw, MI 48601	Infrastructure	
Sue Fortune Executive Director East Central Michigan Planning and Development Council 3144 3535 State St., Suite 200 Saginaw, MI 48602	Regional Planning	
U.S. Environmental Protection Agency Region 5 77 West Jackson Blvd. Chicago, IL 60604	General Oversight	
Anne Norton Miller U.S. Environmental Protection Agency Office of Federal Activities 1200 Pennsylvania Ave. NW Washington, DC 20460-0001	General Oversight	
Andrew Semenchuck Michigan Department of Commerce Office of Federal Grants P.O. Box 30225 Lansing, MI 48909	General Oversight	

Date of Distribution: 2/25/10

Signed Marc A McGill
Marc McGill

Title: County Controller

**Attachment F – Environmental Assessment and Compliance Findings for
Related Laws**

Environmental Assessment and Compliance Findings for the Related Laws

U.S. Department of Housing and Urban Development

1. Project Number:
HUD Program:
2. Date Received:

P: HI-00487R

Findings and Recommendations are to be prepared **after** the environmental analysis is completed. Complete items 1 through 15 as appropriate for all projects. For projects requiring an environmental assessment, also complete Parts A and B. For projects categorically excluded under 24 CFR 50.20, complete Part A. Attach notes and source documentation that support the findings.

3. Project Name and Location: (Street, City, County, State) Sunivia Project Development 1000 N. Graham Road, Thomas Township Saginaw, MI Saginaw County		4. Applicant Name and Address (Street, City, State, Zip Code), and Phone Saginaw County 111 S. Michigan Road Saginaw, MI 48602 (989)790-5210	
5. <input type="checkbox"/> Multifamily <input type="checkbox"/> Elderly <input checked="" type="checkbox"/> Other Infrastructure projects	6. Number of: Dwelling Units Stories	Buildings Acres	7. Displacement: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, explain.
8. <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Rehabilitation <input checked="" type="checkbox"/> Other Loan and Grant for equipment, including private investment		10. Planning Findings: Is the project in compliance or conformance with the following plans? Local Zoning: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Coastal Zone: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Air Quality (SIP): <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Explain any "No" Answers Are there any unresolved conflicts concerning the use of the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explain "Yes"	
9. Has an environmental report (Federal, State, or local) been used in completing this form? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, identify.			

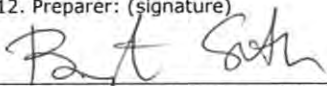
11. Environmental Finding: (check one)

Categorical exclusion is made in accordance with § 50.20 or

Environmental Assessment and a **Finding of No Significant Impact (FONSI)** is made in accordance with § 50.33 or

Environmental Assessment and a **Finding of Significant Impact** is made, and an Environmental Impact Statement is required in accordance with §§ 50.33(d) and 50.41.

Project is recommended for approval (List any conditions and requirements): Project is recommended for rejection (State reasons):

12. Preparer: (signature) 	Date: 1/31/2010	13. Supervisor: (signature)	Date:
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14. Comments by Environmental Clearance Officer (ECO): (required for projects over 200 lots/units)

ECO: (signature)	Date:
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15. Comments (if any) by HUD Approving Official:

HUD Approving Official: (signature)	Date:
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Part A. Compliance Findings for §50.4 Related Laws and Authorities

§. Laws and Authorities	Project is in Compliance		Source Documentation and Requirements for Approval
	Yes	No	
16. Coastal Barrier Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not within a coastal zone management area.
17. Floodplain Management (24 CFR Part 55)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See attached Floodplain map, FEMA panel, 26145C01310 D Panel 130 of 360 and 26145C0125 D Panel 125 of 360
18. Historic Preservation (36 CFR Part 800)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See attached clearance from the State Historic Preservation Office.
19. Noise Abatement (24 CFR Part 51 Subpart B)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See attached.
20. Hazardous Operations (24 CFR Part 51 Subpart C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	There are no storage tanks of 100 gallons adjacent to the site. No residential or occupiable building is proposed. Improvements are infrastructure related.
21. Airport Hazards (24 CFR Part 51 Subpart D)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not within an accident clear zone or a flight path - more than 36,000 feet from the nearest commercial airport runway.
22. Protection of Wetlands (E. O. 11990)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	This portion of the project is not impacting identified wetlands.
23. Toxic Chemicals & Radioactive Materials (§ 50.3(i))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The proposed project is not within one mile of a National Priority List (NPL) "Superfund" site, or 2,000 feet of a State hazardous materials site
24. Other § 50.4 authorities (e.g., endangered species, sole source aquifers, farmlands protection, flood, insurance, environmental justice)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	There is no significant vegetation or wildlife within the proposed project area. Vegetation and wildlife is typical of suburban/agricultural areas. The majority of the area proposed for transmission improvement was disturbed recently for previous infrastructure work. 1000 N. Graham was farmed as recently as 2009. There are deer, rabbit and other associated small game. There are no known endangered or threatened species in the area.

Part B. Environmental/Program Factors

Factors	Anticipated Impact/ Deficiencies			Source Documentation and Requirements for Approval
	None	Minor	Major	
25. Unique Natural Features and Areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The property at 1000 N. Graham has been actively farmed for decades. The remainder of the area slated for improvements is generally within the road right-of-way and has been previously disturbed.
26. Site Suitability, Access, and Compatibility with Surrounding Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The future land use details 1000 N. Graham as Solar/Renewable Energy and is zoned the same. The proposed project is adjacent to a state highway. The Township recently updated and adopted a new future land use map and zoning plan for this specific area which is consistent with the proposed use.
27. Soil Stability, Erosion, and Drainage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Soil erosion and sedimentation plans will be implemented and followed per county ordinance.
28. Nuisances and Hazards (natural and built)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No hazardous materials, sites or natural hazards identified, per review of Envirofacts, research with township staff.
29. Water Supply/ Sanitary Sewers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	This project will create new users for water and sanitary sewer. However, this expected growth has been projected and accounted for in previous infrastructure improvements in the area.
30. Solid Waste Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction of the site will follow local best management practices for waste disposal. The completed sites will use contracted private services for waste removal.
31. Schools, Parks, Recreation, and Social Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No increase in users, no impact anticipated.
32. Emergency Health Care, Fire and Police Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The proposed development may increase a demand for additional services, however, the resulting tax base is anticipated to offset any new demand for services.
33. Commercial/ Retail and Transportation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional transportation needs at and immediate to the site are anticipated, which is why the proposed road improvements are included as part of this project.
34. Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Attachment G – Supporting Documentation

Supporting Documentation 1

Application to Michigan State Historic Preservation Office

For Section 106 Review

(including photographs of the subject property and surrounding areas)

STATE HISTORIC PRESERVATION OFFICE
Application for Section 106 Review

SHPO Use Only					
<input type="checkbox"/> IN	Received Date	___ / ___ / ___	Log In Date	___ / ___ / ___	
<input type="checkbox"/> OUT	Response Date	___ / ___ / ___	Log Out Date	___ / ___ / ___	
	Sent Date	___ / ___ / ___			

Submit one copy for each project for which review is requested. This application is required. Please type. Applications must be complete for review to begin. Incomplete applications will be sent back to the applicant without comment. Send only the information and attachments requested on this application. Materials submitted for review cannot be returned. Due to limited resources we are unable to accept this application electronically.

I. GENERAL INFORMATION

THIS IS A NEW SUBMITTAL THIS IS MORE INFORMATION RELATING TO ER# ER-96-1082
Proposed Solar Development, T12N, R3E, Sections 20, 29, Thomas Township, Saginaw County

- a. Project Name: Solar Development Site
- b. Project Address (if available): 1000 N. Graham Road, northwestern corner of the intersection of Graham and Gratiot Roads
- c. Municipal Unit: Thomas Township County: Saginaw County
- d. Federal Agency, Contact Name and Mailing Address (If you do not know the federal agency involved in your project please contact the party requiring you to apply for Section 106 review, not the SHPO, for this information.): Community Development Block Grant, HUD Funding
- e. State Agency (if applicable), Contact Name and Mailing Address: Larry Rogenbuck, MEDC, 300 N. Washington Square, Lansing, MI 48913
- f. Consultant or Applicant Contact Information (if applicable) including mailing address: Applicant information: Marc McGill, Saginaw County Controller, Saginaw County, 111 S. Michigan, Saginaw, MI 48602; Consultant information: Bridget Smith, AICP, 121 Reif, Frankenmuth MI 48734.

II. GROUND DISTURBING ACTIVITY (INCLUDING EXCAVATION, GRADING, TREE REMOVALS, UTILITY INSTALLATION, ETC.)

DOES THIS PROJECT INVOLVE GROUND-DISTURBING ACTIVITY? YES NO (If no, proceed to section III.)

Exact project location must be submitted on a USGS Quad map (portions, photocopies of portions, and electronic USGS maps are acceptable as long as the location is clearly marked).

- a. USGS Quad Map Name: Saginaw Quad
- b. Township: 12N Range: 3E Section: 20, 29
- c. Description of width, length and depth of proposed ground disturbing activity: There are a few different components to the project. The first is the infrastructure construction and installation necessary to facilitate development on the proposed property. This infrastructure includes work to the Faucher Drain, installation of water and sanitary sewer to the intersection of Gratiot and Graham Road. The work associated with the Faucher Drain includes The Faucher Drain is a designated County Drain that serves the Faucher property. Currently, the drain is 2-3' deep at its beginning point located within the Faucher property. The Drain currently meanders southwesterly approximately ¾ miles to discharge to the Abbey Drain. In order to provide enhanced drainage for the Faucher property, the drain will need to be deepened from the Faucher property to the discharge point at the Abbey Drain. The portion located within the Faucher property will be enclosed, while the remainder of the Drain will remain open. A new crossing of Gratiot Road (M-46) may need to be constructed. The property known as Faucher Property will be purchased (approximately 230 acres). Initial site work will be installed near the intersection of Gratiot and Graham Roads to include site utilities (water, sanitary sewer, a building pad and stormwater facilities).
- d. Previous land use and disturbances: Land use on and near the Hemlock Semiconductor site is industrial and vacant, land use transitions from Hemlock Semiconductor to vacant and rural residential as the area of potential effect moves toward Gratiot Road. Gratiot Road is a mix of residential uses and then transitions to commercial as Gratiot Road moves east.

- e. Current land use and conditions: The property proposed is currently agricultural. There are no structures currently on the property.
- f. Does the landowner know of any archaeological resources found on the property? YES NO
Please describe: Please see attached information from the property owner.
-

III. PROJECT WORK DESCRIPTION AND AREA OF POTENTIAL EFFECTS (APE)

Note: Every project has an APE.

- a. Provide a detailed written description of the project (plans, specifications, Environmental Impact Statements (EIS), Environmental Assessments (EA), etc. **cannot** be substituted for the written description): *The project includes the purchase of the proposed property and the installation of the necessary infrastructure in anticipation of a solar production facility to be located near the intersection of Gratiot and Graham Roads*
- b. Provide a localized map indicating the location of the project; road names must be included and legible. On the above-mentioned map, identify the APE.
- c. Provide a written description of the APE (physical, visual, auditory, and sociocultural), the steps taken to identify the APE, and the justification for the boundaries chosen. *The APE for this project has been identified as the area adjacent and near the proposed development. It is larger due to the fact that the change from agricultural/farm land to commercial/manufacturing is significant and will impact more than just the adjacent property. Though the new development is a substantial change from current land use, future land use shows the majority of this area as high intensity commercial development. Commercial development is already directly adjacent to this parcel. Please see attached map for additional information.*

IV. IDENTIFICATION OF HISTORIC PROPERTIES

- a. List and date **all** properties 50 years of age or older located in the APE. If the property is located within a National Register eligible, listed or local district it is only necessary to identify the district:
11200 Gratiot, built in 1892; 11935 Gratiot, built in 1950; 705 N. Graham, built in 1895; 1006 N. Graham, built in 1954; 4465 N. Graham, built in 1935; 3515 N. Graham, built in 1945; 3771 N. Graham, built in 1955; 3865 N. Graham, built in 1955; 3949 N. Graham, built in 1951; 3435 N. Graham, built in 1920; 11746 Gratiot, built in 1900.
- b. Describe the steps taken to identify whether or not any **historic** properties exist in the APE and include the level of effort made to carry out such steps: There are no sites within the APE that are on the National Register nor listed within the States Historic Sites Online. Conversations and documentation with the property owner have not yielded knowledge of significant events or persons associated with the homes in general area nor the homes within the defined area of potential effect. Additionally, from a review of the sites themselves and available assessing information, all the structures have experienced either a change to the façade in terms of recent materials (vinyl siding) or an addition to the dwelling itself.
- c. Based on the information contained in "b", please choose one:
 Historic Properties Present in the APE
 No Historic Properties Present in the APE
- d. Describe the condition, previous disturbance to, and history of any historic properties located in the APE: It is not possible to determine the age of the structures within the APE by appearance as a substantial number of the structures have been altered. A review of building records was the only way to accurately determine age.
-

V. PHOTOGRAPHS

Note: All photographs must be keyed to a localized map.

- a. Provide photographs of the site itself.
- b. Provide photographs of all properties 50 years of age or older located in the APE (faxed or photocopied photographs are not acceptable).
-

VI. DETERMINATION OF EFFECT

- No historic properties affected based on [36 CFR § 800.4(d)(1)], please provide the basis for this determination.
- No Adverse Effect [36 CFR § 800.5(b)] on historic properties, explain why the criteria of adverse effect, 36 CFR Part 800.5(a)(1), were found not applicable. The status of the properties within the APE that are 50 years or older would not qualify for inclusion within the National Historic Registry. No properties are known to have had a significant event or person associated with the identified areas. Substantial alterations have been made to many of the structures. Review of information available from the property owner has disclosed no known archaeological resources.
- Adverse Effect [36 CFR § 800.5(d)(2)] on historic properties, explain why the criteria of adverse effect, [36 CFR Part 800.5(a)(1)], were found applicable.

Please print and mail completed form and required information to:
*State Historic Preservation Office, Environmental Review Office, Michigan Historical Center, 702
W. Kalamazoo Street, P.O. Box 30740, Lansing, MI 48909-8240*

Properties within APE 50 years or older, Proposed Solar Development



Location 1, 11200 Gratiot Road, built in 1892. This property is adjacent to the parcel(s) proposed for development. It has been previously impacted by the clearing and widening of Gratiot Road (M-46) and the surrounding development(s).



Location 1, 705 N. Graham Road, built in 1895. This home is on the west side of Graham Road, and would be adjacent to the proposed development. The home has been resided with vinyl and aluminum.



Location 1, 1006 N. Graham Road, built in 1954. This property is located on the east side of Graham, across the street from the proposed development.



Location 1, 11145 Gratiot Road. Could not determine the exact age of this building. It has been commercial in operation and is located on the south side of Gratiot, south of the proposed development.



Location 1, Standing on the south side of Gratiot Road, looking North. Could not determine the age of this building located at 11000 Gratiot. It looking north at the CSX railroad tracks. The proposed project will take place approximately 600 feet north of this location, adjacent to the railroad tracks. It is a commercial greenhouse.



Location 1, Standing on the south side of Gratiot Road, looking North. This home was constructed in 1900. The proposed project will take place approximately 1500 feet east of this location.

Location 2, Standing in Stroebel Road, looking north at the property owned by Steven Wright. The proposed project area is north and east of this photo, adjacent to the railroad.

Photo Map Key, Proposed Solar Development



Location 1, Standing on the south side of Gratiot Road, looking north in general toward the property proposed for development and specifically at the location of the Faucher Drain.



