FOR GUIDANCE USE ONLY Riprap Shore Protection

REGULATORY REFERENCE	FEE							
Part 301. Inland Lakes and Streams Minor Permit Category 37,								
and Bast 225 Creat Lakes Submarged Lands Miner Project Category 27	\$100							
Part 325. Great Lakes Submerged Lands Minor Project Category 37	ψισο							
GENERAL GUIDANCE								
You must answer <u>True</u> to <u>all</u> of the following statements for application to qualify as a minor permit, and to use this	s guide:							
 The shoreline has visible signs of erosion, and the method of protection is the least disruptive alternative. Riprap is placed on a 1-on-2 slope (1 foot vertical to 2 feet horizontal), or gentler slope. The shore protection is no longer than 300 feet, and does not extend more than 5 feet from the shoreline. The shore protection and fill will not be placed in a wetland, or alter water flow into or out of any wetland. The shore protection is not located in a Critical Dune Area. 								
 In Inland Lakes: Natural field stone or rock is used that is less than 24 inches in diameter, and is not broken concrete. 								
 In Streams or Rivers: Natural field stone or rock is used that is properly sized for the stream velocity, or is broken concrete in a designated county drain. 								
Note: If constructed along the shoreline of one of the Great Lakes, a conveyance may be required.	Note: If constructed along the shoreline of one of the Great Lakes, a conveyance may be required.							
<u>APPLICATION REQUIREMENTS</u> Note: On-line users can go to the appropriate section or drawing by pressing the indicated button The following Sections of the Permit Application must be completed:								
Sections 1-9 Section 10A Section 10C	10D							
If you answer Yes to this question, complete the section of the application indicated.								
Will you be excavating the shoreline, or watercourse?	on 108							
Will the project be located in a stream?	tion 13							
Is the project located in a marina?	tion 19							
Include the following drawing: Include the following site plan and cross-section dra	awings:							
Site Location Map Riprap Site Plan Riprap Cro	ss-Section							

Please include the following photos:

Take photos looking along the shoreline at 50 ft. intervals:

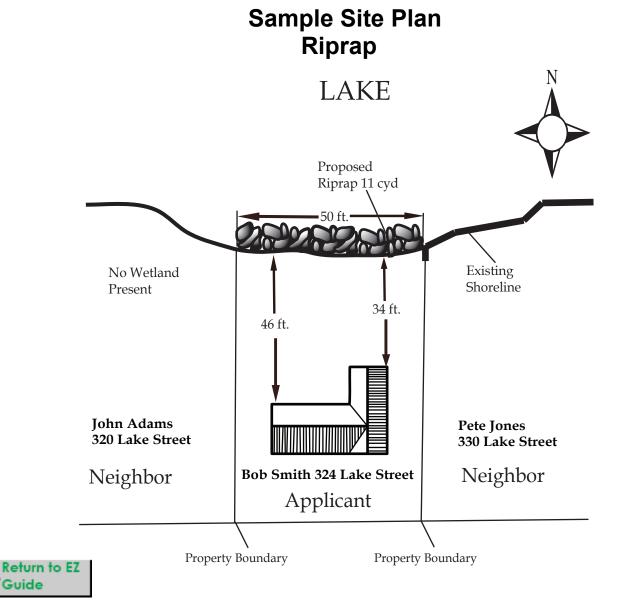
Take photos of the *lake* adjacent to the shoreline:

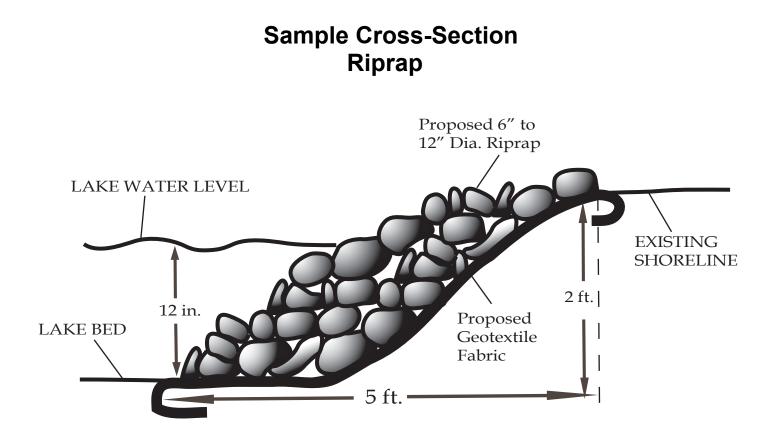




Take photos of the *land* adjacent to the shoreline:











U.S. Army Corps of Engineers Detroit District Office Phone: 313-226-2218, Fax: 313-226-6763 Web site: <u>www.lre.usace.army.mi</u>l



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 302, Great Lakes Submerged Lands Part 303, Wetlands Protection Floodplain Regulatory Authority found in Part 31, Water Resources Protection Part 325, 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). <u>Pre-Application Meeting</u>: 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 pre-application 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: Application Form Maps and Drawings 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 Web site www.mi.gov/jointpermit or you may contact the appropriate district office 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



Annlingtion	1. Application Form
Application Checklist	Complete Sections 1 through 9 of the application form.
The following website will provide township,	An authorization letter from the property owner if someone other than the property owner is signing the application.
win provide township, range, section, latitude and longitude information: www.mcgi.state.mi.us	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.
/wetlands/ www.geocoder.us	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.
In each section check all boxes that apply to	2. Maps and Drawings
your project.	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.
Show and label property lines on the	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.
site plan. Label existing and	Cross-section drawings are required. Provide the cross-sections and profile views to scale or with dimensions, length, width, and height.
proposed contours, dimensions, excavation and/or fill on the site plans and cross sections.	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 tables for multiple impact areas.	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 \$50.00 to \$4,000.00 depending on the type of project. See Appendix C of the application at the Web site link <u>www.mi.gov/jointpermit</u> to determine the appropriate fee for your project and permit application payment options to submit payment by credit card or electronic fund transfer payment. Checks may be submitted with the application to our district offices.
	Applications should be sent directly to the district offices. Please refer to <u>www.mi.gov/jointpermit</u> "Who to Contact" for address and/or phone number.
	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.



