CHARTER TOWNSHIP OF MERIDIAN
PLANNING COMMISSION
AGENDA

WORK SESSION MEETING
AND
REGULAR MEETING

NOVEMBER 9, 2015

Meridian Municipal Building
5151 Marsh Road, Okemos, MI 48864

Work Session Meeting – Administrative Conference Room

1. Call meeting to order at approximately 6:00 p.m.
2. Approval of agenda
3. Discussion
   A. Master Plan Request for Proposals
4. Public Remarks
5. Adjournment

Regular Meeting – Town Hall Room

1. Call meeting to order at approximately 7:00 p.m.
2. Approval of agenda
3. Approval of minutes
   A. October 26, 2015 Regular Meeting
4. Public remarks
5. Communications
   A. Ginger Yang — RE: ZA #15070 (Planning Commission & Corridor Improvement Authority)
6. Public Hearings
   A. Special Use Permit #15141 (Chvala), request to work in the 100-year floodplain to construct at pond at 5384 Van Atta Road

B. Wetland Use Permit #15-02 (Chvala), request to impact wetlands to construct a pond at 5384 Van Atta Road

C. Zoning Amendment #15080 (Township Board), proposal to amend Section 86-473 Street Trees

7. Unfinished Business

A. Rezoning #15050 (McCurdy), request to rezone 5458 Okemos Road from RAAA (Single Family Low Density) to RR (Rural Residential).

8. Other Business

9. Township Board, Planning Commission officer, committee chair, and staff comment or reports

A. Future Projects/New Applications

None

B. Update of Ongoing Projects

i. Site Plans Received - None

ii. Site Plans Approved - None

10. Public Remarks

11. Adjournment

Post Script: Richard Honicky

The Planning Commission's Bylaws state agenda items shall not be introduced for discussion or public hearing that is opened after 10:00 p.m. The chair may approve exceptions when this rule would cause substantial backlog in Commission business (Rule 5.14 Limit on Introduction of Agenda Items).

Persons wishing to appeal a decision of the Planning Commission to the Township Board in the granting of a Special Use Permit must do so within ten (10) days of the decision of the Planning Commission (Sub-section 86-189 of the Zoning Ordinance)

TENTATIVE
PLANNING COMMISSION AGENDA

Work Session Meeting
and
Regular Meeting
November 23, 2015

Meridian Municipal Building
5151 Marsh Road, Okemos, MI 48864

Work Session Meeting – Administrative Conference Room

1. 2005 Master Plan Update

Regular Meeting – Town Hall Room

1. Public Hearings

2. Unfinished Business

   A. Special Use Permit #15141 (Chvala), request to work in the 100-year floodplain to construct at pond at 5384 Van Atta Road

   B. Wetland Use Permit #15-02 (Chvala), request to impact wetlands to construct a pond at 5384 Van Atta Road

   C. Zoning Amendment #15080 (Township Board), proposal to amend Section 86-473 Street Trees

3. Other Business

CHARTER TOWNSHIP OF MERIDIAN
PLANNING COMMISSION
REGULAR MEETING MINUTES
October 26, 2015

DRAFT

5151 Marsh Road, Okemos, MI 48864-1198
853-4000, Town Hall Room, 7:00 P.M.

PRESENT:	Commissioners Cordill, DeGroff, Deits, Ianni, Scott-Craig, Tenaglia (7:06 P.M), Van Coevering
ABSENT:	Commissioners Honicky, Jackson
STAFF:	Principal Planner Oranchak, Associate Planner Menser

1. **Call meeting to order**
   Chair Scott-Craig called the regular meeting to order at 7:00 P.M.

2. **Approval of agenda**
   Commissioner DeGroff moved to approve the agenda as amended. Seconded by Commissioner Ianni.

   VOICE VOTE: Motion carried 6-0.

3. **Approval of Minutes**
   Commissioner Ianni moved to approve the Regular Meeting Minutes of October 12, 2015. Seconded by Commissioner Cordill.

   VOICE VOTE: Motion carried 6-0.

4. **Public Remarks**
   Chair Scott-Craig opened the floor for public remarks.

   Neil Bowlby, 6020 Beechwood Drive, Haslett, identified parcels he believed do not fit the criteria for inclusion in the Corridor Improvement Authority.

   William Kirkman Green, 5473 Okemos Road, East Lansing, spoke in support of Rezoning #15050 (McCurdy).

   Chair Scott-Craig closed public remarks.

5. **Communications**
   A. Elaine Hauptman, 2068 Tomahawk Road, Okemos; RE: Special Use Permit #14101 (Fedewa)[1]
   B. Neil Bowlby, President, LINC, 6020 Beechwood Drive, Haslett; Re: Corridor Improvement Authority (CIA)

6. **Public hearings** (None)

7. **Unfinished Business**

[1] Upon inquiry, staff provided clarification regarding the corrected site plan.

A. Rezoning #15050 (McCurdy), request to rezone 5458 Okemos Road from RAAA (Single Family Low Density) to RR (Rural Residential)

Planning Commission discussion:

- Planning Commissioner belief this case is similar to a recent rezoning request which was approved
- Need for consistency in the Planning Commission's decision making
- The proposed rezoning centers around non-conforming use
- Planning Commissioner belief the proper forum would be for the Township Board to allow this type of use in the RAAA zoning district
- Rezoning will likely make more problems for the area
- Trend for more "checkerboarding" of uses in the future (e.g. Detroit)
- Policy and ordinance based issues regarding pocket agricultural uses
- Previous case mentioned earlier was a default RR zoning where this case is an affirmative decision to rezone to RR
- Four (4) rabbits and chickens are currently allowed in residential zones
- Quantity v. nature of the type of animal
- Planning Commissioner preference to allow the Board to answer the policy question
- In the case previously compared, this area has a very different development pattern than the Hiawatha neighborhood
- Planning Commissioner opposition to the process, not the goats
- Reading of the Board minutes seemed to indicate the Board asked the applicant to request the rezoning as a means to solve the code violation with the keeping of goats
- Reminder that the Township Board is requesting the Planning Commission's advice on this rezoning request
- Planning Commissioner belief neighbor's support for this rezoning request is relevant
- All uses within the RR zoning category would be allowed by right if this rezoning request was approved
- No limit to the number of goats allowed in the RR zoning district, and the applicant has indicated he plans to engage in a small commercial operation selling goat milk and goat cheese
- Special use permit (SUP) process is more appropriate than a rezoning in this instance, although one is not currently available in our ordinance
- Planning Commission should look at land use when considering a rezoning request, thoroughly vetting all possible uses permitted within the zoning category
- Reminder that the zoning runs with the property, irrespective of the current owner
- Concern with what all future owners would have a right to do within the RR zoning category
- Surrounding residential subdivisions were developed according to the Master Plan, and this rezoning would be contrary to the Master Plan
- Township will not move forward with any legal process until this issue is resolved
- E-mail complaint about the keeping of goats is not subject to a Freedom of Information Act (FOIA) request as determined by the Township Attorney

It was the consensus of the Planning Commission to place this item on for action at its November 9, 2015 meeting.

B. Zoning Amendment #15070 (Planning Commission), amend Section 86-2 Definitions and Section 86-438 Wireless Communication Facilities Overlay District to comply with federal and state regulations.

Commissioner Cordill moved [and read into the record] NOW THEREFORE BE IT RESOLVED THE PLANNING COMMISSION OF THE CHARTER TOWNSHIP OF MERIDIAN hereby recommends approval of Zoning Amendment #15070, to amend Section

86-2 Definitions and Section 86-438 Wireless Communications Facility Overlay District of the Code of Ordinances to ensure consistency with the Michigan Zoning Enabling Act, P. A. 110 of 2006. Seconded by Commissioner Ianni.

Planning Commission discussion:

- Amendment would bring the Township into compliance with state law
- Concern with language in Section 86-438 (c) (2) c. 1. regarding the restriction in adding height when there is no restriction to the height itself
- Section 86-438 (c) (2) c. 1. is a requirement in state law

ROLL CALL VOTE: YEAS: Commissioners Cordill, DeGroff, Deits, Ianni, Tenaglia, Van Coevering, Chair Scott-Craig
NAYS: None
Motion carried 7-0.

8. Other Business

A. Corridor Improvement Authority (CIA)

Associate Planner Menser summarized the proposed CIA concept as outlined in staff memorandum dated October 22, 2015.

Chris Buck, 2642 Loon Lane, Okemos and Economic Development Corporation Chair, noted this is an opportunity to have a group of volunteers help vet the future of the CIA and collaborate with neighboring municipalities.

Planning Commission discussion:

- Township Board will approve the final CIA boundary
- Staff will review if the boundary meets all the criteria outlined in state law
- Concern with forfeiting local control over development in the Township with a CIA inter-local agreement
- CIA would review the project and provide an informal recommendation to the Planning Commission and Township Board
- Meridian Township is under no obligation to join neighboring communities
- Single family residences on Grand River Avenue would likely be affected by a CIA
- Property within the CIA must be contiguous
- Planning Commissioner recommendation to have a substantial reduction along the eastern edge
- Planning Commissioner recommendation to stop on the south side at the east end near Northwind Drive
- Planning Commissioner recommendation to stop on the north side at the west end of the driving range
- Planning Commissioner suggestion for staff to review the possibility of the boundary being contiguous with the Okemos Downtown Development Authority (DDA)
- Discussions have taken place for some time about expanding the Okemos DDA and many of the areas listed in the CIA have been considered for inclusion in the expanded Okemos DDA
- Planning Commissioner suggestion to make the CIA the Okemos DDA
- Proposed boundary does not mean that all lands contained within will be rezoned to commercial, but would provide more uniformity for lighting and use of form based code
- Planning Commission inquiry if the street can connect the corridor, since the bridge over the railroad tracks essentially has no property on either side of Grand River Avenue
- Staff response there is no clear guidance in the state act regarding this situation, and it appears it could be separate pieces
- Municipalities are allowed to have more than one (1) CIA

- Industrial area is included, which does not have mixed use or high density, but is currently thriving
- All meetings (even unofficial) where Meridian Township is in attendance should have minutes, and those minutes should be posted in the Township
- Appreciation to the Planning Staff for its responsiveness to Planning Commissioner questions asked at the work sessions on this issue

Commissioner Ianni moved to recommend The Township Board proceed with adopting a resolution of intent to create a Corridor Improvement Authority. Seconded by Commissioner DeGroff.

ROLL CALL VOTE: YEAS: Commissioners Cordill, DeGroff, Deits, Ianni, Tenaglia, Van Coevering, Chair Scott-Craig
NAYS: None
Motion carried 7-0.

9. Township Board, Planning Commission officer, committee chair, and staff comment or reports

Commissioner Ianni announced the Okemos Education Foundation (OEF) Awards Banquet will be held on November 19, 2015 at the Kellogg Center with a social hour commencing at 5:30 P.M. and the dinner program at 6:30 P.M. Information and ticket purchase can be found at www.oefsite.org.

Chair Scott-Craig announced a Transportation Forum, sponsored by the American Association of Retired Persons (AARP), was held at the Hannah Center in East Lansing, noting this forum was attended by several Township Board members.

Commissioner Deits reported the Ingham County Trails and Parks Task Force held a public meeting in the Town Hall Room on Thursday, October 15th which was well attended, with many suggestions offered, most notably water trails. He remarked the usefulness of trails increase rapidly as more connections are made.

A. Future Projects/New Applications
   i. Special Use Permit #15141 (Chvala), request to work in the 100-year floodplain to construct at pond at 5384 Van Atta Road

   ii. Wetland Use Permit #15-02 (Chvala), request to impact wetlands to construct a pond at 5384 Van Atta Road

   iii. Zoning Amendment #15080 (Township Board), proposal to amend Section 86-473 Street Trees

B. Update of Ongoing Projects

   i. Site Plans Received – NONE
   ii. Site Plans Approved - NONE

10. Public remarks

Chair Scott-Craig opened and closed public remarks.

11. Adjournment

Chair Scott-Craig adjourned the regular meeting at 8:13 P.M.

Respectfully Submitted,

Sandra K. Otto
Recording Secretary

Gail Oranchak

From: Ginger Yang <lotusvoice48823@gmail.com>
Sent: Tuesday, October 27, 2015 11:50 PM
To: Mark Kieselbach; Gail Oranchak
Cc: Board
Subject: Zoning Amendment #15070 & CIA (Corridor Improvement Authority) initiative

Dear Members of Planning Commission,

I am writing to applaud your initiative of amending Section 86-2 Definitions and Section 86-438 Wireless Communication Facilities Overlay District at the meetings on 10/12 & 10/26. It will pave the way of establishing a more sensible cell tower regulations and, at the same time, comply with federal and state laws. Though a seemingly small step, such amendments will allow theTownship to have more control over the future proposals of installing cell towers within the boarders of Meridian Township.

During the past Summer, I did my homework diligently and made my case against the SUP #15061, which might have allowed a 90-foot-tall cell tower to be installed on a very conspicuous spot on the Township gateway. I appreciated that you spent your time listening to me and that Board members eventually sustained my appeal. I considered it a triumph not only for myself and my business, but also for this community as a whole. It showed that WE, the local people along with the local government, could take on the big corporates and let them know how WE want their services to be utilized in OUR community. We did it and we should be very proud of ourselves!

However, it is not over yet. Now, it's your turn, the Township planning staff, Planning Commission and the Board, to continue the "cell tower saga". In my humble opinion, Commissioners DeGroff, Jackson, Honicky and Scott-Craig have already had some good layout to start with at the meeting on 10/12, such as issues of shock clock, best engineering practice, control over locations, etc. I am hoping by passing the amendments of Section 86-2 Definitions and Section 86-438 Wireless Communication Facilities Overlay District, we will move further to sketch a workable rule overseeing the future cell tower applications. Here is an article I shared with the Board members at the public hearing on 8/18 Board Meeting . Hope you find it useful.

http://paloaltoonline.com/news/print/2015/07/01/new-rules-approved-for-proposed-cell-towers

Last but not least, I was also thrilled to see that you unanimously passed the motion of supporting the CIA initiative. Although there were different ideas and concerns among the Commissioners, this is for sure a very good starting point for the promising future development of our Township. By expanding our horizon and working closely with City of East Lansing, Lansing Township and City of Lansing, the Meridian Township would be a viable part for the project, "The Capitol Corridor: A regional vision for Michigan Ave/Grand River Ave". As a Meridian Township resident and business owner, I thank you all for your hard work.

Sincerely Yours

Ginger Yang, MA, MT-BC, LMT
Owner/Therapist
LotusVoice Integrative Therapies, LLC
4994 Park Lake Rd. East Lansing, MI 48823
517-8970714

lotusvoice48823@gmail.com
www.lotusvoice48823.com

Special Use Permit #15141
(Chvala)
November 5, 2015

APPLICANT:	Cory Chvala 5540 Earliglow Haslett, MI 48840
STATUS OF APPLICANT:	Property owner
REQUEST:	Impacts to the 100-year floodplain from excavation for a pond
CURRENT ZONING:	RR (Rural Residential)
LOCATION:	5384 Van Atta Road
AREA OF THE SUBJECT SITE:	Approximately 16.86 acres
EXISTING AREA LAND USES IN AREA:	North: Single-family homes South: Single-family homes East: Single-family homes West: Single-family homes
CURRENT ZONING IN AREA:	North: RR (Rural Residential) South: RR (Rural Residential) East: RR (Rural Residential) West: RR (Rural Residential)
FUTURE LAND USE MAP:	North: Ag/Residential 0.5 to 1.25 dwelling units per acre South: Ag/Residential 0.5 to 1.25 dwelling units per acre East: Ag/Residential 0.5 to 1.25 dwelling units per acre West: Ag/Residential 0.5 to 1.25 dwelling units per acre

CHARTER TOWNSHIP OF MERIDIAN

MEMORANDUM

TO: Planning Commission

FROM: Gail Oranchak, AICP
Associate Planner

DATE: November 5, 2015

RE: Special Use Permit #15141 (Chvala), a request to excavate material from the 100-year floodplain of the Foster Drain at 5384 Van Atta Road

Cory Chvala has requested a special use permit to excavate material from the floodplain of the Foster Drain to construct a pond. Section 86-436 of the Code of Ordinances requires a special use permit be obtained for proposed impacts to the 100-year floodplain. Impacts to the 100-year floodplain are limited to excavation of natural materials. The site is located on the east side of Van Atta Road south of Piper Road. The site is undeveloped except for an approximately 1,800 square foot pole barn built in 1988. This request is being reviewed concurrently with WUP #15-02.

AERIAL MAP

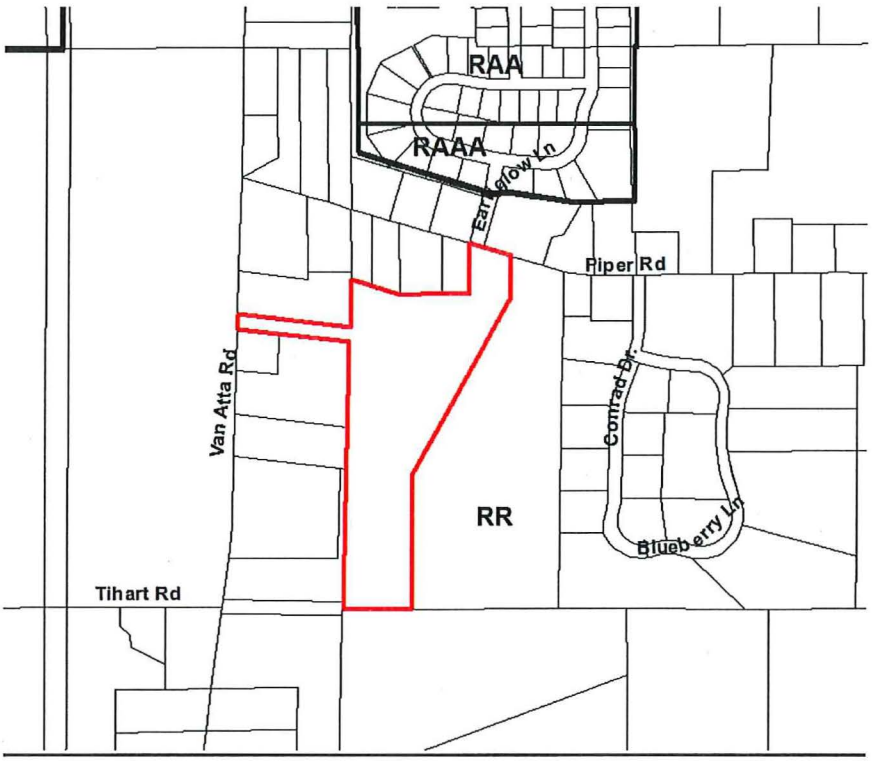
2005 Master Plan

The 2005 Master Plan's Future Land Use Map classifies the subject site and all surrounding and nearby parcels as Agriculture/Residential 0.0-0.5 dwelling units per acre.

Zoning

Zoning for the subject site is RR (Rural Residential). Parcels zoned RR require a minimum 200 feet of lot width and 40,000 square feet of lot area. The subject parcel has frontage on both Van Atta Road (approximately 316 feet) and Piper Road (approximately 207 feet). Lot area is 16.86 acres (734.421.6 square feet).

ZONING MAP



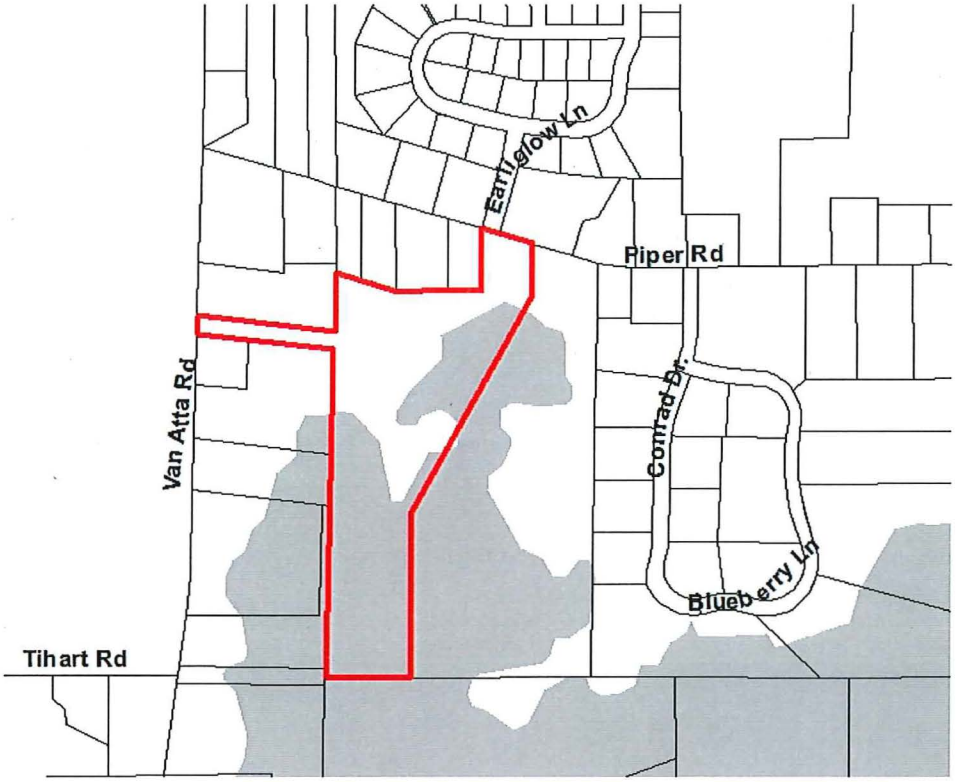
Physical Features

An approximately 1,800 square foot pole barn, built in 1988, is located west of both the existing and proposed wetland boundaries and floodplain elevations. Topography on the northern half of the site gently slopes from a high elevation of 870 feet above mean sea level along the western property line to a low of 861.4 near the eastern property line. Grasses are the predominant vegetation on the site. Stands of trees are located near the Van Atta Road entrance and along the southwest property line.

Floodplain

According to the Township's Flood Insurance Rate Map and Study, the elevation of the 100-year floodplain of the Foster Drain is approximately 863 feet above mean sea level.

FLOODPLAIN MAP



Wetlands

Wetland issues are discussed in the staff report for WUP #15-02.

