



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

August 12, 2014

Mr. Gary Lewis, Supervisor
Little River Band of Indians
Utility Department
375 River Street
Manistee, Michigan 49660

Dear Mr. Lewis:

SUBJECT: Little River Band of Indians - Manistee Wastewater Treatment Plant and Septage Waste Receiving Facility Amended Operating Plan Approval

Review of the amended Little River Band of Indians Septage Waste Receiving Facility operating plan by the Department of Environmental Quality (DEQ), Office of Drinking Water and Municipal Assistance (ODWMA), Septage Waste Program (SWP) is complete. The amended plan includes the construction of additional treatment at the treatment facility. The operating plan is approved and meets the requirements outlined in Section 11715b of Part 117, Septage Waste Services, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The plan will be posted on the SWP Website at www.michigan.gov/deqseptage.

The Little River Band of Indians Septage Waste Receiving Facility must operate in accordance with the approved operating plan. If a change in operations, fee pricing, personnel or other conditions is anticipated, please file an amendment to the plan at least 30 days prior to the proposed date for implementation.

Thank you for your environmental stewardship and service to those with on-site septic systems in and around your community and the licensed septage waste businesses that service these systems. If you have any questions regarding this matter, please feel free to contact me at the telephone number below or via e-mail at campbellm4@michigan.gov, or DEQ, ODWMA, SWP, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Matthew Campbell, Specialist
Septage Waste Program
Environmental Health Programs Unit
Environmental Health Section
Office of Drinking Water and Municipal Assistance
517-780-7874

cc: Mr. John Colletti, U.S. EPA Region 5
Mr. Thomas Reichard, District Health Department No. 10
Mr. Matthew Rockhold, DEQ



Little River Band of Ottawa Indians
Utility Department
375 River Street
Manistee, MI 49660

July 15, 2014

Mr. Mathew Campbell
Septage Waste Program Coordinator
Water Bureau
Department of Environmental Quality
Constitution Hall, Second Floor-North
P.O. Box 30273
Lansing MI, 48909-7773

Mr. Mathew Campbell,

This is to notify you that we will be amending our operations plan for the septage receiving station. We are in the process of constructing additional treatment with an aerated lagoon system.

The current waste water treatment plant is located at 2539 Dontz Rd. Manistee Mi. The aerated Lagoon address is 2500 Dontz Rd. Manistee Mi. directly north of the SBR.

The valve configuration is set so that we will be able to send the septage to either location. Please see the attachments for the valve configuration and design parameters for the lagoon treatment system.

While we have the capability of sending the septic to the aerated lagoon the plan of operation is to continue the discharge to the SBR based on the organic loading.

If you have any questions after your review of the proposed operating plan, or if modifications of the operating plan are required please contact me at, (231) 398-2299 or (231) 690-3511.

Sincerely,

Gary Lewis, Utilities Supervisor
Little River Band of Ottawa Indians

**Little River Band of Ottawa
Septage Receiving Facility-WWTP
Operating Plan
July 15, 2014**

Facility Name and Address:

Little River Band of Ottawa Indians
Utility Department
2539 Dontz Road
Manistee Michigan 49660

Facility Owner & Address:

Little River Band of Ottawa Indians
375 River Street
Manistee Michigan 49660

Facility Operator & Mailing Address:

Attention: Utility Supervisor
375 River Street
Manistee Michigan 49660

Amendment:

The L.R.B.O.I. has added additional treatment with an aerated lagoon treatment system.

Regulatory Authority:

The L.R.B.O.I. plan has been developed in response to the regulatory requirements of Part 117, Septage Waste Servicers, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The Little River Band of Ottawa Indians Wastewater Treatment Plant (WWTP) has accepted domestic and special commercial septage since 2006 and plans to continue to receive septage, and special commercial waste. Special waste will be accepted on a case by case basis. Subsequently, this Septage Treatment Facility Operating Plan has been prepared pursuant to Resolution #12-0516-128. Nothing in this Resolution shall be construed to be a waiver of sovereign immunity of the Little River Band of Ottawa Indians or any of its subordinate enterprises or entities.

Purpose:

The purpose of the Little River Band of Ottawa Indians Septage Receiving Program is to serve tribal residents and the surrounding townships by addressing difficulties associated with proper disposal of septage waste material including holding tanks and special commercial waste. The facility will eliminate the problems associated with land application of septage waste including frozen soil conditions in winter months, loss of required isolation areas due to increased public expansion.