Appendix A:	Acronyms and Abbreviations	A-1
Appendix B:	Sample Drawings	
	1. General Instructions for all Drawings and Sample Site Location Maps	B-1
	2. Inland Lake Shore Protection	
	3. Bulkhead/Seawall	B-2
	4. Pond Construction	B-3
	5. Floodplain Fill	B-3
	6. Wetland Boardwalk	B-4
	7. Dredging	B-4
	8. Driveway Across Wetland	B-5
	9. Residential Wetland Fill and Boardwalk Construction	B-5
	10. Docks - Piers - Mooring Piles	B-6
	11. Beach Sanding	B-6
	12. Pipe/Utility Crossings in a Trench	
	13. Pipe/Utility Crossings using Directional Bore	
	14. Bridge or Culvert (4 drawings)	
	15. Dam Construction	B-12
	16. Water Intake	B-12
	17. Great Lakes Shore Protection	
	18. Maintenance Dredge Channel	
	19. Proposed Residence in a High Risk Erosion Area	B-14
	20. Proposed Residence in a Critical Dune Area	
	21. Marina Site Plan	
	22. Outlet Pipe	
	23. Temporary Logging Road Crossing	
Appendix C:	Fees and Categories for Minor Project and General Permit for Minor Activities	C-1
Appendix D:	State Authority, Federal Authority, Privacy Act Statement, and State and Federal Penalties	D-1
Appendix E:	Glossary (listed words are italicized in the application package)	E-1

Application status can be viewed on the Water Resources Division (WRD) Web site 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 Web site 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.

Previous USACE File Number						
AGENCY USE	USACE File Number	Date		Fee received \$		
AC		Re				
All ite Proje Dime All in	that all parts of this checklist are submitted ems in Sections 1 through 9 are completed. ect-specific Sections 10 through 20 are comp ensions, volumes, and calculations are provid formation contained in the headings for the a , site plan(s), cross sections; one set must be ication fee is attached.	leted. led for all impa appropriate Sec	ct areas. ctions (1-20) are addressed, and i	dentified attachments (+) are included.		
1 Pi	roject Location Information For Latitude	e, Longitude, ai	nd TRS info anywhere in Michigar	n see <u>www.mcgi.state.mi.us/wetlands/</u>		
Project	Address (road, if no street address)		Iunicipality ownship/Village/City)	County		
Property	y Tax Identification Number(s)	Latitude	N	Township/Range/Section (TRS) T N or S; R E or W; Sec		
Subdivis	sion/Plat and Lot Number	Longitude				
			W	OR Private Claim #		
2 A	pplicant and Agent Information					
Owner//	Applicant (individual or corporate name)		Agent/Contractor (firm name ar	nd contact person)		
Mailing	Address		Mailing Address			
City	State Zip Co	de	City	State Zip Code		
Contact	Phone Number Fax		Contact Phone Number	Fax		
Email			E-mail			
	Yes Is the applicant the sole owner of all ect? → If no, attach letter(s) of authorization					
Property	y Owner's Name (If different from applicant)		Mailing Address			
Contact	Phone Number		City	State Zip Code		
3 P	roject Description					
Project	Name		Pre-Application File Number _	P		
Name o	f Water body		Date project staked/flagged			
an ir a po a str a leg Date a cha 500	nd (less than 5 acres) eam, river, ditch or drain jally established County Drain Drain was established annel/canal feet of an existing water body	a Great Lake a wetland a 100-year fl a dam a designated a designated a designated	e or Section 10 Waters loodplain d high risk erosion area d critical dune area d environmental area	Project Use □ private □ commercial □ public/government □ project is receiving federal/state transportation funds □ wetland restoration □ other All other projects.)		
Constru	ction Sequence and Methods					
loint D-	nit Application	Down 1 -644	2			
JUILLET	nit Application	Page 1 of 12	<u> </u>	EQP 2731 Revised 6/2011		





Michigan Dept of Environmental Quality <u>www.mi.gov/jointpermit</u>

4 Project Purpose, Use an	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.									
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.									
5 Locating Your Project Site Attach a legible black and white map with a North arrow.									
	Names of roads of closest intersection								
Directions from main intersection t	to the project site,	with distances fr	rom the best a	and nearest visi	ble landmark a	nd water	body		
Description of buildings on the site	e (color; 1 or 2 sto	ry, other)	Description	n of adjacent lar	ndmarks or bui	ldings <i>(a</i> d	ddress; color; etc)		
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) Proposed completion date (M/D/Y)									
 No Yes Has any construct If Yes, identify the portion(s) un No Yes Were the regulate 	derway or comple	eted on drawings	or attach pro	ject specification		mpletion	date(s).		
 If Yes, list the permit numbers No Yes Are you aware of If Yes, attach explanation. 	any unresolved v	violations of envir	ronmental law	or litigation inv	olving the prop	erty?			
8 Adjacent Property Own	ers Provide	e current mailing	g addresses	. Attach additi	ional sheets/l	abels fo	r long lists.		
Established Lake Board Co	ntact Person	Mailing /	Address		City	:	State and Zip Code		
List all adjacents. If you own the	adjacent lot, provi	ide the requested	d information	for the first adja	cent parcel that	t is not o	wned by you.		
Property Owner's Name		Mailing Address	S		City		State and Zip Code		
9 Applicant's Certification	1	Read carefull	ly before sig	ning.			1		
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		Signature			Date			
	Ι								