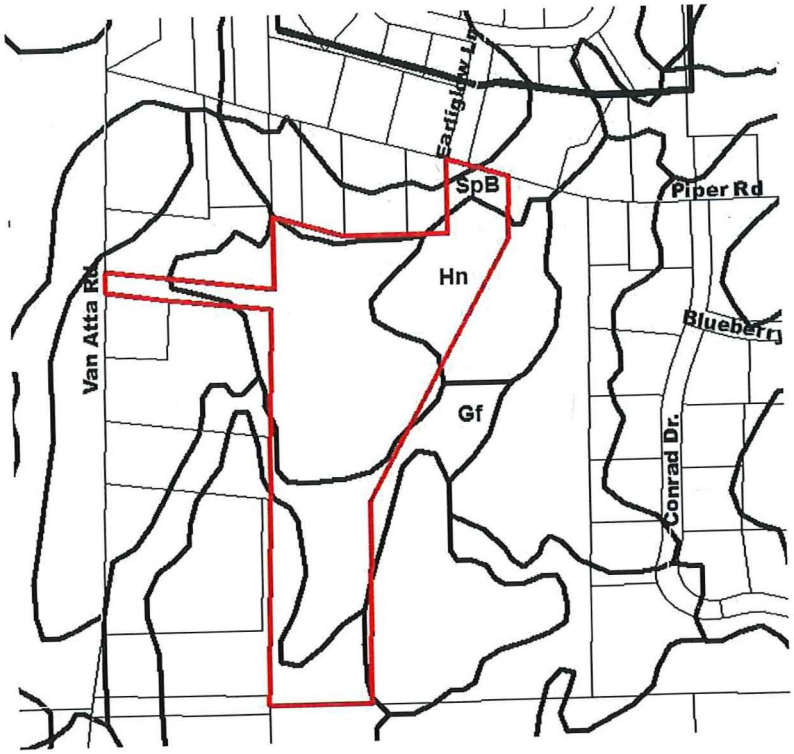
Soils

The following predominant soil type is found on the subject site:

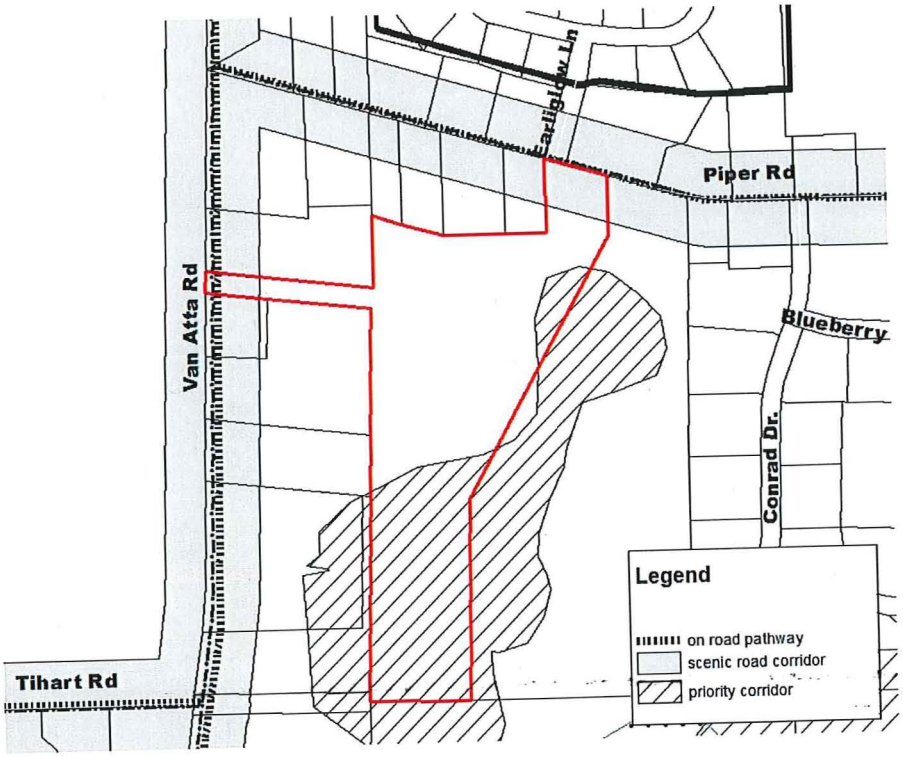
SOIL ASSOCIATION	SEVERE LIMITATIONS
Hn (Houghton)	Seepage
Gf (Gilford)	Seepage
SpB (Spinks)	Seepage

Source: Soil Survey of Ingham County, Michigan. 1992.

SOILS MAP



GREENSPACE MAP



Greenspace Plan

The regulated (Township, State, FEMA) areas of wetland and floodplain are identified on the Township Greenspace Plan as a "Priority Conservation Corridor" (PCC). A PCC is a network of ecologically significant open spaces. The applicant's project is intended to enhance these natural open space areas.

The Township Greenspace Plan, like the Township Wetland Map, is a guide; it is not intended to serve as a detailed map at the parcel level. Instead it should be used as a general guide in determining where priority conservation corridors should be located.

Staff Analysis

Although the pond is within the 100-year floodplain of the Foster Drain, excavation is an exempt activity under state regulations thus the project does not require a permit from the Department of Department of Environmental Quality.

Township regulations require a special use permit to excavate within the 100-year floodplain. Information provided by the applicant does not indicate the actual floodplain elevation on the site nor has the location for extracted soils been identified. The Township Chief Engineer, a certified floodplain manager, has reviewed the project and recommends approval of Special Use Permit #15141 subject to conditions.

The standards for review of the project are contained in Section 86-126 and Section 86-436 of the Code of Ordinances. Specific guidance for review of applications for work in the floodway fringe can be found in Section 86-436(l). Issues to consider include whether the use will be adverse to the purpose of the Conservancy District, or damaging to the public health, safety, or welfare, or impose a financial burden upon the community.

Planning Commission Options

The Planning Commission may approve, approve with conditions, or deny Special Use Permit #15141. A resolution will be provided for a future meeting.

Attachments

1. Application materials
2. Letter from Chief Engineer Younes Ishraidi

CHARTER TOWNSHIP OF MERIDIAN
DEPARTMENT OF COMMUNITY PLANNING AND DEVELOPMENT
5151 MARSH ROAD, OKEMOS, MI 48864
PLANNING DIVISION PHONE: (517) 853-4560, FAX: (517) 853-4095

SPECIAL USE PERMIT APPLICATION

Before submitting this application for review, an applicant may meet with the Director of Community Planning and Development to discuss the requirements for a special use permit and/or submit a conceptual plan for review to have preliminary technical deficiencies addressed prior to submittal of the application. If the property or land use is located in the following zoning districts RD, RC, RCC, RN then the applicant must meet with the Planning Director to discuss technical difficulties before filing a formal application.

Part I

A. Applicant Cory Chvala
Address of Applicant 5540 Earlglow, Haslett, MI 48840
Telephone - Work _____ Home (517) 214-8510 Fax _____ Email chvalacory@mailbag.com
Interest in property (circle one): (Owner) Tenant Option Other
(Please attach a list of all persons with an ownership interest in the property.)

B. Site address / location / parcel number Parcel # 33-02-02-13-100-035 Piper Rd, Haslett
Legal description (please attach if necessary) attached
Current zoning BR
Use for which permit is requested / project name pond construction
Corresponding ordinance number _____

C. Developer (if different than applicant) Mid Michigan Ponds
Address 6500 Howe Rd.
Telephone – Work (517) 927-4830 Home (517) 402-6816 Fax _____

D. Architect, Engineer Planner or Surveyor responsible for design of project if different from applicant:
Name Mid Michigan Ponds
Address see above
Telephone – Work _____ Home _____ Fax _____

E. Acreage of all parcels in the project: Gross 16.86 Net 16.86

F. Explain the project and development phases: After excavating the pond area, all dirt will be placed west of the pond & outside of the Floodplain in an upland area creating a privacy berm & sledding hill.

G. Total number of:
Existing: structures 1 bedrooms N/A offices N/A parking spaces N/A carports N/A garages N/A
Proposed: structures ____ bedrooms ____ offices ____ parking spaces ____ carports ____ garages ____

H. Square footage: existing buildings 1,792 (pole barn) proposed buildings ____
Usable Floor area: existing buildings 1,792 proposed buildings ____

I. If employees will work on the site, state the number of full time and part time employees working per shift and hours of operation:

J. Existing Recreation: Type None Acreage N/A
Proposed Recreation: Type Pond Acreage 2.1
Existing Open Space: Type Marshes / Fields Acreage 16.86
Proposed Open Space: Type Marshes / Pond / Fields Acreage 16.86

Part II

SUP REQUEST STANDARDS
Township Code of Ordinances, Section 86-126

Applications for Special Land Uses will be reviewed with the standards stated below. An application that complies with the standards stated in the Township Ordinance, conditions imposed pursuant to the Ordinance, other applicable Ordinances, and State and Federal statutes will be approved. Your responses to the questions below will assist the Planning Commission in its review of your application.

(1) The project is consistent with the intent and purposes of this chapter.

(2) The project is consistent with applicable land use policies contained in the Township's Master Plan of current adoption.

(3) The project is designed, constructed, operated, and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and that such a use will not change the essential character of the same area.

(4) The project will not adversely affect or be hazardous to existing neighboring uses.

(5) The project will not be detrimental to the economic welfare of surrounding properties or the community.

(6) The project is adequately served by public facilities, such as existing roads, schools, stormwater drainage, public safety, public transportation, and public recreation, or that the persons or agencies responsible for the establishment of the proposed use shall be able to provide any such service.

(7) The project is adequately served by public sanitation facilities if so designed. If on-site sanitation facilities for sewage disposal, potable water supply, and storm water are proposed, they shall be properly designed and capable of handling the longterm needs of the proposed project.

(8) The project will not involve uses, activities, processes, materials, and equipment and conditions of operation that will be detrimental to any persons, property, or the general welfare by reason of excessive production of traffic, noise, smoke, fumes, glare, or odors.

(9) The project will not directly or indirectly have a substantial adverse impact on the natural resources of the Township, including, but not limited to, prime agricultural soils, water recharge areas, lakes, rivers, streams, major forests, wetlands, and wildlife areas.

Part III

I (we) hereby grant permission for members of the Charter Township of Meridian's Boards and/or Commissions, Township staff member(s) and the Township's representatives or experts the right to enter onto the above described property (or as described in the attached information) in my (our) absence for the purpose of gathering information including but not limited to the taking and the use of photographs.

☒ Yes ☐ No (Please check one)

By the signature(s) attached hereto, I (we) certify that the information provided within this application and accompanying documentation is, to the best of my (our) knowledge, true and accurate

Signature of Applicant — 9-24-15 Date

CORY CHVALA
Type/Print Name

Fee: $500 Received by/Date: 9/24/15

Meridian Twp SUP Questions:

Chvala Project at 5384 VanAtta Rd.

1. Yes

2. Yes

3. Yes, we have designed the entire project to enhance the natural beauty of the area as well as create additional diverse wetland habitat for wildlife.

4. The project will not impact any neighbors.

5. The project will have no impact on the economic welfare of any adjacent properties.

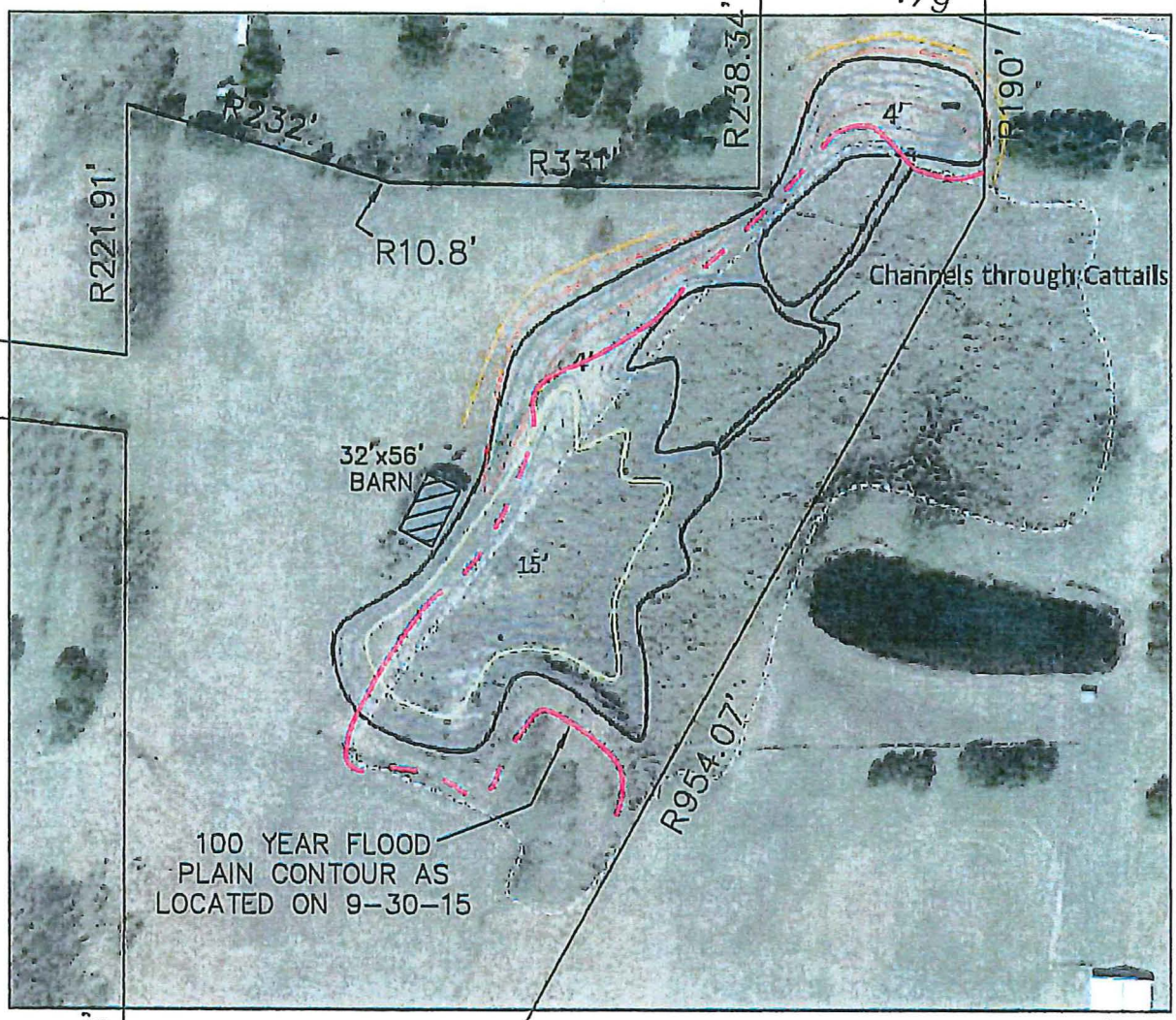
6. Yes.

7. Yes.

8. No, the project will not involve any of these items.

9. No, the project would actually enhance the natural beauty and diversify the habitat for wildlife within the township.

SKETCH PLAN



PER CLIENT PROVIDED MITIGATION SKETCH

BLACK OUTLINE – TOTAL POND AREA (2.3 ACRES)
YELLOW OUTLINE – DEEPWATER HABITAT
WHITE DOTTED LINE – CURRENT WETLAND AREA
RED DOTTED LINE – MITIGATED WETLAND AREAS
BLUE LINES – ONE FOOT CONTOUR LINES
YELLOW LINES – SILT FENCE PLACEMENT

IDARY SURVEY IS
EXACT LOCATION
'ERTY LINES.

NY, NOT SHOWN

CHARTER TOWNSHIP OF MERIDIAN

November 6, 2015

Ms. Gail Oranchack
Principal Planner
Community Planning & Development
Meridian Charter Township
Okemos, MI 48864-1198

Re: SUP #15141 – Chavala Pond @5384 Van Atta Road

Dear Ms. Oranchack:

Based on our review of the plans and documents provided for the subject project, we offer the following comments:

The pond excavation is proposed partially within the 100-year floodplain, which has an established Base flood elevation (BFE) of 863.1' for this area. The total amount of excavation is approximately 19,000 cubic yards; however the exact amount to be removed below the BFE is not provided. At any rate, the proposed excavation work would not have an adverse impact on the floodplain.

The excavated material is proposed to be used as a berm and a sledding hill in an upland area(s), within the same parcel. It is not clear to us if this will be one feature at one location or two features at different locations, the size, height, and the exact location(s) of the berm/sledding hill. The location should be sited outside the 500-year floodplain, above 863.5'.

Sincerely,

Younes Ishraidi, PE, CFM.
Chief Engineer

CHARTER TOWNSHIP OF MERIDIAN
MEMORANDUM

TO: Planning Commission

FROM: Gail Oranchak
Gail Oranchak, AICP
Principal Planner

DATE: November 5, 2015

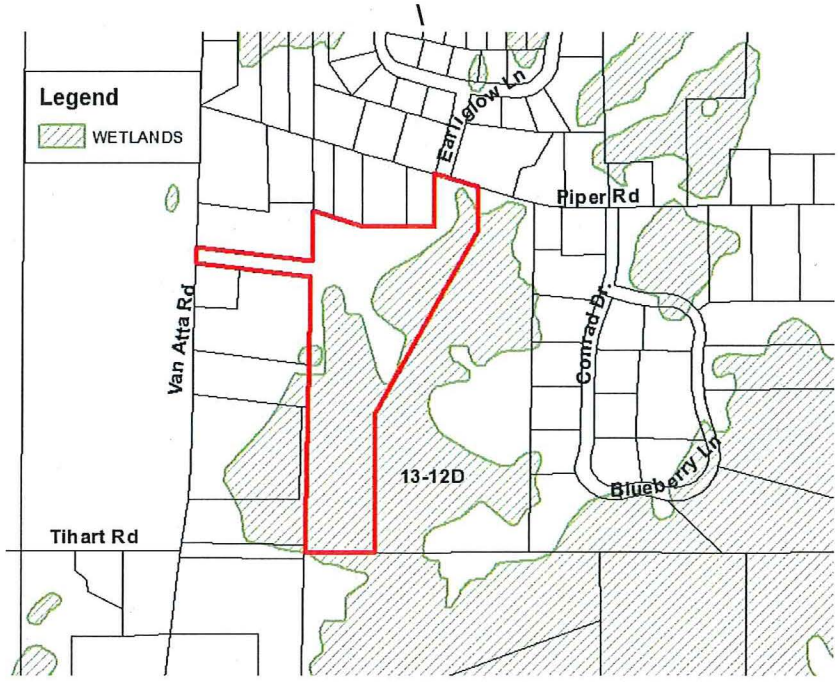
RE: Wetland Use Permit #15-02 (Chvala), request to impact regulated wetlands associated with construction of a pond

Cory Chvala is requesting a wetland use permit to impact regulated wetlands to construct a pond at 5384 Van Atta Road in Section 13 of the Township. Township Wetland #13-12D, is listed as an 88.87 acre emergent wetland on the wetland map. The applicant intends to excavate 19,422 cubic yards of material from two acres of wetland to create a .3 acre deep water area and 1.7 acres of wetland enhancement.

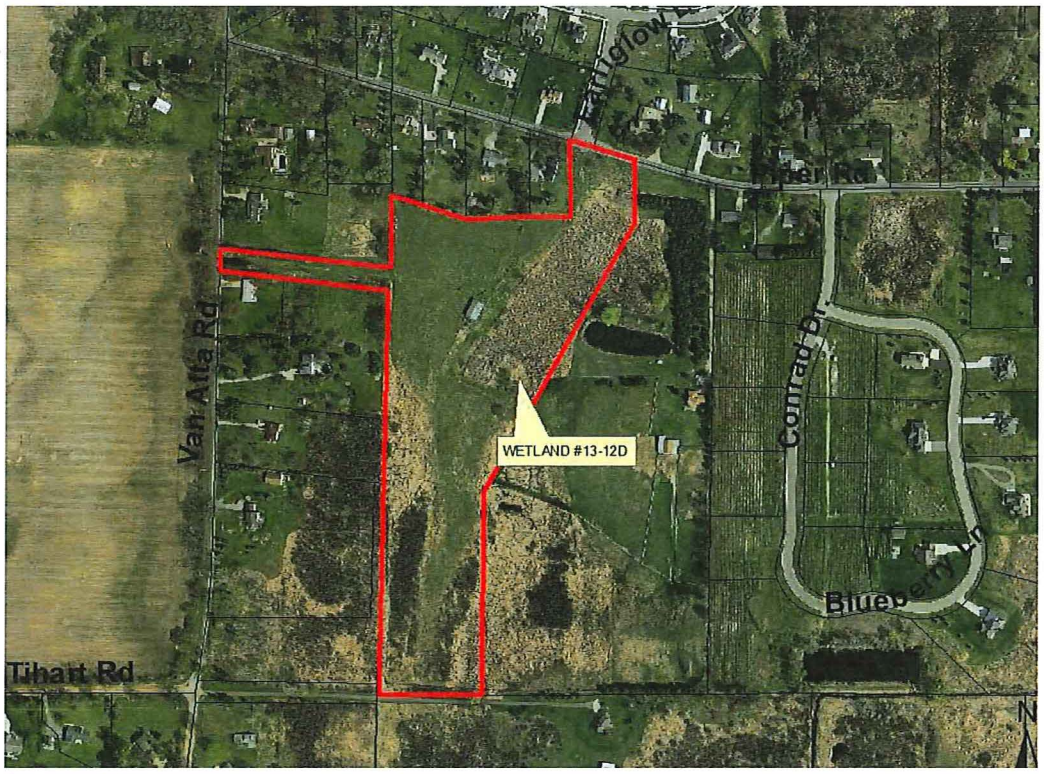
Mitigation will be accomplished in two upland locations adjacent to the wetland. Spoils will be located on the site in an upland location. Once the mitigated wetland is created, a water features setback/natural vegetation strip is required to be maintained around the feature as natural vegetation. Mowed lawn or turf do not qualify as natural vegetation.

Wetland Use Permit #15-02 is being reviewed concurrent with Special Use Permit #15141 for work in the 100-year floodplain of the Foster Drain. Under joint jurisdiction, the Michigan Department of Environmental Quality (MDEQ) has reviewed the application and issued a permit for the activities taking place in a regulated wetland.