The treatment facility will utilize a Sequencing Batch Reactor for flow treatment with an Aqua-aerobic disc filtration system for effluent treatment before being

**Little River Band of Ottawa
Septage Receiving Facility-WWTP
Operating Plan
July 15, 2014**

discharged to the drain field. The Treatment facility may also use the aerated lagoon treatment system consisting of 2 aerated ponds and a rapid infiltration bed. The septage station itself has not changed with the exception of adding 2 septic tanks prior to discharge into the lift station for discharge into the treatment systems. The bio-solids treated are Class "B" solids and are stored in holding tanks for beneficial reuse.

Location and Surrounding Area:

The Wastewater Treatment Plant is located behind the Little River Casino Resort and a ¼ of a mile from the Little River Casino Resort Warehouse. This parcel is Tribal Reservation property and considered commercial. The properties surrounding this parcel are considered agricultural except the Casino property which is considered commercial.

Categories of Acceptable Material:

In general the Little River Band of Ottawa Indians WWTP will accept domestic household septage waste, holding tank waste, portable toilet material and special waste. The facility may accept special waste such as fish water as long as that material in its delivered state is not disruptive to plant operations as determined by the Utility Supervisor. Waste that is disruptive to plant operations will not be accepted. All waste is subject to testing upon delivery and may be rejected if disruptive to plant operations.

Service Area:

The service area for the WWTP is defined as all Townships within twenty five miles of the WWTP.

Fee Structure:

The WWTP will provide treatment on delivered material under the following fee structure for each hauler per calendar year.

- | | |
|------------------|---|
| 1. Septage: | 6 cents per gallon (for first 499,999) |
| | 5 cents per gallon (for 500,000 to 749,999) |
| | 4 cents per gallon (over 750,000) |
| 2. Holding tank: | 6 cents per gallon |

*Special waste fees will be determined on a case by case basis

Fees are based on facility operation costs, maintenance costs, replacement cost, and capital costs. The L.R.B.O.I. WWTP may adjust the fee structure.

Hours of Operation:

The WWTP will be open to receive material 7 days per week 24 hrs per day.

Cell numbers for on call staff members in the event of an emergency will be posted in the receiving station.

**Little River Band of Ottawa
Septage Receiving Facility-WWTP
Operating Plan
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Hauler Licensing:

Material will be received by the WWTP from those septage-servicing agents licensed by the State of Michigan.

Delivery and Treatment Process:

1. The truck operator shall be responsible for any spills and related cleanup costs.
2. Each company must complete all forms for authorization to dump required by the L.R.B.O.I. Utility.
3. Each hauler will be assigned a swipe card and is responsible for reporting ASAP any card that is lost or stolen. An administrative fee of \$5.00 will be assessed on the next billing cycle for replacement cards.

Receiving Facility Capacity:

1. SBR Design Hydraulic Capacity = .180 MGD / Peak flow .270 MGD, 48 hrs.
2. SBR Design Organic Capacity = 1051 lbs/day/b.o.d.
4. Aerated Lagoon Hydraulic Capacity .200 MGD
5. Aerated Lagoon Organic Loading is 583 lbs/day/b.o.d.
6. Total Capacity:
Hydraulic: .380 MGD
Organic: 1634 lbs/day/b.o.d

2013 average hydraulic flow septic .0032 MGD

$.0032 \times 6,500 \text{ mg/L b.o.d} \times 8.34 \text{ lbs} = 174 \text{ lbs/day/day/ b.o.d. Septage}$

2013 residential hydraulic flow average .094 MGD

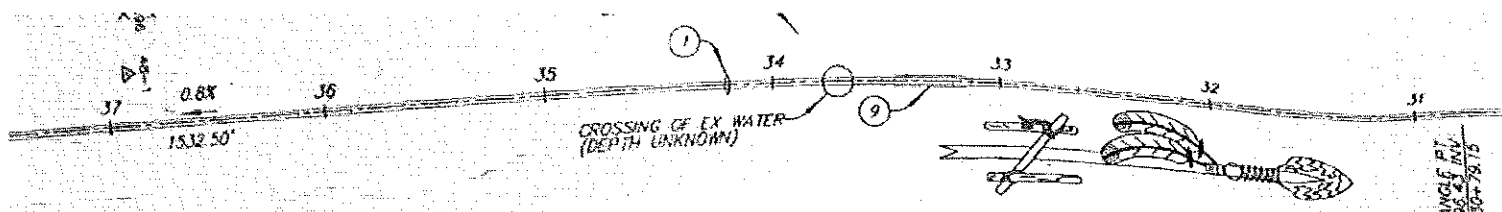
$.094 \times 350 \text{ mg/L b.o.d.} \times 8.34 \text{ lbs} = 274 \text{ lbs/day/day/ b.o.d.}$

Available Treatment Capacity:

Hydraulic: .282

Organic: 1186 lbs/day/b.o.d.