U.S. Army Corps of Engineers <u>www.lre.usace.army.mil</u>

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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								
features; existing structures; and the loca measures. Review Appendix B and EZ G						soil eros	ion and sedime	ntation control
 Provide tables for multiple impact are 		•			0	ple culve	erts. Include you	r calculations.
Water Level Elevation	•			•				
On inland waters 🗌 NGVD 29 🛛 N	AVD 88 🗌	other _	Obser	ved water	elevation (ft)	date c	of observation (N	//D/Y)
On a Great Lake 🗌 IGLD 85 🗌 su	irveyed 🗌	convert	ed from ol	oserved stil	I 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	🗌 seav	/all	🗌 swim area	🗌 otł	ner			
Dimensions of fill (ft) Total volume (cubic yards) Volume below OHWM (cubic yards)							l (cubic yards)	
Length Width Maximum Depth								
Will filter fabric be used under proposed fill?								
Maximum water depth in fill area (ft) Area filled (sq ft) In No In Yes (If Yes, type)								
Fill will extendfeet into the water from the shoreline and uplandfeet out of the water.								
Type of clean fillpeastone%sand%gravel%other								
Source of clean fill commercial	on-si				tion on site plan.			
	othe				ription of locatio			
B. PROJECTS REQUIRING DREDGING OR EXCAVATION (See Sample Drawings)								
Refer to <u>www.mi.gov/jointpermit</u> for spoils disposal and authorization requirements.								
Attach a site plan and cross-section vi			-		• •			
For multiple impact areas on a site pro								
Purpose 🗌 boat ra		_	at well	_	bridge or culve	eπ	maintenan	ce areage
naviga	ition	🗌 ро	nd/basin		other	·····	1	
Dimensions (ft)				Total vol	ume (cu yds)		Volume below	OHWM (cu yds)
	imum Depth							
Has this same area been previously dred	ged?	🗌 No	🗌 Yes	lf Yes, p	rovide date and	permit n	umber:	
Will the previously dredged area be enlarged	ged?	🗌 No	🗌 Yes	lf Yes, w	hen and how mu	uch?		
Is long-term maintenance dredging planne	ed?	🗌 No	🗌 Yes	lf Yes, h	ow often?			
Dredge or Excavation Method Hydraulic Mechanical other								
Dredged or excavated spoils	will be place	d 🗌 or	n-site	andfill	USACE confine	d dispos	al facility 🔲 oth	ner upland off-site
	•						•	
For disposal, provide a ⇒Deta ⇒Lett For volumes less than 5.000 of	er of authori	zation fr	om prope	rty owner of	f spoils disposal	site, if di	sposed off-site.	
For volumes less than 5,000 of	u yards, ha	s propos	ed dredge	e material b	een tested for co	ontamina	ants within the pa	ast 10 years?
□ No □ Yes →If Yes, pro	vide test res	ults with	a map of	sampling lo	ocations.			
C. PROJECTS REQUIRING RIPRAP	(See Sampl	e Drawii	ngs 2, 3, 8	, 12, 14, 22	2, and 23)			
Riprap water ward of the ordinary high wa	ter mark: di	imensior	ns (ft) ler	gth	width de	epth	Volun	ne(cu yd)
Riprap landward of the ordinary high wate	r mark: dim	ensions	(ft) len	gth	width de	pth	Volun	ne(cu yd)
Type and size of riprap (inches)				Will filter fa	abric or pea ston	e be use	ed under propos	ed riprap?
🗌 field stone 📃 angular rock	oth	er		🗌 No 🔲	Yes, Type			

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Michigan Dept of Environmental Quality www.mi.gov/jointpermit

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	 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. 								
	eering (ft) revetment								
Structure is new repair	replacement of an existing struc	ture 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 f	ixed structure (example - 50 ft fror	n SW corner of house)							
For bioengineering projects indicate t	he structure type 🔲 brush bundl	es 🗌 coir log 🔲 live stakes 🛄 tree revetment 🔲 other							
E. DOCK - PIER – MOORING PIL Attach a copy of the property lec	(, , , , , , , , , , , , , , , , , , ,	r a property boundary survey report.							
Dock Type _ open pile _ filler									
Is the structure within the applicant's	riparian area interest area? 🔲 N	Yes →Show parcel property lines on the site plan.							
Proposed structure dimensions (ft)	ength width	Use private public commercial							
Dimensions of nearest adjacent struc	ctures (ft) length width	Distance of dock from adjacent property lines (ft)							
F. BOAT WELL (See EZ Guide. C	Complete Sections 10A and 10B)								
Dimensions (ft) length width	depth	Number of boats							
Type of sidewall stabilization	ncrete 🗌 riprap 🔲 steel 🔲 vir	yl 🗌 wood 🔲 other							
Volume of backfill behind sidewall sta	abilization (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 dimension length width	s (ft) depth	Type of construction material							
Proposed overall ramp dimensions (f	t)	Proposed ramp dimensions (ft) below ordinary high water mark							
length width	depth	length width depth							
Number of proposed skid piers Proposed length	l skid pier dimensions (ft) 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 (s	<u>q</u> ft)	Distance of hoist from adjacent property lines (ft)							
Permanent Roof No Yes If Yes, how is the roof supporte	d?	Maximum Roof Dimensions (ft): length width height							
		See Sample Drawings 5 and 6. Complete Sections 12 and/or 13)							
		e project; include locations and dimensions.							
Wetlan Boardwalk on pilings on fill	as Deck 🗌 on pilings 🔲 on fill	Floodplains Boardwalk on pilings on fill Deck on pilings on fill							
Dimensions (ft)	Dimensions (ft)	Dimensions (ft) Dimensions (ft)							
Length Width	Length Width	Length Width Length Width							
J. INTAKE PIPES (See Sample Di	rawing 16) or OUTLET PIPES (Se	e Sample Drawing 22)							
If outlet pipe, discharge is to 🗌 inlar	nd lake 🔲 stream, drain or river	overland flow Great Lake wetland other							
Number of pipes Pipe diamete	rs and invert elevations	Does pipe discharge below the OHWM?							
		Is the water treated before discharge?							
Type 🗌 headwall 🗌 end section	other	Dimensions of headwall OR end section (ft)LengthWidthHeight							