WETLAND MAP



AERIAL PHOTOGRAPH



Staff Analysis

There are eleven general criteria provided in the Wetland Protection Ordinance, Section 22-157(2) of the Code of Ordinances, that must be considered when deciding whether to grant a wetland use permit. These include (paraphrased):

a. The relative extent of public and private need for the proposed activity.
b. Availability of prudent and feasible alternatives.
c. Extent and permanence of beneficial or detrimental effects from the activity.
d. Probable impact of the proposal in relation to the cumulative effect by other activities in the watershed.
e. Probable impact on recognized historic, cultural, scenic, ecological, or recreational values, as well as on public health and safety or fish and wildlife.
f. Economic value of the proposed land change.
g. The size and quality of the wetland being considered.
h. The findings of necessity for the proposed activity by other agencies.
i. Amount of wetland remaining in the general area and proximity to a waterway.
j. Proximity to any water body.
k. Extent to which upland soil erosion adjacent to the wetland is controlled.

On July 22, 2014, the Township's Environmental Consultant delineated an approximately five acre wetland in the northeast quadrant of the site. A synopsis of the Environmental Consultant's findings, transmitted in a communication dated October 1, 2015, regarding the consistency of Wetland Use Permit #15-02 with the eleven review criteria follows:

- Impacted wetlands consist of an approximate 4.25 acre cattail marsh with low plant species diversity.

- The applicant proposes to excavate approximately 19,500 cubic yards of material from 2.0 acres of wetland to create a 0.3 acre deep water area and 1.7 acres of wetland enhancement.

- There are limited locations for placing the pond and constructing the required acreage of mitigation wetland on the site.

- The proposed activity will improve and diversify wetland functions, including improving habitat. It will create greater interspersion between different wetland community types which will improve overall wetland functions.

- No detrimental effects are anticipated as long as invasive species do not become established due to site disturbance.

- The site's recreational and scenic values are expected to improve and the project is expected to have a positive impact on fish and wildlife by improving their habitat.

- The project will result in no net loss of wetland area but will diversify the wetland plant communities associated with the wetland complex. An open water component will be introduced which will improve wildlife habitat. Overall wetland quality improvement is anticipated.

Based on the findings, the Township's Environmental Consultant recommends issuance of Wetland Use Permit #15-02, with the following conditions:

1. Implement appropriate erosion and sedimentation control measures during construction to ensure there are no impacts to the mitigation wetland as a result of eroding soil.

2. Periodically inspect the site during the first year after construction to identify and correct erosion issues.

3. Monitor the mitigation wetland for five years in accordance with Mid-Michigan Ponds' September 24, 2015, *Chvala Wetland Mitigation Plan.* Vegetation monitoring should be conducted between July 15 and August 31.

The Michigan Department of Environmental Quality (MDEQ) issued the necessary permit on June 29, 2015.

The Environmental Commission at its October 7, 2015 meeting voted to concur with the consultant's findings and to recommend approval of Wetland Use Permit #15-02.

Planning Commission Options

Pursuant to Section 22-157(1) of the Code of Ordinances, the Planning Commission has the option to approve, approve with conditions, or deny Wetland Use Permit #15-02. Based on the original submittal date and the 90 day review timeline established in the State Wetland Act and the Township's Wetland Ordinance, the deadline for action is December 8, 2015. A resolution will provided for a decision during a future meeting.

Attachments

1. Application materials
2. Environmental Consultant reports

g:\planningWUP\2015\WUP 15-02 (Chvala)\Staff Reports\WUP 15-02.pc1.doc

U.S. Army Corps of Engi rs
Detroit District Office
Phone: 313-226-2218, Fax: 313-226-6763
Website: www.lre.usace.army.mil

Michigan Departmen Environmental Quality
Water Resources Di n
See staff map on page iii for contact information
Website: www.mi.gov/jointpermit

Joint Permit Application

For Work in Inland Lakes and Streams, Great Lakes, Wetlands, Floodplains, Dams, High Risk Erosion Areas and Critical Dune Areas

www.mi.gov/jointpermit

What is the purpose of the Joint Permit Application?	This Joint Permit Application was developed to facilitate the state and federal permit application process administered by the Michigan Department of Environmental Quality (DEQ) and the U.S. Army Corps of Engineers (USACE). The Joint Permit Application is a multi-purpose application used to describe and quantify proposed activities regulated by the DEQ and/or the USACE. This application is for those activities regulated by the following Parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended by the State of Michigan. • Part 301, Inland Lakes and Streams • Part 325, Great Lakes Submerged Lands • Part 303, Wetlands Protection • Floodplain Regulatory Authority found in Part 31, Water Resources Protection • Part 315, Dam Safety • Part 323, Shorelands Protection and Management (High Risk Erosion Areas) • Part 353, Sand Dunes Protection and Management (Critical Dune Areas) The regulated activities are summarized in Appendix D. The statutes and rules are available at www.mi.gov/jointpermit. This application is also for those activities regulated by the USACE within the waters of the United States under Section 10, Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404, Clean Water Act of 1977 (33 U.S.C. 1344). Preapplication Meeting: This is an optional service available for activities proposed in inland lakes and streams (Part 301), wetlands (Part 303), and critical dune areas (Part 353). A preapplication meeting can answer many questions regarding whether or not a permit is required and the review process. The application form and fee schedule are available at www.mi.gov/jointpermit.
How do I complete the Joint Permit Application? *An accurate and complete application package is required for processing; inaccurate or missing information will delay processing.*	**There are three parts to a complete Joint Permit Application package:** 1. Application Form 2. Maps and Drawings 3. Fee Follow the checklists on the following page for each part of the application package. **When you have questions or need assistance in completing the application package refer to the following information on our website www.mi.gov/jointpermit or you may contact the appropriate district office, page iii, or through the website link "Who to Contact."** • Joint Permit Application Training Manual • EZ Guides for small projects • Acronyms in Appendix A • Sample drawings in Appendix B • Minor Project and General Permit Categories in Appendix C • Fee schedule in Appendix C • State and Federal Authority and Penalties in Appendix D • Glossary in Appendix E

Application Checklist

The following website will provide township, range, section, latitude and longitude information:

www.mcgi.state.mi.us /wetlands/

www.geocoder.us

In each section check all boxes that apply to your project.

Show and label property lines on the site plan.

Label existing and proposed contours, dimensions, excavation and/or fill on the site plans and cross sections.

Provide tables for multiple impact areas.

1. Application Form

- ☐ Complete Sections 1 through 9 of the application form.
- ☐ An authorization letter from the property owner if someone other than the property owner is signing the application.
- ☐ Complete those Sections 10 through 20 that apply to your project. Follow the instructions at the beginning of each section. For additional information, the instructions for each sample drawing in Appendix B indicate the application sections you will most likely need to complete. Complete the application form as much as possible before adding attachments. Label each attachment with the applicant's name.
- ☐ Stake or flag the area for site inspection including the property corners, proposed road or driveway centerlines, and areas of proposed impacts. The site must be flagged when the application is submitted.

2. Maps and Drawings

- ☐ All maps and drawings must be black and white, legible, reproducible, and sized to 8.5" x 11". Aerial photographs do not substitute for site plans. If larger drawings or blueprints are required to show adequate detail for review, you may also submit one full size copy.
- ☐ Vicinity Map: A map to the proposed project location that includes ALL streets, roads, intersections, highways, or cross-roads to the project. Do not assume review staff knows your project location.
- ☐ Project Site Plan: Overhead drawings to scale or with dimensions, length and width, of the proposed project are required. Show and label property lines on the site plan.
- ☐ Cross-section drawings are required. Provide the cross-sections and profile views to scale or with dimensions, length, width, and height.
- ☐ Elevation data must include a description of the reference point or benchmark used and its corresponding elevation. For projects on the Great Lakes or Section 10 Waters, elevations must be provided in IGLD 85. For observed Great Lake water elevations in IGLD, visit the USACE website under "water levels". If elevations are from still water, provide the observation date and water elevation. On inland sites, elevations can use NGVD 29, NAVD 88, a local datum or an assumed bench mark.
- ☐ Provide descriptive photographs of the proposed work site showing vegetation if wetlands are involved or the shoreline for shore protection projects. All photographs must be labeled with your name and the date of the photograph, indicate what they show, and be referenced to the site plan. Proposed activities or structure(s) may be indicated directly on the photographs using indelible markers or ink pens. Provide aerial photographs 1:400 or larger for major projects.

3. Fee

- ☐ Payment to the **State of Michigan**. Fees typically range from $50 to $4,000 depending on the type of project. Refer to Appendix C of the application and/or visit www.mi.gov/jointpermit to determine the appropriate fee for your project and for directions to pay by credit card or electronic fund transfer payment.
- ☐ Applications should be sent directly to the district offices. Please refer to page iii, or refer to www.mi.gov/jointpermit "who to contact" for address and/or phone number. Applications that cross county boundaries should be sent to the district containing the primary work effort.
- ☐ Applications for dams regulated under Part 315 or from public agencies eligible to receive federal and/or state transportation funding for a project involving public roadways, non-motorized paths, airports, or related facilities should be mailed to: DEQ, WRD, P.O. BOX 30458, LANSING, MI 48909-7958.

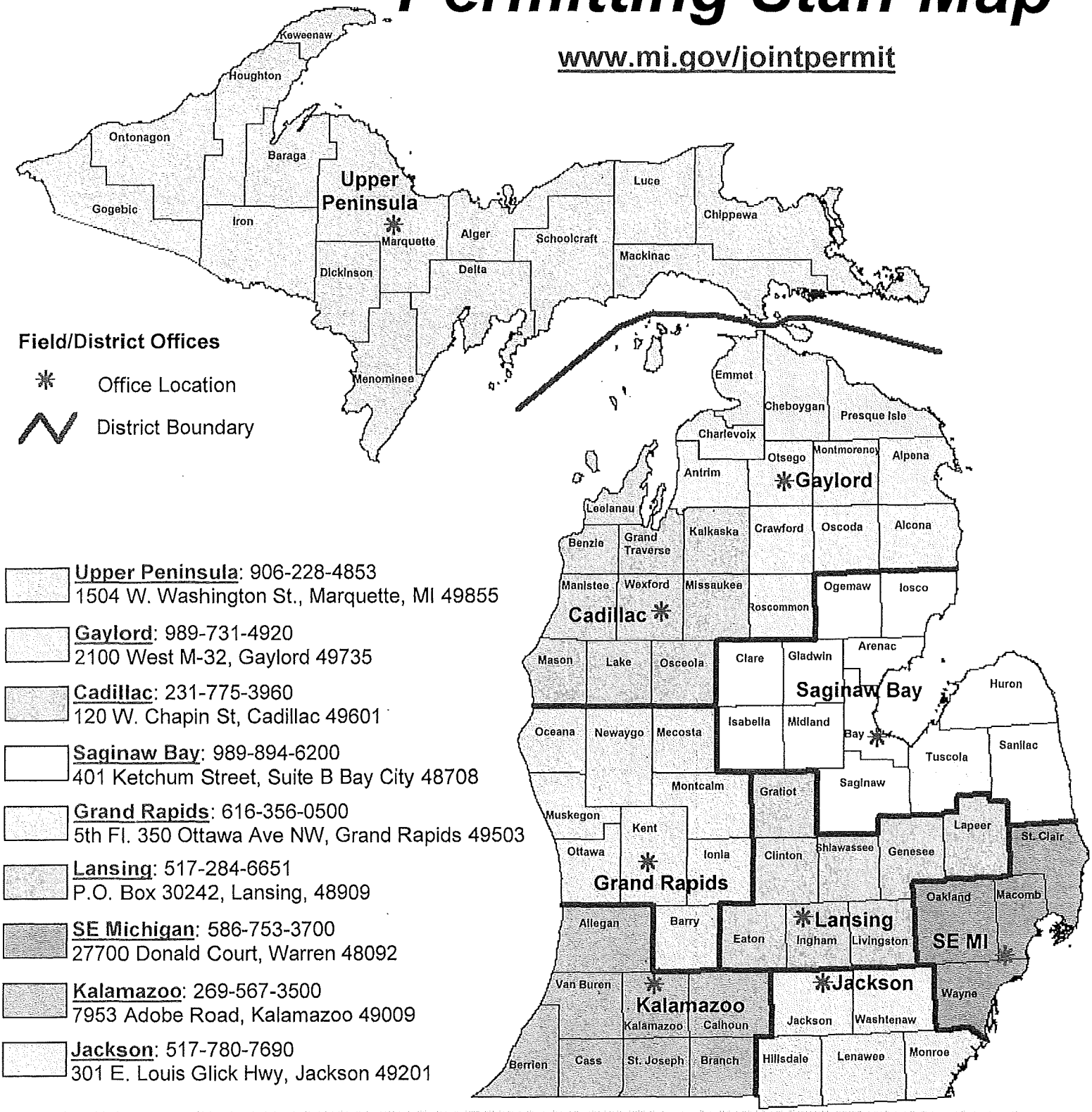
APPENDICES

Application status can be viewed on the Water Resources Division (WRD) website at www.deq.state.mi.us/CIWPIS. During the application period, if any information is missing from the application or if any clarification is needed regarding materials provided, the application is incomplete and staff will request the information from the applicant/agent by letter, email, fax or phone call. If a complete response is not provided within 30 days, the application will be closed. Some regulatory parts allow extensions if requested within the 30 day time frame. Once the WRD has received the information necessary for review of the project, including a thoroughly completed application, consistent drawings that have adequate detail for review and the full application fee, the file will be reviewed for final processing. A mailed postcard or a public notice will provide the file number and the telephone number of the office where the application is being processed. The review time to determine if an application is complete for processing ranges from 15 to 30 days. Technical processing times, after the application is administratively complete, may range from 60 to 90 days. Processing times will be longer if a public hearing is held. Staff from your local District/Field Office may visit the project site and may request additional information prior to a decision on the application. Application fees are not refundable or transferable.

If a federal permit will also be required, a copy of the permit application will be sent to the Detroit District Office, USACE, for processing at the federal level. Additional copies of this application form can be downloaded from the WRD website at www.mi.gov/jointpermit or can be photocopied from the original. If you have any questions about the permitting process or if you need to modify your application, you can contact the WRD by phone or fax at the addresses on the previous page, or email at DEQ-WRD-jointpermit@michigan.gov.

Land/Water Interface Permitting Staff Map

www.mi.gov/jointpermit



Field/District Offices

- ✱ Office Location
- District Boundary

Upper Peninsula: 906-228-4853
1504 W. Washington St., Marquette, MI 49855

Gaylord: 989-731-4920
2100 West M-32, Gaylord 49735

Cadillac: 231-775-3960
120 W. Chapin St, Cadillac 49601

Saginaw Bay: 989-894-6200
401 Ketchum Street, Suite B Bay City 48708

Grand Rapids: 616-356-0500
5th Fl. 350 Ottawa Ave NW, Grand Rapids 49503

Lansing: 517-284-6651
P.O. Box 30242, Lansing, 48909

SE Michigan: 586-753-3700
27700 Donald Court, Warren 48092

Kalamazoo: 269-567-3500
7953 Adobe Road, Kalamazoo 49009

Jackson: 517-780-7690
301 E. Louis Glick Hwy, Jackson 49201

AGENCY USE	Previous USACE File Number	Date Received	DEQ File Number
	USACE File Number		Fee received $

Validate that all parts of this checklist are submitted with the application package. Fill out application and additional pages as needed.

- ☐ All items in Sections 1 through 9 are completed.
- ☐ Project-specific Sections 10 through 20 are completed.
- ☐ Dimensions, volumes, and calculations are provided for all impact areas.
- ☐ All information contained in the headings for the appropriate Sections (1-20) are addressed, and identified attachments (➪) are included.
- ☐ Map, site plan(s), cross sections; one set must be black and white on 8 ½ by 11 inch paper; photographs.
- ☐ Application fee is attached.

1 Project Location Information *For Latitude, Longitude, and TRS info anywhere in Michigan see www.mcgi.state.mi.us/wetlands/*

Project Address (road, if no street address)	Zip Code	Municipality (Township/Village/City)	County
PIPER RD.	*48840*	*MERIDIAN TOWNSHIP*	*INGHAM COUNTY*

Property Tax Identification Number(s)	Latitude	Township/Range/Section (TRS)
33-02-02-13-100-035	*42.736714092* N	T *4N* N or S; R *1W* E or W; Sec *13*
Subdivision/Plat and Lot Number	Longitude	OR Private Claim # ____
	- *84.377110297* W	

2 Applicant and Agent Information

Owner/Applicant (individual or corporate name)	Agent/Contractor (firm name and contact person)
CORY R. & JANUARY R. CHVALA	*MID-MICHIGAN PONDS LLC, MICHAEL D. HARRIS*
Mailing Address *5540 EARLIGLOW*	Mailing Address *6500 HOWE RD*
City *HASLETT* State *MI* Zip Code *48840*	City *BATH* State *MI* Zip Code *48808*
Contact Phone Number *517-214-8510* Fax	Contact Phone Number *517-927-4830* Fax
Email *chvalacory@mailbag.com*	E-mail *mike@midmichiganponds.com*

☐ No ☒ Yes Is the applicant the sole owner of all property on which this project is to be constructed and all property involved or impacted by this project? ➪ If no, attach letter(s) of authorization from all property owners including the owner of the disposal site.

Property Owner's Name (If different from applicant)	Mailing Address *5540 EARLIGLOW*
Contact Phone Number *517-214-8510*	City *HASLETT* State *MI* Zip Code *48840*

3 Project Description

Project Name *CHVALA POND*	Preapplication File Number *14 – 33 – 0017–P*
Name of Water body	Date project staked/flagged *12/23/2014*

The proposed project is on, within, or involves (check all that apply)

- ☐ an inland lake (5 acres or more)
- ☒ a pond (less than 5 acres)
- ☐ a stream, river, ditch or drain
- ☐ a legally established County Drain
  - Date Drain was established
- ☐ a channel/canal
- ☐ 500 feet of an existing water body
- ☐ a Great Lake or Section 10 Waters
- ☒ a wetland
- ☐ a 100-year floodplain
- ☐ a dam
- ☐ a designated high risk erosion area
- ☐ a designated critical dune area
- ☐ a designated environmental area

Project Use

- ☒ private
- ☐ commercial
- ☐ public/government
- ☐ project is receiving federal/state transportation funds
- ☐ Wetland Restoration
- ☐ other

Indicate the type of permit being applied for: ☒ General Permit ☐ Minor Project ☐ Individual (All other projects.) ➪ See Appendix C.

Written Summary of All Proposed Activities *CONSTRUCT A RECREATIONAL POND WITH A SURFACE ACREAGE OF APPROX. 2.0 ACRES. ALL THE EXCAVATED SPOILS WILL REMAIN ON SITE AND USED FOR CREATING A PRIVACY BERM/SLEDDING HILL. SOME OF THE POND WILL BE IN AN EXISTING 4 ACRE WETLAND AND WILL CONVERT APPROX. 13,250 SF OF PRIMARILY CATTAILS INTO DEEPWATER POND HABITAT.*

Construction Sequence and Methods *POND WILL BE EXCAVATED USING A LONG REACH EXCAVATOR . SPOILS WILL BE HAULED ON-SITE WITH OFF ROAD DUMP TRUCKS AND GRADED WITH A WIDE TRACK BULLDOZER. BERMS AND POND BANKS TO BE SEEDED AS SOON AS FINAL GRADE IS ACHIEVABLE.*

4 Project Purpose, Use and Alternatives *Attach additional sheets as necessary.*

Describe the purpose of the project and its intended use; include any new development or expansion of an existing land use.

THE PURPOSE OF THIS PROJECT IS TO CREATE A RECREATIONAL POND FOR FISHING, SWIMMING AND VIEWING WILDLIFE. THE INTENTION OF THE PROPERTY OWNER IS TO BUILD A HOUSE ON THE LAND MAKE THIS THEIR PRIMARY RESIDENCE.

Describe the alternatives considered to avoid or minimize resource impacts. Include factors such as, but to limited to, alternative locations, project layout and design, and construction technologies. For utility crossings include alternative routes and construction methods.

ALTERNATIVE LOCATIONS HAVE BEEN CONSIDERED, HOWEVER THIS LOCATION OFFERS THE BEST VIEWS FROM THE FUTURE BUILDING SITE. THE ORIGINAL PLAN WAS TO LOCATE THE MAJORITY OF THE POND WITHIN THE WETLAND BOUNDARIES, HOWEVER AFTER MEETING WITH THE MDEQ, IT WAS DECIDED THAT IT WOULD BE MORE PREFERABLE TO LOCATE MUCH OF THE DEEP WATER HABITAT IN THE ADJACENT UPLAND AREA IN ORDER TO MINIMIZE ANY DETRIMENTAL IMPACTS TO THE WETLAND .

5 Locating Your Project Site *Attach a legible black and white map with a North arrow.*

Names of roads of closest intersection *VAN ATTA RD & PIPER RD*

Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body *APPROX. 1/3 MILE S OF PIPER & VAN ATTA INTERSECTION. PROPERTY IS ON E SIDE OF ROAD*

Description of buildings on the site *(color; 1 or 2 story, other)*	Description of adjacent landmarks or buildings *(address; color; etc)*
WHITE POLEBARN APPROX 32X56	

How can your site be identified if there is no visible address?

6 Easements and Other Permits

☒ No ☐ Yes Is there a conservation easement or other easement, deed restriction, lease, or other encumbrance upon the property?

➧ If yes, attach a copy. Provide copies of court orders and legal lake levels if applicable.

List all other federal, interstate, state, or local agency authorizations including required assurances for Critical Dune Area projects.

Agency	Type of Approval	Number	Date Applied	Date approved /denied	Reason for denial

7 Compliance

If a permit is issued, when will the activity begin? (M/D/Y) *7/1/15*	Proposed completion date (M/D/Y) *9/1/15*

☒ No ☐ Yes Has any construction activity commenced or been completed in a regulated area?

➧ If Yes, identify the portion(s) underway or completed on drawings or attach project specifications and give completion date(s).

☐ No ☐ Yes Were the regulated activities conducted under a DEQ and/or USACE permit?

➧ If Yes, list the permit numbers

☒ No ☐ Yes Are you aware of any unresolved violations of environmental law or litigation involving the property?

➧ If Yes, attach explanation.

8 Adjoining Property Owners *Provide current mailing addresses. Attach additional sheets/labels for long lists.*

☐ Established Lake Board ☐ Lake Association	Contact Person	Mailing Address	City	State and Zip Code

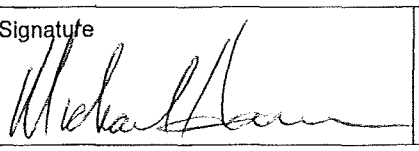
List all adjoining property owners.

If you own the adjoining lot, provide the requested information for the first adjoining parcel that is not owned by you.