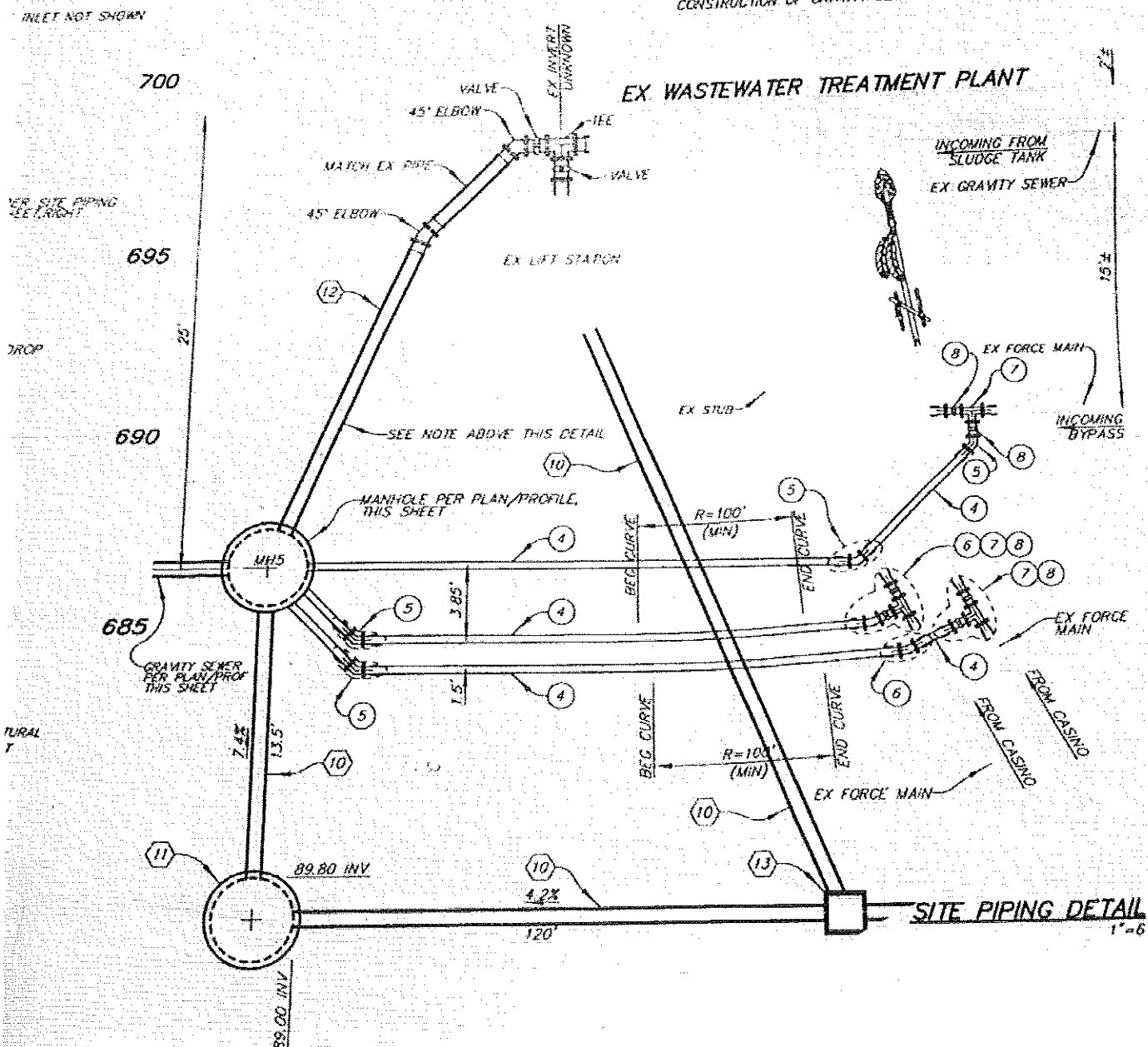
7. Wet Weather
No CSO's or SSO's

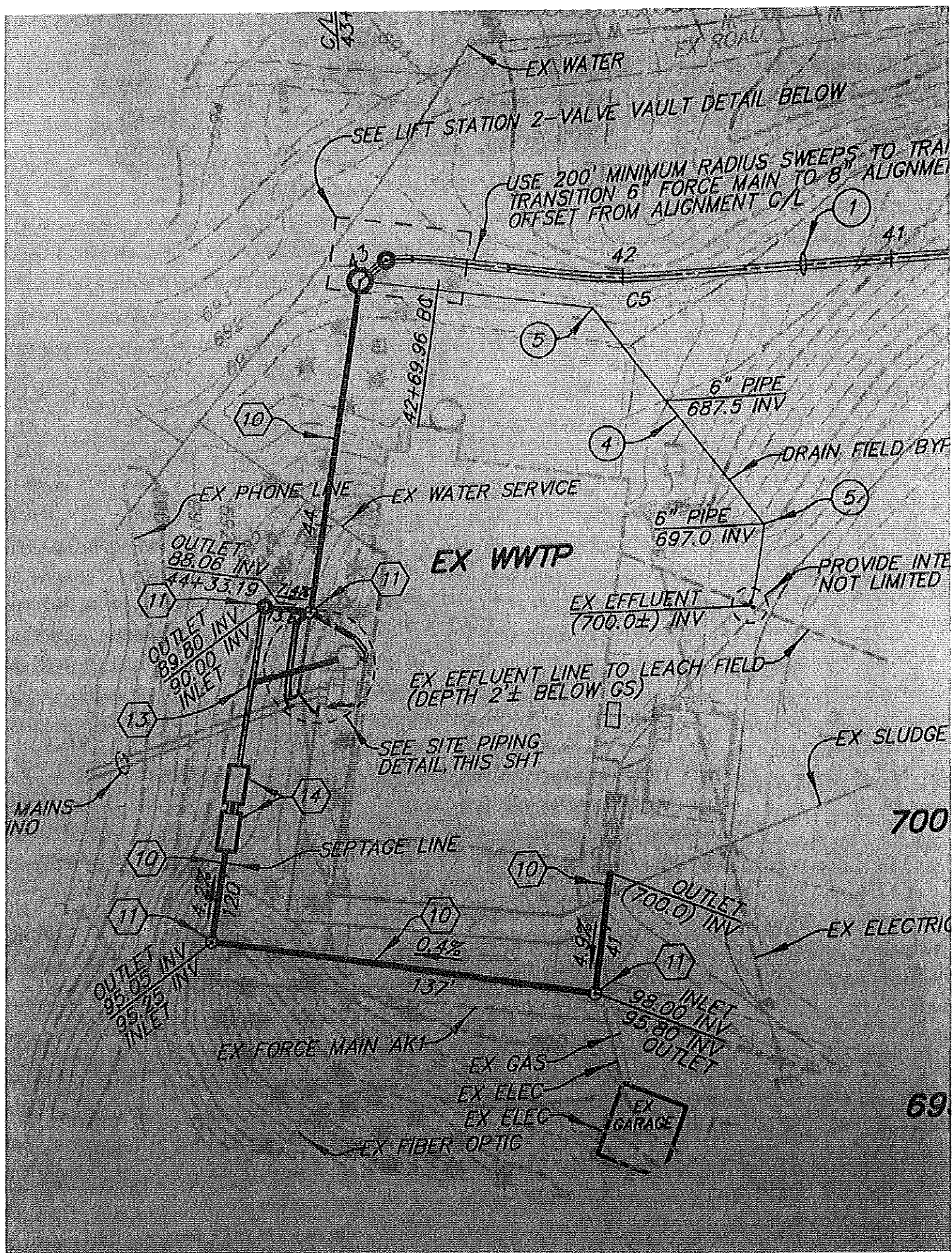


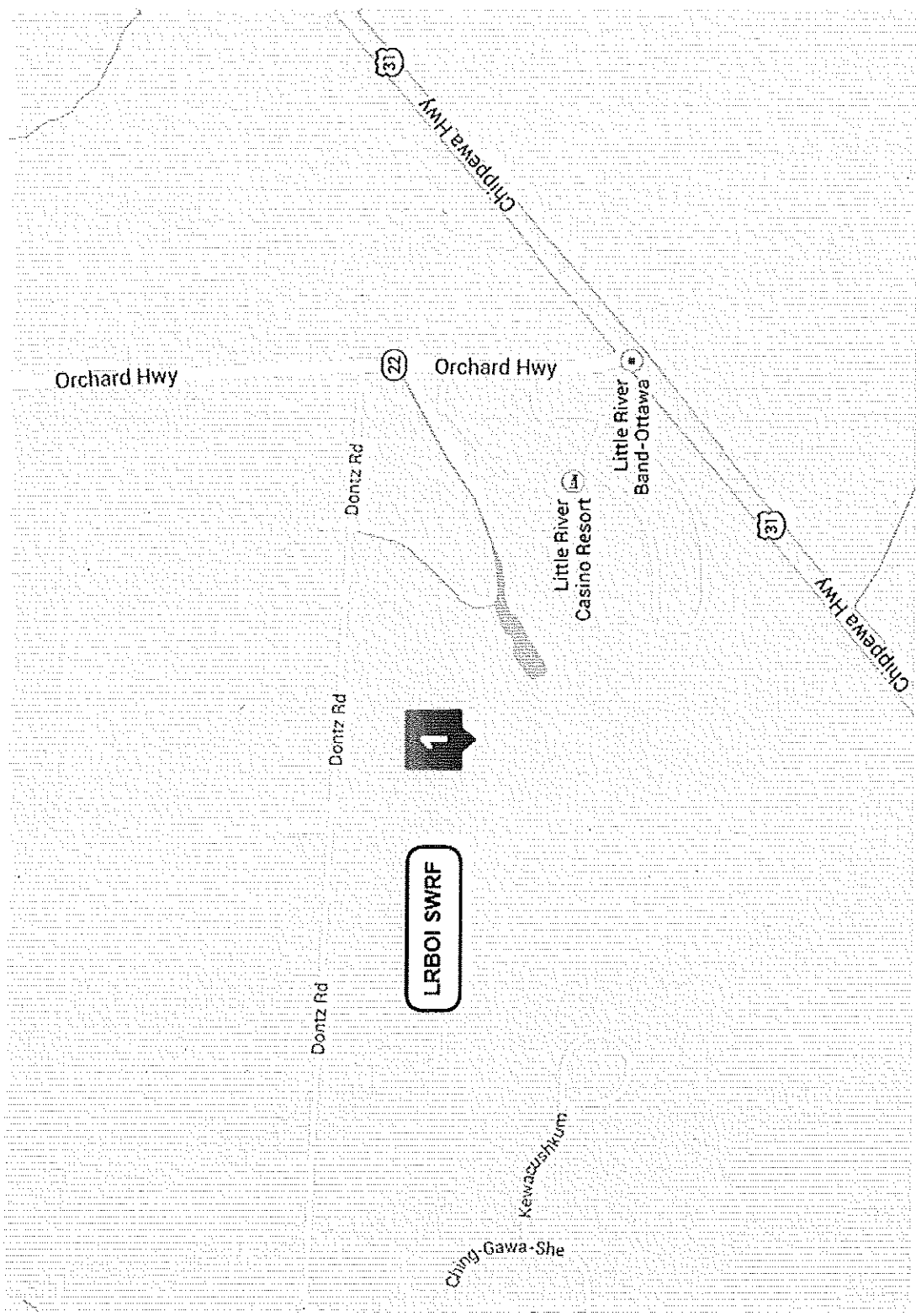
LEGEND

- PROPERTY OR R.
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- FLOWLINE
- GRADE BREAK/