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 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	f buoy	mooring	navigatio	on 🗌 scient	ific structures	swimming	other	
Number of buoys	:	Dimensions of b width	• • •	ving radius c	hain length	Boat Lengths	Type of anchor system	
Buoy Locat	tion: La	atitude	·	N Longitude	·	_W. ➡ Provide a tab	ble for multiple buoys.	
Do you ow	n the pi	operty along the	shoreline?	🗌 No 🔲 Yes	If No, attach an aut	horization letter from t	he property owner(s).	
Do you ow	n the b	ottomlands?		No Yes	If No, attach an aut	horization letter from t	he 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	f	Airport	Cervidae	E Livestoo	ck 🗌 Resident	ial 🗌 Security	☐ Other	
Total lengt	• •	fence through wetlands	_ floodplains		Fence height (ft)	Fence type and r	naterial	
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.								
 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) 								
					basin 🗌 wildlife 📘	other		
Water sour		ake/pond	igs 🗌 Inland La	ake or Stream 🔲 sto	orm water runoff 🔲	oump 🔲 sewage [other	
Location of	f the lak	e/basin/pond	floodplain	wetland	stream (inline)	upland		
Maximum o length		ons (ft) width de	oth	Maximum Ar	ea: 🗌 acres 🛛 🗌 sq	ft		
Has the the	Has the there been a hydrologic study performed on the site?				🗌 No 🛄 Yes	➡ If Yes, provide a	сору.	
Has the DE	EQ con	ducted a wetland	assessment for th	nis parcel?	🗌 No 🛄 Yes	If Yes, provide a copy or WIP number:		
Has a profe	essiona	l wetland delinea	tion been conduct	ted for this parcel?	🗌 No 🛄 Yes	➡ If Yes, provide a	copy with data sheets.	
Spoils Disposal			Detailed spoils	disposal area location	ndfill 🔲 USACE con n map and site plan wi owner of spoils dispos	th property lines.	other upland off-site -site.	

HTH	U.S. Arm	y Corps of Engineers <u>www.lre.usace.army</u>	Return to EZGuide.milMichiga	an Dept of Environr	nental Quality <u>www.mi.gov</u>	/jointpermit	
 Loca For ir Pr Co At 	te your sit formation ovide a de omplete the tach tables	t may Impact Wetlands (See Sample Dra e and wetland information with the DEQ W on the DEQ's Wetland Identification Progra tailed site plan with labeled property lines, e wetland dredge and wetland fill dimensio s for multiple impact areas or activities. Ist one cross-section for each wetland dred	etlands Map Viev am (WIP) visit <u>ww</u> upland and wetla n information belo	ver at <u>www.mcgi.sta</u> <u>w.mi.gov/wetlands</u> and areas, and dime ow for each impacte	ate.mi.us/wetlands/ ensions and volumes of we ed wetland area.		
Has the	DEQ con	ducted a wetland assessment for this parce	el?	🗌 No 🔲 Yes	If Yes, provide a copy or WIP number:		
Has a p	rofessiona	al wetland delineation been conducted for the	his parcel?	🗌 No 🔲 Yes	If Yes, provide a copy	with data sheets	
Is there	a recorde	d DEQ easement on the property?		🗌 No 🔲 Yes	If Yes, provide the eas	ement number	
Did the	applicant	purchase the property before October 1, 19	980?	🗌 No 🔲 Yes	If Yes, provide document	entation.	
ls any g	rading or	mechanized land clearing proposed?		🗌 No 🔲 Yes	If Yes, label the location	ons on the site plan.	
Has any complet		pposed grading or mechanized land clearin	ig been	🗌 No 🔲 Yes	If Yes, label the location	ons on the site plan	
	ed Activity	boardwalk or deck (Section 10I)	bridges and (Section 14)	culverts	designated environme	ental area	
		dewatering	draining sur	face water	🗌 driveway / road		
		fences (Section 10L)	🗌 fill or dredge	e	restoration		
		septic system	stormwater (Section 10.1)	discharge	other		
FILL		Dimensions maximum length (ft) maximum width (ft)	(Section 10J) Area acres sq ft		Average depth (ft)	Volume (cu yd)	
DREDG	ε	Dimensions maximum length (ft) maximum width (ft)	Area	q ft	Average depth (ft)	Volume (cu yd)	
Spoils Disposal	-	d or excavated spoils will be placed ☐ on osal, provide a → Detailed spoils disposa → Letter of authorization	al area location m	ap and site plan wit		er upland off-site	
Septic System	🗌 publi	posed project will be serviced by: c sewer private septic system system on plans.	the County Heal	th Department?	d, has an application for a		
Describe the wetland impacts, the proposed use or development, and the alternatives considered:							
		mpact more than 1/3 acre of wetland?					
		a Mitigation Plan with the type and amount pacts to waters of the United States will be a			ormation go to <u>www.mi.go</u>	//wetlands	
	e how the proposed i	impact to waters of the United States will t mpacts.	be compensated.	OR Explain why o	compensatory mitigation sh	ould not be required	