Location 2, Standing just west of the intersection of Gratiot and Graham Roads, looking northeast. The intersection of Gratiot and Graham may be widened. Note the 110' cell tower located just northeast of the intersection.



Location 2, Standing on Graham Road, just south of Gratiot Road, looking north. The intersection of Gratiot and Graham may be widened. Note the 110' cell tower located just northeast of the intersection.



Location 2, Standing on Graham Road, just north of Gratiot Road, looking south. The intersection of Gratiot and Graham may be widened.



Location 3, Standing on the eastbound side of Gratiot Road, looking west in general toward the property proposed for development. The property under consideration is located to the north of the traffic light and behind the existing bank at the intersection.

Location 3, Standing just west of the intersection of Gratiot and Graham Roads, looking northeast. The intersection of Gratiot and Graham may be widened. Note the 110' cell tower located just northeast of the intersection.



Location 1, Standing on the south side of Gratiot Road, looking North. Could not determine the age of this building located at 11000 Gratiot. It looking north at the CSX railroad tracks. The proposed project will take place approximately 600 feet north of this location, adjacent to the railroad tracks. It is a commercial greenhouse.



Location 1, Standing on the south side of Gratiot Road, looking North. This home was constructed in 1900. The proposed project will take place approximately 1500 feet east of this location.

Location 2, Standing in Stroebel Road, looking north at the property owned by Steven Wright. The proposed project area is north and east of this photo, adjacent to the railroad.

Supporting Documentation 2

Initial Response from Michigan State Historic Preservation Officer Regarding Section 106 Consultation

November 5, 2009



STATE OF MICHIGAN

JENNIFER GRANHOLM
GOVERNOR

MICHIGAN STATE HOUSING DEVELOPMENT AUTHORITY
LANSING

KEITH MOLIN
EXECUTIVE DIRECTOR

November 5, 2009

MARK MCGILL
SAGINAW COUNTY
111 SOUTH MICHIGAN
SAGINAW MI 48602

RE: ER-96-1082 Solar Development Site Project, T12N, R3E, Sections 20 and 29, Thomas Township, Saginaw County (HUD)

Dear Mr. McGill:

We have received your request for review of the above-cited project. The State Archaeologist, Dr. John Halsey, notes that archaeological resources may be affected at the project site; therefore, **an archaeological survey should be conducted and submitted to this office** so that we may complete our review, prior to any site clearance or construction activity. Enclosed, for your convenience, is a list of archaeologists who have been found to meet or exceed the professional requirements for archaeologists.

It appears that for this project there will be no historic properties affected in regard to above-ground resources.

Please note that the Section 106 review process cannot proceed until we are able to consider the information requested above. **This letter does not clear the project.** Please contact Dr. John Halsey at (517) 373-6358 with any questions or additional pertinent information that you may have regarding this project. **Please reference our project number in all communication with our office regarding this undertaking.** Thank you for your cooperation.

Sincerely,

Brian D. Conway
State Historic Preservation Officer

BDC:JRH:DRT

Enclosure(s)

Copy: Larry Roggenbuck, MEDC
Bridget Smith, AICP



Supporting Documentation 3

**Cultural Resources Survey of Property at
1000 N. Graham Road, Thomas Township**

Saginaw, Michigan

(Suniva property is a portion of the surveyed property)

November 30, 2009

**CULTURAL RESOURCE SURVEY:
FAUCHER PROPERTY, THOMAS TOWNSHIP,
SAGINAW COUNTY, MICHIGAN**

**A CULTURAL RESOURCE MANAGEMENT STUDY
PREPARED UNDER CONTRACT WITH THOMAS TOWNSHIP,
SAGINAW COUNTY, MICHIGAN, FOR SUBMISSION TO THE
MICHIGAN STATE HISTORIC PRESERVATION OFFICE**

**GREAT LAKES RESEARCH, INC.
ARCHAEOLOGY / CULTURAL RESOURCE MANAGEMENT**

**CULTURAL RESOURCE SURVEY:
FAUCHER PROPERTY, THOMAS TOWNSHIP,
SAGINAW COUNTY, MICHIGAN**

PREPARED AND SUBMITTED BY:

Mark C. Branstner, RPA

Great Lakes Research, Inc.
227 Ferguson
Lansing, MI 48912

GLR Report No. 2009-051

SUBMITTED TO:

Thomas Township
249 N. Miller Road
Saginaw, MI 48609-4896

30 November 2009

The opinions, findings, and conclusions expressed in this document are those of the authors, Great Lakes Research, Inc., and are not necessarily those of our client, Thomas Township.

ABSTRACT / MANAGEMENT SUMMARY

In late October 2009, Great Lakes Research, Inc. (GLR) was contracted by Saginaw County's Thomas Township to perform a Phase I cultural resource survey and evaluation of the so-called Faucher Property, an approximately 240-acre parcel of active farmland located in Thomas Township, Saginaw County, Michigan (S1/2 SE1/4 Sec. 20 and NE1/4 Sec. 29, T12N R3E). The property is generally bounded on the south by West Gratiot Road (M-46) and on the east by North Graham Road (M-52), with the north and west boundaries corresponding to the wooded margins of the cultivated fields that make up the project area. Current plans call for the development of limited portions of this property for industrial purposes, with the potential for the development of the entire parcel in the future.

This survey was requested by Thomas Township as part of their overall planning for the potential development of this property and the state and federal permitting process. The general environmental setting was considered of moderately increased prehistoric and historic period sensitivity due to its proximity to extensive wetlands to the north and west and the field-verified presence of numerous archaeological properties within a one-mile radius of the project area.

Prefield archival research was supervised by the principal investigator, Mark C. Branstner (M.A. Anthropology, Wayne State University), with the assistance of Todd M. Branstner (M.A. Historic Preservation, Eastern Michigan University). All field work and report production tasks were undertaken by the principal investigator. The project was undertaken and completed between 7 – 30 November 2009.

Despite a Phase I survey program that combined archival research with pedestrian reconnaissance and shovel testing, no potentially significant prehistoric or historic period archaeological cultural resources were identified in direct association with the project area.

Based on these findings, GLR recommends that development activities associated with the development and long-term use of this project area will have no effect on archaeological cultural resources. It is therefore further recommended that project clearance be granted with no further investigation or evaluation of the project area per archaeological cultural resources.

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SECTION 1.0 - INTRODUCTION

In late October 2009, Great Lakes Research, Inc. (GLR) was contracted by Saginaw County's Thomas Township to perform a Phase I cultural resource survey and evaluation of the so-called Faucher Property, an approximately 240-acre parcel of active farmland located in Thomas Township, Saginaw County, Michigan (Figure 1; S1/2 SE1/4 Sec. 20 and NE1/4 Sec. 29, T12N R3E). The property is generally bounded on the south by West Gratiot Road (M-46) and on the east by North Graham Road (M-52), with the north and west boundaries corresponding to the wooded margins of the cultivated fields that make up the project area. Current plans call for the development of limited portions of this property for industrial purposes, with the potential for the development of the entire parcel in the future.

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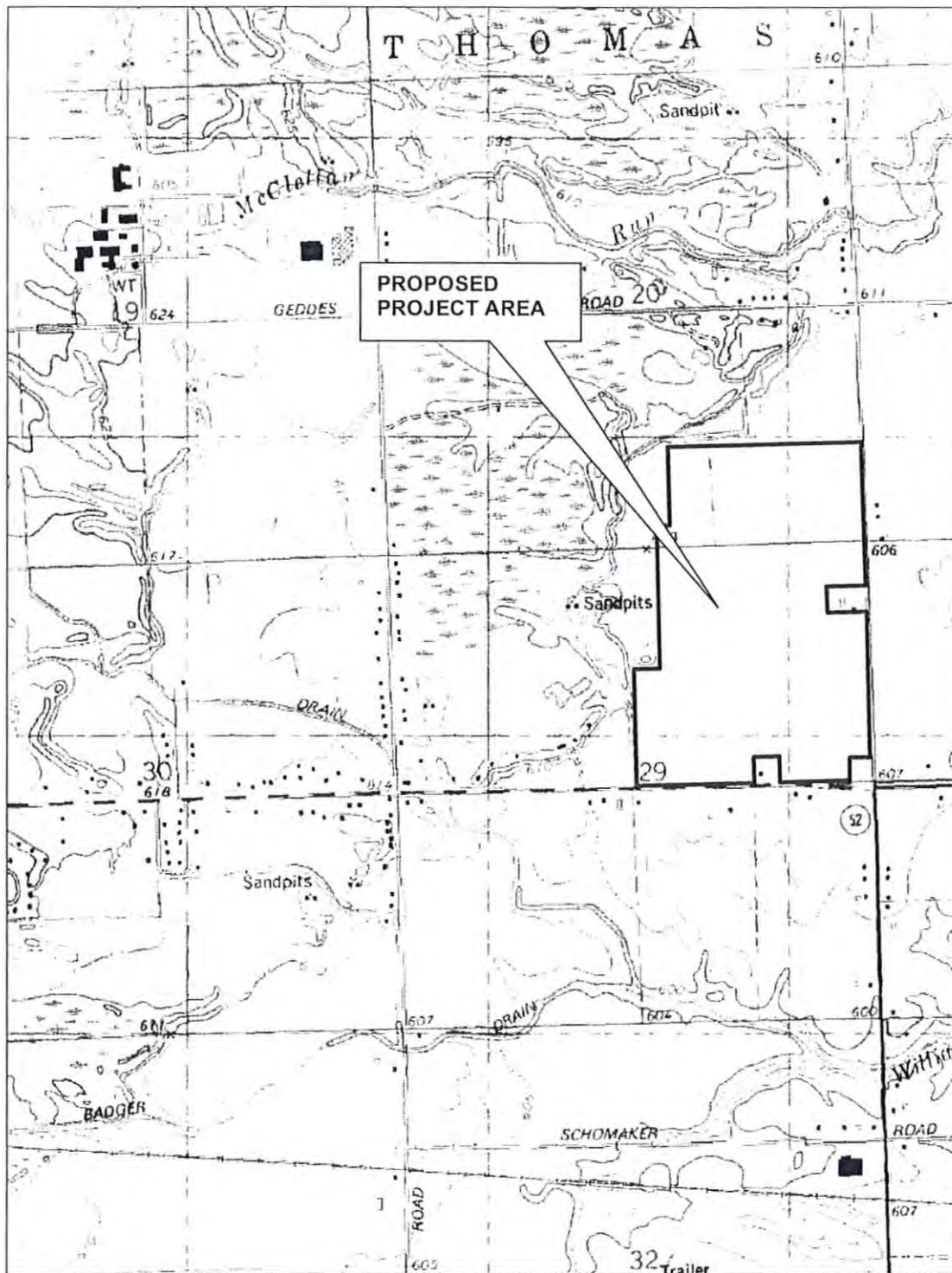


Figure 1. General location of project area (Hemlock, Michigan 7.5' quadrangle map [USGS 1975]).

SECTION 2.0 – PROJECT SETTING

2.1 PHYSICAL ENVIRONMENT

Located along the western margin of Saginaw County, the Faucher property is an approximately 240-acre parcel of active farmland located in Thomas Township, Saginaw County, Michigan (Figure 1; S1/2 SE1/4 Sec. 20 and NE1/4 Sec. 29, T12N R3E). The property is generally bounded on the south by West Gratiot Road (M-46) and on the east by North Graham Road (M-52), with the north and west boundaries corresponding to the wooded margins of the cultivated fields that make up the project area. Current plans call for the development of limited portions of this property for industrial purposes, with the potential for the development of the entire parcel in the future.

Topographically, the study area is situated on a glacial lake plain composed of both lacustrine silts and clays, and lacustrine sands, with small, interspersed dune sand features (Farrand and Bell 1982). In the most recent *Regional Landscape Ecosystem Model* (NPWRC 2006), this area has been identified as the *Saginaw Bay Lake Plain*, a sand and clay lake plain region lying adjacent to modern Saginaw Bay. Terrain in this general region area is largely without prominent features, broken only by a succession of poorly defined post-glacial beach and dune ridges. Although none of these features are apparent within the specific project area, a series of low sand features are situated to the immediate north and west of the project, dividing the cultivated lake plain to the east from the broken and poorly drained wetland complex that lies further to the west.

There are a number of soil types and associations noted within the project area (Figure 2; NRCS 2009). These can be divided into two major groups, which in turn reflect drainage patterns, elevations, and ultimately, the archaeological sensitivity of various portions of the parcel. The first group, which encompasses 72.2% of the project area, includes the Pella-Frankenmuth complex (61.7%), Pella silt loam (6.6%), and Lenawee silty clay loam (3.9%). All of these are relatively poorly drained soils typical of lacustrine origins and are not considered strong indicators of increased archaeological sensitivity. The remaining 27.8% of the project area is composed of lighter, better-drained soils, including Wixom sand (5.1%), Frankenmuth very fine sandy loam (4.4%), and Sanilac very fine sandy loam (18.2%). While the latter could be derived from lacustrine sources, they may also reflect relict dune activity, and are often considered indicators of increased archaeological sensitivity.

Presettlement vegetation in the region would have included beech, sugar maple, basswood, and other mesic species on well and moderately well drained sites. Poorly drained sites would have supported American elm, red ash, silver maple, and other deciduous swamp species (Veatch 1959). The current property owner indicates that much of this field complex was reclaimed from pine logging era “stump fields” during the late nineteenth and early twentieth centuries (Faucher, personal communication 2009).



Figure 2. Soil survey of project area (NRCS 2009).

Current vegetation was difficult to discern during the leaf-off survey period, but includes species typical of relatively poorly drained areas - primarily deciduous - in those uncultivated areas bordering the western edge of the project area. The specific project area had been cultivated in soybeans during 2009.

Drainage within the general area is eastward via McLellan Run to Swan Creek, which joins the Shiawassee River, and then exits into Lake Huron via the Saginaw River.

Elevations within the project area range between 606-608 ft (184.7-185.3 m) above mean sea level (AMSL). In either case, it can be presumed that the project area would have been more-or-less continuously habitable since the initial retreat of the glacial ice, more than 12,000 years ago. The major exception would have occurred during the early Late Archaic period, when the Lake Nipissing transgression resulted in water levels within the modern Lakes Michigan and Huron basins to briefly rise to approximately 605 ft (184 m) AMSL or even higher, prior to their recession to more or less modern levels. It can be presumed, however, that the study area has been subject to periodic flooding throughout much of its existence.

2.2 CULTURAL ENVIRONMENT

NATIVE AMERICAN RESOURCES

As in other areas of central Michigan, Native American archaeological sensitivity is highly correlated to the preferred use of elevated, well-drained sandy ground adjacent to some aquatic resource as the idealized settlement and utilization pattern. As such, the site's general location on the margins of the Shiawassee River drainage basin is of particular concern.

A review of the Michigan SHPO's archeological site files revealed literally dozens of prehistoric and historic period Native American sites within a few miles of the project area. Limiting this review to those sites lying within an approximate one-mile radius of the center of the project area, at least eight sites have been recorded with either prehistoric or historic period Native American components (Table 1).

Three of the sites are non-field-verified locations derived from the *Archaeological Atlas of Michigan* (20SA138-139, 156; Hinsdale 1931); one is a site recorded by a local avocational archaeologist (20SA875); one is a site recorded during a 1963 survey by personnel from the University of Michigan (20SA238); and the remaining three sites were recorded as part of a cultural resource management survey (20SA456-458; Brunett 1978). While the non-field-verified sites were recorded only as prehistoric villages, the remainder are typically recorded as lithic scatters or FCR scatters. Only one of the sites appears to have contained temporally or culturally diagnostic materials, that being 20SA238, which was described as including a generalized Archaic component.