Property Owner's Name	Mailing Address	City	State and Zip Code
see attached list			

Property Owners Adjoining Chvala Parcel 33-02-02-13-100-035- Piper Rd., Haslett, MI 48840
Section 8 Attachment to Joint Permit Application

	Parcel ID	Owner Name	Property Address
1	33-02-02-13-100-036	STEPHENS INVESTMENTS	575 PIPER RD
2	33-02-02-13-100-013	LARRY C & SUZANNE L ROSENBROOK	681 PIPER RD
3	33-02-02-13-100-012	LYNN H & HAZEL PELTIER	703 PIPER RD
4	33-02-02-13-100-040	RICHARD L GREEN & JENNIFER JUERS-GREEN	721 PIPER RD
5	33-02-02-13-100-010	BRENDA BARDEN	771 PIPER RD
6	33-02-02-13-100-033	MICHAEL S COURTER	5354 VAN ATTA RD.
7	33-02-02-13-100-018	TIMOTHY VANRAVENSWAAY	5360 VAN ATTA RD.
8	33-02-02-13-100-008	ANGELA M DONOVAN	5370 VAN ATTA RD.
9	33-02-02-13-100-039	BRADLEY KACH	5396 VAN ATTA RD.

9 **Applicant's Certification**	*Read carefully before signing.*		
I am applying for a permit(s) to authorize the activities described herein. I certify that I am familiar with the information contained in this application; that it is true and accurate; and, to the best of my knowledge, that it is in compliance with the State Coastal Zone Management Program. I understand that there are penalties for submitting false information and that any permit issued pursuant to this application may be revoked if information on this application is untrue. I certify that I have the authority to undertake the activities proposed in this application. By signing this application, I agree to allow representatives of the DEQ, USACE, and/or their agents or contractors to enter upon said property in order to inspect the proposed activity site before and during construction and after the completion of the project. I understand that I must obtain all other necessary local, county, state, or federal permits and that the granting of other permits by local, county, state, or federal agencies does not release me from the requirements of obtaining the permit requested herein before commencing the activity. I understand that the payment of the application fee does not guarantee the issuance of a permit.			
☐ Property Owner ☒ Agent/Contractor ☐ Corp. or Public Agency / Title	Printed Name *MICHAEL HARRIS*	Signature 	Date 2-19-2015

10 Projects Impacting Inland Lakes, Streams, Great Lakes, Wetlands or Floodplains

- Complete only those sections A through M applicable to your project.
- If your project impacts wetlands also complete Section 12. If your project impacts regulated floodplains also complete Section 13.
- To calculate volume in cubic yards (cu yd), multiply the average length in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27. Example: (25 ft long x 10 ft wide x 2 feet deep) / 27 = 18.5 cubic yards
- Some projects on the Great Lakes require an application for conveyance prior to Joint Permit Application completeness.

➪Provide a black and white overall site plan, with cross-section and profile drawings. Show existing lakes, streams, wetlands, and other water features; existing structures; and the location of all proposed structures, land change activities and soil erosion and sedimentation control measures. Review Appendix B and EZ Guides for aid in providing complete site-specific drawings.

➪Provide tables for multiple impact areas or multiple activities such as multiple fill areas or multiple culverts. Include your calculations.

Water Level Elevation

On inland waters ☐ NGVD 29 ☐ NAVD 88 ☒ other *CURRENTLY CATTAILS W/ NO STANDING WATER* Observed water elevation (ft) date of observation (M/D/Y)

On a Great Lake ☐ IGLD 85 ☐ surveyed ☐ converted from observed still water elevation.

☐ **A. PROJECTS REQUIRING FILL** (See All Sample Drawings)

➪Attach a site plan and cross-section views to scale showing maximum and average fill dimensions with calculations.
➪ For multiple impact areas on a site provide a table with location, dimensions and volumes for each fill area.

Purpose					
☐ bioengineered shore protection	☐ boat ramp	☐ boat well	☐ bridge or culvert	☐ crib dock	
☐ riprap	☐ seawall	☐ swim area	☐ other		

Dimensions of fill (ft) Length Width Maximum Depth	Total volume (cubic yards)	Volume below OHWM (cubic yards)
Maximum water depth in fill area (ft)	Area filled (sq ft)	Will filter fabric be used under proposed fill? ☐ No ☐ Yes (If Yes, type)

Fill will extend feet into the water from the shoreline and upland feet out of the water.

Type of clean fill ☐ peastone % ☐ sand % ☐ gravel % ☐ other

Source of clean fill ☐ commercial ☐ on-site ➪ If on-site, show location on site plan. ☐ other ➪ If other, attach description of location.

☒ **B. PROJECTS REQUIRING DREDGING OR EXCAVATION** (See Sample Drawings)

- Refer to www.mi.gov/jointpermit for spoils disposal and authorization requirements.

➪Attach a site plan and cross-section views to scale showing maximum and average dredge or excavation dimensions with calculations.
➪For multiple impact areas on a site provide a table with location, dimensions and volumes for each dredge/excavation area.

Purpose				
☐ boat ramp	☐ boat well	☐ bridge or culvert	☐ maintenance dredge	
☐ navigation	☒ pond/basin	☐ other		

Dimensions (ft) Length *460* Width *190* Maximum Depth *15*	Total volume (cu yds) *19,422*	Volume below OHWM (cu yds) *19,422*

Has this same area been previously dredged?	☒ No ☐ Yes	If Yes, provide date and permit number:
Will the previously dredged area be enlarged?	☐ No ☐ Yes	If Yes, when and how much?
Is long-term maintenance dredging planned?	☒ No ☐ Yes	If Yes, how often?

Dredge or Excavation Method ☐ Hydraulic ☒ Mechanical ☐ other

Spoils Disposal

Dredged or excavated spoils will be placed ☒ on-site ☐ landfill ☐ USACE confined disposal facility ☐ other upland off-site
For disposal, provide a ➪Detailed spoils disposal area location map and site plan with property lines.
➪Letter of authorization from property owner of spoils disposal site, if disposed off-site.

For volumes less than 5,000 cu yards, has proposed dredge material been tested for contaminants within the past 10 years?
☐ No ☐ Yes ➪If Yes, provide test results with a map of sampling locations.

☐ **C. PROJECTS REQUIRING RIPRAP** (See Sample Drawings 2, 3, 8, 12, 14, 22, and 23)

Riprap water ward of the ordinary high water mark: dimensions (ft) length width depth	Volume(cu yd)
Riprap landward of the ordinary high water mark: dimensions (ft) length width depth	Volume(cu yd)

Type and size of riprap (inches)	Will filter fabric or pea stone be used under proposed riprap?
☐ field stone ☐ angular rock ☐ other	☐ No ☐ Yes, Type

☐ **D. SHORE PROTECTION PROJECTS** (See EZ Guides and Sample Drawings 2, 3, and 17. Complete Sections 10A, B, and/or C.)
➪ For bioengineering projects include the list of native plants/seeds, if available.

Type and length (ft) ☐ bioengineering (ft) ☐ revetment (ft) ☐ riprap (ft) ☐ seawall/bulkhead (ft)	
Structure is ☐ new ☐ repair ☐ replacement of an existing structure	Will the existing structure be removed? ☐ No ☐ Yes
Proposed Toe Stone (linear feet)	Distance of project from adjacent property lines (ft)
Distance of project from an obvious fixed structure (example - 50 ft from SW corner of house)	
For bioengineering projects indicate the structure type ☐ brush bundles ☐ coir log ☐ live stakes ☐ tree revetment ☐ other	

☐ **E. DOCK - PIER – MOORING PILINGS** (See Sample Drawing 10)
➪ Attach a copy of the property legal description, mortgage survey, or a property boundary survey report.

Dock Type ☐ open pile ☐ filled ☐ crib ☐ floating ☐ cantilevered ☐ spring piles ☐ piling clusters ☐ other	
Is the structure within the applicant's riparian area interest area? ☐ No ☐ Yes ➪ Show parcel property lines on the site plan.	
Proposed structure dimensions (ft) length width	Use ☐ private ☐ public ☐ commercial
Dimensions of nearest adjacent structures (ft) length width	Distance of dock from adjacent property lines (ft)

☐ **F. BOAT WELL** (See EZ Guide. Complete Sections 10A and 10B)

Dimensions (ft) length width depth	Number of boats
Type of sidewall stabilization ☐ concrete ☐ riprap ☐ steel ☐ vinyl ☐ wood ☐ other	
Volume of backfill behind sidewall stabilization (cu yd)	Distance of boat well from adjacent property lines (ft)

☐ **G. BOAT RAMP** (See EZ Guide. Complete sections 10A, 10B, and 10C for mattress and pavement fill, dredge, and riprap)

Type ☐ new ☐ existing ☐ maintenance/improvement		Use ☐ private ☐ public ☐ commercial
Existing overall boat ramp dimensions (ft) length width depth		Type of construction material ☐ concrete ☐ wood ☐ stone ☐ other
Proposed overall ramp dimensions (ft) length width depth		Proposed ramp dimensions (ft) below ordinary high water mark length width depth
Number of proposed skid piers	Proposed skid pier dimensions (ft) length width	Distance of ramp from adjacent property lines (ft)

☐ **H. BOAT HOIST – ROOFS** (See EZ Guide)

Type ☐ cradle ☐ side lifter ☐ other	Located on ☐ seawall ☐ dock ☐ bottomlands
Hoist dimensions, including catwalks (ft) length width	
Area occupied, including cat walks (sq ft)	Distance of hoist from adjacent property lines (ft)
Permanent Roof ☐ No ☐ Yes ➪ If Yes, how is the roof supported?	Maximum Roof Dimensions (ft): length width height

☐ **I. BOARDWALKS and DECKS in WETLANDS or FLOODPLAINS** (See Sample Drawings 5 and 6. Complete Sections 12 and/or 13)
➪ Provide a table for multiple boardwalks and decks proposed in one project; include locations and dimensions.

Wetlands		Floodplains	
Boardwalk ☐ on pilings ☐ on fill Dimensions (ft) length width	Deck ☐ on pilings ☐ on fill Dimensions (ft) length width	Boardwalk ☐ on pilings ☐ on fill Dimensions (ft) length width	Deck ☐ on pilings ☐ on fill Dimensions (ft) length width

☒ **J. INTAKE PIPES** (See Sample Drawing 16) or **OUTLET PIPES** (See Sample Drawing 22)

If outlet pipe, discharge is to ☐ inland lake ☐ stream, drain or river ☒ overland flow ☐ Great Lake ☒ wetland ☐ other

Number of pipes	Pipe diameters and invert elevations	Does pipe discharge below the OHWM?	☐ No ☐ Yes
		Is the water treated before discharge?	☐ No ☐ Yes
Type ☐ headwall ☐ end section ☐ other		Dimensions of headwall OR end section (ft) length width height	

☐ **K. MOORING and NAVIGATION BUOYS** (See EZ Guide for Sample Drawing)

➪Provide a site plan showing the distances between each buoy and from the shore to each buoy, and depth (ft) of water at each location.
➪Provide cross-section drawing(s) showing anchoring system(s) and dimensions.

Purpose of buoy	☐ mooring	☐ navigation	☐ scientific structures	☐ swimming	☐ other

Number of buoys	Dimensions of buoys (ft) width height swing radius chain length	Boat Lengths	Type of anchor system

Buoy Location: Latitude . N Longitude -- . W. ➪ Provide a table for multiple buoys.		
Do you own the property along the shoreline?	☐ No ☐ Yes	➪ If No, attach an authorization letter from the property owner(s).
Do you own the bottomlands?	☐ No ☐ Yes	➪ If No, attach an authorization letter from the property owner(s).

☐ **L. FENCES**

➪Provide an overall site plan showing the proposed fencing through streams, wetlands or floodplains.
➪Provide a drawing of fence profile showing the design, dimension, post spacing, mesh, and distance from ground to bottom of fence.

Purpose of fence	☐ Airport	☐ Cervidae	☐ Livestock	☐ Residential	☐ Security	☐ Other

Total length (ft) of fence through streams wetlands floodplains	Fence height (ft)	Fence type and material

☐ **M. OTHER** - e.g., structure removal, maintenance or repair, aerator, dry fire hydrant, gold prospecting, habitat structures, scientific measuring devices, soil borings, or survey activities.

Structure description, dimensions and volumes. Complete Sections 10A-C as applicable.

11 Expansion of an Existing or Construction of a New Lake or Pond (See Sample Drawings 4 and 15)

➪Complete Section 10J for outlets and Section 17 for water control structures.
➪Provide elevations, cross-sections and profiles of outlets, dams, dikes, water control structures and emergency spillways to nearest water bodies.

Which best describes your proposed water body use (check all that apply)
☐ mining ☒ recreation ☐ storm water retention basin ☐ wastewater basin ☒ wildlife ☐ other

Water source for lake/pond
☒ groundwater ☐ natural springs ☐ Inland Lake or Stream ☒ storm water runoff ☐ pump ☐ sewage ☐ other

Location of the lake/basin/pond ☐ floodplain ☒ wetland ☐ stream (inline) ☐ upland

Maximum dimensions (ft) length *765'* width *210'* depth *15'*	Maximum Area: ☒ acres ☐ sq ft *2.0*

Has the there been a hydrologic study performed on the site?	☒ No ☐ Yes	➪ If Yes, provide a copy.
Has the DEQ conducted a wetland assessment for this parcel?	☒ No ☐ Yes	➪ If Yes, provide a copy or WIP number:
Has a professional wetland delineation been conducted for this parcel?	☐ No ☒ Yes	➪ If Yes, provide a copy with data sheets.

Spoils Disposal

Dredged or excavated spoils will be placed ☒ on-site ☐ landfill ☐ USACE confined disposal facility ☐ other upland off-site
For disposal, provide a ➪Detailed spoils disposal area location map and site plan with property lines.
➪Letter of authorization from property owner of spoils disposal site, if disposed off-site.

12 Activities That May Impact Wetlands (See Sample Drawings 8 & 9). Complete other Sections as applicable.

- Locate your site and wetland information with the DEQ Wetlands Map Viewer at www.mcgi.state.mi.us/wetlands/
- For information on the DEQ's Wetland Identification Program (WIP) visit www.mi.gov/wetlands.
  - ➧ Provide a detailed site plan with labeled property lines, upland and wetland areas, and dimensions and volumes of wetland impacts.
  - ➧ Complete the wetland dredge and wetland fill dimension information below for each impacted wetland area.
  - ➧ Attach tables for multiple impact areas or activities.
  - ➧ Attach at least one cross-section for each wetland dredge and/or fill area; show wetland and upland boundaries on the cross-section.

Has the DEQ conducted a wetland assessment for this parcel?	☒ No ☐ Yes	➧ If Yes, provide a copy or WIP number:
Has a professional wetland delineation been conducted for this parcel?	☐ No ☒ Yes	➧ If Yes, provide a copy with data sheets
Is there a recorded DEQ easement on the property?	☒ No ☐ Yes	➧ If Yes, provide the easement number
Did the applicant purchase the property before October 1, 1980?	☒ No ☐ Yes	➧ If Yes, provide documentation.
Is any grading or mechanized land clearing proposed?	☐ No ☒ Yes	➧ If Yes, label the locations on the site plan.
Has any of the proposed grading or mechanized land clearing been completed?	☒ No ☐ Yes	➧ If Yes, label the locations on the site plan

Proposed Activity

☐ boardwalk or deck (Section 10I)	☐ bridges and culverts (Section 14)	☐ designated environmental area
☐ dewatering	☐ draining surface water	☐ driveway / road
☐ fences (Section 10L)	☒ fill or dredge	☐ restoration
☐ septic system	☐ stormwater discharge (Section 10J)	☒ other *POND AND WETLAND CONSTRUCTION*

FILL	Dimensions maximum length (ft) maximum width (ft)	Area ☐ acres ☐ sq ft	Average depth (ft)	Volume (cu yd)
DREDGE	Dimensions maximum length (ft) *460* maximum width (ft) *190*	Area ☒ acres ☐ sq ft *2.0*	Average depth (ft) *6*	Volume (cu yd) *19,422*

Spoils Disposal

Dredged or excavated spoils will be placed ☒ on-site ☐ landfill ☐ USACE confined disposal facility ☐ other upland off-site

For disposal, provide a ➧ Detailed spoils disposal area location map and site plan with property lines.

➧ Letter of authorization from property owner of spoils disposal site, if disposed off-site.

Septic System

The proposed project will be serviced by:
☐ public sewer ☐ private septic system
➧ Show system on plans.

If a private septic system is proposed, has an application for a permit been made to the County Health Department? ☐ No ☐ Yes
If Yes, has a permit been issued? ☐ No ☐ Yes ➧ Provide a copy of the permit.

Describe the wetland impacts, the proposed use or development, and the alternatives considered:

APPROXIMATELY 1.2 ACRES OF THE 2 ACRE PROPOSED POND WILL BE LOCATED IN A WETLAND THAT IS PREDOMINATLY A DENSE MONOCULTURE CATTAIL HABITAT THAT HAS VERY LITTLE (SEASONAL) STANDING WATER. APPROXIMATELY 0.9ACRES OF THE WETLAND AREA INVOLVED WILL REMAIN AS SHALLOW WATER(LESS THAN 4 FEET DEEP) THIS WILL PROMOTE BETTER HABITAT DIVERSITY BY ENCOURAGING A SHALLOW WATER WETLAND ECOSYSTEM COMPONENT TO FLOURISH ALONG WITH THE EXISTING WETLAND APPROXIMATELY 13,250SF (0.3 ACRES) OF THE EXSISTING WETLAND WILL BE LOST TO DEEP WATER POND HABITAT

Does the project impact more than 1/3 acre of wetland? ☒ No ☐ Yes

➧ If Yes, submit a Mitigation Plan with the type and amount of mitigation proposed. For more information go to www.mi.gov/wetlands

Describe how impacts to waters of the United States will be avoided and minimized:

NO WATERS OF THE UNITED STATES ARE EXPECTED TO BE IMPACTED

Describe how the impact to waters of the United States will be compensated. OR Explain why compensatory mitigation should not be required for the proposed impacts.

NOT APPLICABLE

13 Floodplain Activities (See Sample Drawing 5 and others. Complete other applicable sections.)

- For more information go to www.mi.gov/floodplainmanagement. This site also lists the projects and requirements for an expedited floodplain review under "Expedited Review Information for Minor Floodplain Projects."
- Examples of projects proposed within the non-floodway portions of the 100-year-floodplain which may qualify for an expedited review: Open pile decks and boardwalks; residences, commercial/industrial facilities, garages and accessory structures; parking lots; pavilions, gazebos, large community playground structures; residential swimming pools
- Examples of projects proposed within the floodway portions of the floodplain which may qualify for an expedited review: Open pile decks and boardwalks, (non-enclosed) that are anchored to prevent floatation and that do not extend over the bed and bank of a watercourse; parking lots constructed at grade or resurfacing that is no more than 4 inches above the existing grade; dry hydrants that do not require fill placement; scientific structure such as staff gauges, water monitoring devices, water quality testing devices, and core sampling devices which meet specific design criteria and fish structures that meet specific design criteria.
- For expedited review include:
  - ➪ Photographs of the work site labeled to identify what is being shown and with the direction of the photo clearly indicated. Include photographs of any river or stream adjacent to the project.
  - ➪ A letter or statement from the local unit of government acknowledging your proposed application. See the website for sample wording.
- A hydraulic analysis or hydrologic analysis may be required to fully assess floodplain impacts.
- The state building code requires an Elevation Certificate for any building construction or addition in a floodplain. A sample form can be found at www.fema.gov/nfip/elvinst.shtm.
  - ➪ Attach additional sheets or tables for multiple proposed floodplain activities and provide hydraulic calculations.
  - ➪ Show reference datum used on plans.

Proposed Activity ☐ fill ☐ excavation or cut ☐ other	100-year floodplain elevation (ft) (if known) Datum ☐ NGVD 29 ☐ NAVD 88 ☐ other
Site is feet above ☐ ordinary high water mark (OHWM) OR ☐ observed water level. Date of observation (M/D/Y)	
Fill volume below the 100-year floodplain elevation (cu yds)	Compensating cut volume below the 100-year floodplain elevation (cu yds)

Buildings and/or Additions

Type of construction is ☐ residential ☐ garage/pole barn ☐ non residential ☐ other

Construction is ☐ new ☐ addition AND Serviced by ☐ public sewer ☐ private septic ☐ other

Lowest adjacent grade (ft): existing proposed

datum ☐ NGVD 29 ☐ NAVD 88 ☐ other

Existing Structure Information	Proposed Structure Information
Foundation type ☐ basement ☐ concrete slab on grade ☐ pilings ☐ crawl space ☐ other	Foundation type ☐ basement ☐ concrete slab on grade ☐ pilings ☐ crawl space ☐ other
Foundation floor elevation (ft)	Foundation floor elevation (ft)
Height of crawl space/basement from finished foundation floor to bottom of floor joists (ft)	Height of crawl space/basement from finished foundation floor to bottom of floor joists (ft)
Elevation of 1st floor above basement floor/crawl space (ft)	Elevation of 1st floor above basement floor/crawl space (ft)

For enclosed areas below the flood elevation, such as a crawl space, garages and accessory structures:

Area of proposed foundation (sq ft)

Elevation of proposed enclosed area (ft) datum ☐ NGVD 29 ☐ NAVD 88 ☐ other

Number of flood vents net opening of each vent (sq inches) lowest elevation of flood vents (ft)

14 Bridges and Culverts Including Foot and Cart Bridges. (See EZ Guides and Sample Drawings 5, 14A, 14B, 14C, 14D.)

- Complete other applicable Sections, including 10A-C.
- A hydraulic analysis or hydrologic analysis may be required to fully assess impacts. ➧Attach hydraulic calculations.
- High Water Elevation - describe reference point and highest known water level above or below reference point and date of observation.

➧Attach additional sheets for multiple bridges and/or culverts.
➧Provide detailed site-specific drawings of existing and proposed Plan and Elevation View at a scale adequate for detailed review.
➧Provide all information in the boxes below; do not write in a reference to plan sheets. Show reference datum used on plans.

Stream Information

The site has a high water elevation (ft) ☐ above or ☐ below the Reference Point of Date observed		
Reference datum used ☐ NGVD 29 ☐ NAVD 88 ☐ IGLD 85 (Great Lakes coastal areas) ☐ other		
Average stream width (ft) at the ordinary high water mark (OHWM) outside the influence of any ponding or scour holes around the structure	Upstream	
	Downstream	
Cross-sectional area of primary channel (sq ft) (See Sample Drawing 14C for more information)		
The width of the stream where the water begins to overflow its banks. Bankfull width (ft)		
The invert of the stream 100-feet from structure (ft)	Upstream	
	Downstream	

Is the existing culvert perched? ☐ No ☐ Yes If Yes, provide a profile of the channel bottom at the high and low points for a distance of 200 feet upstream and downstream of the culvert.