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- EX CONTOUR (C
- EX WATER
- EX GAS
- EX FIBER OPT
- EX TELEPHONE
- DRAINAGE OR
- EX WALL
- EX UTILITY
- EX FIRE HY
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- FIRE HYDR
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- MISCELLAN
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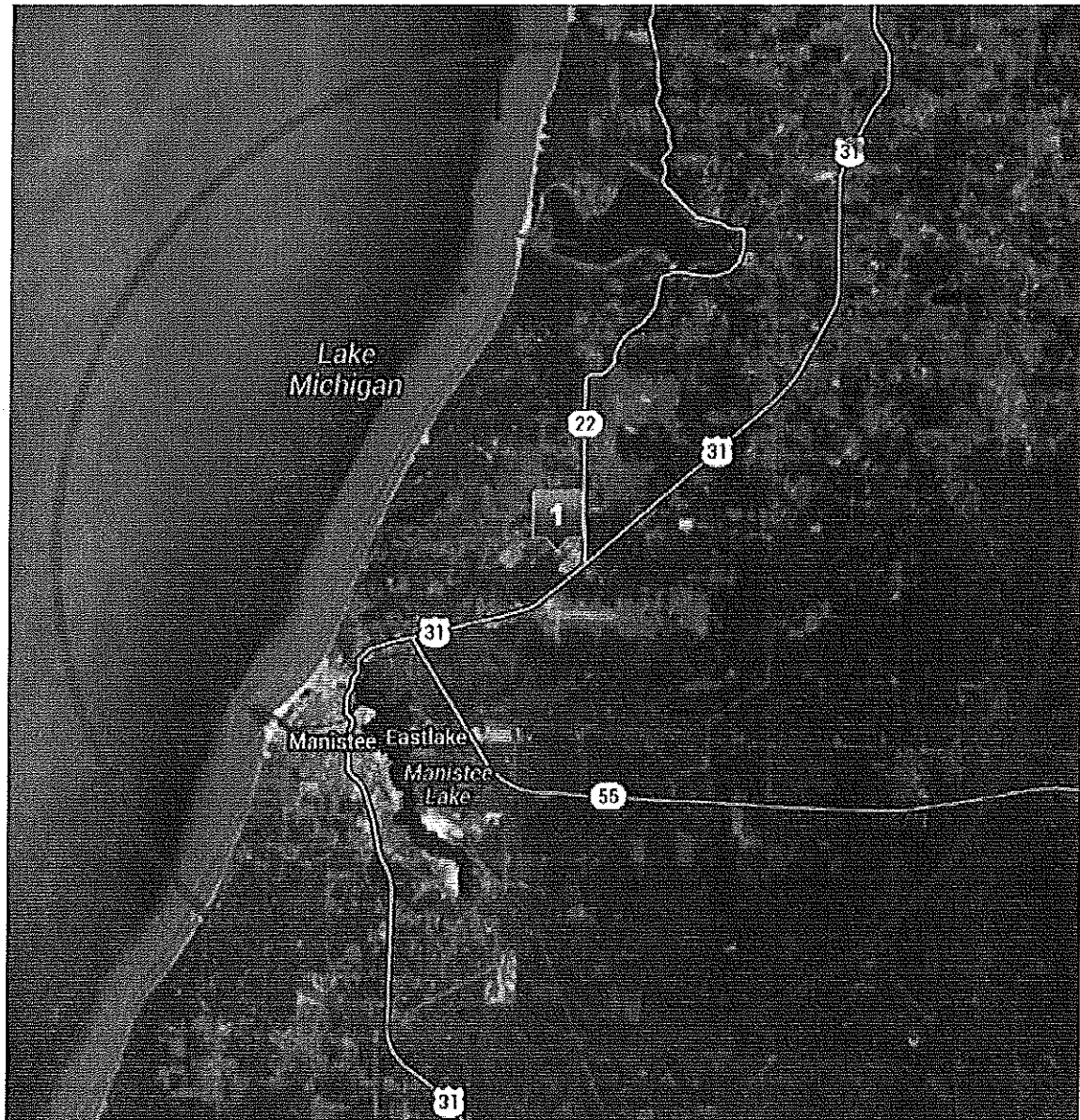
NOTE:
SLOPE TO MATCH MHS OUTLET SLOTT ELEVATION
OR AS NECESSARY TO OBTAIN ADEQUATE FALL
IN PIPE. CONTRACTOR TO VERIFY PRIOR TO
CONSTRUCTION OF GRAVITY SEWER AND MHS