Based on an assessment of prehistoric and historic period Native American archaeological sensitivities and the general environmental setting of the project area, it is concluded that any elevated property lying adjacent to the Shiawassee River or its

tributaries is of increased sensitivity for the presence of prehistoric and historic period Native American archaeological resources. As portions of the current project area appear to include such landforms, it must also be considered an area of increased archaeological sensitivity. The presence of other sites in nearly identical settings within reasonable proximity to the current project area provides strong support for this conclusion.

Site No.	Township	Range	Section	Site Type	Cultural Period
20SA0138	12N	3E	20	Village	Prehistoric
20SA0139	12N	3E	20	Village	Prehistoric
20SA0156	12N	3E	33	Village	Prehistoric
20SA0238	12N	3E	30	Undetermined	Archaic
20SA0456	12N	3E	20	Camp	Prehistoric
20SA0457	12N	3E	21	Camp	Prehistoric
20SA0458	12N	3E	21	Camp	Prehistoric
20SA0875	12N	3E	16	Undetermined	Prehistoric

Table 1. Summary of archaeological sites within one-mile radius of the project area.

EURO-AMERICAN RESOURCES

With the exception of a few traders and government agents serving the Native American community, a more expansive settlement of the future site of Saginaw and surrounding Saginaw County was entirely a product of the post-1830 period. The earliest General Land Office (GLO) sales in this area appear to date to about 1835, concurrent with the setting off of Saginaw County from Oakland County.

The settlement of western Thomas Township appears to have been even later, with many of the local residents not arriving until the late 1840s and early 1850s, or even later. A review of the GLO transactions for the specific project area failed to note any recorded sales for Section 20, but two sales were recorded for Section 29. The N1/2 NE1/4 Section 29 was first sold to Daniel L. Eaton in 1852 and the S1/2 NE1/4 Section 29 was first sold in 1853 to Eber B. Ward on a military warrant issued to James P. Bell.

The earliest structurally annotated map of the project area was the *Atlas of Saginaw County, Michigan*, published in 1877 (Figure 3; Beers 1877). At that date, the project area was divided between three owners: the S1/2 SW1/4 Section 20 was part of a larger holding owned by N. Barnard, the N1/2 NE1/4 Section 29 was owned by A. Williamson, and the S1/2 NE1/4 Section 29 was owned by Augustine Faucher. The only structural improvement noted on the three parcels was the A. Faucher residence fronting on modern West Gratiot Avenue (M-46). According to an abstract of title retained by the Faucher family, the S1/2 NE1/4 was purchased as two 40-acre parcels by Faucher in 1873 and that a log cabin was present until razed concurrent with the construction of the extant residence (Mark Faucher, personal communication 2009).



Figure 3. Project area ca. 1877 (Beers 1877).

The next structurally annotated map of the project area was another atlas, *The County of Saginaw, Michigan*, published in 1896 (Figure 4; Imperial 1896). Again, the project area was divided into three parcels. The S1/2 SW1/4 Section 20 was an 80-acre farm owned by Frank Faucher, the N1/2 NE1/4 Section 29 was owned by A. Williamson, and the S1/2 NE1/4 Section 29 was owned by A. Faucher. According to the above-referenced abstract of title, the Brugge property had been purchased in 1886, presumably from Williamson. However, following Brugge's early death, his widow married Frank Faucher, and the entire 240-acre property came under the control of the Faucher family. It should be noted that the 1896 atlas indicates that two structure complexes had been added to the project area in the period between 1877-1896. These include presumed farmsteads for both the Frank Faucher and Herman Brugge properties (Figure 4).

The unified Faucher property is first depicted in 1916, in the *Standard Atlas of Saginaw County, Michigan* (Figure 5; Ogle 1916). At that date, the northernmost 160 acres were depicted as owned by Frank Faucher and the southernmost 80 acres were owned by James Faucher. Only two structures were apparently present at that date, the original Faucher (now James Faucher) residence along the south edge of the property, and the

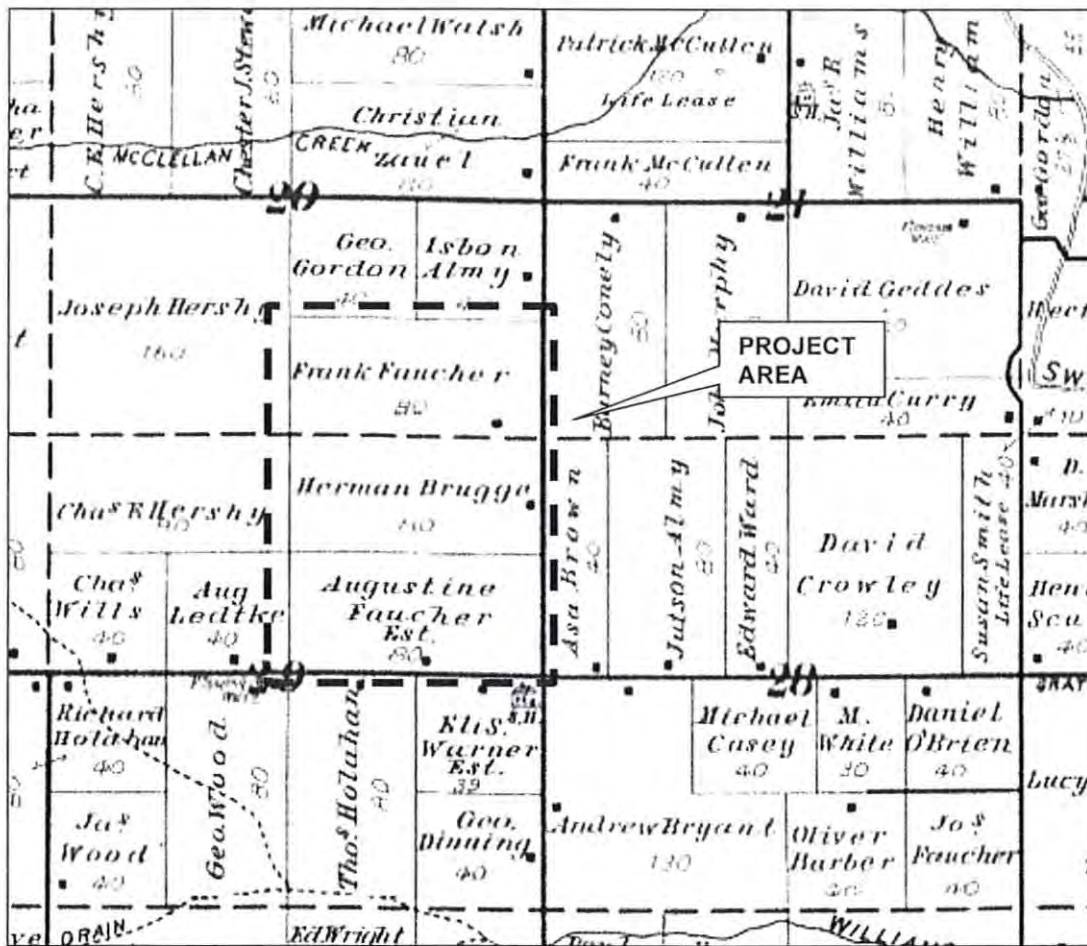


Figure 4. Project area ca. 1896 (Imperial 1896).

former Brugge (now Frank Faucher) residence along the eastern edge. The earlier Frank Faucher residence depicted in 1896 was no longer indicated, and it appears likely that he moved to the Brugge residence following his marriage to Brugge's widow.

The property has remained in Faucher family ownership until the present day and land use has remained agricultural with no additional structural development other than a recent cut-out on the extreme southeast corner of the property for a small commercial development. It can be presumed that this general level of rural development remained relatively constant throughout the twentieth century and the setting remains largely rural to the present day. Currently, the immediately surrounding property remains in mixed use, with agricultural, residential, and small commercial developments apparent.

As presented above, the project area is included within a nearly level, and largely poorly drained area that has likely been used for agriculture-related purposes since at least the latter half of the nineteenth century, although some areas may not have been put into production until well into the twentieth century.

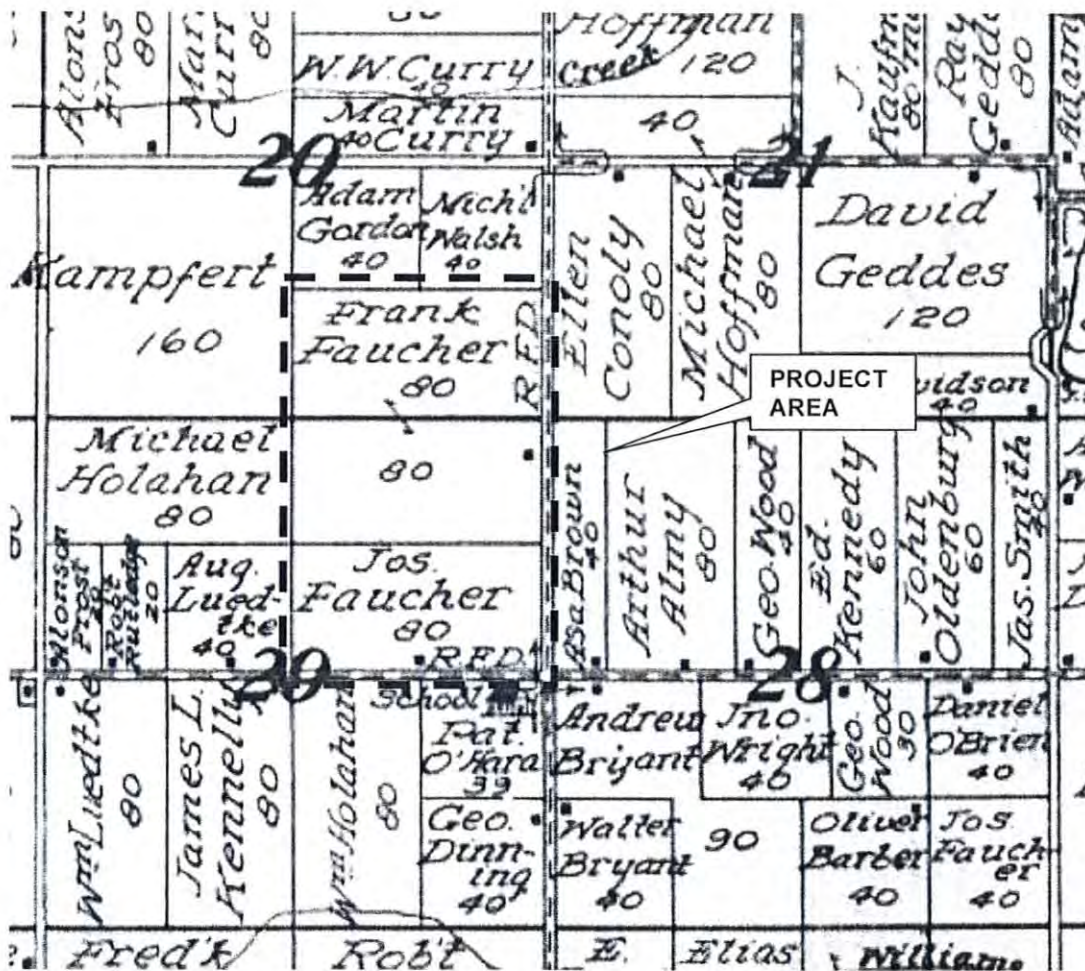


Figure 5. Project area ca. 1916 (Ogle 1916).

A series of historical maps document the presence of at least three homestead/farmstead locations within or immediately adjacent to the project area. Two of these sites remain extant and are excluded from the project area as cut-outs; the third location is clearly within the project area, but is no longer extant, and would appear to represent the former site of the Frank Faucher residence in the SE1/4 SE1/4 Section 20, founded between 1877-1896. As such, the specific project area appears to have only very limited sensitivity for either nineteenth and early twentieth century Euro-American archaeological resources.

A review of the Michigan SHPO's archeological site files revealed the presence of no previously recorded Euro-American archaeological resources within a one-mile radius of the project area (Table 1).

SECTION 3.0 - RESULTS OF INVESTIGATIONS

3.1 ARCHIVAL RESEARCH

Field investigations were preceded by a period of archival research to determine what, if anything could be predictively said per prehistoric or historic archaeological sensitivities prior to the onset of fieldwork. To assess prehistoric potentials, the Michigan SHPO site files and holdings were reviewed. To assess historic period archaeological potentials, various historic documents were also examined, including maps, atlases, plat books, and county records. The results of this research have been presented in the preceding section.

3.2 FIELD RESEARCH

Field investigations at this location were conducted by the principal investigator on 7-8 November 2009. Standard archaeological field equipment included shovels, trowels, and Silva compasses. The preferred field survey technique for such surveys is typically a combination of walkover reconnaissance at appropriate intervals and/or shovel-testing at 15-m intervals, with a standard shovel test unit consisted of a hand-excavated hole, approximately 35-cm in diameter and deep enough to reach culturally sterile subsoils.

At the request of GLR, the entire project area was subjected to either plowing or disking immediately following the 2009 bean harvest and allowed to weather for several weeks prior to the archaeological survey. As such, upon our arrival at the site, ground surface conditions were considered adequate for pedestrian reconnaissance survey with no supplementary shovel testing.

For the purposes of this survey, the approximately 240-acre project area was divided into three distinct parcels for the survey effort (Figure 6). Parcel A consists of the approximate north half of the project area and is defined along its southern edge by an improved farm road that extends due west across the project area from a farmstead that fronts on North Graham Road (M-52). Parcel B corresponds to the approximate southeast quarter of the project area and is bounded on the south by West Gratiot Road (M-46), on the east by North Graham Road (M-52), on the north by the aforementioned east-west farm road, and on the west by an imaginary line extending due north from the existing farmstead fronting on West Gratiot Road. Parcel C includes the remainder of the project area and generally corresponds to the southwest quarter of the project area.