		Existing	Proposed
Complete this form for each bridge / culvert location.			
Bridge			
Number of bridge spans			
Bridge type (concrete box beam, concrete I-beam, timber, etc.)			
Bridge span (length perpendicular to stream) (ft)			
Bridge width (parallel to stream) (ft)			
Bottom of bridge beam (ft)	Upstream		
	Downstream		
Stream invert elevation at bridge (ft)	Upstream		
	Downstream		
Bridge rise from bottom of beam to streambed (ft)			
Culvert			
Number of culverts			
Culvert type (arch, bottomless, box, circular, elliptical, etc.)			
Culvert material (concrete, corrugated metal, plastic, etc.)			
Culvert length (ft)			
Culvert ☐ width ☐ diameter (ft)			
Culvert height prior to any burying (ft)			
Depth culvert will be buried (ft)			
Elevation of culvert crown (ft)	Upstream		
	Downstream		
Higher elevation of ☐ culvert invert OR ☐ streambed within culvert (ft)	Upstream		
	Downstream		
Complete for both Bridges and Culverts			
Entrance design (mitered, projecting, wingwalls, etc.)			
Total structure waterway opening above streambed (sq ft)			
Total structure waterway area below the 100-year elevation (sq ft) (if known)			
Elevation of road grade at structure (ft)			
Elevation of low point in road (ft)			
Distance from low point of road to mid-point of bridge crossing (ft)			
Length of approach fill from edge of bridge/culvert to existing grade (ft)			

A Licensed Professional Engineer may certify that your project will not cause a harmful interference for a range of flood discharges up to and including the 100-year flood discharge. The "Required Certification Language" is found under "forms" on the "maps, forms and documents" link from the www.mi.gov/jointpermit page or a copy may be requested by phone, email, or mail. A hydraulic report supporting this certification may also be required.

Is Certification Language attached? ☐ No ☐ Yes

15 Stream, River, or Drain Construction , Relocation and Enclosure Activities

- Complete Section 10C for riprap activities.
- If side casting or other proposed activities will impact wetlands or floodplains, complete Sections 12 and 13, respectively.

➧Provide a scaled overall site plan showing existing lakes, streams, wetlands, and other water features; existing structures; and the location of all proposed structures and land change activities.

➧Provide scaled cross-section (elevation) drawings necessary to clearly show existing and proposed conditions.

➧For activities on legally established county drains, provide original design and proposed dimensions and elevations.

Stream Information

Water elevation (ft) datum ☐ NGVD 29 ☐ NAVD 88 ☐ IGLD 85 (Great Lakes coastal areas) ☐ other
➧ Show elevation on plans with description.

Dimensions (ft) of existing stream/drain channel (ft) length width depth

Existing channel average water depth in a normal year (ft)

Proposed Activity ☐ enclosure ☐ improvement ☐ maintenance ☐ new drain ☐ relocation ☐ wetlands ☐ other

If an enclosed structure is proposed, check material type ☐ concrete ☐ corrugated metal ☐ plastic ☐ other

Dimensions (ft) of the structure: diameter length	Volume of fill (cu yds)
Will old/enclosed stream channel be backfilled to top of bank grade? ☐ No ☐ Yes	
Length of channel to be abandoned (ft)	Volume of fill (cu yds)
Dimensions (ft) of improved, maintained, new, relocated or wetland stream/drain channel. length width depth	Volume of dredge/excavation (cu yds)
How will slopes and bottom be stabilized?	Proposed side slopes (vertical / horizontal)

Spoils Disposal

Dredged or excavated spoils will be placed ☐ on-site ☐ landfill ☐ USACE confined disposal facility ☐ other upland off-site
For disposal, provide a ➧ Detailed spoils disposal area location map and site plan with property lines.
➧ Letter of authorization from property owner of spoils disposal site, if disposed off-site.

16 Drawdown of an Impoundment

- If wetlands will be impacted, complete Section 12.

Type of drawdown ☐ over winter ☐ temporary ☐ one-time event ☐ annual event ☐ permanent (dam removal) ☐ other

Reason for drawdown

Has there been a previous drawdown? ☒ No ☐ Yes If Yes, provide date (M/D/Y)		Previous DEQ permit number, if known
Does waterbody have established legal lake level? ☐ No ☐ Yes ☐ Not Sure		Dam ID Number, if known
Extent of vertical drawdown (ft)	Impoundment design head (ft)	Number of adjoining or impacted property owners
Date drawdown would start (M/D/Y)	Date drawdown would stop (M/D/Y)	Rate of drawdown (ft/day)
Date refilling would start (M/D/Y)	Date refill would end (M/D/Y)	Rate of refill (ft/day)
Type of outlet discharge structure to be used ☐ surface ☐ bottom ☐ mid-depth	Impoundment area at normal water level (acres)	Sediment depth behind impoundment discharge structure (ft)

17 Dam, Embankment, Dike, Spillway, or Control Structure Activities (See Sample Drawing 15)

- For more information go to www.mi.gov/damsafety. If wetlands will be impacted, complete Section 12.
- Information on removing a dam is available at www.mi.gov/damsafety and following the Related Link –Dam Management.

➪➪Attach detailed signed and sealed engineering plans for a Part 315 dam repair, dam alteration, dam abandonment, or dam removal.
➪Part 315 Dam Safety application fees are added to all other application fees.
➪Mail applications for dams regulated under Part 315 to DEQ, WRD, P.O. BOX 30458, LANSING, MI 48909-7958, attention Dam Safety.

Proposed Activity	☐ abandonment	☐ alteration	☐ enlargement of an existing dam
	☐ removal	☐ repair	☐ reconstruction of a failed dam
	☐ new dam construction	☐ other	

Dam ID Number, if known	Type of outlet discharge structure ☐ surface ☐ bottom ☐ mid-depth

Will proposed activities require a drawdown of the waterbody to complete the work? ☐ No ☐ Yes ➪ If Yes, complete Section 16.

Structural height (difference between embankment top elevation and streambed elevation at downstream embankment toe) (ft) _____

Hydraulic Height (difference between design flood elevation and streambed elevation at downstream embankment toe) (ft) _____	Impoundment size at design flood elevation (acres)

Does dam meet the criteria for regulation under Part 315? (i.e. hydraulic height of 6 feet or more and an impoundment size at the design flood of 5 surface acres or more) ☐ No ☐ Yes

Dredging/excavation volume (cu yd)	Fill volume (cu yd)	Riprap volume (cu yd)

Will a water diversion during construction be required? ☐ No ☐ Yes

If Yes, describe how the stream flow will be controlled through the dam construction area during the proposed project activities:

Complete the following for a new dam, reconstruction of a failed dam or enlargement of an exlsting dam

For Part 315 regulated dams, the following must be attached:
➪ Site-specific conceptual plans of the dam for resource impact review (An engineering report and detailed engineering plans are not required until the project has been determined to be permitable).
➪ A description and evaluation of the loss of natural resources associated with the project.
➪ A description of the natural resources that are associated with or created by the impoundment and how they offset the natural resources lost by the creation of the impoundment.
➪ An assessment of all known existing and potential adverse effects within the scope of the project.

Embankment dimensions	length (ft)	top width (ft)	bottom width (ft)	slopes (vertical / horizontal)	Upstream Downstream

Have soil borings been taken at dam location?	☐ No ☐ Yes	➪ If Yes, attach results.
Do you have flowage rights to all proposed flooded property at the design flood elevation?	☐ No ☐ Yes	➪ If No, provide a letter of authorization from the property owner.

Applications for Part 315 regulated dam removal projects must also include the following:

An evaluation of the capacity of the remaining structure to pass flood flows.
An evaluation of the quantity and quality of the sediments behind the impoundment.
A description of the methods to be employed to control sediments.
An assessment of all known existing and potential adverse impacts within the scope of the project.

18 Utility Crossings (See Sample Drawings 12 and 13, and EZ Guide)

- If side casting is proposed, complete Sections 10A and 10B. If spoils will be placed in or impact wetlands, complete Section 12.
  - ➡Attach additional sheets or tables with the requested information as needed for multiple crossings.
  - ➡For wetland crossings using the open trench method show clay plugs at the wetland/upland boundaries on the plans.

Crossing of ☐ Inland Lake or Stream ☐floodplain ☐ Great Lake ☐ wetlands (also complete Section 12)

What method will be used to construct the crossings? ☐ directional boring ☐ jack and bore ☐ open trench ☐ plow / knife ☐ flume

Utility Type	Number of lake or stream crossings	Number of wetland crossings	Pipe diameter with casing (in)	Pipe length per crossing (ft)	Distance below streambed or wetland (in)	Trench width (ft)
☐ sanitary sewer						
☐ storm sewer						
☐ watermain						
☐ cable						
☐ electric						
☐ fiber optic cable						
☐ oil/gas pipeline						

19 Marina Construction, Expansion and Reconfiguration (See Sample Drawing 21)

- For more information go to www.mi.gov/marinas
- Marinas located on the Great Lakes, including Lake St. Clair, may be required to secure leases or conveyances from the state of Michigan to place structures on the bottomlands. If a conveyance is necessary, an application must be submitted before the Joint Permit Application can be determined complete.
  - ➡Fully complete Section 10 E. For multiple structures provide a table with the requested information.
  - ➡Enclose a copy of any current pump-out agreement with another marina facility, if on-site sanitary pump out facilities are not available.
  - ➡Attach a copy of the property legal description, mortgage survey, or a property boundary survey to your application.
  - ➡ The WRD may require a riparian interest area (RIA) estimate survey, sealed by a licensed surveyor, in order to determine whether the proposed project will adversely impact riparian rights. Include any available sealed RIA estimate survey and/or written authorizations from affected adjoining riparian owners with your application.

Proposed Marina Activity ☐ New construction ☐ Expansion ☐ Reconfiguration

Do you have an existing Great Lake Conveyance? ☐ No ☐ Yes For more information visit www.mi.gov/deqgreatlakes.

Are sanitary pump-out facilities available? ☐ No ☐ Yes | Is there a pump out agreement? ☐ No ☐ Yes If Yes, provide a copy.

Marina Description	Current Count	Final Count
Number of boat slips/wells (do not include broadside dockage or mooring buoys)		
Lineal feet of broadside dockage		
Maximum number of boats at broadside dockage		
Number of mooring buoys		
Number of launch ramps/lanes		

20 Critical Dune Areas and High Risk Erosion Areas (See Sample Drawings 19 and 20)

Critical Dune Areas (See Sample Drawing 20)

- **Although not required, submitting PHOTOGRAPHS of the site may provide for a faster application review.**
- For more information go to www.mi.gov/jointpermit, select "Sand Dune Protection" under "Related Links."
- All property boundaries and proposed structure corners, including decks, septic systems, water wells, driveways, grading, and terrain alteration locations must be staked before the WRD site inspection.
- Scaled overhead and cross-section plans must include all property boundaries, locations, and dimensions of all existing structures and impacted areas, and all proposed structures, terrain alterations, and construction access. Cross-sections must show existing and proposed grades, including foundations.
- Construction in critical dune areas on slopes greater than 33 percent (1 vertical: 3 horizontal) is prohibited without a special exception.
- Construction in critical dune areas on slopes that measure from 25 percent (1 vertical: 4 horizontal) to less than 33 percent requires sealed plans prepared by a registered architect or licensed professional engineer.

High Risk Erosion Areas (See Sample Drawing 19)

- For more information go to www.mi.gov/jointpermit, select "HREA" under "Related Links."
- All property boundaries, proposed structure corners, and septic system locations must be staked before the WRD site inspection.
- Scaled overhead plans must include all property boundaries, and the location and dimensions of all structures and septic systems must be included.
- Additional information, including the building construction plans, may be required to complete the application review.

Critical Dune Areas

Parcel dimensions (ft) width depth	Date project staked (M/D/Y)
Property is a ☐ platted lot ☐ unplatted parcel	Year current property boundaries created

Dune habitat present in Building Site and access route (check all that apply): ☐Wooded ☐Open Dune ☐Shrubs ☐Bare Sand ☐Lakefront Lot ☐MNFI Community if known:_____

Type of construction activities ☐ addition ☐ driveway ☐ garage ☐ new home ☐ renovation ☐ septic ☐ deck(s) ☐ other

☐ Provide a sand relocation plan with location and dimensions of disposal area. Indicate ☐ on-site OR ☐ off-site
If on-site show location and how the disposal site will be accessed on the plans. Indicate the depth of the disposed sand on the plans.

☐ Provide the permit or letter from the County Enforcing Agent stating the project complies with Part 91 (Soil Erosion and Sedimentation Control).

The proposed project will be serviced by ☐ public sewer ☐ private septic system.
➡ On the plans, show the location and dimensions of the private septic system.
If a private septic system is proposed, has a permit been issued by the health department? ☐ No ☐ Yes
➡ If Yes, provide a copy of the permit for all Critical Dune Area projects.

☐ Provide a copy of the vegetation assurance letter.
☐ Provide a re-vegetation plan, including #_____ of trees to be removed and #_____ of trees to be replanted.

Proposed Utility Installation	Proposed New Construction
Utility Installation Method	Foundation type ☐ basement
☐ directional bore ☐ plowing in	☐ concrete slab ☐ pilings
☐ open trench ☐ other	☐ crawl space ☐ other
➡ Show utility locations and dimensions on the site plan.	Area of existing structure (sq ft)
➡ Show construction access route on the site plan.	Area of proposed structure (sq ft)
➡ Show existing and proposed grades on the cross-section.	Area of existing deck (sq ft)
➡ Show locations of vegetation to be removed on the site plan.	Area of proposed deck (sq ft)

Provide the following information for special use projects:
(a) Lot size, width, density, and front and side setbacks.
(b) Storm water drainage that provides for disposal of drainage water without serious erosion.
(c) Methods for controlling erosion from wind and water.
(d) Re-stabilization plan.
(e) Environmental Impact Statement.

High Risk Erosion Areas

Parcel dimensions (ft) width depth	Date project staked (M/D/Y)
Existing Structure Information	**Proposed New Construction**
Foundation type ☐ basement ☐ concrete slab ☐ pilings ☐ crawl space ☐ other	Foundation type ☐ basement ☐ concrete slab ☐ pilings ☐ crawl space ☐ other
Material above foundation wall ☐ block ☐ log ☐ stud frame ☐ other	Material above foundation wall ☐ block ☐ log ☐ stud frame ☐ other
Siding material ☐ block ☐ vinyl ☐ wood ☐ other	Siding material ☐ block ☐ vinyl ☐ wood ☐ other
Area of the foundation, excluding attached garage (sq ft)	Area of the foundation, excluding attached garage (sq ft)
Area of the garage foundation (sq ft)	Area of the garage foundation (sq ft)
If renovating or restoring an existing structure, indicate the renovation or restoration cost $	
Current structure replacement value $	
Tax assessed value of existing structure excluding land value $ Assessment Year Provide the number of individual living units in the proposed building	

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Welcome to delicious.™

Okemos, Michigan
5140 Times Square Drive ♦ Okemos, MI 48864 ♦ (517) 853-8714 Phone ♦ **(517) 853-8717** Fax

2/23/15

To whom it may concern:

This letter gives permission for Mid-Michigan Ponds and Michael Harris to act as an agent on our behalf to apply for the General Permit and engage in communication with both the State of Michigan and Meridian Township in regards to permitting information.

Sincerely,

2-23-15

Cory Chvala
Owner / Operator
Culver's of Okemos
517-853-8714
culversofokemos@mailbag.com

Chvala Project Site Plan

Scale: 1"=180'

Total surface area of proposed pond = approximately 2.0 acres

Amount of Wetland that would be detrimentally impacted by deep water habitat (greater than 4') =13,250sq. ft. or .30 acre

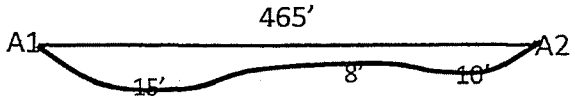
Cross-Section, Depth Contour Map and Calculations

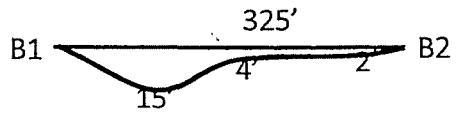
Maximum Depth= 15'
Average Depth= 6'
Average Length= 460'
Average Width= 190'

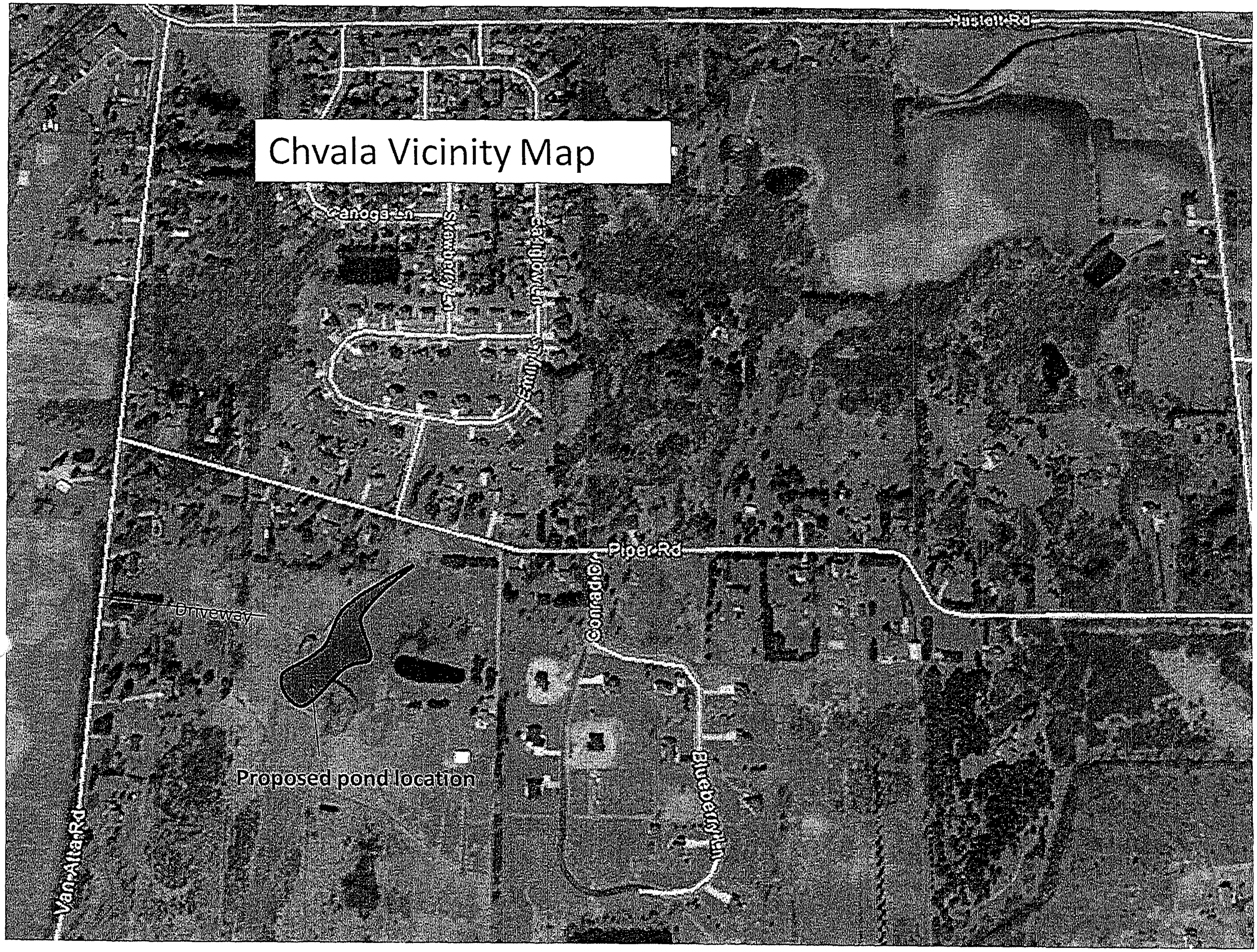
Calculations:
Surface Area=
190x460/43560=2.0acres

Volume in cubic yards=
190x460x6/27=19,422 cyd

Scale: 1" = 180'

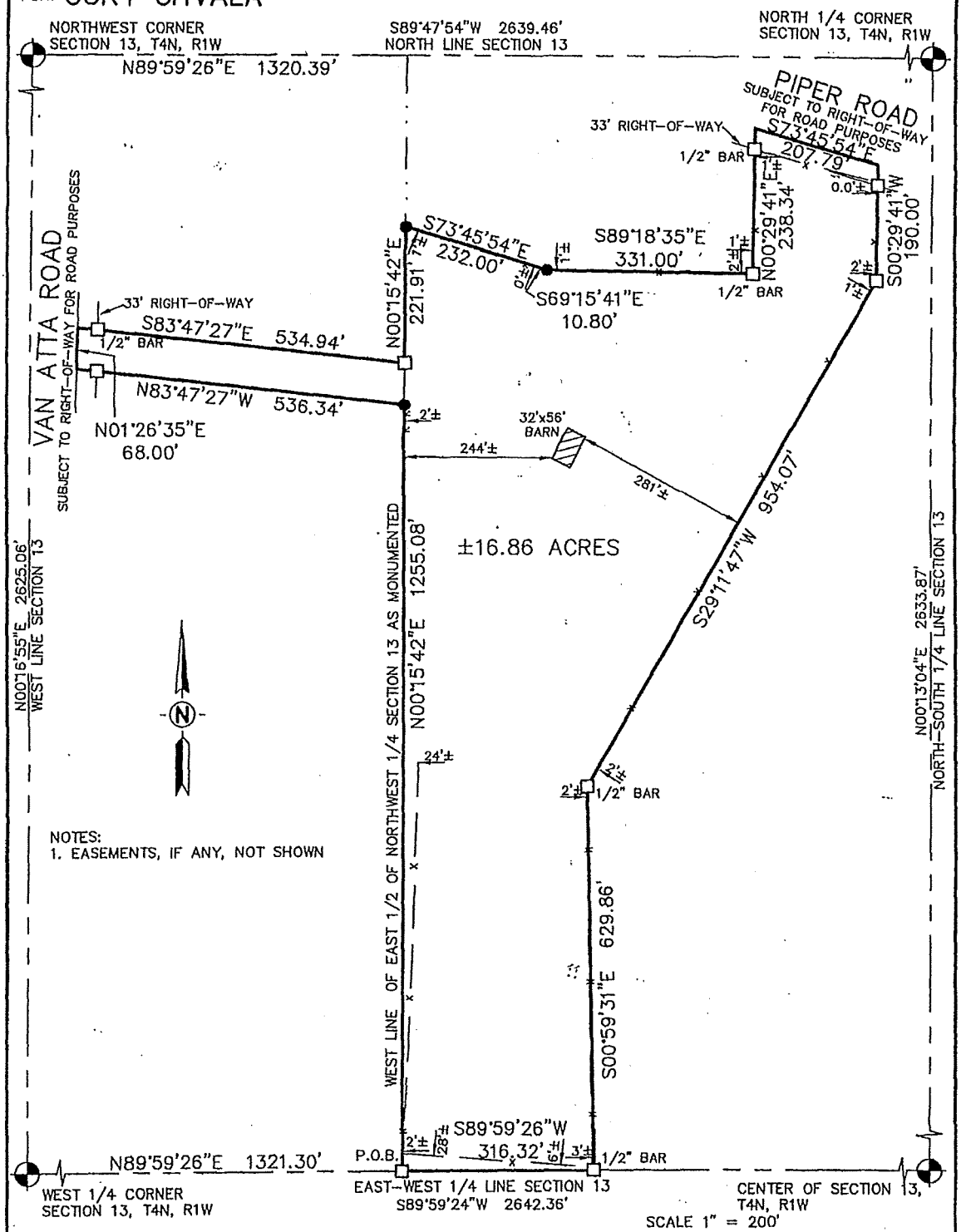





Chvala Vicinity Map
Haslett Rd
Stawberry Ln
Emily Ln
Piper Rd
Driveway
Conrad Dr
Proposed pond location
Blueberry Ln
Van Alta Rd

CERTIFIED BOUNDARY SURVEY

FOR: CORY CHVALA



LEGEND

- ● = Set 1/2" Bar with Cap
- □ = Found Bar & Cap #25832 Unless Noted
- ——— = Survey Boundary Line
- ——/——— = Distance Not to Scale
- —x—x— = Fence
- 0.0'± = Denotes Distance to the Survey Line

All Dimensions are in Feet and Decimals Thereof.