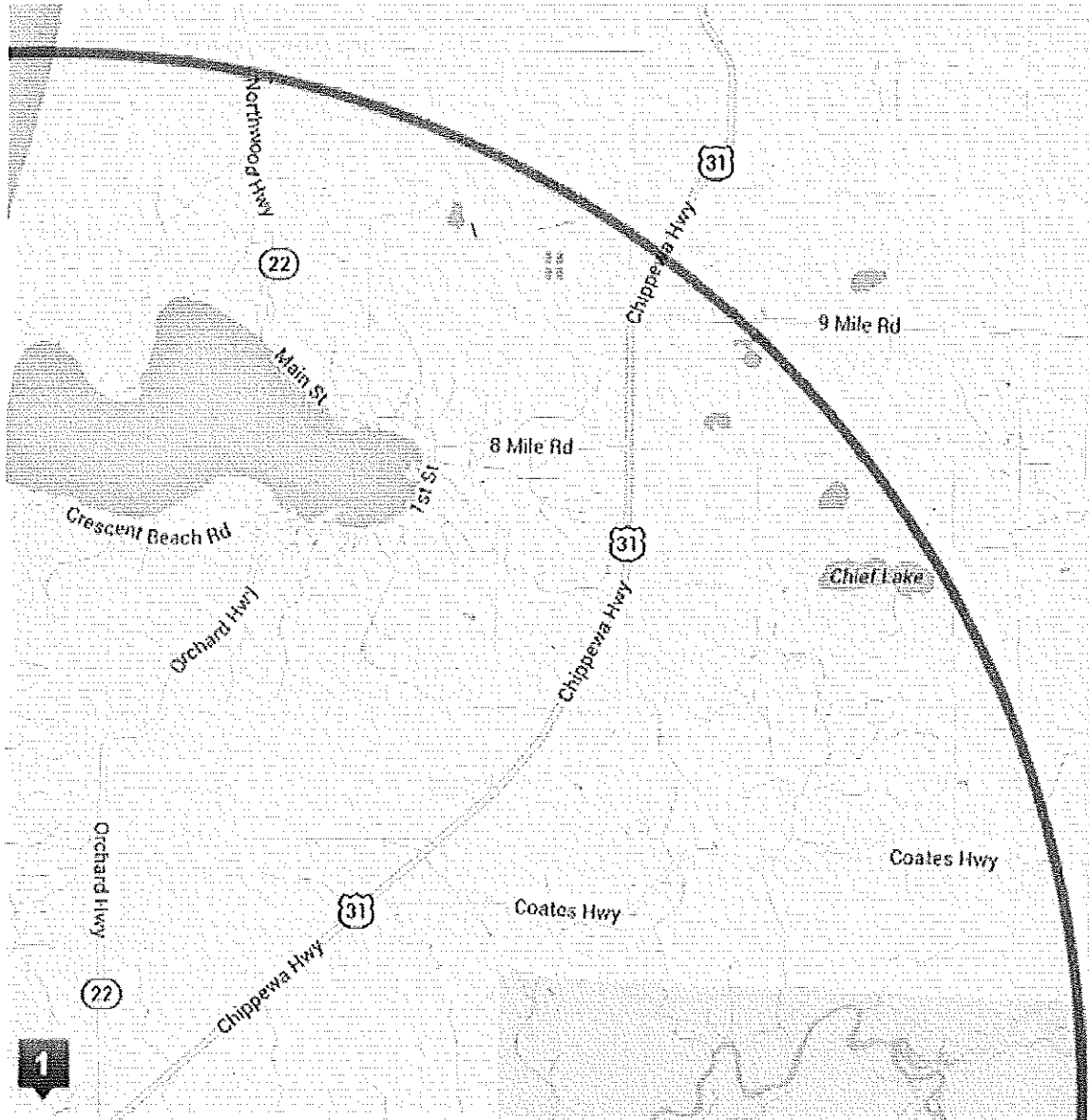




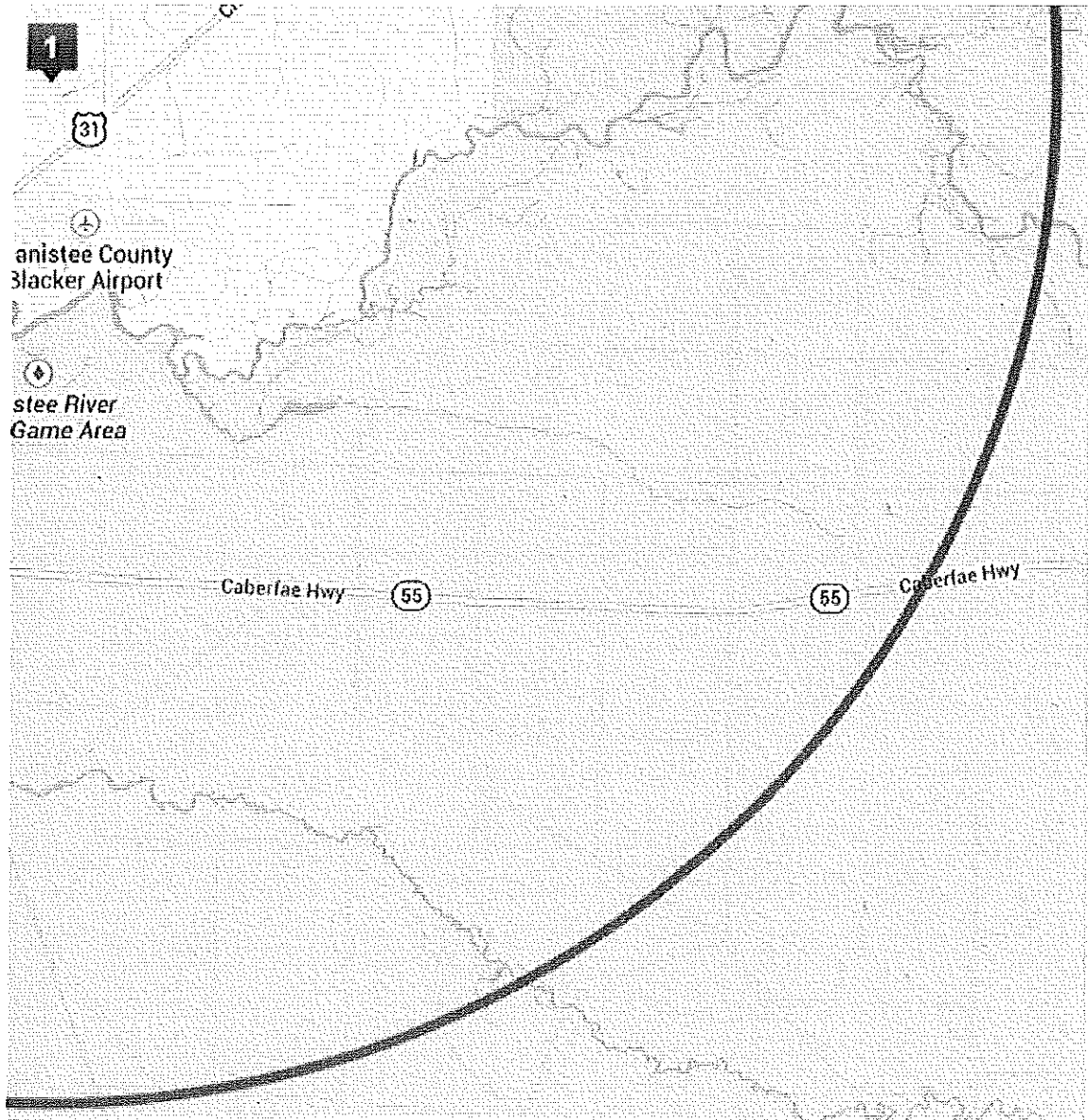
1 – Little River Band of Indians SWRF location