PARCEL A

Survey was initiated in the northeast corner of Parcel A. As the recent plowing of Parcel A had been implemented in a series of east-west transects, it was determined appropriate to walk pedestrian reconnaissance transects in a similar fashion, a decision that facilitated walking in the recently plowed field and provided a ready check on transect orientation and spacing. Although survey was initiated at 50-ft (15-m) transect intervals, it was

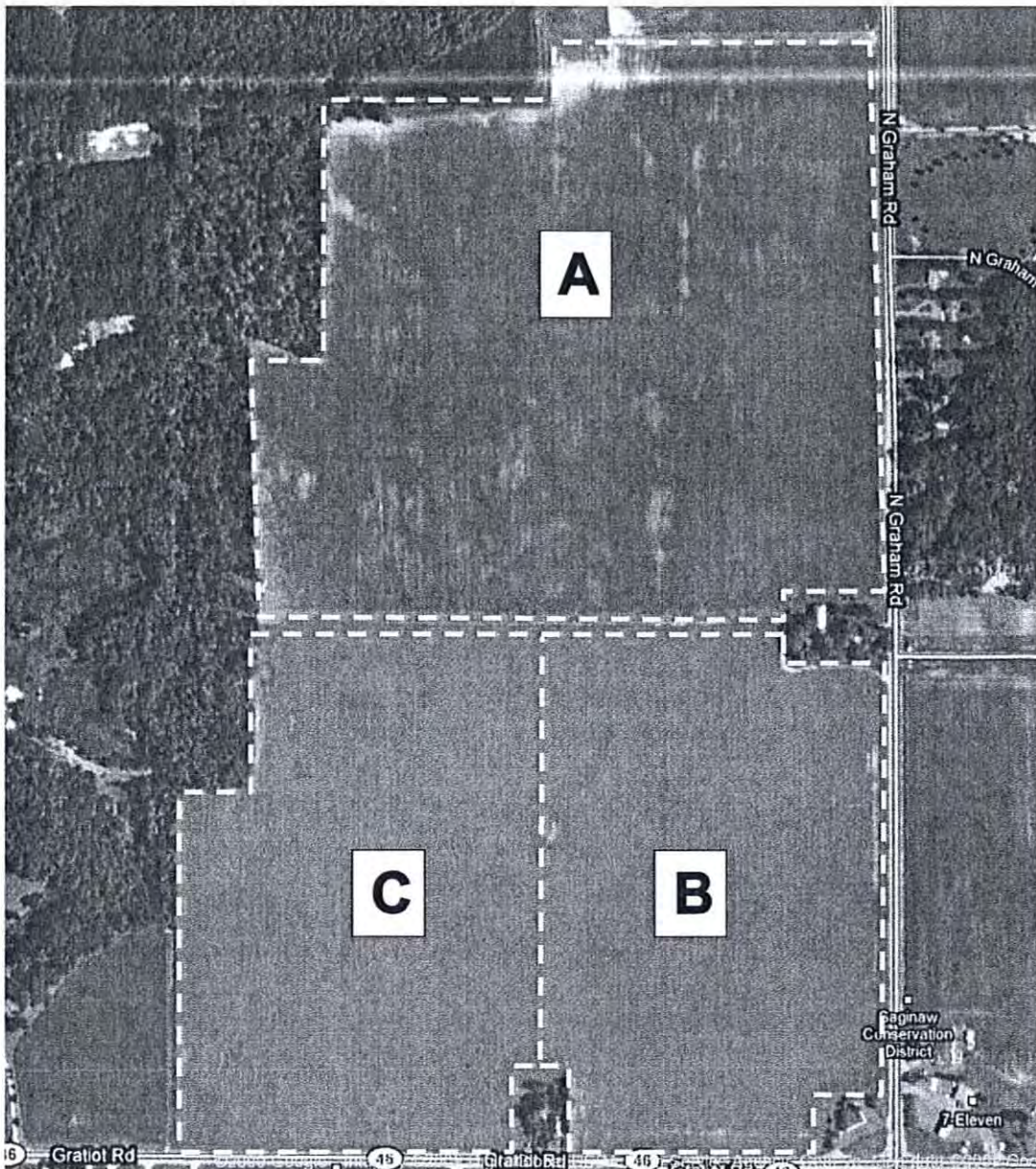


Figure 6. Division of project area into survey parcels A-C.

quickly realized that the majority of the Parcel A was composed of low, poorly drained Pella-Frankenmuth complex (57B) soils with extremely limited prehistoric or historic period archaeological sensitivity. However, interspersed within this larger area were isolated, nearly imperceptible, low ridges of sand and loamy sands that were not indicated on the published soil maps (Appendix A: Figure 7). These would appear to be an extension linking the Wixom sand (15B) deposits at the north end of Area A with the Frankenmuth very fine sandy loam (17B) in the southwest corner of Area A.

As similar areas have often proved to be sensitive markers for the presence of archaeological sites, with particular reference to Native American sites, an altered survey strategy was implemented. In this case, primary survey transects were increased to 100-ft (30-m) with the intention of systematically identifying those areas of increased relief, and concomitant archaeological sensitivity, within the broader environmental setting. As these areas were encountered, the primary survey transect was interrupted and each of these elevated areas was subjected to intensive pedestrian reconnaissance, typically at 5-m to 10-m transect intervals. The areal limits of these elevated areas were typically defined in the field on the basis of a shift from lighter to heavier soils, which was usually very obvious due to their differential, post-plowing weathering (Appendix A: Figures 6-7). Thus, the survey methodology was altered to provide coverage that efficiently covered the entire project area and focused intensively on those areas of increased sensitivity.

Visibility within all areas approached 100 percent, yet survey of Area A failed to note the presence of any evidence for Native American usage. This is entirely consistent with the recollections of the current property owner, who stated that to his knowledge no member of the Faucher family had ever recovered any evidence for Native American occupation of the farm in the more than one century of his family's tenure (M. Faucher, personal communication 2009). Survey did, however, note the presence of a small scatter of late nineteenth century historic debris in the SW1/4 SW1/4 Section 29. Although this scatter would not appear to correspond to the location of the Frank Faucher farmstead, as mapped in 1896 (Figure 6), the apparent date of the assemblage would be consistent with either the Faucher farmstead or that of the contemporaneous Brugge/Faucher farmstead. As the assemblage appeared to be more characteristic of a dump, rather than an actual occupation site, the materials were not collected and no site designation has been requested. However, it should be noted that survey of presumably more sensitive portions of the farm failed to record any significant remains that might correspond to the 1896 Frank Faucher farmstead site.

PARCEL B

The survey of Parcel B commenced in the southeast corner of the property, near the intersection of M-46 and M-52. As the disking of this area had been in a north-south direction, survey transects were likewise oriented. As noted in Figure 2, this area was slightly more elevated than the surrounding areas and largely composed of Sanilac fine sandy loams (64A). Again, the ground surface was well weathered, with visibility ranging between 75-100 percent. Primary transect intervals were spaced at 100-ft (30-m) with intensive survey implemented in areas of increased elevation or drainage. The latter areas were again highlighted by their differential weathering.

No evidence for either Native American or Euro-American usage of this area was recorded in Parcel B.

PARCEL C

Based on an analysis of the soil maps, the final survey area, Parcel C, was located in the least sensitive portion of the project area. Soils were uniformly heavy and poorly drained, consisting of Pella-Frankenmuth complex (57B), Pella silt loam (14), and Lenawee silty clay loam (18). Based on our previous experience in Areas A and B, survey was limited to pedestrian transects of the perimeter and several quartering transects to identify any deposits of lighter, elevated soils that might be included within its confines. While several such areas were identified, intensive pedestrian reconnaissance of these failed to note the presence of any archaeological materials.

3.3 SUMMARY

Based on the results of the Phase I survey, it appears that Native American archaeological sensitivities within the project area are either extremely low or non-existent and it appears that the proposed development would have no effect on significant resources of this type. Similarly, archaeological survey has verified that two of the three documented nineteenth century farmsteads associated with the project area have been effectively excluded from the current project area; the third farmstead was not convincingly relocated, but the fact that it likely dates from the ca. 1880-1900 should preclude its eligibility to the National Register of Historic Places.

SECTION 4.0 - CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

Prefield archival research per prehistoric and historic period Native American archaeological potentials in relation to the project area indicated a moderately increased sensitivity concern. This increased concern was predicated on the project area's location and its association with minor tributaries to the Shiawassee River. Prefield archival research also indicated that the general project area had likely been developed as agricultural land at some point in the mid-late nineteenth century, and that at least three homestead/farmstead complexes had been located in close proximity to the project area prior to 1900, indicating a moderate sensitivity for Euro-American archaeological resources.

Despite a Phase I survey program that combined archival research with pedestrian reconnaissance and shovel testing, no potentially significant prehistoric or historic period archaeological cultural resources were identified in direct association with the project area.

4.2 RECOMMENDATIONS

Based on these findings, GLR recommends that development activities associated with the development and long-term use of this project area will have no effect on archaeological cultural resources. It is therefore further recommended that project clearance be granted with no further investigation or evaluation of the project area per archaeological cultural resources.

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APPENDIX A: PROJECT AREA VIEWS

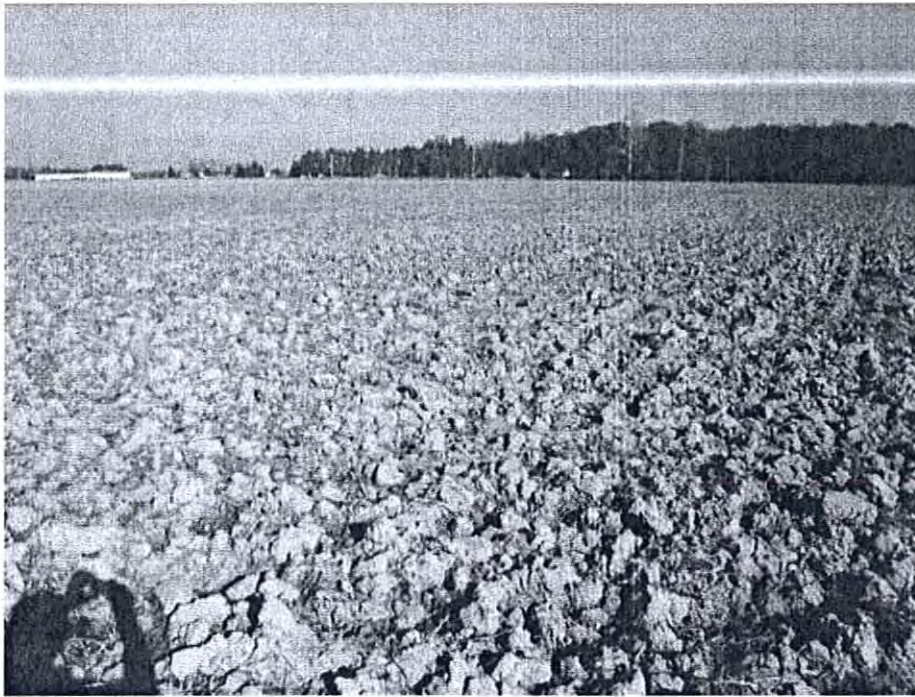


Figure 1. View to northeast, from approximate centerpoint of Area A.



Figure 2. View to west along south edge of project area, from extreme southeast corner of project area at M-46 (Area B).



Figure 3. View to north along west edge of project area, from extreme southwest corner of project area at M-46 (Area C).



Figure 4. View to east along M-46 and south edge of project area (Area C).

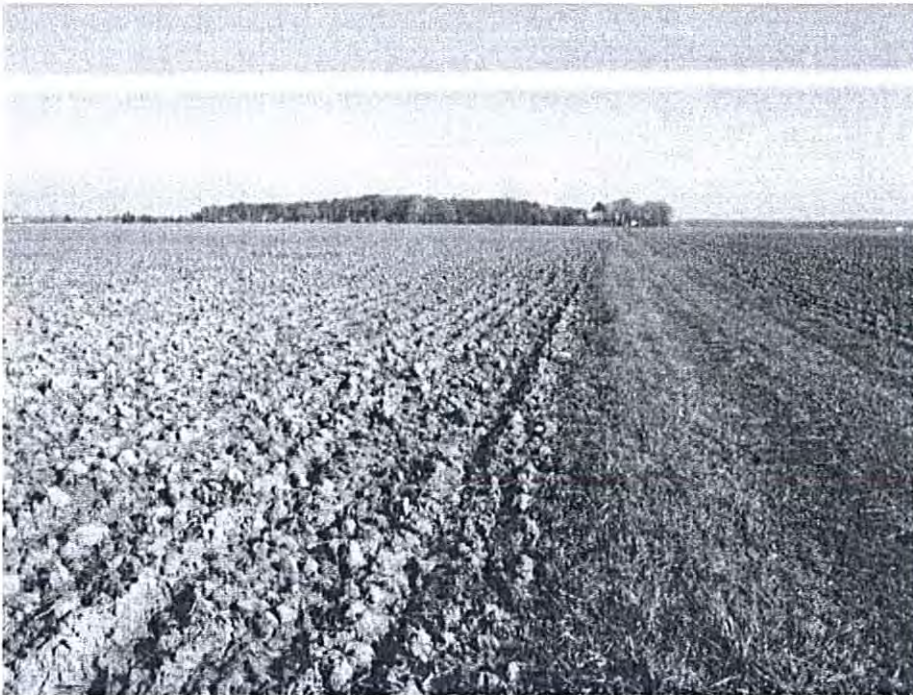


Figure 5. View to east along farm road that forms north-south boundary between Area A to the north and Area B-C to the south.



Figure 6. Typical view of plowed field in Pella-Frankenmuth complex (57B) in Area A; note heavier presence of clods and distinct plow ridges, even after weathering.

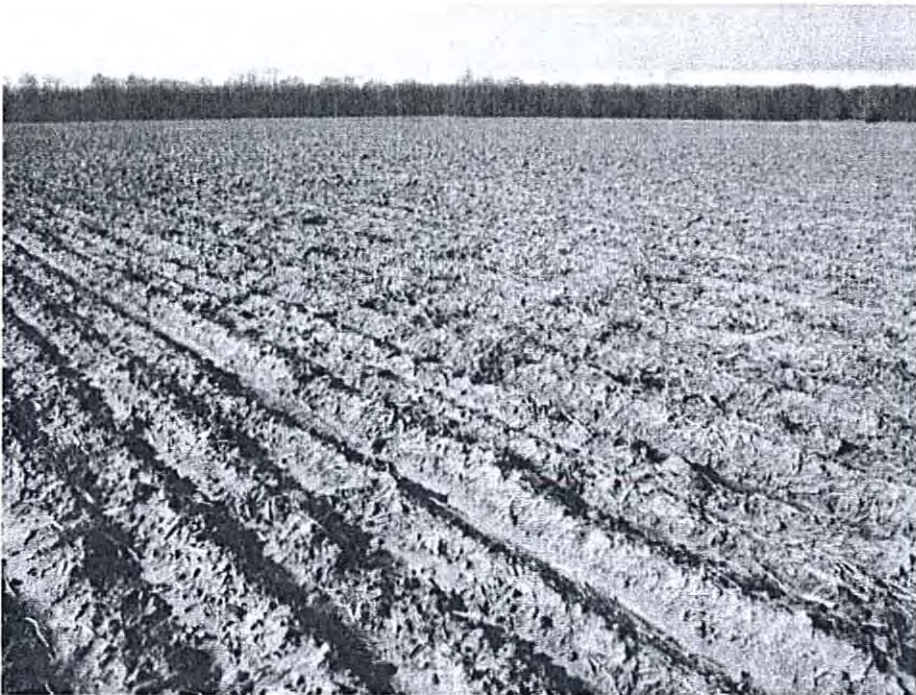


Figure 7. Typical view of unmapped “islands” of lighter soil in surrounding Pella-Frankenmuth complex; note well-eroded sandy composition compared to Pella-Frankenmuth complex soils in Figure 6.

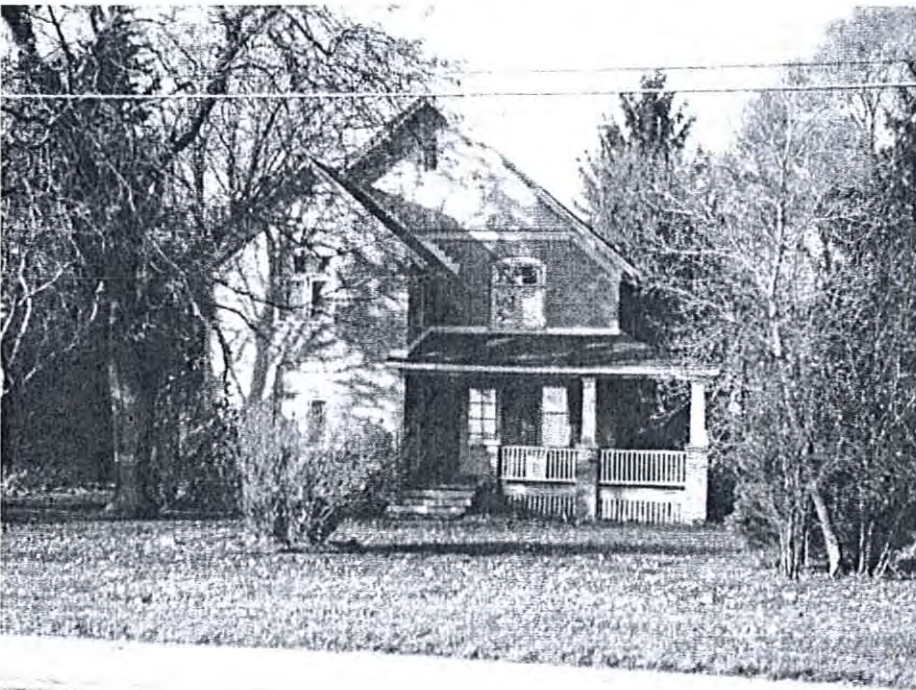


Figure 8. View of late 19th/early 20th century residence in cut-out along M-46, viewed to north.