All Improvements Not Shown.

KEBS, INC. KYES ENGINEERING BRYAN LAND SURVEYS

2116 HASLETT ROAD, HASLETT, MI 48840
PH. 517-339-1014 FAX. 517-339-8047

13432 PRESTON DRIVE, MARSHALL, MI 49068
PH. 269-781-9800 FAX. 269-781-9805

DRAWN BY SLH	SECTION 13, T4N, R1W
FIELD WORK BY NAW	JOB NUMBER: 87614.BND
SHEET 1 OF 3	

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING DISTRICT OFFICE

DAN WYANT
DIRECTOR

July 31, 2014

Mr. Cory Chvala
5540 Earliglow
Haslett, Michigan 48840

Dear Mr. Chvala:

SUBJECT: Preapplication Meeting
Michigan Department of Environmental Quality (MDEQ)
File Number 14-33-0017-P

This letter is a follow-up to our July 22, 2014, pre-application meeting regarding the proposed project on vacant land located on the east side of Van Atta Road just south of Piper Road, in Meridian Township, Ingham County. The purpose of a preapplication meeting is to provide you with information that will clarify the permit process, answer preliminary questions about your specific project in order to avoid delays at a later date, and to determine, if possible, the need for wetland or inland lakes and streams permits.

During this meeting we reviewed the need to obtain a permit under Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). The review was based on discussion of the proposed project, information provided in the pre-application request, the proposed site, and potential modifications to the project discussed during our meeting.
During the review of the project site, the MDEQ's Water Resources Division (WRD) staff determined that excavation of an approximate 1.8 acre pond in the wetland would require a permit under Part 303 of the NREPA.

This determination is based on discussion at the site and information provided in the pre-application meeting request. Provided that the proposed project and location are not altered, this determination is binding on the MDEQ for a period of two years from the date of this meeting.

During the meeting, we also discussed a number of issues related to the project, including the following:

- Information on completing an application form.
- Possible alternative design options to minimize project effects on aquatic resources, *specifically* how to meet the Minor Project requirements for a pond under Part 303.
- The need to clearly define the purpose of your project in the permit application.
- What to include in the project plans.

- Potential adverse effects to aquatic resources on the site that may result from the proposed project.

- The potential presence of state or federally-listed threatened or endangered species on the site. We recommend review of the material available on the Michigan Department of Natural Resources (MDNR) Web site at http://www.mcgi.state.mi.us/esa/ for further information regarding coordination with MDNR staff.

Please note that this is not a permit. The WRD cannot indicate during a preapplication meeting whether or not a permit will be issued. The WRD cannot make a decision regarding a permit until it has considered all of the information provided in the final permit application, and, in some instances, has also considered comments received in response to a public notice of the project. Therefore, WRD staff cannot legally tell you whether the project will be permitted in advance of a permit application being submitted and reviewed.

The MDEQ file number assigned to this project is 14-33-0017-P. Please keep a record of this file number, and use it when submitting a final application or otherwise corresponding with our office on this project.

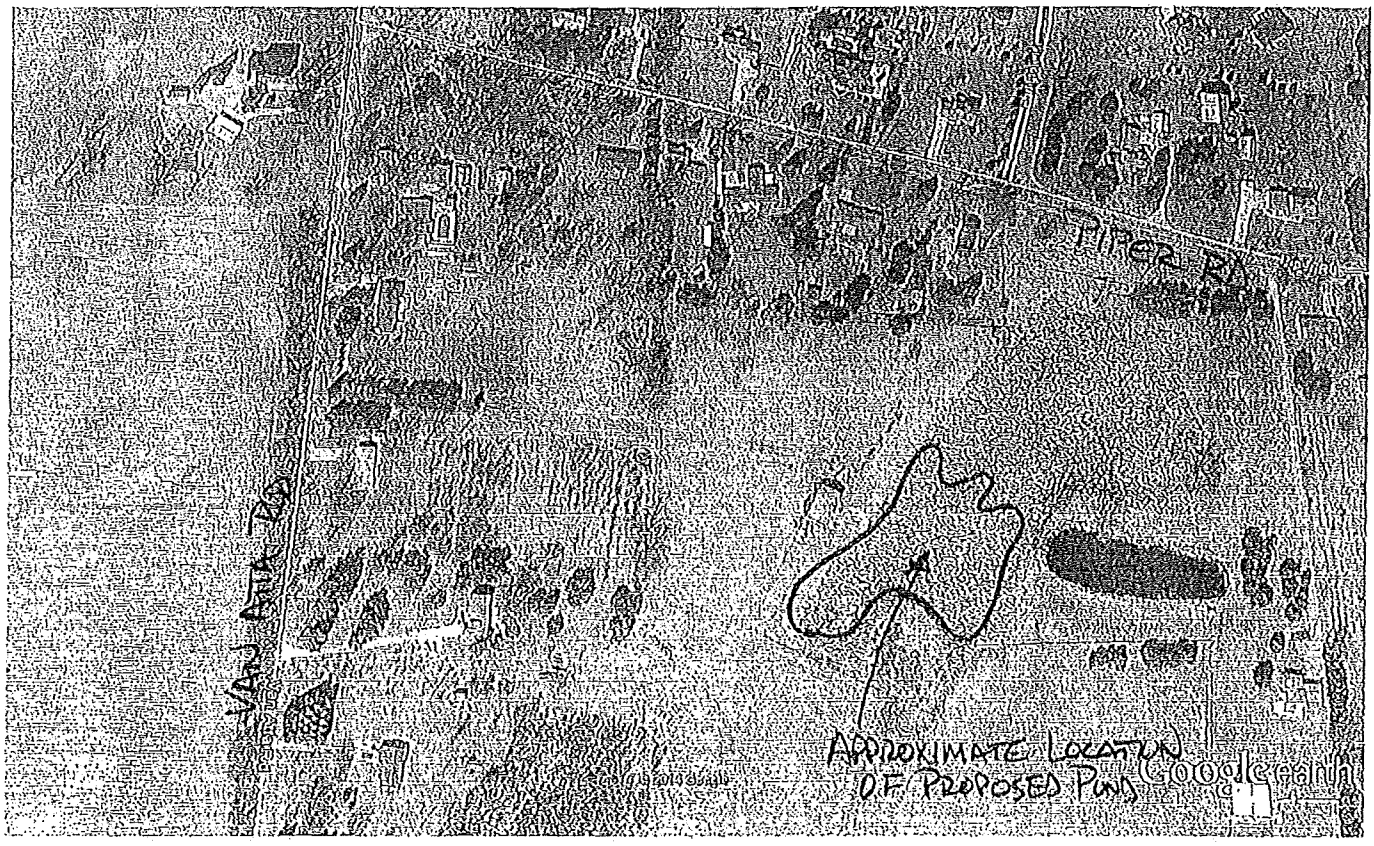
We appreciate the opportunity to meet with you or your representative to address these concerns. We have established a file for this project, and the information submitted to date will be used to facilitate processing of the final application. If you should have follow up questions before then, please contact me at 517-284-6666 kolhofft@michigan.gov; or, MDEQ-WRD, Lansing District Office, P.O. Box 30242, Lansing Michigan 48909-7742

Sincerely,

Thomas Kolhoff
Water Resources Division

Enclosure

cc: Mr. Rick Brown, Charter Township of Meridian
Mr. Michael Harris, Mid-Michigan Ponds, LLC



CHARTER TOWNSHIP OF MERIDIAN
(T4N, R1W) SECTION 13

CHVALA PROPERTY
PROPOSED POND

RECEIVED
JUL 02 2014
DEQ-LANSING DO

DEQ -
File # 14.33.0017.P
APPROVED PLANS
Page 1 of 1
PRE-APPLICATION MEETING
JULY 22, 2014

RECEIVED
JUL 02 2014
DEQ-LANSING DO

Chvala Wetland Mitigation Plan

Piper Road

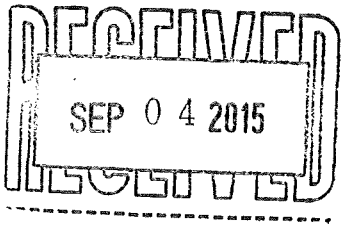
Haslett, Michigan

By: Mid-Michigan Ponds

Submitted To: Meridian Township

Prepared By: Stefanie Jubb

September 4, 2015



1.0 Project Description

As a result of the proposed pond project at the Chvala property on Piper Road in Haslett, Michigan, it has been determined that 0.3 acres of existing emergent marsh wetland will be converted to deep water habitat . In compliance with Meridian Township's no net loss wetland policy, Mid-Michigan Ponds has developed a mitigation plan to create 0.3 acres of new wetland that will also be connected to the existing wetland and deep water habitat. Creation of these wetlands will be done in conjunction with the pond construction. Included in this mitigation plan are specifications of the wetlands being created, as well as a monitoring program to ensure the sustainability of these mitigated wetlands.

2.0 Proposed Mitigation Plan

Mid-Michigan Ponds proposes creating 0.3 acres of wetland at the Chvala property on Piper Road in Haslett, Michigan in conjunction with pond construction and the conversion of 0.3 acres of wetland habitat to deep water habitat. Approximately 0.15 acres of the created wetland will be located in an upland area adjacent to the existing wetland on the north end of the property, just south of Piper Road. This area will be excavated to create 6:1 slopes, slowly increasing in depth as it approaches the proposed pond area. Six inches of organic soil will be present across the mitigation area. Mid-Michigan Ponds will also create microtopography within the wetland to help enhance the water quality and promote the establishment of a diverse vegetative community. The 0.15 acres will not exceed four feet in depth at its deepest point. Due to its connectivity to the existing wetland and proposed pond, the hydrology here should fully support and sustain a new wetland. The shorelines and shallows will be seeded with a wetland seed mix containing forbs, grasses, sedges and rushes, (40% forbs/60% grasses/sedges/rushes) all of which are currently naturally occurring species in the existing marsh wetland. A list of species included in this mix is attached.

The other 0.15 acres of wetland will be created in an upland area adjacent to the west side of the existing wetland and proposed pond location. The same 6:1 slopes will be present in this area, gradually increasing in depth the closer to the deep water area it gets, and six inches of organic soil will be present across the mitigation area. Microtopography will also be present in this wetland area. The maximum depth in this 0.15 acres will not exceed four feet. Shorelines and shallows will also be vegetated with the same wetland seed mix containing forbs, grasses, sedges and rushes. This will eventually grow to create a very similar, yet more diverse, emergent marsh wetland to what is currently existing at the property, and the same connectivity to the current wetland will promote consistent hydrology necessary for the wetland's success.

The areas that are being converted to emergent marsh wetland are currently upland areas with grasses being the main vegetation present. Soils are well drained. The current wetland that

will be converted to deep water habitat is a monoculture cattail marsh. These mitigation efforts will create much more diverse emergent marsh wetland along the edges of the current wetland and proposed pond area, allowing for sustainable hydrology, the establishment of hydric soils, therefore permitting the wetland species in the seed mix to thrive.

3.0 Schedule and Methods

Creation of the mitigated wetlands will be concurrent with pond construction and conversion of the existing marsh to shallow water wetland. Excavation is scheduled to begin mid-January 2016 and mitigation will take place during May and June. Final planting of the mitigated wetlands will take place mid-June 2016. Photo documentation of the organic soil will be provided to Meridian Township upon its completion. Monitoring activities will begin one month after final planting is completed.

4.0 Monitoring Requirements

In compliance with standard mitigation plans and Meridian Township's policy, Mid-Michigan Ponds will conduct monthly assessments of mitigated wetlands throughout the year following their completion. Monthly assessments will include the following:

- Plant species present in each wetland area and percent cover
- Percentage of open water in mitigated wetlands
- Invasive species present and percent cover
- Photographs of each wetland
- Assessment of water level in each wetland
- Observation of wildlife present and/or signs of usage
- Documentation of any maintenance activities that may have occurred
- Assessment of any problem areas that may need adaptations to ensure their success

A complete summary of these monthly assessments will be compiled at the end of the year and submitted to Meridian Township for review by January 1st of the following year. If any adaptations are required, Mid-Michigan Ponds agrees to work with the owner and create a plan to promote the sustainability of these mitigated wetlands.

Attached is a figure showing the areas to be mitigated, the slopes and depths at one foot intervals, and the boundaries of the existing wetland, the proposed pond, and the area of wetland being converted to shallow water wetland. Proposed locations of silt fencing during construction are also provided on these maps. A list of species included in the wetland seed mix is also attached.

MICHIGAN WILDFLOWER FARM

Wetland Mix

40% Forbs 60% Grass/Sedge/Rush

Seeding Rate = 3 oz./1000 s.f. or 6 lbs./acre

$19.50/oz. or $310/lb.

Scientific name	Common Name	% by wt.
FORBS		
Asclepias incarnata	Swamp milkweed	3
Anemone canadensis	Canada anemone	3
Angelica atropupurea	Angelica	4
Aster puniceus	Swamp aster	4
Eupatorium maculatum	Joe-Pye weed	5
Eupatorium perfoliatum	Boneset	5
Euthamia graminifolia	Grass-leaved goldenrod	1
Iris virginica	Wild blue flag	4
Lobelia siphilitica	Blue lobelia	1
Solidago patula	Swamp goldenrod	2
Solidago riddellii	Riddell's goldenrod	2
Verbena hastata	Blue vervain	3
Vernonia missurica	Ironweed	3
Total		**40**
GRASSES		
Carex spp.	Carex species	10
Elymus virginicus	Virginia wild rye	40
Scirpus spp.	Scirpus species	10
Total		**60**

Michigan Wildflower Farm
ph: 517.647.6010
email:wildflowers@voyager.net
www.michiganwildflowerfarm.com

*Area contained by the yellow line and bordered by the white dotted line is the 0.3 acres of wetland being converted to deep water habitat that this mitigation plan serves to compensate for. All area outside of the yellow line but contained by the black line will be shallow water habitat.

KEY

Black Outline – Total Pond Area (2.3 Acres)
Yellow Outline – Deepwater Habitat
White Dotted Line – Current Wetland Area
Red Dotted Line – Mitigated Wetland Areas
Blue Lines – One Foot Contour Lines
Yellow Lines – Silt Fence Placement

Total surface area = approximately 2.3 acres

Wetland area impacted by deep water habitat =13,250 sq. ft.

New wetlands created for mitigation= 13,250 sq. ft. or 0.3 acres

Mitigation ratio = 1:1

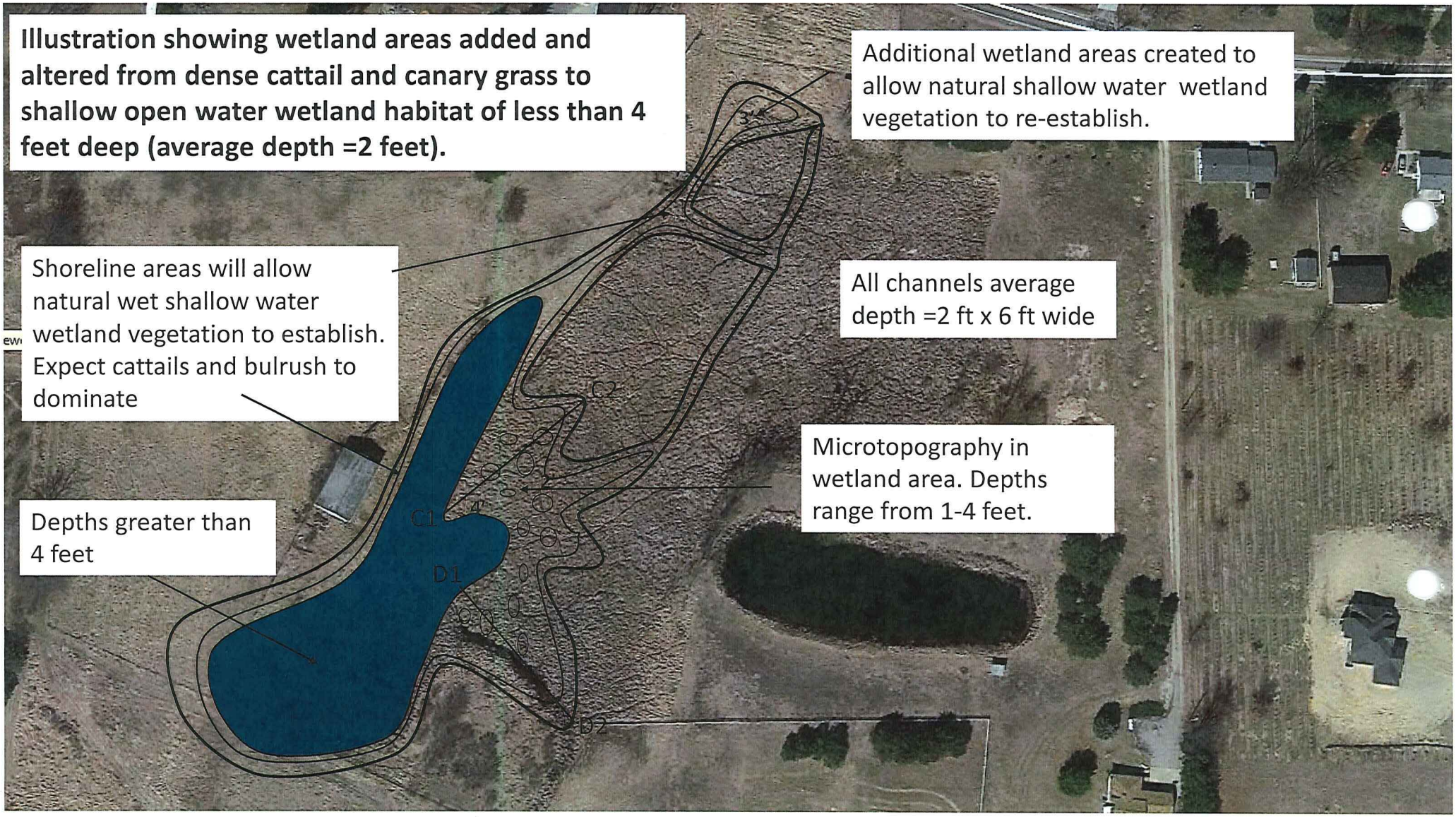
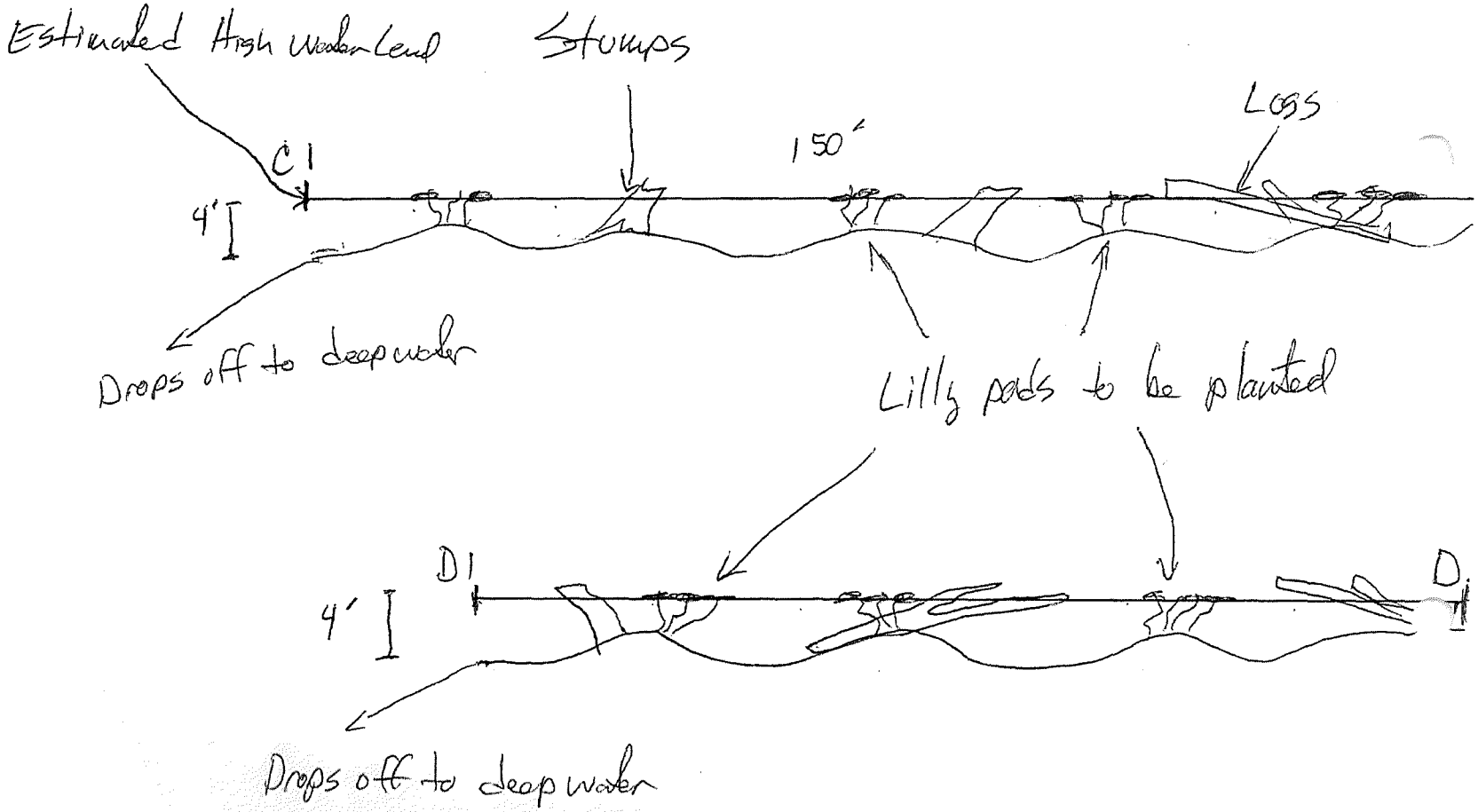
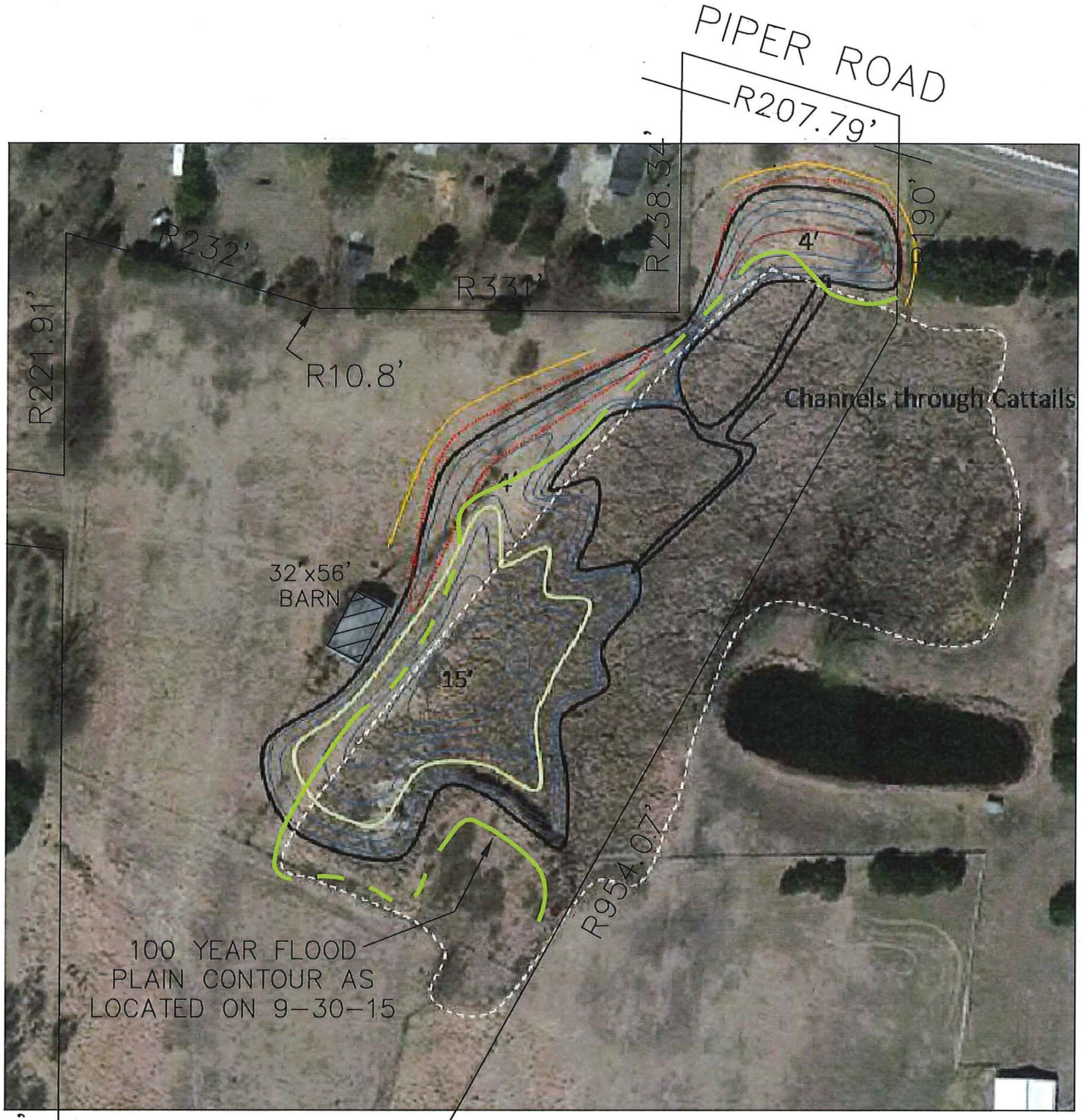