Return to EZ Guide U.S. Army Corps of Engineers www.lre.usace.army.mil

H-H

13 FL	OODPLAIN ACTIVITIES (See Sample Drawing 5 and oth	ers. Complete other applicable sections.)
 For revi 	more information go to <u>www.mi.gov/floodplainmanageme</u> ew under "Expedited Review Information for Minor Floodp	nt. This site also lists the projects and requirements for an expedited floodplain lain Projects."
pile		ns of the 100-year-floodplain which may qualify for an expedited review: Open facilities, garages and accessory structures; parking lots; pavilions, gazebos, pools
boa lots plac	rdwalks, (non-enclosed) that are anchored to prevent float constructed at grade or resurfacing that is no more than 4	f the floodplain which may qualify for an expedited review: Open pile decks and tation and that do not extend over the bed and bank of a watercourse; parking inches above the existing grade; dry hydrants that do not require fill initoring devices, water quality testing devices, and core sampling devices et specific design criteria.
	expedited review include:	
p	hotographs of any river or stream adjacent to the project.	ng shown and with the direction of the photo clearly indicated. Include
	-	nowledging your proposed application. See the website for sample wording.
	ydraulic analysis or hydrologic analysis may be required to	
	<u>v.fema.gov/nfip/elvinst.shtm</u> .	ny building construction or addition in a floodplain. A sample form can be found at
⇒ A	Attach additional sheets or tables for multiple proposed floo	odplain activities and provide hydraulic calculations.
⇒ S	Show reference datum used on plans.	
Propos	sed Activity 🔄 fill 📃 excavation or cut	100-year floodplain elevation (ft) (if known)
	other	Datum 🔲 NGVD 29 📃 NAVD 88 🛄 other
Site is	feet above 🗌 ordinary high water mark (OHWI	M) OR observed water level. Date of observation (M/D/Y)
Fill vol	ume below the 100-year floodplain elevation	Compensating cut volume below the 100-year floodplain elevation
	, ,	
(cu yds	S)	(cu yds)
(cu yds	s) Type of construction is 🛄 residential 🛄 garage/pole b	
(cu yds		parn 🗌 non residential 🔲 other
(cu yds	Type of construction is residential garage/pole b	barn public sewer private septic other
(cu yd:	Type of construction is residential garage/pole b Construction is new addition AND Serviced	barn public sewer private septic other
	Type of construction is residential garage/pole to	barn public sewer private septic other
	Type of construction is residential garage/pole to	barn in non residential in other
	Type of construction is residential garage/pole to	warn non residential other by public sewer private septic sed
	Type of construction is residential garage/pole to	barn non residential other by public sewer private septic sed
	Type of construction is residential garage/pole to	warn non residential other by public sewer private septic sed
	Type of construction is residential garage/pole to Construction is new addition AND Serviced Lowest adjacent grade (ft): existing propole datum NGVD 29 NAVD 88 other Existing Structure Information Foundation type basement concrete slab on grade pilings crawl space other	warn non residential other by public sewer private septic other sed Proposed Structure Information Foundation type basement concrete slab on grade pilings crawl space other Foundation floor elevation (ft)
	Type of construction is residential garage/pole to	barn non residential other by public sewer private septic other sed
Buildings and/or Additions	Type of construction is residential garage/pole to Construction is new addition AND Serviced Lowest adjacent grade (ft): existing propoled datum NGVD 29 NAVD 88 other Existing Structure Information Foundation type basement	parn non residential other by public sewer private septic other sed
	Type of construction is residential garage/pole to Construction is new addition AND Serviced Lowest adjacent grade (ft): existing propole datum NGVD 29 NAVD 88 other Existing Structure Information Foundation type basement	parn non residential other by public sewer private septic other Proposed Structure Information Foundation type basement concrete slab on grade pilings crawl space other Foundation floor elevation (ft) Foundation floor elevation (ft) on Height of crawl space/basement from finished foundation floor to bottom of floor joists (ft) e Elevation of 1st floor above basement floor/crawl space (ft) a crawl space, garages and accessory structures:
	Type of construction is residential garage/pole to Construction is new addition AND Serviced Lowest adjacent grade (ft): existing propoled datum NGVD 29 NAVD 88 other Existing Structure Information Foundation type basement	parn non residential other by public sewer private septic other Proposed Structure Information Foundation type basement concrete slab on grade pilings crawl space other Foundation floor elevation (ft) Foundation floor elevation (ft) on Height of crawl space/basement from finished foundation floor to bottom of floor joists (ft) e Elevation of 1st floor above basement floor/crawl space (ft) a crawl space, garages and accessory structures:
	Type of construction is residential garage/pole to Construction is new addition AND Serviced Lowest adjacent grade (ft): existing propole datum NGVD 29 NAVD 88 other Existing Structure Information Foundation type basement	parn non residential other by public sewer private septic other Proposed Structure Information Foundation type basement concrete slab on grade pilings crawl space other Foundation floor elevation (ft) Foundation floor elevation (ft) on Height of crawl space/basement from finished foundation floor to bottom of floor joists (ft) e Elevation of 1st floor above basement floor/crawl space (ft) a crawl space, garages and accessory structures:

ľ		U.S. Army Corps of Engineers <u>www.lre.usace.army.mil</u> Michigan Dept of Environmental Qu	iality <u>www.mi.gov/joint</u>	_{permit} DEQ
14	BRI	DGES and CULVERTS Including Foot and Cart Bridges. (See EZ Guides and Sample Drawings	5, 14A, 14B, 14C, 14D	.)
•		omplete other applicable Sections, including 10A-C.		,
•		hydraulic analysis or hydrologic analysis may be required to fully assess impacts. Attach hydrau	lic calculations.	
•		gh Water Elevation - describe reference point and highest known water level above or below reference		observation
	-	Attach additional sheets for multiple bridges and/or culverts.		0.000110.000
		Provide detailed site-specific drawings of existing and proposed Plan and Elevation View at a scal	e adequate for detailed	review.
		Provide all information in the boxes below; do not write in a reference to plan sheets. Show referen		
	ŀ	The site has a high water elevation (ft) above or below the Reference Point of	Date obs	
	5	Reference datum used 🗌 NGVD 29 📃 NAVD 88 🔲 IGLD 85 (Great Lakes coastal areas)	other	
	Itio	Average stream width (ft) at the ordinary high water mark (OHWM) outside the influence of	Upstream	
	ma	any ponding or scour holes around the structure	Downstream	
	Stream Information	Cross sectional area of primary channel (og ft)		
		Cross-sectional area of primary channel (sq ft) (See Sample Drawing 14C for me	ore information)	
	E	The width of the stream where the water begins to overflow its banks. Bankfull width (ft)		
	re	The invert of the stream 100-feet from structure (ft)	Upstream	
	ชี		Downstream	
		Is the existing culvert perched? 🗌 No 🛄 Yes If Yes, provide a profile of the channel bottom a	at the high and low poi	nts for a distance
		of 200 feet upstream and downstream of the culvert.	at the high and low por	
		Complete this form for each bridge / culvert location.	Existing	Proposed
		Number of bridge spans		
	•	Bridge type (concrete box beam, concrete I-beam, timber, etc.)		
		Bridge span (length perpendicular to stream) (ft)		
ge	,	Bridge width (parallel to stream) (ft)		
Bridge		Bottom of bridge beam (ft) Upstream		
Ē		Downstre	am	
		Stream invert elevation at bridge (ft) Upstream		
	ľ	Downstre	am	
		Bridge rise from bottom of beam to streambed (ft)		
	ŀ	Number of culverts		
	ŀ	Culvert type (arch, bottomless, box, circular, elliptical, etc.)		
		Culvert material (concrete, corrugated metal, plastic, etc.)		
セ	•	Culvert length (ft) Culvert width diameter (ft)		
< e		Culvert height prior to any burying (ft)		
Culvert		Depth culvert will be buried (ft)		
		Elevation of culvert crown (ft) Upstream		
	ł	Downstre	am	
		Higher elevation of culvert invert OR streambed within culvert (ft)		
	ĺ	Downstre	am	
τ	2	Entrance design (mitered, projecting, wingwalls, etc.)		
ue ue	5	Total structure waterway opening above streambed (sq ft)		
	20	Total structure waterway area below the 100-year elevation (sq ft) (if known)		
ri.	5	Elevation of road grade at structure (ft)		
<u>م</u>	1 st	Elevation of low point in road (ft)		
		Distance from low point of road to mid-point of bridge crossing (ft)		
ŗ	ភ្វ	Length of approach fill from edge of bridge/culvert to existing grade (ft)		
Complete (Culverts	A Licensed Professional Engineer may certify that your project will not cause a harmful interfere and including the 100-year flood discharge. The "Required Certification Language" is found und documents" link from the <u>www.mi.gov/jointpermit</u> page or a copy may be requested by phone, e supporting this certification may also be required.	er "forms" on the "map	s, forms and
		Is Certification Language attached? 🔽 No. 🗖 Yes		

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14	Ξ.	- 7	13	

	U.S. Army Corps of Engineers <u>www.lre.usa</u>	ace.army.mil Michigan De	ept of Environmenta	al Quality <u>www.mi.gov/jointpermit</u>		
15 STR	EAM, RIVER, or DRAIN CONSTRUCTION	N, RELOCATION and ENCLOS	OURE ACTIVITIES			
	plete Section 10C for riprap activities.					
	e casting or other proposed activities will im	• • • •	•			
	wide a scaled overall site plan showing exist oposed structures and land change activitie		and other water fea	tures; existing structures; and the location of		
	vide scaled cross-section (elevation) drawi					
➡For	activities on legally established county dra	iins, provide original design and	proposed dimension	ons and elevations.		
ation	Water elevation (ft) datur → Show elevation on plans with descript		IGLD 85 (Great	: Lakes coastal areas) 🔲 other		
Stream Information	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)				
Propose	ed Activity 🗌 enclosure 🔲 improveme	nt 🔲 maintenance 🔲 new d	Irain 🗌 relocation	wetlands other		
lf an en	closed structure is proposed, check mater	ial type 🔲 concrete 🔲 corrug	ated metal 🔲 plas	tic 🔲 other		
Dimens	ions (ft) of the structure: diameter	length	Volume of fill (cu	yds)		
Will old/	enclosed stream channel be backfilled to the	op of bank grade? 🗌 No 📃 Y	es			
Length	of channel to be abandoned (ft)		Volume of fill (cu yds)			
Dimens channe	ions (ft) of improved, maintained, new, relo I.	ocated or wetland stream/drain	Volume of dredge/excavation (cu yds)			
length	width depth					
How wil	I slopes and bottom be stabilized?		Proposed side slopes (vertical / horizontal)			
Spoils Disposal		d on-site landfill L poils disposal area location map uthorization from property owne	and site plan with	property lines.		
16 DR/	AWDOWN OF AN IMPOUNDMENT					
• If we	tlands will be impacted, complete Section	12.				
Type of	drawdown 🗌 over winter 📘 temporary	🗌 one-time event 🔲 annual e	vent 🗌 permanen	t (dam removal) 🔲 other		
Reason	for drawdown					
	re been a previous drawdown? No rovide date (M/D/Y)	Yes		Previous DEQ permit number, if known		
	aterbody 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 adjacent 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 ace Dottom Dottom	Impoundment area at normal water level (acres)	Sediment depth behind impoundment discharge structure (ft)			