Figure 9. Modern commercial structure in cut-out on northwest corner M-46 and M-52, viewed to north.



Figure 10. Twentieth century house and gambrel-roofed barn on North Graham Road (M-52) cut-out, viewed to west.

Supporting Documentation 4

**Final Section 106 Consultation Response
from Michigan State Historic Preservation Officer
Opinion of No Historic Properties Affected**

December 9, 2009



JENNIFER GRANHOLM
GOVERNOR

STATE OF MICHIGAN
MICHIGAN STATE HOUSING DEVELOPMENT AUTHORITY
LANSING

KEITH MOLIN
EXECUTIVE DIRECTOR

December 9, 2009

RUSS TAYLOR
THOMAS TOWNSHIP
249 NORTH MILLER ROAD
SAGINAW MI 48609

RE: ER-96-1082 Survey Report - Hemlock SemiConductor Infrastructure Improvements, Water Tower and Transmission Lines Project, T12N, R3E, Sections 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, and 29, Thomas Township, Saginaw County (HUD)

Dear Mr. Taylor:

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, we have reviewed the above-cited undertaking at the location noted above. Based on the information provided for our review, it is the opinion of the State Historic Preservation Officer (SHPO) that no historic properties are affected within the area of potential effects of this undertaking.

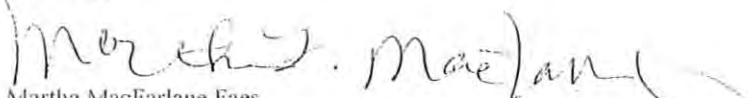
The views of the public are essential to informed decision making in the Section 106 process. Federal Agency Officials or their delegated authorities must plan to involve the public in a manner that reflects the nature and complexity of the undertaking, its effects on historic properties and other provisions per 36 CFR § 800.2(d). We remind you that Federal Agency Officials or their delegated authorities are required to consult with the appropriate Indian tribe and/or Tribal Historic Preservation Officer (THPO) when the undertaking may occur on or affect any historic properties on tribal lands. In all cases, whether the project occurs on tribal lands or not, Federal Agency Officials or their delegated authorities are also required to make a reasonable and good faith effort to identify any Indian tribes or Native Hawaiian organizations that might attach religious and cultural significance to historic properties in the area of potential effects and invite them to be consulting parties per 36 CFR § 800.2(c-f).

This letter evidences HUD's compliance with 36 CFR § 800.4 "Identification of historic properties", and the fulfillment of HUD's responsibility to notify the SHPO, as a consulting party in the Section 106 process, under 36 CFR § 800.4(d)(1) "No historic properties affected".

The State Historic Preservation Office is not the office of record for this undertaking. You are therefore asked to maintain a copy of this letter with your environmental review record for this undertaking. If the scope of work changes in any way, or if artifacts or bones are discovered, please notify this office immediately.

If you have any questions, please contact Diane Tuinstra, Cultural Resource Protection Specialist, at (517) 335-2723 or by email at ER@michigan.gov. Please reference our project number in all communication with this office regarding this undertaking. Thank you for this opportunity to review and comment, and for your cooperation.

Sincerely,


Martha MacFarlane Faes
Cultural Resources Protection Manager

for Brian D. Conway
State Historic Preservation Officer

MMF:DLA:drt

Copy: Larry Roggenbuck, MEDC
~~Ridge Squirredo Smith~~



Supporting Documentation 5

**Thomas Township Re-zoning Decision
Public Meeting, Public Petitions Against Re-zoning,
and Final Re-zoning Decision and Maps**

November 18, 2009

And

January 5, 2010



Minutes

THOMAS TOWNSHIP PLANNING COMMISSION
Thomas Township Public Safety Building, 8215 Shields Drive, Saginaw, MI 48609
November 18, 2009 at 7:00 p.m.

John Bintz called the Planning Commission meeting to order at 7:00 p.m.

Present in addition to Mr. Bintz were: Dale Halm, Diane LaMountain, Chris Thompson, Ruth McDonald, Pat Wurtzel and Rick Lorentzen. Also present were Dan Sika, Director of Community Development, Susan Coggin, Planning Assistant/Code Enforcement Officer and thirty-five (35) interested parties.

Members Absent: None

2. Minutes

It was moved by Mr. Wurtzel, seconded by Mr. Thompson to approve the minutes of October 21, 2009 as presented. Motion carried unanimously.

3. Approval of Agenda:

It was moved by Mrs. McDonald, seconded by Mr. Halm to approve the agenda as presented. Motion carried unanimously.

4. Hearings

A. Public Hearing to Consider Amending the Thomas Township Zoning Map to Include the Solar Technology/Renewable Energy Overlay Zone Located On 28-12-3-29-1004-000, 11200 Gratiot; 28-12-3-29-1002-000, 705 North Graham; 28-12-3-29-1001-000, North Graham; and 28-12-3-29-1001-001, 795 North Graham.

Mr. Bintz stated that the proposed amendment to the Zoning Map is to include the Solar Technology/Renewable Energy Overlay District. Advances in manufacturing and technology have created uses which are related to industry and office uses, but may not be appropriate or function adequately in a typical manufacturing zoning district. These uses have been identified as high tech technology that involves highly advanced or specialized systems or devices and uses. The purpose of the Solar Technology/Renewable Overlay Zone is to provide an environment where high tech uses and functions such as engineering, design, research and development, manufacturing photonics/optics, computer assisted design, robotics, numerical control

equipment prototype development and limited manufacturing, biotechnology, lasers, medical research, materials testing and telecommunications.

Mr. Bintz further stated that the Solar Technology/Renewable Energy Overlay District is intended to be developed in a campus-type environment with generous landscaping and attractive buildings where permitted uses will not negatively impact the surrounding area. Tree plantings are required around the perimeter of the property on average one every thirty (30') feet. Parking lot areas must have a minimum of five percent (5%) landscaping including trees, tree islands, grass areas and must be setback from property lines and road right-of-ways. A decorative fence will be required along all road frontage. Dumpsters must be screened with plantings as well as fencing. All outdoor lighting must be directed from adjacent parcels.

Mr. Bintz then asked for public comments in favor or in opposition to this proposed zoning map amendment. The following people were heard:

1. **Mr. Peter Wasmiller, 11081 Geddes** – Mr. Wasmiller had some specific questions regarding the proposed Suniva site. Mr. Bintz explained that this public hearing was regarding the proposed zoning map amendment and at this time, a site plan has not been submitted for review by any company. Mr. Sika explained that a rendering has been prepared by the Spicer Group on behalf of Saginaw Futures which does show a possible layout of the Suniva site; however, Mr. Sika reminded the public that a site plan has not been submitted to Thomas Township for review at this time. Mr. Wasmiller is also concerned about the possible location of a new water tower along Geddes and North Graham Roads.
2. **Ms. Sandy Rose, 1080 North Graham** – Ms. Rose stated that she loves the quietness of the area. She stated that though she is quite a distance from Hemlock Semiconductor, she can still hear noise coming from the plant. She loves the current “country” feel of the area and hopes that it will stay that way in the future.
3. **Ms. Annie James, 11580 Gratiot** – Ms. James stated that she is not in favor of this proposed rezoning. She stated that she also loves the “country” feel of the area. Ms. James further stated that there seems to be quite a few other properties available in Saginaw County for this type of project such as St. Charles. She also asked if existing vacant industrial facilities had been researched for this project.
4. **Mr. Dave Plambeck, 810 North Graham** – Mr. Plambeck is concerned with current traffic congestion and the additional traffic that will be generated by this new district.
5. **Mr. Joseph James, 11580 Gratiot** – Mr. James asked what tax abatements are involved with this project. Mr. Bintz stated that this hearing was for the proposed amendment to the zoning map and could not answer any questions regarding tax abatements. Mr. Sika suggested that Mr. James contact either the Township Manager or Saginaw Futures regarding this question. Mr. James asked what type of wage increase would either the Planning Commission members or the staff receive if this project was approved? Mr. Bintz stated that neither the Planning Commission or the staff receive anything whether this is approved or not. Mr. Bintz further stated that at no time in the past has the Planning Commission members received any financial gain for any type of project approved by the

- Planning Commission. Mr. James then continued to ask specific questions regarding the proposed Suniva project such as what type of jobs would be available, height of building, water drainage, etc. Again, Mr. Bintz reminded the public that the hearings this evening had nothing to do with any specific project including Suniva. Mr. James then proceeded to ask questions regarding air pollution and noise pollution that would be produced by Suniva. Mr. James then asked why a representative from Suniva was not present at the meeting. Mr. Bintz reminded Mr. James that the public hearings were not specific to a company. Mr. James stated that it was his understanding that a Suniva representative would be at this meeting. Mr. Bintz stated that no representative would be at this meeting to his knowledge.
6. **Ms. Annie James, 11580 Gratiot** – Ms. James stated that since the Planning Commission was not able to answer her husband’s questions and were obviously not knowledgeable about the company coming into this area, how could they make an informed decision for the public which it represents.
 7. **Ms. Julie Trinklein, 11535 Gratiot** – Ms. Trinklein stated that she loves the area that she lives in and would hate to see it change. She also stated that she is concerned with the loss of farmland in the area.
 8. **Mr. Rockwell Scherzer, 11200 Gratiot** – Mr. Scherzer asked if the Planning Commission would consider tabling the vote on this proposed amendment until more research could be done on the companies interested in these parcels
 9. **Ms. Annie James, 11580 Gratiot** – Ms. James asked if the Planning Commission could do a roll call vote for each item. Mr. Bintz agreed.
 10. **Mr. Cecil Szepanski, 1221 St. Charles** – Mr. Szepanski stated that he was disappointed that a representative of Suniva was not present to answer questions. It was his understanding from the Saginaw County meeting held the night before that someone would be here at this meeting. Mr. Szepanski stated that it might be a good idea to look at some of the existing vacant industrial parks for locations for new businesses.
 11. **Ms. Wanda Gorte, 11145 Geddes** – Ms. Gorte is concerned with the loss of farmland. With the cost of food rising, any farm that can be saved might help lower food prices.
 12. **Ms. Lynn Plambeck, 810 North Graham** – Ms. Plambeck believes that the Planning Commission does not have enough information to make an informed decision and should table this discussion.
 13. **Ms. Anita Scherzer, 11200 Gratiot** – Ms. Scherzer is wondering if the proposed project is why Thomas Township is considering to amend the zoning map for this area.
 14. **Ms. Sandy Rose, 1080 North Graham** – Ms. Rose asked that the area remain as is and that the Planning Commission not consider rezoning it to commercial.
 15. **Ms. JoAnn Cray, 515 North Washington** – Ms. Cray stated that she is with Saginaw Future and wanted to give the residents of the area some information regarding the history of this site. She stated that some time ago, her organization was approached by Mr. Faucher regarding selling his property. After much discussion with the Township Manager and the Township Supervisor, Saginaw Future hired a company to conduct a feasibility study regarding this property and

other properties throughout Saginaw County for potential sites for these types of businesses. The study came back and the Faucher property was one of the top sites; therefore, Saginaw Future began to market the properties for Mr. Faucher. Suniva just happens to be the first company interested in the site.

16. **Mr. Cecil Szepanski, 1221 St. Charles** – Mr. Szepanski stated that he was unaware that it was the owner of the property who initiated all of this and is glad that he now has that information.

Mr. Bintz closed the public hearing.

Discussion followed among the Planning Commission members. Mr. Thompson stated that he understands the neighbor's concerns. He stated that he does not live far away from Hemlock Semiconductor and can hear some of the noise from the plant at times; however, he feels that this amendment is in the best interest of Thomas Township. Mr. Halm stated that he also lives near Hemlock Semiconductor and can hear some noise and increased traffic, so he understands the concerns. Mrs. LaMountain stated that she understands the concerns. She stated that she was one of the original people against the Meijer being constructed on Gratiot Road; however, she believes that Meijer has turned out to be a great asset to Thomas Township. She believes this change will also benefit Thomas Township. Mr. Lorentzen stated that he appreciated Ms. Crary's history of the project. Mr. Wurtzel stated that the staff has put in hundreds of man hours into this amendment and feels that with the proposed text, the neighboring area will be protected. He also feels that this area will be something that Thomas Township can be very proud of in the future.

Motion by Mr. Thompson, supported by Mrs. McDonald to recommend approval to the Township Board the amendment to the Thomas Township Zoning Map to add the Solar Technology/Renewable Energy Overlay District as presented.

Roll Call Vote: Halm – Yes
 Thompson – Yes
 McDonald – Yes
 Bintz – Yes
 LaMountain – Yes
 Lorentzen – No
 Wurtzel – Yes

Motion Carried.

B. Public Hearing to Consider Amending the Thomas Township Zoning Ordinance to Include the Solar Technology/Renewable Energy Overlay Zone Text.

Mr. Bintz stated that the proposed amendment is to add a new chapter under Part 2, Land Use Districts. The new chapter, Chapter 22 – Solar Technology/Renewable

Energy Overlay Zone, would set standards that would apply to all lands illustrated as the Solar Technology/Renewable Energy Overlay Zone. The regulations herein apply in addition to and simultaneously with the other applicable regulations of the zoning ordinance. Permitted and special land uses with the Solar Technology/Renewable Energy Overlay Zone shall be regulated in the underlying zoning district (as designated on the zoning map) and shall meet all applicable requirements for that district.

Mr. Bintz then asked for public comments in favor or in opposition to this proposed amendment to the Zoning Ordinance. The following people were heard.

1. **Mr. Joseph James, 11580 Gratiot** – Mr. James stated that since the Planning Commission members were unprepared to answer his questions under the first public hearing, he assumes that they are still not prepared to answer questions for the remaining public hearings.

Mr. Bintz closed the public hearing.

Motion by Mr. Thompson, supported by Mrs. LaMountain, to recommend approval to the Township Board to add the Solar Technology Renewable Energy Overlay Zone and text as presented.

Roll Call Vote: Halm – Yes
 Thompson – Yes
 McDonald – Yes
 Bintz – Yes
 LaMountain – Yes
 Lorentzen – No
 Wurtzel – Yes

Motion Carried.

C. Public Hearing to Consider Amending the Thomas Township Future Land Use Map to Include the Solar Technology/Renewable Energy Overlay Zone.

Mr. Bintz stated that the Planning Commission held a special meeting on September 23, 2009 to review the current Future Land Use Map and Zoning Ordinance. The Planning Commission recommended changes to the Zoning Ordinance, Zoning Map and Future Land Use Map. The areas identified on the Future Land Use Map were those that would have the potential of being used in the future.

Mr. Bintz then asked for public comments in favor or in opposition to this proposed amendment to the Future Land Use Map. The following people were heard:

1. **Mr. Karl Neuenfeldt, 11120 North Graham** – Mr. Neuenfeldt stated that he is an employee at Hemlock Semiconductor. While he understands the concerns of

the area neighbors, he feels that people need to look at the big picture which is the future for our children. By bringing in this new technology, we are hopefully providing good paying jobs for our children.