Illustration showing wetland areas added and altered from dense cattail and canary grass to shallow open water wetland habitat of less than 4 feet deep (average depth =2 feet).
Additional wetland areas created to allow natural shallow water wetland vegetation to re-establish.
Shoreline areas will allow natural wet shallow water wetland vegetation to establish. Expect cattails and bulrush to dominate
All channels average depth =2 ft x 6 ft wide
Microtopography in wetland area. Depths range from 1-4 feet.
Depths greater than 4 feet
C2
C1
D1
D2
3'
4'

Chvala Wetland Contours





PER CLIENT PROVIDED MITIGATION SKETCH

BLACK OUTLINE – TOTAL POND AREA (2.3 ACRES)
YELLOW OUTLINE – DEEPWATER HABITAT
WHITE DOTTED LINE – CURRENT WETLAND AREA
RED DOTTED LINE – MITIGATED WETLAND AREAS
BLUE LINES – ONE FOOT CONTOUR LINES
YELLOW LINES – SILT FENCE PLACEMENT

October 1, 2015
Project No. G140549

Mr. Rick Brown, AICP, CBSP
Associate Planner
Charter Township of Meridian
5151 Marsh Road
Okemos, MI 48864

Re: Wetland Use Permit Review
Wetland Use Permit 15-02 Application
Chvala Property

Dear Mr. Brown:

Mr. Cory Chvala proposes to excavate approximately 19,500 cubic yards of material from 2.0 acres of wetland to create a 0.3 acre deep water area and 1.7 acres of wetland enhancement at residential property located at 5384 Van Atta Road, Haslett, Michigan. To compensate for wetland loss, Mr. Chvala proposes to construct 0.3 acre of mitigation wetland in existing upland adjacent to the site's wetland. FTCH delineated site wetlands on September 16, 2013, and attended a Pre-Application meeting at the site with Mr. Chvala and Mr. Tom Kolhoff of the Michigan Department of Environmental Quality (MDEQ) on October 16, 2014. The MDEQ issued a permit authorizing wetland impacts on June 29, 2015.

At the request of the Township, FTCH reviewed Wetland Use Permit (WUP) Application 15-02 request and wetland mitigation plan. This report provides a brief description of the resources that would be impacted by the proposed work, evaluates the WUP Application according to review standards in the Township Wetland Protection Ordinance (Article IV of Chapter 22 of the Code of Ordinances of the Charter Township of Meridian), and makes recommendations to the Township regarding issuance or denial of the WUP application.

Overview of Proposed Wetland Impacts

The proposed activities are located in Section 13 of the Charter Township of Meridian (Township), T4N, R1W, Ingham County, Michigan. The site's wetland primarily consists of cattail marsh with reed canary grass located along the outer edge. Mr. Chvala proposes to create a 0.30 acre pond with a depth up to 15 feet, and 1.7 acres of wetland enhancement, with standing water depths of 1- to 4-feet and irregular bottom contours. Two-foot deep, 6-foot wide channels would also be created through the wetland. To compensate for the loss of 0.3 acre of wetland due to pond construction, 0.15 acre of new wetland will be constructed at the north end of the wetland enhancement area and 0.15-acre of mitigation wetland will be constructed on the west side of the existing wetland and proposed pond location.

Review of WUP Application

The review standards used to evaluate WUP applications are found in Section 22-157 of Article IV (Wetland Protection) of Chapter 22 of the Township's Code of Ordinances. WUPs are not to be issued unless the proposed activity is found to be in the public interest, the permit is necessary to realize the benefits from the activity, and the proposed activity is otherwise lawful in all respects. Section 22-157(2) lists eleven general criteria to be

considered when evaluating whether or not a proposed activity is in the public interest. An evaluation of the proposed activity, according to each of the eleven criteria, is as follows:

Section 22-157(2)(a) *The relative extent of the public and private need for the proposed activity.*

- FTCH was not provided information regarding the relative extent of the public and private need for the proposed activity.

Section 22-157(2)(b *The availability of feasible and prudent alternative locations and methods to accomplish the expected benefits from the activity.*

- The expected benefits from the proposed project are wetland enhancement and pond creation. Due to existing grades, there are limited locations for placing the pond and constructing the required acreage of mitigation wetland onsite. Mid-Michigan Pond, Mr. Chvala's contractor, noted that placement of the pond on the southern portion of the site was considered. However, this location would restrict the property owner's access to the back of the property. This area also contains regulated wetland and floodplain. The owner also wishes to reserve this area for future horse pasturing.

Section 22-157(2)(c) *The extent and permanence of the beneficial or detrimental effects which the proposed activity may have on the public and private uses to which the area is suited, including the benefits the wetlands provide.*

- The proposed activity will improve and diversify wetland functions, including improving wildlife habitat.
- The proposed activity will create greater interspersion between different wetland community types, which will improve overall wetland function.
- Private benefits will be achieved through aesthetic improvements to the site and recreational opportunities (swimming, kayaking, and bird watching).
- No detrimental effects are anticipated as a result of this project, as long as invasive species do not become established due to site disturbance.

Section 22-157(2)(d) *The probable impact of each proposal in relation to the cumulative effect created by other existing and anticipated activities in the watershed.*

- There are no identified cumulative impacts of the proposed project.

Section 22-157(2)(e) *The probable impact on recognized historic, cultural, scenic, ecological, or recreational values and on the public health or safety, or fish or wildlife.*

- FTCH has no direct information pertaining to historic and cultural value or issues relating to impacts on public health.
- The project is likely to significantly positively impact recreational and scenic values for the property owner.
- The project is likely to have a positive impact on fish and wildlife by improving their habitat.
- The project is located on private land with remote access. Therefore, construction of a deep pond is not considered a significant public safety risk.

Section 22-157(2)(f) *Economic value, both public and private, of the proposed land change to the general township area.*

- The question of economic value associated with the proposed activity is beyond the scope of the issues FTCH was retained to address. Accordingly, FTCH offers no opinion, recommendations, or advice with respect to these criteria.

Section 22-157(2)(g) *The size and quality of the wetland being considered.*

- The impacted wetland consists of an approximately 4.25-acre cattail marsh with low plant species diversity. The proposed project will result in no net loss of wetland area but will diversity the wetland plant communities associated with this wetland complex. It will also introduce an open water component, which will improve wildlife habitat. Therefore, it is anticipated that overall wetland quality will improve as a result of this project.

Section 22-157(2)(h) *The findings of necessity for the proposed activity which have been made by other agencies.*

- FTCH is not aware of any findings of necessity for the proposed activity which have been made by other agencies.

Section 22-157(2)(i) *Amount of wetland remaining in the general area and proximity to a waterway.*

- According to the Township Wetland Map, the site's wetland is part of an 83.87-acre wetland complex through which the Foster County Drain flows (Township Wetland 13-12D). An approximately 0.4-acre, man-made pond is located directly east of the site's wetland.

Section 22-157(2)(j) *Proximity to any waterbody.*

- The Foster Drain is located approximately 0.3 mile south of the southern edge of the proposed site development.

Section 22-157(2)(k) *Extent to which upland soil erosion adjacent to the protected wetland is controlled.*

- The MDEQ permit stipulates that all excavated spoils be placed onsite in upland areas and that these areas be effectively stabilized with sod and/or seed and mulch. Due to site grades, the potential exists that excavated spoils could erode and be deposited in the wetland if they are not properly stabilized. Therefore, prompt and effective stabilization is necessary to prevent an unlawful discharge of soil into the site's wetland.
- The WUP application indicates a silt fence will be installed upgradient of the proposed soil disturbance area. The fence will be installed downgradient of the soil stockpile area and should intercept potential soil erosion originating from the stockpile, if any occurs.

Recommendations

FTCH recommends the Township issue a WUP for the proposed project with the following conditions:

- Implement appropriate soil erosion and sedimentation control (SESC) measures during construction to ensure there are no impacts to the mitigation wetland and the site's existing wetland as a result of eroding soil.
- Periodically inspect the site during the first year after construction to identify and correct erosion issues.

- Monitor the mitigation wetland for five years in accordance with Mid-Michigan Ponds' September 24, 2015, *Chvala Wetland Mitigation Plan*. Vegetation monitoring should be conducted between July 15 and August 31.

We appreciate the opportunity to assist in the review of this file. If you have any questions or require additional information, please contact me at 616.464.3738 or ehtripp@ftch.com.

Sincerely,

FISHBECK, THOMPSON, CARR & HUBER, INC.

Elise Hansen Tripp, PWS

pmb
By email

July 28, 2014
Project No. G140549

Mr. Richard Brown
Charter Township of Meridian
5151 Marsh Road
Okemos, MI 48864-1198

Re: Wetland Investigation
Chvala Property
Haslett, Ingham County, Michigan

Dear Mr. Brown:

On July 22, 2014, Fishbeck, Thompson, Carr & Huber, Inc. (FTCH) staff conducted a field investigation to determine and flag wetland boundaries at property owned by Mr. Cory Chvala. The site is located directly south of Piper Road and east of Van Atta Road. The results of the investigation are included in this report.

The area of investigation is located in the northwest ¼ of Section 13, Town 4 North, Range 1 West. The evaluated area is primarily undeveloped property, is former farmland, and contains a barn. The site is bound by wetlands to the east and south, residential property and wetlands to the west and residential property to the north.

The investigation was conducted in a manner consistent with the 1987 *Corps of Engineers Wetlands Delineation Manual* and 2012 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (Version 2). The wetlands identification and delineation procedures outlined in these manuals require evaluation of site vegetation, soils, and hydrologic characteristics. Hydrophytic vegetation decisions are based on the wetland indicator status of species that are dominant in the plant community. Species with indicator statuses of obligate wetland (OBL), facultative wetland (FACW), and facultative (FAC) are considered wetland species, while species with indicator statuses of facultative upland (FACU) and upland (UPL) are considered upland species. FAC species are also commonly present in upland plant communities.

LITERATURE REVIEW

According to the U.S. Department of Agriculture Natural Resources Conservation Service *Web Soil Survey*, the site contains significant areas of both upland and wetland soil. Hydric (wetland) soil (i.e. Houghton muck and Edwards muck) are mapped at the east and south ends of the site, respectively. Predominantly hydric (wetland) soil (i.e. Gifford sandy loam) is noted between these two mapping units (see Appendix 1).

The National Wetlands Inventory map indicates emergent wetland is present in the areas mapped with hydric and predominantly hydric soils (see Appendix 2).

The Charter Township of Meridian (Township) wetland map indicates Wetland Number 13-12D is located in the south half of the site and along its eastern edge. This wetland extends offsite to the east, west and south. The Township wetland map indicates this wetland is approximately 83.87 acres in size and consists of an emergent/scrub shrub wetland complex. This wetland is regulated by both the State of Michigan and the Township.

SITE INVESTIGATION

The area of investigation is noted in Figure 1. Only wetlands in the vicinity of the proposed building site were delineated; additional wetlands present at the south end of the property were not delineated. The northwest

end of the site contained mowed upland meadow. The site sloped down to the east and to the south. A cattail marsh was observed in the northeast quadrant of the site. This wetland was described at Sampling Point SP-1. A wet meadow and scrub shrub wetland was observed in the south half of the site. This wetland was described at Sampling Point SP-2. An upland ridge separated the two wetlands.

U.S. Army Corps of Engineers Wetland Determination Data Forms were completed to describe site vegetation, soil, and hydrology at the two sampling locations (Appendix 3). Wetland boundaries were flagged with pink ribbon and surveyed with a handheld GPS unit with sub-meter accuracy. The flags were labeled WB-1 through WB-26. Attachment 4 includes photographs of the sampling point locations.

CONCLUSIONS

Figure 1 indicates the location of the delineated wetland boundaries. The delineated wetlands correlate to Wetland Number 13-12D, as noted on the Meridian wetland map.

According to Michigan's Natural Resources and Environmental Protection Act, Act 451, Section 30301(d), wetlands "contiguous to the Great Lakes or Lake St. Clair, an inland lake or pond, or a river or stream" or "more than 5 acres in size" are regulated by the State of Michigan. "Contiguous" is defined as being within 500 feet of an inland lake or pond, or a river or stream. In addition, Meridian regulates wetlands greater than 2-acres in size which are not contiguous to a water body and smaller wetlands that are determined to provide essential functions.

The northern wetland is approximately 5 acres in size and is contiguous with an approximately 0.5 acre pond located on adjacent property. The southern wetland is greater than five acres in size and contiguous with the Foster Drain. Therefore, these wetlands are regulated by both the State of Michigan and the Township. The two wetlands may also be hydraulically connected. A permit would be required from the Township for the following activities:

- Placing fill or permitting the placement of fill in the wetland.
- Dredging, removing, or permitting the removal of soil or minerals from the wetland.
- Constructing, operating, or maintaining any use or development in the wetland.
- Draining surface water from the wetland.
- Discharging water into the wetland.

If you have any questions regarding this letter, the wetland permitting process, or any other wetland-related questions, please contact me at 616.464.3738 or ehtripp@ftch.com.

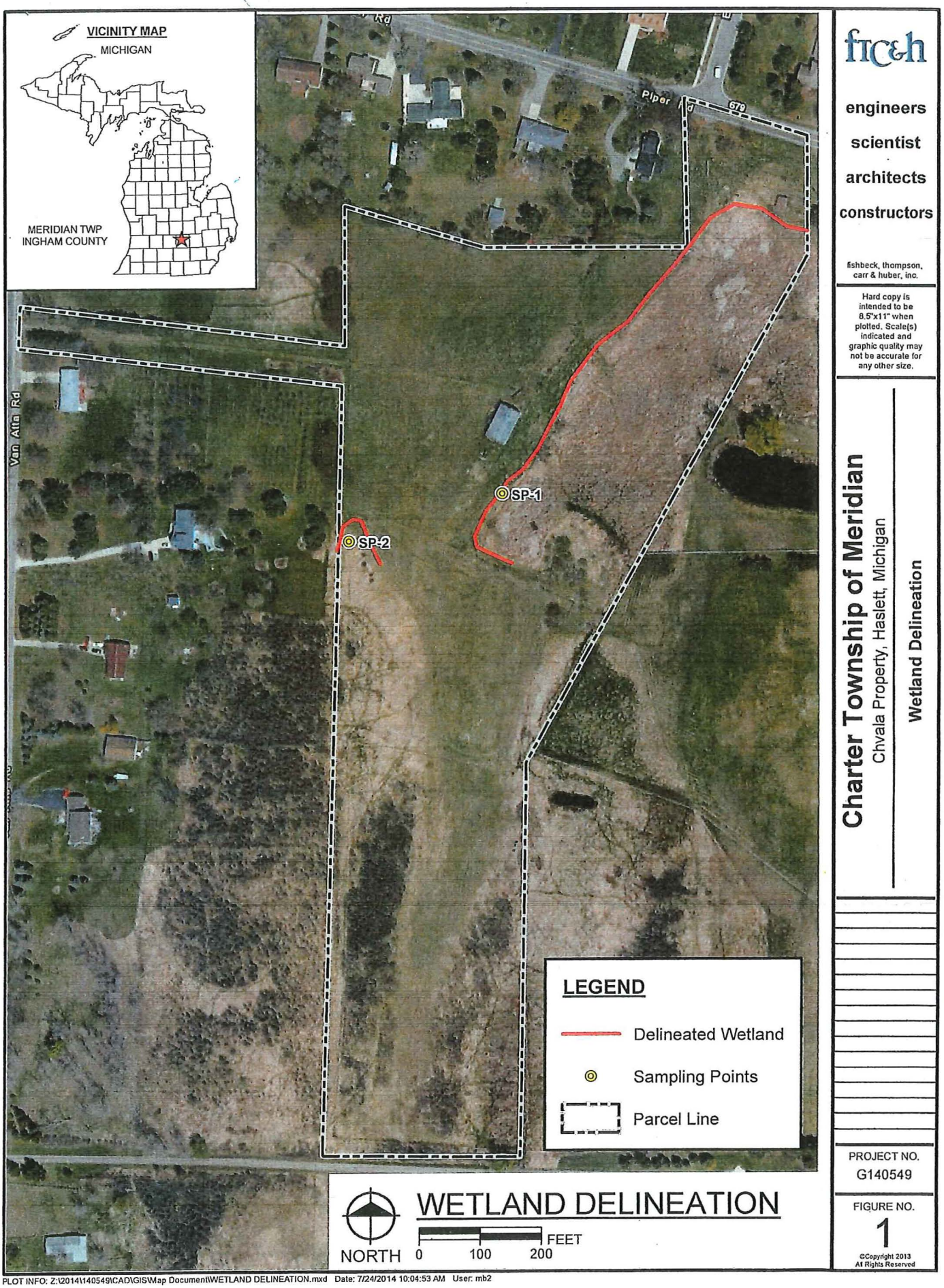
Sincerely,

FISHBECK, THOMPSON, CARR & HUBER, INC.