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17 DAM, EMBANK	MENT, DIKE, SPILLWAY,	or CONTRO	OL STRUCTURE ACT	VITIES (See	Sample Drawing 15)
For more informat	ion go to <u>www.mi.gov/dam</u>	safety. If we	tlands will be impacted	l, complete Se	ection 12.
	—			_	ted Link – DEQ Dam Removal web site.
					ed dam, or enlargement of an existing dam for etermined to be permitable.
-		-	-	-	ion, dam abandonment, or dam removal.
	afety application fees are a			ir, dam alterat	ion, dam abandonment, or dam removal.
			Iteration		nlorgement of an existing dam
Proposed Activity	abandonment				nlargement of an existing dam
	removal	ne re	•		econstruction of a failed dam
	new dam constructio	n 🗌 o	ther		
Dam ID Number, if k	nown Type	e of outlet dis	scharge structure	surface 🗌 bo	ottom 🔲 mid-depth
Will proposed activiti	es require a drawdown of th	ne waterbod	y to complete the work	? 🗌 No 🔲	Yes ➡ If Yes, complete Section 16.
Does the structure a	low complete drainage of th	ne waterbod	y? 🗌 No 🔲 Yes	Impoundme	nt size (acres)
Benchmark elevation					NGVD 29 🔲 NAVD 88 🗌 Local other
Dredging/excavation	nark and show on the plans volume (cu vd)		olume (cu yd)		Riprap volume (cu yd)
	ne services of a Licensed P			Yes	
			-		
Engineer's Name	R	egistration N	umber	Maiii	ng Address
Will a water diversion	n during construction be rec	juired? 🗌 N	o 🗌 Yes		
If Yes, describe how	the stream flow will be con	trolled throu	gh the dam constructio	on area during	the proposed project activities:
			-		
	Complete the following for	a new dam,	reconstruction of a fa	iled dam or er	largement of an existing dam
Describe the type of	dam and how you will desig	gn the dam a	and embankment to co	ntrol seepage	through and underneath the dam.
Embankment top ele	vation (ft)	Stre	ambed elevation at do	wnstream em	pankment toe (ft)
		ent top eleva		slopes	wnstream embankment toe) (ft)
Embankment le dimensions	ngth (ft) top wid	th (ft)	bottom width (ft)		I / horizontal) Downstream
Proposed normal po	ol elevation (ft)		Impoundment flood	elevation (ft)	
Maximum vertical dra	awdown capability (ft)	Attach	n operational procedur	e of the propo	sed structure, if available.
Have soil borings be	en taken at dam location?		🗌 No 📃 Yes	➡ If Yes,	attach results.
Will a cold water und	erspill be provided?		🗌 No 🔲 Yes	➡ If Yes,	provide the invert elevation (ft)
Do you have flowage the design flood elev	e rights to all proposed flood ation?	led property	at 🗌 No 🗌 Yes	➡ If No, p owner.	provide a letter of authorization from the property



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 If side casting is propose Attach additional shee For wetland crossings 	ed, complete Sections ts or tables with the re	10A and 10B. equested infor	. If spoils mation as	will be placed in needed for multi	ple crossings.			
Crossing of 🗌 Inland Lak	e or Stream 🔲 floodp	lain 🗌 Great	Lake 🗌	wetlands (also co	mplete Section ?	12)		
What method will be used	to construct the crossi	ings? 🗌 direc	ctional bo	ring 🔲 jack and	bore 🗌 open tr	ench 🗌 plov	v / knife 🔲	flume
Utility Type	Number of lake or stream crossings	Number of v crossin		Pipe diameter with casing (in)	Pipe length per crossing (ft)	Distance streambed or		Trench width (ft)
sanitary sewer								
storm sewer								
watermain								
Cable								
electric								
fiber optic cable								
🗌 oil/gas pipeline								
 MARINA CONSTRUCT For more information go Marinas located on the Oplace structures on the bidetermined complete. Fully complete Section Enclose a copy of any Attach a copy of the proposed project will advanted affected adjacent riparia 	to <u>www.mi.gov/marin</u> Great Lakes, including ottomlands. If a conv a 10 E. For multiple st current pump-out agr roperty legal descriptions a riparian interest ar versely impact ripariar n owners with your ap	Lake St. Clair reyance is nec tructures provi eement with a on, mortgage s ea (RIA) estim n rights. Includ plication.	r, may be essary, a de a table nother m survey, or nate surve	required to secur n application mus with the request arina facility, if on a property bound ay, sealed by a lic	e leases or conv st be submitted b red information. -site sanitary pur dary survey to yo rensed surveyor,	efore the Joint mp out facilities our application. in order to dete v and/or written	Permit Apples are not ava	ication can be ailable. her the
Proposed Marina Activity	New constru	uction		Expansion		Reconf	iguration	
Do you have an existing G	reat Lake Conveyance	e? 🗌 No	🗌 Yes	For more inform	ation visit <u>www.n</u>	ni.gov/deqgrea	<u>tlakes</u> .	
Are sanitary pump-out facil	ities available? 🗌 No	Yes	Is there a	a pump out agree	ment? 🗌 No 🗌	Yes If Yes, p	rovide a cop	y.
	Marina Descri				Current	Count	Fina	Count
Number of boat slips/wells		side dockage	or moorir	ig buoys)				
Lineal feet of broadside do Maximum number of boats	•	2						
Number of mooring buoys		-						
Number of launch ramps/la	ines							