2. **Ms. Annie James, 11580 Gratiot** – Ms. James presented a petition to Mr. Bintz. The petition is signed by thirty-six (36) people. Mr. Bintz accepted the petition on behalf of the Planning Commission.

Mr. Bintz closed the public hearing portion.

Motion by Mr. Wurtzel, supported by Mr. Halm to recommend the proposed Future Land Use Map amendment as presented.

Roll Call Vote: Halm – Yes
 Thompson – Yes
 McDonald – Yes
 Bintz – Yes
 LaMountain – Yes
 Lorentzen – Yes
 Wurtzel – Yes

Motion Carried.

5. **Presentations**

A. Site Plan – Mid-Michigan Singh Sabha – 9700 Gratiot Road.

Mr. Bintz stated that the Mid-Michigan Singh Sabha, is requesting site plan approval to redevelop the old Ward Building located at 9700 Gratiot Road. The building will be redeveloped to include a temple and fellowship hall. In order to accommodate the use change, the parking area is being restructured including a new landscape planter located at the southeast corner of the building and will include a new parking area along the west end of the building. The new parking area will be curbed and a new planter area and connecting sidewalk will be constructed.

This redevelopment is located on Gratiot Road and falls under the recently adopted Gratiot Road Design Guidelines. The project includes four (4) new sections of decorative pillars and fencing and new landscaping along Gratiot Road.

Section 10-19A-2-11 states that churches, temples and synagogues including related day schools and housing for the religious personnel are a use allowed by right in a B-3, Corridor Commercial zoning district providing the site shall have a minimum of four (4) acres. In order to meet this requirement, the applicant has agreed to combine three (3) lots, which will satisfy this requirement.

The proposed site plan has been reviewed and approved by the Fire Department, Department of Public Works, Police Department and the Township Manager with no

further comments. Mr. Don Hundley of the Michigan Department of Transportation has also reviewed and approved this proposed site plan.

Mr. Hurmohn Kocha was present to answer any questions or concerns regarding this proposed redevelopment.

Motion by Mr. Wurtzel, supported by Mr. Halm to approve the site plan request for the proposed Mid-Michigan Singh Sabha church upon the following contingency:

1. The three (3) lots must be combined to one (1) lot with the Thomas Township Assessor prior to the start of construction.

Motion carried.

6. **Sign Board of Appeals** - None.

7. **Old Business** – None.

8. **New Business** – None.

9. **Adjournment**

Motion by Mr. Wurtzel, seconded by Mr. Halm to adjourn the meeting at 8:56 p.m. Motion carried unanimously. The next meeting date will be Wednesday, December 16, 2009.

Respectfully submitted by Susan Coggin, Planning Assistant/Code Enforcement Officer

THOMAS TOWNSHIP PLANNING COMMISSION

SIGN - IN SHEET

NAME (PLEASE PRINT)	ADDRESS	PHONE NUMBER
Scott Wilson	55 Andrew St 48638	999-8127
Donald Morzy	5911 Andrea	752-6500
Richard Scherzer	11200 Gratia	781-3923
Alita Scherzer	11200 Gratia	781-3923
Wanda Berte	11145 Geddes	781-2319
Steve Spellerberg	1615 N Graham Rd	781-1065
Joseph Tamer	11580 Gratia	746-3355
Joan Birtz	Andrew St	751-4631
Clay Simpson	1271 S. H. Shack	1171
Martin Szepanski	11413 Lake C N	989-800-0087
Jane Wasmiller	11081 Geddes Rd	781-3847
Brian Wasmiller	1495 N. Waltham	781-4372
Peter Wasmiller	11081 Geddes Rd	781-3847
B. Wasmiller	11937 Geddes	781-1167
Ann Cray	515 N. Washington	754-8023
Chris Cray	705 N. Graham	781-1203
David Ublan	11307 Geddes Rd	640-3412
Gail Hazard	696 N. Graham	781-4939
Jim Hazard	696 N. Graham	781-4939
Don Leddy	11441 Gratia	781-2785
Alc Steczek	420 S. Thomas	860-1052
Eric Thompson	Andrew St	989-219-837
Connie Rehnman	1755 N. Graham Rd	781-5544
Jack Rehnman	" "	" "
Carl Neuenfeldt	11120 Graham Rd.	781-1640
Norman Skita	4089 Oakwood	497-0178
Joe Hogenan	1118 N. Graham R	781-7156
Ann Tamer	11580 Gratia	781-7887

Meeting Date: NOVEMBER 18, 2009

**Petition to stop the rezoning of 705 and 1000 North Graham Road,
and to save our neighborhood. 11200 Graciet**

We, the people of Thomas Township, hereby request that the land known as 705 and 1000 Graham Road, NOT be rezoned to allow for the creation of a renewable energy park. We feel that this development will ruin the beauty and integrity of our neighborhood, as well as raise property taxes. Our neighborhood is unique and attractive because of its large, spacious yards, well kept homes and country charm. We are also blessed with several produce farms and nurseries in our neighborhood that would suffer should a new industrial park arrive.

As taxpayers and your constituents, we are asking you not to destroy our neighborhood by allowing the creation of this industrial park. Please listen to the people you have sworn to represent.

Name	Address	City	
1. Anne Jensen	11580 Graciet	Saginaw	781-7888
2. Joe Jensen	11580 Graciet	Saginaw	" "
3. Richard Schryver	11200 Graciet	Saginaw	781-2923
4. Anita Jay	11200 Graciet	Saginaw	981-2222
5. Gail Luzzato	1000 N. Graham Rd.	Saginaw	781-2745
6. Jimmie Rose	1000 N. Graham Rd.	Saginaw	781-2745
7. [unclear]	4196 E. Fordman Rd.	Hemlock	643-2711
8. [unclear]	2125 S. 6th	Hemlock	643-3223
9. Bruce [unclear]	1410 N. GRAHAM	SAG	781-7241
10. RICHARD [unclear]	" " "	"	781-7241
11. TIM LAZZARO	696 N. GRAHAM	Sag	781-4939
12. Gail Luzzato	696 N. Graham	Sag	781-4939
13. Lyne Plambeck	910 N. Graham	Sag	781-5998
14. David PLAMBECK	810 N. GRAHAM RD.	SAG	781-5888
15. Roy Hanziger	11257 Goodies	Freeland	781-1167
16. Barbara E. Hanson	11337 Cedar	Freeland	781-1167
17. Carol Fokas	4836 HEASIDE	SAGINAW	794-3353
18. Danielle Guggo	585 S. Popple Rd	Merrill	643-0047
19. Fayette Nzech	4195 Ceeme	Freeland	781-5811
20. Jimmy Brandy	740 S. Thomas	Saginaw	781-4943
21. FRANCIS YEN	1581 ERSKINE RD	HEMLOCK	989-642-7025
22. JACQUELINE MAJUM-YEN	1581 ERSKINE RD	HEMLOCK	989-642-7025
23. Cheryl Koback	85 [unclear] Dr. Hemlock MI	Hemlock	987-642-4030
24. Elizabeth Firth	13055 Graciet Dr. Edinburg MI	St. Charles	987-555-6241

**Petition to stop the rezoning of 705 and 1000 North Graham Road
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As taxpayers and your constituents, we are asking you not to destroy our neighborhood by allowing the creation of this industrial park. Please listen to the people you have sworn to represent.

Name	Address	City	
1. MATT FAH	18694 GARDENVIEW ROAD ^{the location}	SAINT CHARLES, MO	487-585-6249
2. BRIAN WASMILLER	- 1495 N. GRAHAM RD.	Freeland, Mo.	48623
3. Pete Wasmiller	- 11081 GEDDES	FREELAND	48623
4. Jane Wasmiller	- 11081 Geddes Rd -	Freeland	48623
5. Steve Spellenberg	1615 N. Graham Rd.	Freeland	48623
6. Dave Thompson	1118 N Graham	Sage	48609
7. Anna Lisa	1118 N Graham	Sage	48609
8. Christy	1118 N Graham Rd	Sage	48609
9. Julie Trinkle	11535 CRATIOT	Sage	48609
10. David Miller	11307 GEDDES	FREE	48623
11. Donald Leedy	11491 CRATIOT	SAGE	48609
12. John	1118 N Graham	SAGE	48609
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			



DATE: January 5, 2010

TO: Saginaw Charter Township
4980 Shattuck
Saginaw, MI 48603

FROM: Thomas Township
249 North Miller Road
Saginaw, MI 48609

RE: Approved Future Land Use Map Update

Ladies and Gentlemen:

This letter is to inform you that at their November 18, 2009 meeting, the Thomas Township Planning Commission approved the amendment to the Future Land Use Map to include the Solar Technology/Renewable Energy Overlay District. Enclosed please find a copy of the map amendment.

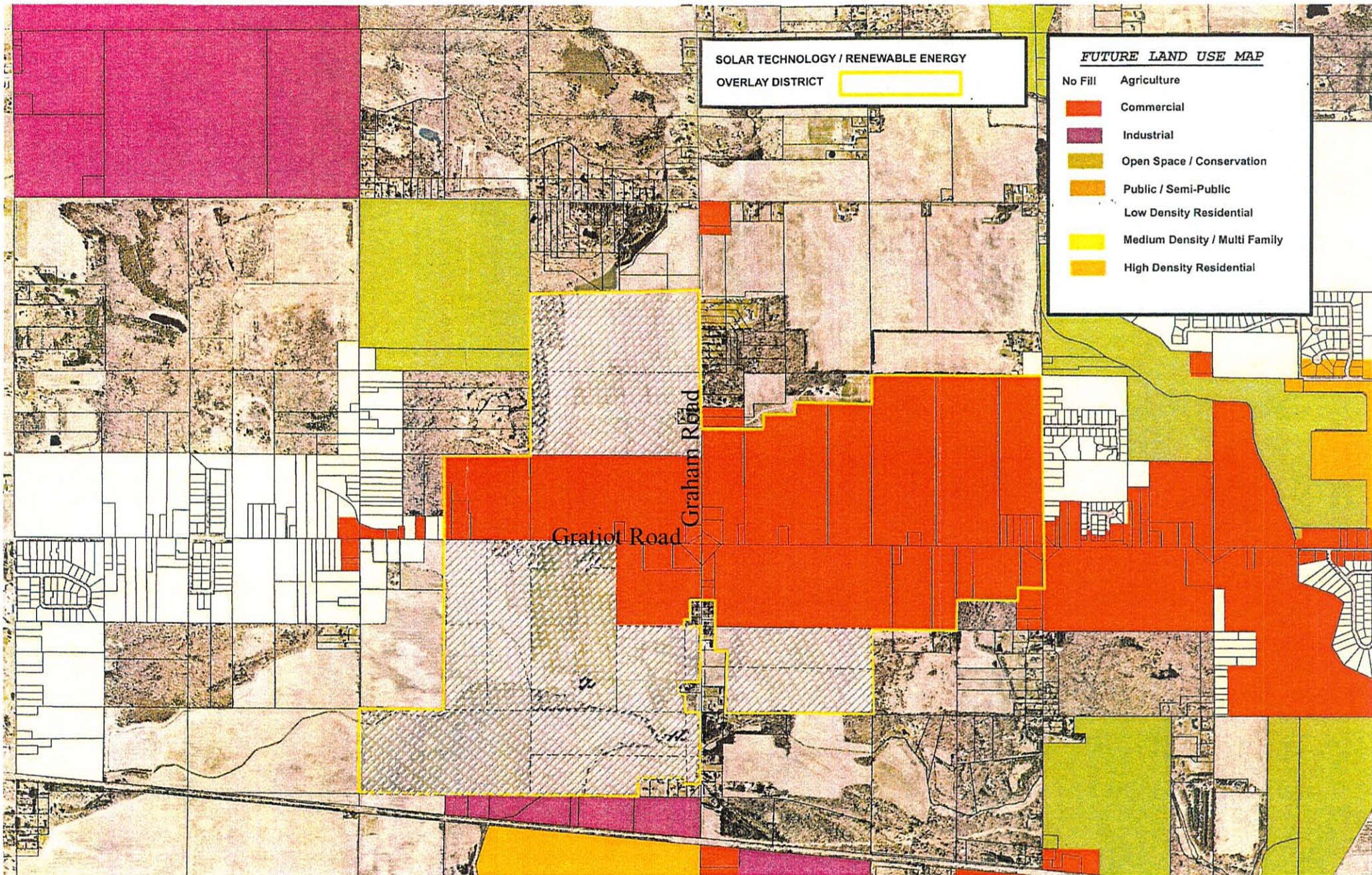
If you have any questions related to this amendment, please do not hesitate to contact Dan Sika, Director of Community Development at (989) 781-0150.

Sincerely,

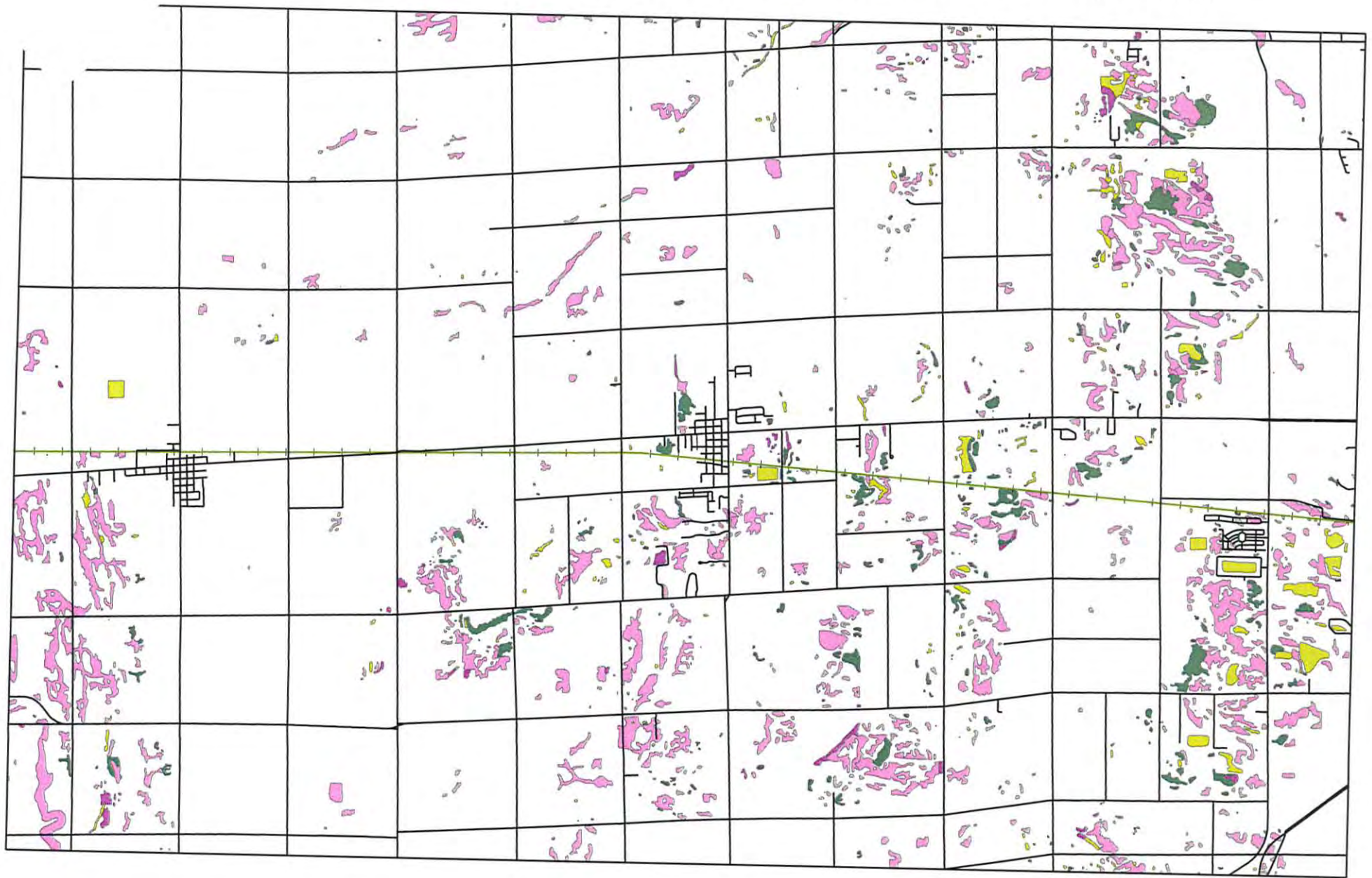
Thomas Township Planning Commission

Enclosure





Conductor Infrastructure Improvements: PROJECT AMENDMENT December 2009



Source: Michigan Geographic Information Center, Geographic Framework for Saginaw County, National Wetlands Inventory

Supporting Documentation 6

Site Noise Evaluation Worksheets

January 18, 2010

**Worksheet A
Site Evaluation**

Noise Assessment Guidelines

Site Location
1000 N. Graham (Intersection of Gratiot / Graham)
 Program
Community Dev Block Grant
 Project Name
Solar Development Project Site
 Locality
Thomas Township, Saginaw County
 File Number

Sponsor's Name
Saginaw County
 Street Address
111 S. Michigan
 Phone
989
 City, State
Saginaw 48602

	Acceptability Category	DNL	Predicted for Operations in Year
1. Roadway Noise	<u>Normally Unacceptable</u>	<u>65.6</u>	
2. Aircraft Noise			
3. Railway Noise			

Value of DNL for all noise sources: (see page 3 for combination procedure)

Final Site Evaluation (circle one)

Acceptable

Normally Unacceptable

Unacceptable

NAL is worse case scenario. No residential structure or living quarters are proposed.