Elise Hansen Tripp

Elise Hansen Tripp, PWS

pmb
Attachments
By email



WETLAND DELINEATION

fishbeck, thompson, carr & huber, inc.

engineers
scientist
architects
constructors

Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Charter Township of Meridian
Chvala Property, Haslett, Michigan
Wetland Delineation

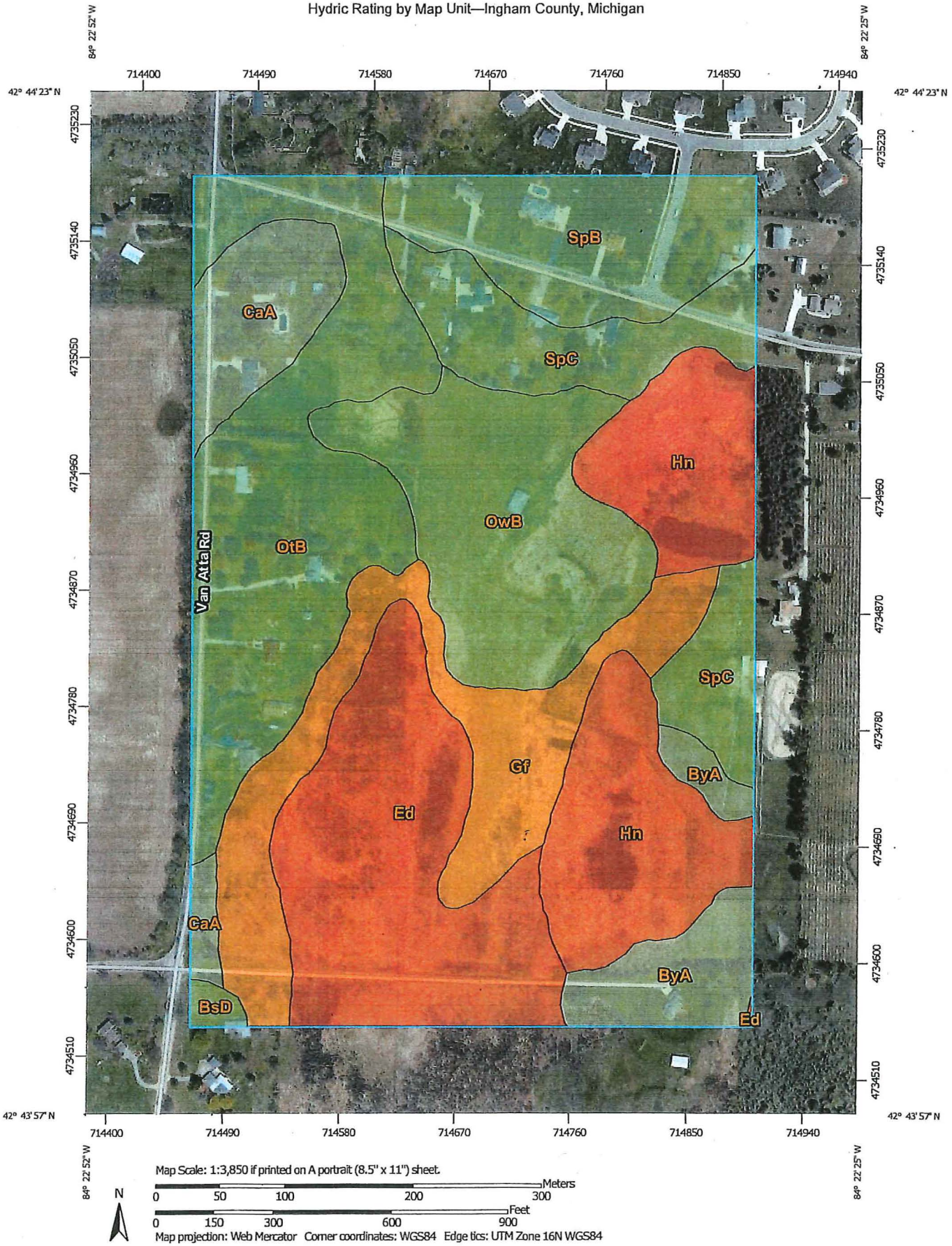
PROJECT NO.
G140549

FIGURE NO.
1

PLOT INFO: Z:\2014\140549\CAD\GIS\Map Document\WETLAND DELINEATION.mxd Date: 7/24/2014 10:04:53 AM User: mb2

Appendix 1

Hydric Rating by Map Unit—Ingham County, Michigan



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Hydric (100%)
- Predominantly Hydric (66 to 99%)
- Partially hydric (33 to 65%)
- Predominatly nonhydric (1 to 32%)
- Nonhydric (0%)
- Not rated or not available

Soil Rating Lines
- Hydric (100%)
- Predominantly Hydric (66 to 99%)
- Partially hydric (33 to 65%)
- Predominatly nonhydric (1 to 32%)
- Nonhydric (0%)
- Not rated or not available

Soil Rating Points
- Hydric (100%)
- Predominantly Hydric (66 to 99%)
- Partially hydric (33 to 65%)
- Predominatly nonhydric (1 to 32%)
- Nonhydric (0%)
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Ingham County, Michigan
Survey Area Data: Version 11, Dec 18, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 27, 2010—May 5, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Hydric Rating by Map Unit— Summary by Map Unit — Ingham County, Michigan (MI065)				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
BsD	Boyer-Spinks loamy sands, 12 to 18 percent slopes	0	0.3	0.5%
ByA	Brady sandy loam, 0 to 3 percent slopes	5	3.2	4.5%
CaA	Capac loam, 0 to 3 percent slopes	5	3.7	5.2%
Ed	Edwards muck, 0 to 1 percent slopes	100	11.0	15.5%
Gf	Gilford sandy loam	93	8.1	11.3%
Hn	Houghton muck, 0 to 1 percent slopes	100	10.1	14.1%
OtB	Oshtemo-Spinks loamy sands, 0 to 6 percent slopes	0	12.8	17.9%
OwB	Owosso-Marlette sandy loams, 2 to 6 percent slopes	0	9.3	13.1%
SpB	Spinks loamy sand, 0 to 6 percent slopes	0	6.3	8.8%
SpC	Spinks loamy sand, 6 to 12 percent slopes	0	6.4	9.0%
Totals for Area of Interest			**71.2**	**100.0%**

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present

Component Percent Cutoff: *None Specified*

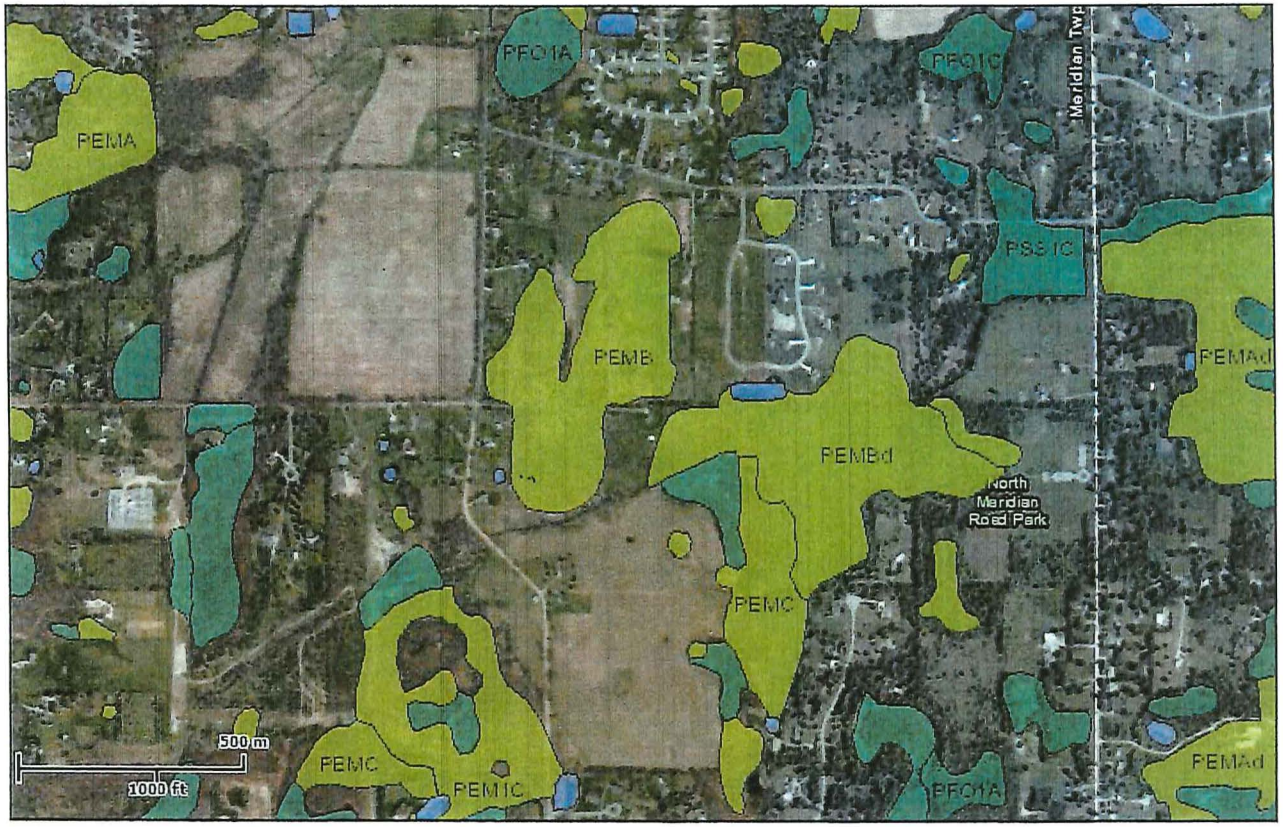
Tie-break Rule: Lower

Appendix 2

U.S. Fish and Wildlife Service
National Wetlands Inventory

Chvala Property, Haslett, MI

Jul 16, 2014



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

User Remarks:

Appendix 3

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Meridian\Chvala City/County: Haslett/Ingham Sampling Date: 7/22/2014 3:25:59 PM

Applicant/Owner: Meridian Twp. State: MI Sampling Point: SP-1

Investigator(s): ELISE TRIPP Section, Township, Range: S13, T4N, R1W

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): LL

Slope (%): 0 - 2% Lat: 42.736714092 N Long: 84.377110297 W Datum: WGS84

Soil Map Unit Name: Oshtemo-Marlette loamy sands, 2 to 6 percent slopes NWI classification: PEMB

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ✓ No _____	**Is the Sampled Area within a Wetland?** Yes ✓ No _____
Hydric Soil Present? Yes ✓ No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes ✓ No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

Corresponds to Meridian Township Wetland No. 13-12D.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ✓ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes ✓ No _____ Depth (inches): 10

Saturation Present? (includes capillary fringe) Yes ✓ No _____ Depth (inches): 2

Wetland Hydrology Present? Yes ✓ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: SP-1

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
Total Cover: 0			
50% of total cover: ____ 20% of total cover: ____			
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
6.			
Total Cover: 0			
50% of total cover: ____ 20% of total cover: ____			
Herb Stratum (Plot size: 5)			
1. Typha latifolia	65	Yes	OBL
2. Phalaris arundinacea	30	Yes	FACW
3. Cirsium arvense	5	No	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
Total Cover: 100			
50% of total cover: ____ 20% of total cover: ____			
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
Total Cover: 0			
50% of total cover: ____ 20% of total cover: ____			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	65	x 1 =	65
FACW species	30	x 2 =	60
FAC species	0	x 3 =	0
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	100 (A)		145 (B)

Prevalence Index = B/A = 1.45

Hydrophytic Vegetation Indicators:

- ___ Rapid Test for Hydrophytic Vegetation
- ✓ Dominance Test is >50%
- ✓ Prevalence Index is ≤3.0[1]
- ___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ✓ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

Sampling Point: SP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm th sence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 18	10YR 2/1	100					Muck	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ✓ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Meridian\Chvala City/County: Haslett/Ingham Sampling Date: 7/22/2014 4:17:39 PM

Applicant/Owner: Meridian Twp. State: MI Sampling Point: SP-2

Investigator(s): ELISE TRIPP Section, Township, Range: S13, T4N, R1W

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): LC

Slope (%): 0 - 2% Lat: 42.736502786 N Long: 84.378039816 W Datum: WGS84

Soil Map Unit Name: Edwards muck, 0 to 1 percent slopes NWI classification: PEMB

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓	No _____	**Is the Sampled Area within a Wetland?** Yes ✓ No _____
Hydric Soil Present?	Yes ✓	No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present?	Yes ✓	No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

Corresponds to Meridian Township Wetland No. 13-12D.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ✓ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✓ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ✓ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✓	Depth (inches): _____
Water Table Present?	Yes _____	No ✓	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No ✓	Depth (inches): _____

Wetland Hydrology Present? Yes ✓ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP-2

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
Total Cover: 0			
50% of total cover: ____ 20% of total cover: ____			
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
6.			
Total Cover: 0			
50% of total cover: ____ 20% of total cover: ____			
Herb Stratum (Plot size: 5)			
1. Phalaris arundinacea	95	Yes	FACW
2. Solidago gigantea	5	No	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
Total Cover: 100			
50% of total cover: ____ 20% of total cover: ____			
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
Total Cover: 0			
50% of total cover: ____ 20% of total cover: ____			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	100	x 2 =	200
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	100 (A)		200 (B)

Prevalence Index = B/A = 2

Hydrophytic Vegetation Indicators:

- ___ Rapid Test for Hydrophytic Vegetation
- ✓ Dominance Test is >50%
- ✓ Prevalence Index is ≤3.0[1]
- ___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ✓ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 16	10YR 2/1	100					Muck	
16 - 18	10YR 4/1	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ✓ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Clay

Depth (inches): 16

Hydric Soil Present? Yes ✓ No ___

Remarks:

Appendix 4

Sampling Point SP-1

Emergent Wetland Adjacent to SP-1

Project No.:	G140549	**Date:**	7/22/2014	**Project Name:**	Meridian/Chvala Property

Sampling Point SP-2

Wet Meadow Wetland Adjacent to SP-2

Project No.:	G140549	**Date:**	7/22/2014	**Project Name:**	Meridian/Chvala Property

CHARTER TOWNSHIP OF MERIDIAN
MEMORANDUM

DATE: November 5, 2015

TO: Planning Commission

FROM: Gail Oranchak

Gail Oranchak, AICP
Principal Planner

RE: Zoning Amendment #15080 (Township Board), amend Section 86-473 Street Trees

The Township Board proposes to amend Section 87-473 Street Trees. The draft amendment is attached. Section 86-473 currently reads as follows:

Section 86-473. Street trees.

Street trees shall be required along major streets as designated in Section 86-367. Street trees shall also be required along all secondary and local streets as part of any multiple-family or nonresidential development occurring along such streets. The following minimum standards shall be utilized for street tree plantings:

(1) Location. Street trees shall be placed between the curbline and the right-of-way line of the street when sufficient area is available within this area to meet road commission or state department of transportation standards for tree placement. If insufficient area is available, trees may be placed outside the right-of-way of the road. In no case shall any street tree be placed closer than four feet to a sidewalk or bike path.

(2) Tree size. Street trees shall be at least two inches in caliper when planted. Any tree which dies within two years after planting shall be replaced by the developer.

The general purpose of the amendment is to continue to require street trees, to encourage retention of unique existing trees, and to distinguish planting standards for arterial streets from those applying to streets with a lower functional classification. There are two main sections to the ordinance, the first pertaining to "planted" (new) street trees and the second for "existing" trees.

Placement regulations differ based on the functional classifications of streets. Arterial streets are the most heavily traveled streets in the Township. Grand River Avenue, Saginaw Highway, Okemos Road south of Grand River, Jolly Road west of Okemos Road and Marsh Road are principal arterials while Lake Lansing, Haslett Road, Okemos Road north of Grand River, Mt. Hope Road, Hagadorn Road, Meridian Road, and Jolly Road east of Okemos Road are minor arterials. Collector streets are less traveled than arterials and typically connect local streets with arterial streets. Some collector streets are: Bennett Road/Kinawa Drive, Hulett Road south of

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- "Planted" trees shall be at least two inches in diameter
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- Criteria for substituting "existing" trees for "planted' trees include outstanding specimens or desirable trees, or possess a distinctive form, size or location
- "Existing" trees meeting the criteria should take priority over "planted" trees and infrastructure when there are practical alternatives to removal
- To remove an "existing" tree that meets the criteria, applicants must demonstrate there are no feasible or prudent alternatives
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The attached draft has been reviewed by the Township attorney.

Attachments

1. Proposed amendment to Section 86-473 Street Trees dated October 25, 2015
2. Section 86-367 Street Setbacks and Service Drives map

G:\Comm Plng\Planning\ZA\2015\ZA 15080 (Street Trees)\Staff Reports\ZA 15080 (Street Trees).pc1

ZA #15080 (Township Board)
Amend Section 86-473 Street Trees

Sec. 86-473. Street trees.

The purpose of this section is to protect, preserve, and provide trees along and near streets within the township; to provide for public health, safety, and general welfare gained from the visual aesthetics, air purification, and traffic calming benefits of trees; to promote and retain the township's natural beauty; and to identify, address, mitigate, and resolve concerns regarding trees during the design phase of projects.

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(1) Location.

- **a.** Arterial streets: street trees shall be placed in a manner determined appropriate by the director of community planning & development with input from Ingham county and the state of Michigan, as applicable.
- **b.** Collector and local streets: Street trees shall be placed between the curb line or edge of pavement and the right-of-way line of the street for collector and local streets identified in section 86-367, provided site visibility shall be maintained in a manner consistent with section 86-474. Final determination on the appropriateness of the proposed street tree location(s) shall be determined by the director of community planning & development with input from Ingham County or the state of Michigan, as applicable .
- **c.** In those cases where a street tree is planted less than five feet from the curb line or a sidewalk/pathway, materials shall be installed with the tree(s) which prevent heaving by deflecting the roots away from growing directly under the curb, street, or sidewalk/pathway.

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B. Existing trees. In lieu of planting new street trees, existing trees may be preserved and used as street trees subject to the approval of the director of community planning and development. The following minimum standards shall be utilized for all existing trees located within the right-of-way:

(1) Existing trees located in the right-of-way of all street classifications within Meridian Township shall be identified on plans submitted with all special use permits, planned unit developments (PUD), mixed use planned unit developments (MUPUD),

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(2) The preservation of individual existing trees meeting the criteria above should have priority over the design and location of proposed streets and infrastructure when there are other practical alternatives to removing the tree(s).

(3) The applicant is responsible for demonstrating to the director of community planning & development that no feasible or prudent alternatives exist without causing undue hardship.

(4) The township may impose conditions on the method and extent of proposed activities in the right of way, as necessary, to ensure they will be conducted in a manner which will minimize damage, encroachment, or interference with the health and well-being of the tree.

(5) Tree protection measures identified in section 22-179 of the code of ordinances may be required to assure the health and well-being of each existing tree to be preserved. Activities should not be conducted within the drip line of the tree, including but not limited to placing of solvents, material, machinery, vehicles, or soil.

(6) One replacement tree shall be planted for each preserved existing tree that dies within 12 months after completion of the project. Tree species and planting locations are subject to the approval of the director of community planning & development. Deciduous trees shall be a minimum of three inches in diameter.

G:\Comm Plng\Planning\ZA\ZA #15080 (Street Trees) Public Hearing Draft

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G:\Comm Plng\Planning\ZA\ZA #15080 (Street Trees) Public Hearing Draft

CHARTER TOWNSHIP OF MERIDIAN

MEMORANDUM

TO: Planning Commission

FROM Gail Oranchak, AICP
Principal Planner

DATE: November 5, 2015

RE: Rezoning #15060 (McCurdy), request to rezone 5458 Okemos Road from RAAA (Single Family Low Density) to RR (Rural Residential)

The Planning Commission last discussed Rezoning #15060 (McCurdy) during the October 26, 2015 meeting. At that time a consensus of the Planning Commission expressed support for denial of the rezoning request.

Planning Commission Options

The Planning Commission may recommend approval or denial of the request or it may recommend a different zoning designation to the Township Board. A resolution to recommend denial has been provided.

Attachments

1. Resolution to recommend denial

G:\ Planning\REZ\REZ 15060 (McCurdy)Staff Reports\REZ 15060.pc3.doc

RESOLUTION TO DENY

Rezoning #15060
McCurdy
5458 Okemos Road

RESOLUTION

At a regular meeting of the Planning Commission of the Charter Township of Meridian, Ingham County, Michigan, held at the Meridian Municipal Building, in said Township on the 9th day of November 2015, at 7:00 p.m., Local Time.

PRESENT: _____

_____

ABSENT: _____

The following resolution was offered by _____ and supported by _____.

WHEREAS, Jon Michael McCurdy requested the rezoning (Rezoning #15060) of 5458 Okemos Road, an approximately six-acre parcel of land located on the east side of Okemos Road, from RAAA (Single Family Low Density) to RR (Rural Residential); and

WHEREAS, the Planning Commission held a public hearing and discussed the request at its October 12, 2015 and continued discussion at its October 26, 2015 meeting; and

WHEREAS, the Planning Commission reviewed the staff material forwarded under cover memorandums dated October 8, 2015, October 22. 2015 and November 5, 2015; and

WHEREAS, the subject site is designated in the Residential 1.25-3.5 dwelling units per acre category on the 2005 Master Plan Future Land Use Map; and

WHEREAS, RR (Rural Residential) zoning is not consistent with the 2005 Master Plan Future Land Use designation since resulting densities would be less than 1.25 dwelling units per acre; and

WHEREAS, 5854 Okemos Road is located south of the Consumers Energy right-of-way and south of the Inter-urban pathway where land is zoned either RAAA, (Sinjgle Family, Low Density), RAA (Single Family, Low Density), or RA (Single Family Medium Density); and

WHEREAS, rezoning 5458 Okemos Road to RR (Rural Residential) has the potential to introduce commercial agriculture uses in an area of primarily single family homes located south of the Consumers Energy right-of-way and the Inter-urban pathway); and

WHEREAS, rezoning 5458 Okemos Road to RR (Rural Residential) will not result in a logical and orderly development pattern for the area.

NOW THEREFORE, BE IT RESOLVED THE PLANNING COMMISSION OF THE CHARTER TOWNSHIP OF MERIDIAN hereby recommends denial of Rezoning #15060, a request to rezone 5458 Okemos Road, an approximately six acre parcel, from RAAA (Single Family, Low Density) to RR (Rural Residential).

ADOPTED: YEAS: _____

_____

NAYS: _____

STATE OF MICHIGAN)
) ss
COUNTY OF INGHAM)

I, the undersigned, the duly qualified and acting Chair of the Planning Commission of the Township of Meridian, Ingham County, Michigan, DO HEREBY CERTIFY that the foregoing is a true and a complete copy of a resolution adopted at a regular meeting of the Planning Commission on the 9th day of November 2015.

_____
John Scott-Craig
Planning Commission Chair

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