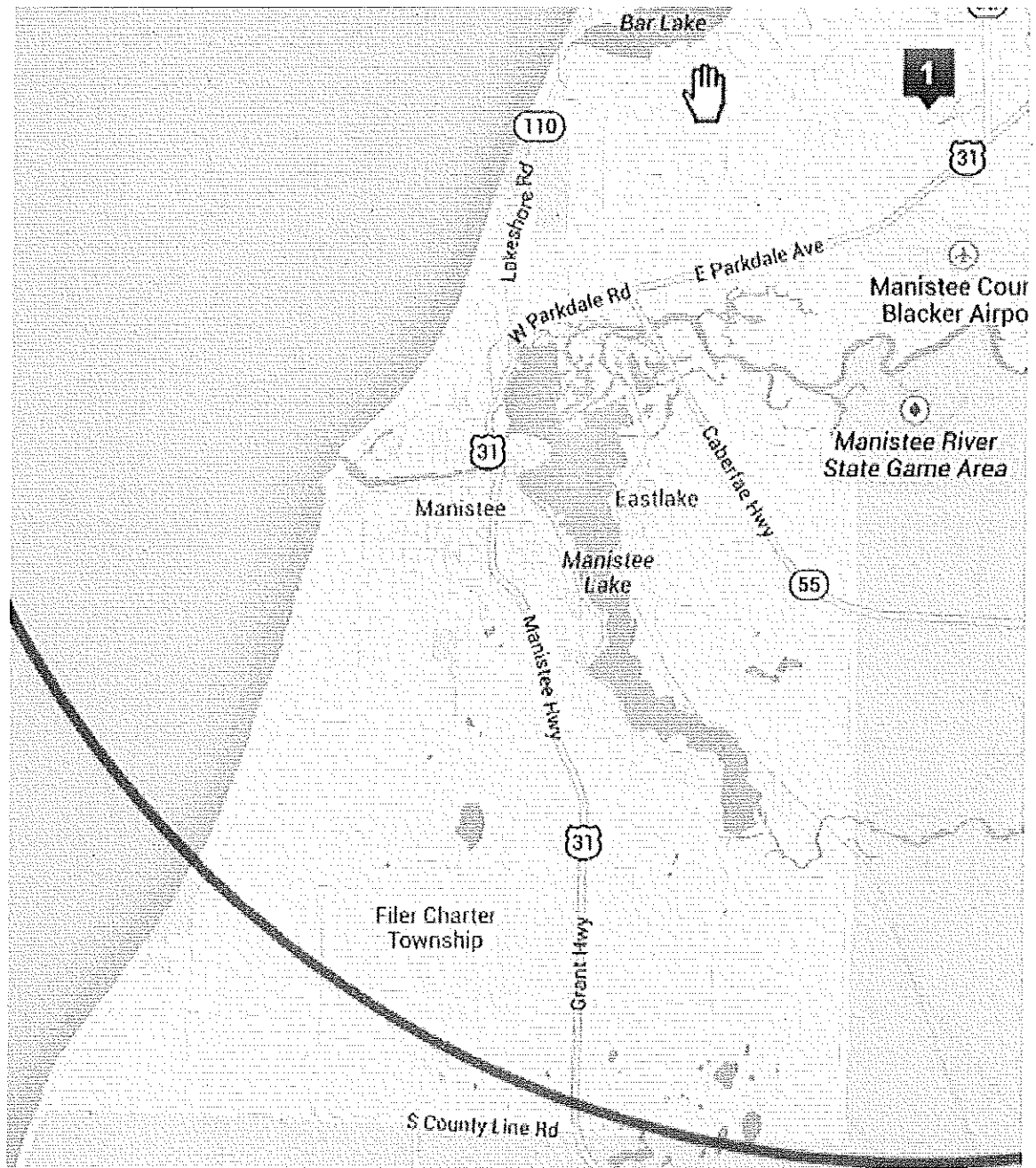
Little River Band of Indians SWRF Service Area – 25 Radial Miles



LRBOI SWRF Service Area NE



LRBOI SWRF Service Area SE



LRBOI SWRF Service Area SW



LRBOI SWRF Service Area NW