Signature Royt Smith

Date 1/18/10

Clip this worksheet to the top of a package containing Worksheets B-E and Workcharts 1-7 that are used in the site evaluations

**Worksheet B
Aircraft Noise**

Noise Assessment Guidelines

List all airports within 15 miles of the site:

1. MBS International Airport
2. _____
3. _____

Necessary Information:

Airport 1 Airport 2 Airport 3

- | | | | |
|--|-----------|-------|-------|
| 1. Are DNL, NEF or CNR contours available?
(yes/no) | <u>No</u> | _____ | _____ |
| 2. Any supersonic aircraft operations?
(yes/no) | _____ | _____ | _____ |
| 3. Estimating approximate contours from Figure 3: | | | |
| a. number of nighttime jet operations | _____ | _____ | _____ |
| b. number of daytime jet operations | _____ | _____ | _____ |
| c. effective number of operations
(10 times a + b) | _____ | _____ | _____ |
| d. distance A for 65 dB | _____ | _____ | _____ |
| 70dB | _____ | _____ | _____ |
| 75 dB | _____ | _____ | _____ |
| e. distance B for 65 dB | _____ | _____ | _____ |
| 70 dB | _____ | _____ | _____ |
| 75 dB | _____ | _____ | _____ |
| 4. Estimating DNL from Table 2: | | | |
| a. distance from 65 dB contour to
flight path, D ¹ | _____ | _____ | _____ |
| b. distance from NAL to flight
path, D ² | _____ | _____ | _____ |
| c. D ² divided by D ¹ | _____ | _____ | _____ |
| d. DNL | _____ | _____ | _____ |
| 5. Operations projected for what year? | _____ | _____ | _____ |
| 6. Total DNL from all airports | _____ | _____ | _____ |

* DNL's are not available. Project area is outside of noise and flight paths/patterns.

Signed Ponyt Goutin

Date 1/18/10

List all major roads within 1000 feet of the site:

1. Graham Road
2. Gratiot Road
3. _____
4. _____

Necessary Information	Road 1	Road 2	Road 3	Road 4
1. Distance in feet from the NAL to the edge of the road				
a. nearest lane	250	100		
b. farthest lane	310	130		
c. average (effective distance)	280	115		
2. Distance to stop sign	NA	NA		
3. Road gradient in percent	1% ⁺	1% ⁺		
4. Average speed in mph				
a. Automobiles	55	55		
b. heavy trucks - uphill	55	55		
c. heavy trucks - downhill	—	—		
5. 24 hour average number of automobiles and medium trucks in both directions (ADT)				
a. automobiles	14760	5000		
b. medium trucks		400		
c. effective ADT (a + (10xb))	14760	9000		
6. 24 hour average number of heavy trucks				
a. uphill				
b. downhill				
c. total	4640 ⁺	100		
7. Fraction of nighttime traffic (10 p.m. to 7 a.m.)	15%	15%		
8. Traffic projected for what year?	2025	2025		

* distance from NAL to roadway is based on proposed site location of initial first phase of development.

(traffic signal)

* Assumes 10% of ADT is heavy truck traffic

Adjustments for Automobile Traffic

	9 Stop and-go Table 3	10 Average Speed Table 4	11 Night- Time Table 5	12 Auto ADT (line 5c)	13 Adjusted Auto ADT	14 DNL (Workchart 1)	15 Barrier Attenuation	16 Partial DNL
Road No. 1	1	x 1	x 1	x 14760	=		- 58	=
Road No. 2	1	x 1	x 1	x 9000	=		- 61.5	=
Road No. 3		x	x	x	=		-	=
Road No. 4		x	x	x	=		-	=

Adjustments for Heavy Truck Traffic

	17 Gradient Table 6	18 Average Speed Table 7	19 Truck ADT / 2	20	21	22 Stop and-go Table 8	23 Night- Time Table 5	24 Adjusted Truck ADT	25 DNL (Work- chart 2)	26 Barrier Attn.	27 Partial DNL
Road No. 1	Uphill	1	x 1	x 820	= 820	Add 820	x 1	x 1	= 820		= 62
	Downhill		x	= NA							
Road No. 2	Uphill	1	x 1	x 100	=	Add 100	x 1	x 1	= 100		= 53
	Downhill		x	=							
Road No. 3	Uphill		x	x	=	Add	x	x	=		=
	Downhill		x	=							
Road No. 4	Uphill		x	x	=	Add	x	x	=		=
	Downhill		x	=							

Combined Automobile & Heavy Truck DNL

Road No. 1 63.5 Road No. 2 62.10 Road No. 3 _____ Road No. 4 _____ Total DNL for All Roads 65.6

62 - 58 = 4; 62 + 1.5 = 63.5 63.5 + 2.1 = 65.6
 61.5 - 53 = 8.50; 61.5 + .6 = 62.10

Signature Brynt Smith

Date 1/18/10

List All Railways within 3000 feet of the site:

1. NA
2. _____
3. _____

Necessary Information:

Railway No. 1 Railway No. 2 Railway No. 3

- | | | | |
|--|-------|-------|-------|
| 1. Distance in feet from the NAL to the railway track: | _____ | _____ | _____ |
| 2. Number of trains in 24 hours: | | | |
| a. diesel | _____ | _____ | _____ |
| b. electrified | _____ | _____ | _____ |
| 3. Fraction of operations occurring at night
(10 p.m. -- 7 a.m.): | _____ | _____ | _____ |
| 4. Number of diesel locomotives per train: | _____ | _____ | _____ |
| 5. Number of rail cars per train: | | | |
| a. diesel trains | _____ | _____ | _____ |
| b. electrified trains | _____ | _____ | _____ |
| 6. Average train speed: | _____ | _____ | _____ |
| 7. Is track welded or bolted? | _____ | _____ | _____ |
| 8. Are whistles or horns required
for grade crossings? | _____ | _____ | _____ |

Adjustments for Diesel Locomotives

	9 No. of Locomotives 2	10 Average Speed Table 9	11 Horns (enter 10)	12 Night- time Table 5	13 No. of Trains (line 2a)	14 Adj. No. of Opns.	15 DNL Workchart 3	16 Barrier Attn.	17 Partial DNL
Railway No. 1	X	X	X	X	X	=	-	=	
Railway No. 2	X	X	X	X	X	=	-	=	
Railway No. 3	X	X	X	X	X	=	-	=	

Adjustments for Railway Cars or Rapid Transit Trains

	18 Number of cars 50	19 Average Speed Table 10	20 Bolted Rails (enter 4)	21 Night- time Table 5	22 No. of Trains (Line 2a or 2b)	23 Adj. No. of Opns.	24 DNL Work- chart 4	25 Barrier Attn.	26 Partial DNL
Railway No. 1	X	X	X	X	X	=	-	=	
Railway No. 2	X	X	X	X	X	=	-	=	
Railway No. 3	X	X	X	X	X	=	-	=	

Combined Locomotive and Railway Car DNL

Railway No. 1 _____ Railway No. 2 _____ Railway No. 3 _____ Total DNL for all Railways _____

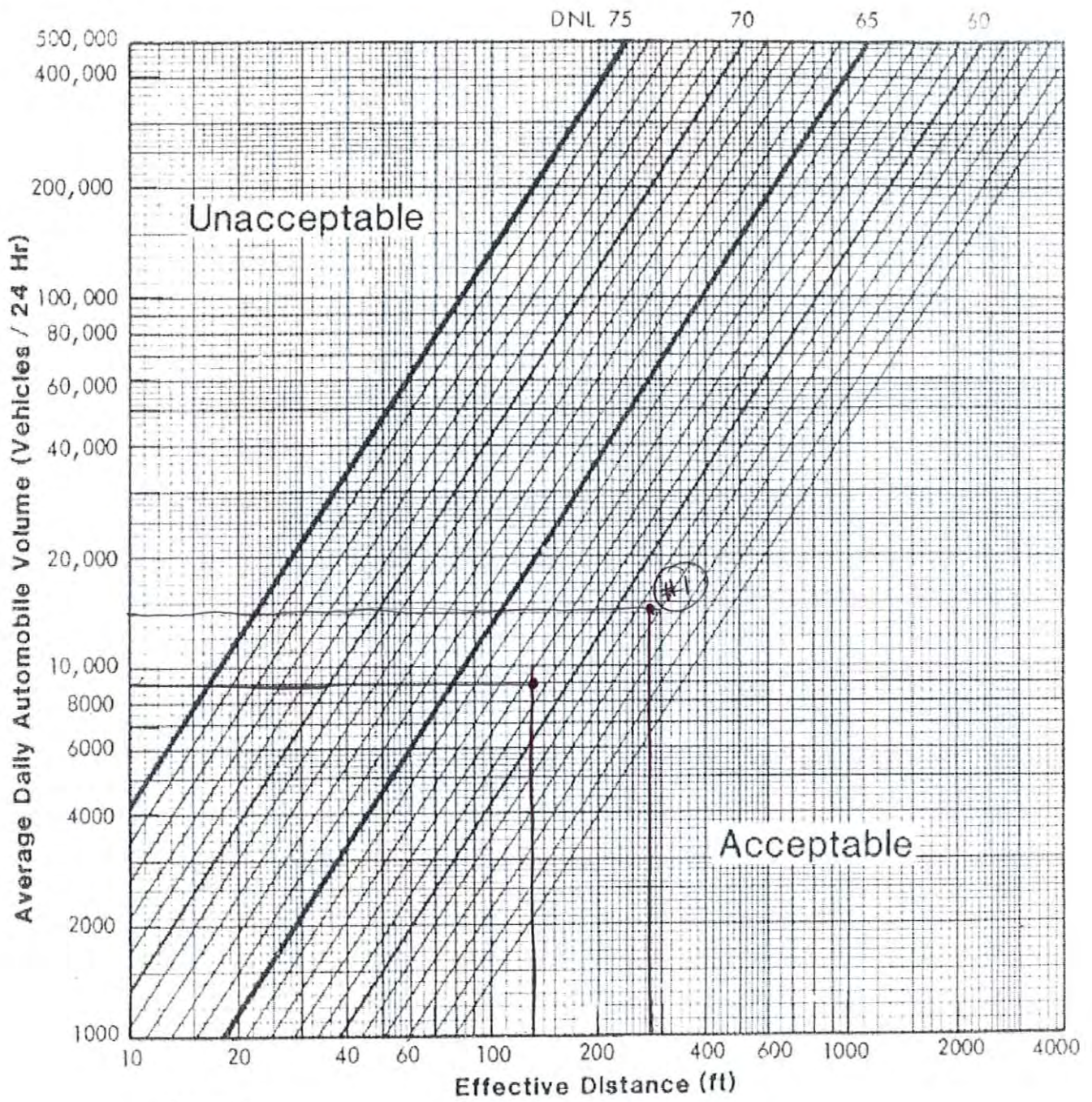
Signature

Boyd Smith

Date

1/18/10

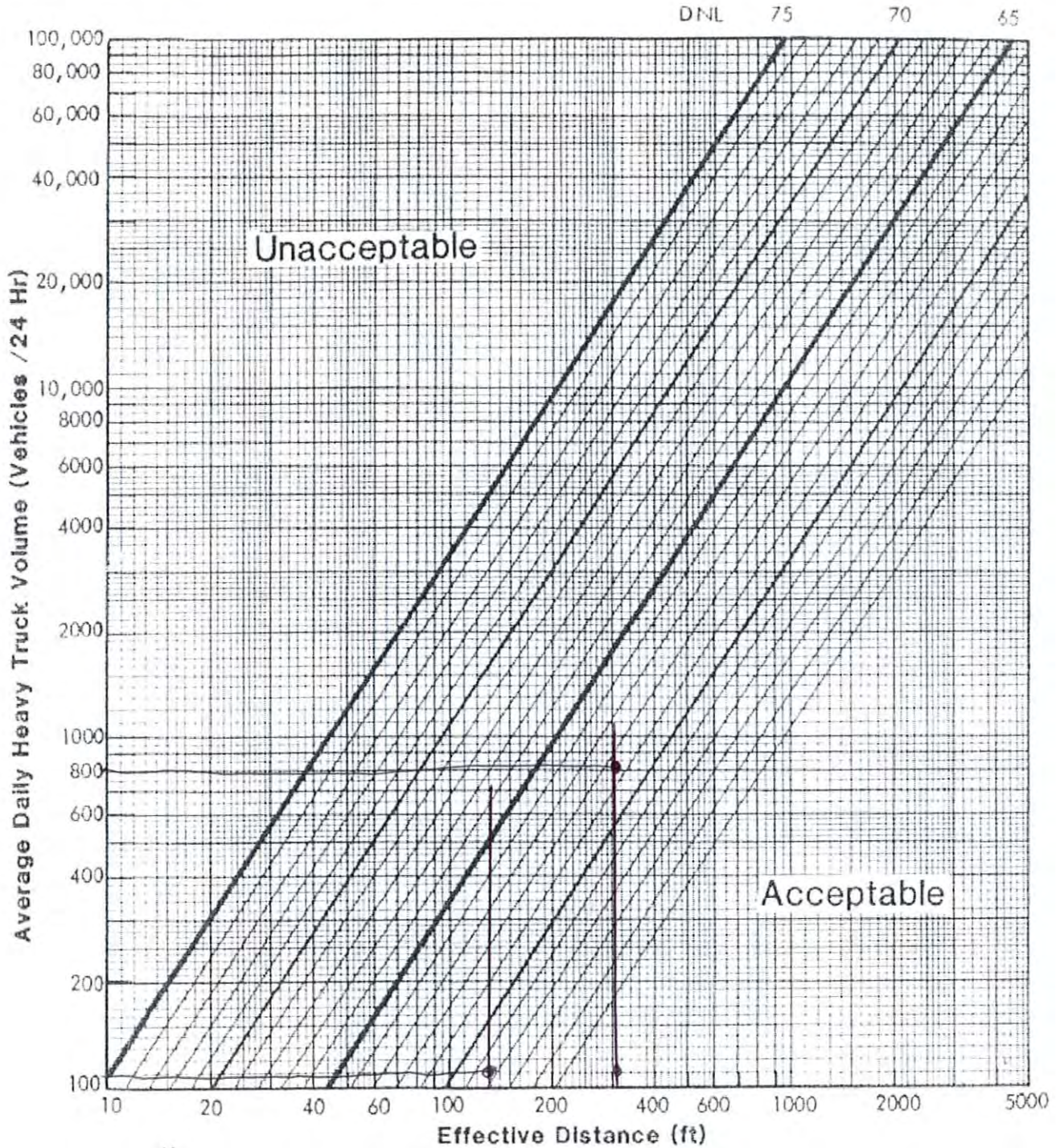
Workchart 1
Autos (55 mph)



#1 = 58

#2 = 61.5

Workchart 2
Heavy Trucks (55 mph)



#1 = 62

#2 = 53

Supporting Documentation 7

Description of Infrastructure Improvements Proposed for Project

October 19, 2009

From: Olson, John E. (johno@spicergroup.com)
To: Bridget Isquierdo Smith
Date: Mon, October 19, 2009 11:41:01 AM
Cc: Russ Taylor
Subject: RE: another question on infrastructure

Bridget:

Transmission main is going on the south side of the road from the Gratiot Road Pumping Station to at least Graham Road (depending on where the elevated tank is sited). The intent is to reconnect the water services on the south side of Gratiot to this main to eliminate the service crossings under Gratiot Road. There will be minor water service disconnection work on the north side of the road.