	-					-
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	1	7	-	7	a	
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20		TICAL DUNE AREAS AND HIGH RISK EROSION AREAS (See Sar	mple Drawings 19 and 20, also Sample Drawing 9 for wetlands)					
		Dune Areas (See Sample Drawing 20) nore information go to <u>www.mi.gov/degsanddunes/</u>						
•	All pr	operty boundaries, proposed structure corners including decks, septi	c system, water well, driveway, grading, and terrain alteration					
		ions must be staked before the WRD site inspection.	the second discount of the second					
		ed overhead and cross-section plans that include all property boundar construction access must be included. Cross-sections must show exis						
	Additi	ional information may be required to complete the application review.						
		onstruction in critical dune areas requires the following written assurat						
	2)) permit or letter from County Enforcing Agent stating project complies) permit or letter from County Health Department for work on a septic	system, and					
	3)) a copy of the assurance letter received from the local Conservation	District indicating your project has been reviewed and the prepared					
•		instructions or plans for vegetation removal will be followed during and truction in critical dune areas on slopes greater than 33 percent (1ver						
		truction in critical dune areas on slopes that measure from 25 percent						
LI:e		ared by a registered architect or licensed professional engineer.						
		sk Erosion Areas (See Sample Drawing 19) nore information go to <u>www.mi.gov/jointpermit</u> , select HREA under "r	elated links"					
•	All pr	operty boundaries and proposed structure corners and septic system	locations must be staked before the WRD site inspection.					
	Scale	ed overhead plans that include all property boundaries, and the location	on and dimensions of all structures and septic systems must be					
		tional information, including the building construction plans, may be re	equired to complete the application review.					
	ISK	Parcel dimensions (ft) width depth	Date project staked (M/D/Y)					
lica	ב	Property is a 🔲 platted lot 🗌 unplatted parcel	Year current property boundaries created					
l Crit	reas and/or Hig Erosion Areas	Type of construction activities 🔲 addition 🗌 driveway 🗌 garage	e 🗌 home 🔲 renovation 🔲 septic 🔲 other					
r al		The proposed project will be serviced by 🗌 public sewer 🗌 priva	te septic system					
∋ fo	sion	On the plans show the location and dimensions of the private set						
let	o, as	If a private septic system is proposed has application been made to the County Health Department for a permit?						
0	е. <u>-</u> -	in a private copile cyclem te proposed nae apprication seen made te						
E	Are E1	If Yes, has a permit been issued? No Yes						
Complete for all Critical	une Are Er							
Com	Dune Areas and/or High Kisk Erosion Areas	If Yes, has a permit been issued?	ects.					
		If Yes, has a permit been issued? ☐ No ☐ Yes → If Yes, provide a copy of the permit for all Critical Dune Area proj	ects.					
		 If Yes, has a permit been issued? □ No □ Yes If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living 	ects. g-units in the proposed building					
		If Yes, has a permit been issued? ☐ No ☐ Yes → If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation	ects. g-units in the proposed building Proposed New Construction					
		If Yes, has a permit been issued? ☐ No ☐ Yes → If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method	ects. g-units in the proposed building Proposed New Construction Foundation type basement					
		If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area projection If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method directional bore plowing in	ects. g-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings					
	cal Dune Areas	If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area proje If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Method Installation Determination Installation Installation Installation Method Installation	ects. g-units in the proposed building Proposed New Construction Foundation type					
		If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area projection If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Method Instellation Deve Deving in Instellation Other Show utility locations and dimensions on the site plan.	ects. g-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings crawl space other Area of existing structure (sq ft)					
	cal Dune Areas	If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Method Installation bore Installation Installation Installation Method Show utility locations and dimensions on the site plan. Show construction access route on the site plan.	ects. g-units in the proposed building Proposed New Construction Foundation type					
	cal Dune Areas	If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area project If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Method Installation bore Installation Plowing in Installation other Show utility locations and dimensions on the site plan. Show construction access route on the site plan. Show existing and proposed grades on the cross-section.	ects. g-units in the proposed building Proposed New Construction Foundation typebasementbasementconcrete slabpilingscrawl spaceother Area of existing structure (sq ft) Area of proposed structure (sq ft) Area of existing deck (sq ft)					
	cal Dune Areas	If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method I	ects. g-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings crawl space other Area of existing structure (sq ft) Area of proposed structure (sq ft) Area of existing deck (sq ft) Area of proposed deck (sq ft)					
	Critical Dune Areas	If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area projection If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Meth	ects. g-units in the proposed building Proposed New Construction Foundation type					
	Critical Dune Areas	If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area project If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method	ects. g-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings crawl space other Area of existing structure (sq ft) Area of proposed structure (sq ft) Area of proposed deck (sq ft) Area of proposed deck (sq ft) Proposed New Construction Foundation type basement concrete slab pilings crawl space other					
	Critical Dune Areas	If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method directional bore plowing in open trench other Show utility locations and dimensions on the site plan. Show construction access route on the site plan. Show existing and proposed grades on the cross-section. Show locations of vegetation to be removed on the site plan. Existing Structure Information Foundation type basement concrete slab plings	ects. g-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings crawl space other Area of existing structure (sq ft) Area of proposed structure (sq ft) Area of proposed deck (sq ft) Area of proposed deck (sq ft) Proposed New Construction Foundation type basement concrete slab pilings crawl space other Material above foundation wall					
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	Critical Dune Areas	If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method I directional bore I plowing in Open trench Other Show utility locations and dimensions on the site plan. Show construction access route on the site plan. Show construction access route on the site plan. Show locations of vegetation to be removed on the site plan. Existing Structure Information Foundation type Dasement Concrete slab Dillings Crawl space Other Material above foundation wall Dillock I log Stud frame Other Area of the foundation, excluding attached garage (sq ft) Area of the garage foundation (sq ft)	ects. p-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings crawl space other Area of existing structure (sq ft) Area of proposed structure (sq ft) Area of proposed deck (sq ft) Area of proposed deck (sq ft) Foundation type basement concrete slab pilings crawl space other Material above foundation wall block log stud frame other Siding material block vinyl wood other Area of garage foundation (sq ft)					
	cal Dune Areas	If Yes, has a permit been issued? No Yes If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method directional bore plowing in open trench other	ects. p-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings crawl space other Area of existing structure (sq ft) Area of proposed structure (sq ft) Area of proposed deck (sq ft) Area of proposed deck (sq ft) Foundation type basement concrete slab pilings crawl space other Material above foundation wall block log stud frame other Siding material block vinyl wood other Area of garage foundation (sq ft)					

General Instructions For All Drawings

Required drawings:

- Site location map that clearly identifies your project location. Draw a map, copy a plat map or a county map, or create a map using the Internet (see Sample Drawing 1).
- Overall site plan showing areas of proposed impacts, existing lakes, streams, wetlands, *floodplains*, and other water features. Include name of waterbodies, property boundaries and corners, easement boundaries, neighboring property owner information, and *soil erosion and sedimentation control measures*.
- Plan view and cross-section (elevation) drawings that are site-specific and adequate for detailed review. Show both existing and proposed conditions (see Sample Drawings 2 through 23).

All drawings should:

- Be legible and clearly labeled on standard weight paper of 8-1/2 x 11-inch size.
- Title block on each drawing which includes: proposed activity; applicant's name; waterbody; city, village or township; county; drawing number and number in set (i.e., Drawing 1 of 4), and date prepared.

Return to EZ

Guide

- Reference a datum (*NGVD 29*, NAVD 88, *IGLD 85*) if the proposed project is on Section 10 Waters.
- Be drawn to scale with the scale identified on each drawing. Show vertical scale if different than horizontal scale on each drawing.
- All plan view drawings should include a north arrow.
- Label all existing and proposed relevant features and dimensions relative to those features, especially those that correspond to questions on the application form.
- □ Include soil erosion and sedimentation control measures.

NOTE: 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.