The route will then go north on Graham to the elevated tank; then to Geddes Road, then west along Geddes Road from Graham to Gleaner.

Transmission main is HSC-driven. Upsizing from 16" to 20" is Township driven based on expected growth in the Township.

Does this help? Let me know if you need more info.

John

John E. Olson, P.E.
Spicer Group, Inc.

-----Original Message-----

From: Bridget Isquierdo Smith [mailto:bi_smith@yahoo.com]
Sent: Monday, October 19, 2009 11:01 AM
To: Olson, John E.
Subject: another question on infrastructure

Hi John -

For the work along Gratiot, what is the extent and on what side of the road? Is it a transmission line? From the information I have I assume it's running on the south side of Gratiot, at least to Swanson. Also, what is the "cause" of the work - is it related to HSC or the new solar development?

Thanks

Bridget

1.5 Million Gallon Elevated Water Storage Tank

A new elevated water storage tank is being proposed for Thomas Township to help stabilize water pressures in the area, to help increase available fire flows, and to increase the amount of stored water for use in the event of a disruption in the water supply. The existing 300,000 gallon elevated tank located along Miller Road at the Township Offices will be demolished after the new tank is in service.

The new elevated tank will be approximately 1.5 million gallons in volume. The tank will be approximately 100' in diameter and 150' tall. There will be a footing for the tank that will need to be excavated and constructed in-place with concrete. An access road and security fencing will be constructed on the site, as well as a bulk water sales facility.

A water main will need to be constructed on the site to convey the water to and from the elevated tank from the distribution system. A new electrical service will also need to be installed to the site. Eventually, antennae space will be leased on the top of the elevated tank to communications providers.

Faucher Drain Improvements

The Faucher Drain is a designated County Drain that serves the Faucher property. Currently, the drain is 2-3' deep at its beginning point located within the Faucher property. The Drain currently meanders southwesterly approximately $\frac{3}{4}$ miles to discharge to the Abbey Drain. In order to provide enhanced drainage for the Faucher property, the drain will need to be deepened from the Faucher property to the discharge point at the Abbey Drain. The portion located within the Faucher property will be enclosed, while the remainder of the Drain will remain open. A new crossing of Gratiot Road (M-46) may need to be constructed. The drain construction will consist of clearing the trees, brush and debris from the drain, constructing a new drainage channel or storm sewer piping, restoration, and soil erosion and sedimentation control using best management practices.

Supporting Documentation 8

Floodplain Map

May 2000

FIRM
FLOOD INSURANCE RATE MAP

SAGINAW COUNTY
MICHIGAN
(ALL JURISDICTIONS)

PANEL 65 OF 360
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
	THOMAS TOWNSHIP OF	260603	0065	D
	TITABAWASSEE TOWNSHIP OF	260504	0065	D

Notice to User: The MAP NUMBER shown below should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

MAP NUMBER 26145C0065 D
EFFECTIVE DATE: OCTOBER 16, 1997

PANEL 70 OF 360
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
	SAGINAW TOWNSHIP OF	260190	0070	D
	THOMAS TOWNSHIP OF	260603	0070	D
	TITABAWASSEE TOWNSHIP OF	260504	0070	D

Notice to User: The MAP NUMBER shown below should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

MAP NUMBER 26145C0070 D
EFFECTIVE DATE: OCTOBER 16, 1997

PANEL 75 OF 360
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
	KOCHVILLE TOWNSHIP OF	260501	0075	D
	SAGINAW TOWNSHIP OF	260190	0075	D
	THOMAS TOWNSHIP OF	260603	0075	D
	TITABAWASSEE TOWNSHIP OF	260504	0075	D

Notice to User: The MAP NUMBER shown below should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

MAP NUMBER 26145C0075 D
EFFECTIVE DATE: OCTOBER 16, 1997

PANEL 125 OF 360
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
	JAMES TOWNSHIP OF	260802	0125	D
	SHAW CREEK TOWNSHIP OF	260508	0125	D
	THOMAS TOWNSHIP OF	260603	0125	D

Notice to User: The MAP NUMBER shown below should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

MAP NUMBER 26145C0125 D
EFFECTIVE DATE: OCTOBER 16, 1997

PANEL 130 OF 360
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
	JAMES TOWNSHIP OF	260802	0130	D
	SAGINAW TOWNSHIP OF	260190	0130	D
	THOMAS TOWNSHIP OF	260603	0130	D

Notice to User: The MAP NUMBER shown below should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

MAP NUMBER 26145C0130 D
EFFECTIVE DATE: OCTOBER 16, 1997

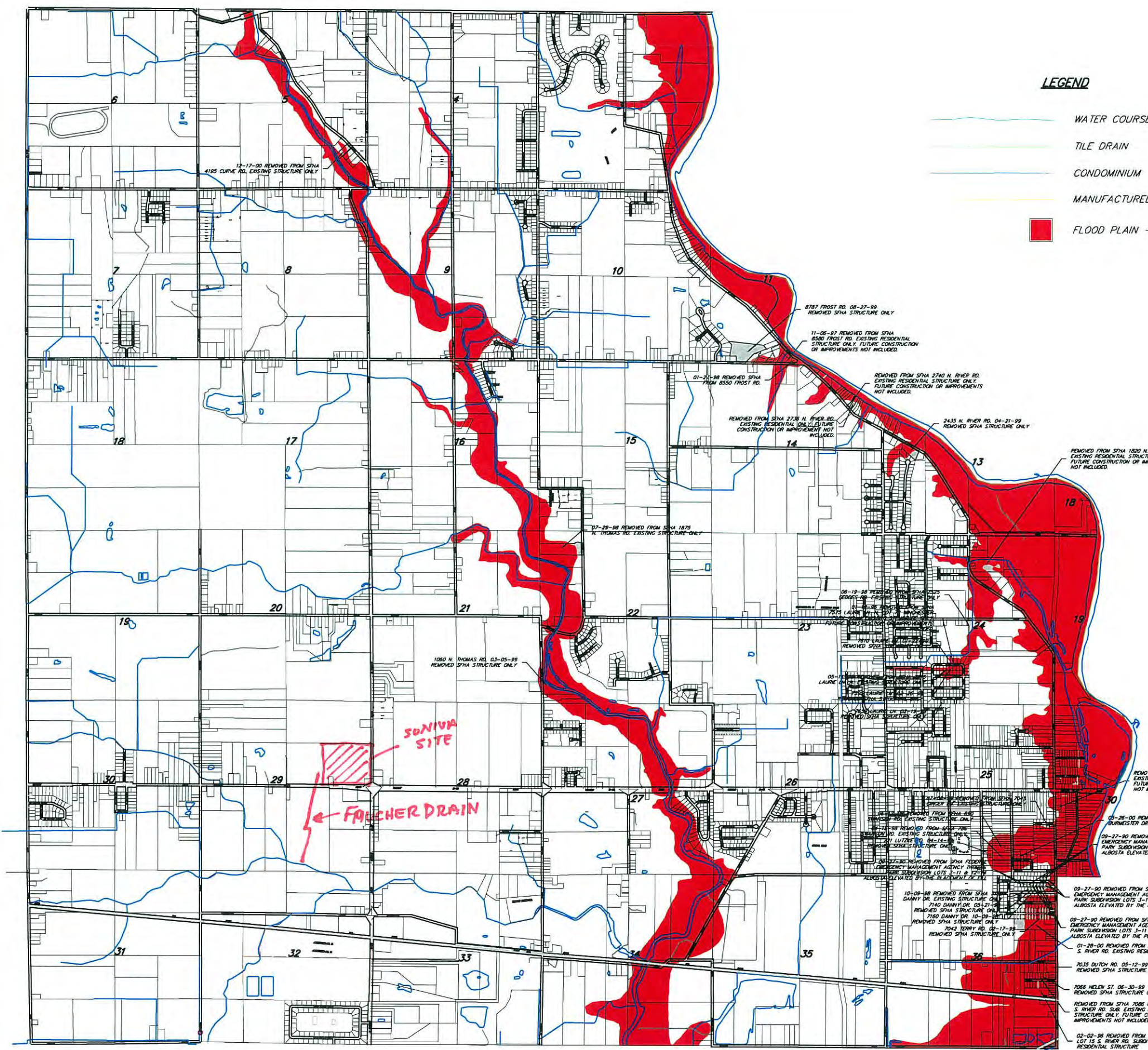
LEGEND

-  WATER COURSES
-  TILE DRAIN
-  CONDOMINIUM
-  MANUFACTURED HOME COMMUNITIES
-  FLOOD PLAIN - BASED ON FEMA Q3 DATA



SCALE: 1" = 1600'

THOMAS TOWNSHIP
T.12N.-R.3E.
SAGINAW COUNTY, MICHIGAN



REVISIONS	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			

COMPUTER NUMBER: 1531
FILE NAMES: W:\MAPPING\THOMAS\BASE DWS
FILE NAMES: W:\MAPPING\THOMAS\TH12N\ZONINGBASE\SFHBASE.PCP
FILE NAMES: W:\MAPPING\THOMAS\TH12N\ZONINGBASE\SFHBASE.PCP

MARK	REVISIONS	DATE

THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

THOMAS TOWNSHIP

FLOOD PLAIN MAP

DATE	MAY, 2000	SHEET	1 OF 1
SCALE	1" = 1600'	FILE NO.	D3620
STDS.			

Spicer Group
230 S. Washington Ave.
P.O. Box 1689
Saginaw, MI 48605-1689
Tel. 517-754-4417
Fax. 517-754-4440



Spicer Group
100 S. Ottawa
St. Johns, MI 48879
Tel. 517-224-2355
Fax. 517-224-2357

Supporting Documentation 9

Wetland Inventory Map

Attachment H – Legal Advertisement for the FONSI/RROF

COMBINED NOTICE
NOTICE TO PUBLIC OF NO
SIGNIFICANT IMPACT
ON THE ENVIRONMENT
AND NOTICE TO PUBLIC
OF REQUEST FOR RE-
LEASE OF FUNDS

TO ALL INTERESTED
AGENCIES, GROUPS AND
PERSONS:

County of Saginaw
111 S. Michigan
Saginaw, MI 48601

Contact: Steve Jonas at (989)
757-2107

TO ALL INTERESTED
AGENCIES, GROUPS AND
PERSONS:

On or about February 26, 2010
Saginaw County will request
the State of Michigan to re-
lease Federal funds under Title
I of the Housing and Commu-
nity Development Act of 1974
(P.L. 93-383) for the following
project: Suniva M&E Project
MSC209112-EDME

Suniva Machinery and Equip-	
ment Loan	
Estimated State Grant:	
\$2,500,000	
Private Invest-	
ment of	\$250,000,000

The economic development
machinery and equipment
grant is being requested for
machinery and equipment pur-
chases to help locate a new
solar cell manufacturer. The
grant is necessary to support
the development of a new re-
newable energy company to
be located in the new renew-
able energy park at M-52 and
M-46 (the Faucher property)
in Thomas Township Saginaw
County, MI.

Finding of No Significant Im-
pact

It has been determined that
such request for release of
funds will not constitute an
action significantly affect-
ing the quality of the human
environment and accordingly

the above-named County has
decided not to prepare an En-
vironmental Impact Statement
(EIS) under the National En-
vironmental Policy Act of 1969
(P.L. 91-190).

The reasons for such decision
not to prepare an EIS are as
follows:

The grant is necessary to sup-
port the development of a new
renewable energy company
that proposes to invest \$250M
and create 500 jobs. This pro-
ject does not propose an action
which will adversely affect the
existing property nor the sur-
rounding area.

An Environmental Review Re-
cord respecting the proposed
project has been made by the
above-named County which
documents the environmental
review of the project and more
fully sets forth the reasons why
and EIS is not required. This
Environmental Review Record
is on file at Saginaw Future
Inc., 515 N. Washington Ave.,
3rd Floor, Saginaw MI 48607
and is available for public ex-
amination and copying upon
request weekdays from 8 A.M.
to 5 P.M.

No further environmental re-
view of such project is pro-
posed to be conducted prior to
the request for release of fed-
eral funds.

Public Comments on Finding

All interested agencies, groups
and persons disagreeing with
this decision are invited to
submit written comments for
consideration by the County
to Saginaw Future Inc. 515 N.
Washington Ave., 3rd Floor,
Saginaw, MI 48607 on or be-
fore February 25, 2010. All
such comments so received
will be considered and the
County will not request the
release of federal funds or take
any administrative action on
the proposed project prior to
the date specified in the pre-
ceding sentence.

Release of Funds

The County of Saginaw will
undertake the project described
above with Community De-
velopment Block Grant funds
from the State of Michigan
under Title I of the Housing
and Community Development
Act of 1974. Saginaw County
is certifying to the State of
Michigan that Marc McGill,
in his official capacity as the
Controller of Saginaw County
consents to accept the jurisdic-
tion of the federal courts if an
action is brought to enforce
responsibilities in relation to
environmental reviews, deci-
sion-making and action; and
that these responsibilities have
been satisfied. The legal effect
of the certification is that upon
its approval Saginaw County
may use the Block Grant funds
and the state will have satisfied
its responsibilities under the
National Environmental Policy
Act of 1969.

OBJECTIONS TO STATE
RELEASE OF FUNDS

The State of Michigan will
accept an objection to its ap-
proval only if it is on one of
the following bases: (a) that
the certification was not in fact
executed by the certifying offi-
cer or other officer of applicat
approved by the State of Mich-
igan; or b) that applicant's en-
vironmental review record for
the project indicated omission
of a required decision finding
or step applicable to the project
in the environmental review
process. Objections must be
prepared and submitted to the
State of Michigan, Michigan
Economic Development Cor-
poration, 300 N. Washington
Square, 4th Floor, Lansing MI
48913.

Objections to the release of
funds on bases other than those
stated above will not be con-
sidered by the state. No objec-
tion received after March 15,
2010 will be considered by the
state.

Marc McGill, Controller
County of Saginaw
111 S. Michigan
Saginaw, MI 48601