



WALLOON LAKE

Service Area Connections

- Existing customers
- Ready to tap
- No Tap

ABBREVIATIONS		UTILITIES SYMBOLS	
		PROPOSED	EXISTING
ASPH	ASPHALT		
BC	BACK OF CURB		
BLDG	BUILDING		
BM	BENCHMARK		
CB	CATCH BASIN		
CO	CLEANOUT		
CONC	CONCRETE		
EX	EXISTING		
FFE	FINISH FLOOR ELEVATION		
FH	FIRE HYDRANT		
FC	FACE OF CURB		
G	NATURAL GAS		
HDPE	HIGH DENSITY POLYETHYLENE		
IE	INVERT ELEVATION		
LFT	LINEAR FOOT		
MH	MANHOLE		
PP	POWER POLE		
PVC	POLYVINYL CHLORIDE (PLASTIC)		
PEJF	PREFORMED EXPANSION JOINT FILLER		
R	RADIUS		
RCP	REINFORCED CONCRETE PIPE		
REQD	REQUIRED		
SAN	SANITARY		
STM	STORM SEWER		
SW	SIDEWALK		
TEL	TELEPHONE		
TE	TOP/IRM ELEVATION		
TYP	TYPICAL		
UNDG.	UNDERGROUND		
WM	WATER MAIN		

LINETYPE SYMBOLOGY	
PROPOSED STORM SEWER	
EXISTING STORM SEWER	
PROPOSED SANITARY SEWER	
EXISTING SANITARY SEWER	
PROPOSED WATER LINE	
EXISTING WATER LINE	
EXISTING NATURAL GAS LINE	
EXISTING ELECTRIC (UNDG.)	
EXISTING TELEPHONE (UNDG.)	
EXISTING CABLE TV (UNDG.)	
EXISTING FIBER OPTIC	
EXISTING ELECTRIC	
EXISTING TELEPHONE	
EXISTING CABLE TV	
PROPERTY LINE	
RIGHT OF WAY	
SETBACK LINE	
EXISTING FENCE	
PROPOSED SWALE	
EXISTING SWALE	
PROPOSED CONTOUR	
EXISTING CONTOUR	

PROJECT NARRATIVE

Melrose Township developed a sanitary sewer system in 2015, which utilized a STEP collection system and disposal at two drainfield locations. Each drainfield is permitted for up to 10,000 gallons per day of discharge. The existing collection system is low pressure sewer and individual have provided their own pumping equipment for connection to the system.

Since the development of this original sewer system, there has been a tremendous amount of growth and development pressure within the community and the limiting factor to allow this growth has been available sewer capacity. Therefore, Melrose Township has proposed an expansion of both the collection system and a WWTF site for treatment and discharge.

The Township received approximately 40 acres from the Michigan DNR for a remote discharge site on Holmes Rd., south of the service area off of US-131. The Township will provide treatment at the existing US-131 discharge location and then pump the treated effluent to an approved surface water location on Holmes Rd. in accordance with a NPDES permit.

The project includes expansion of the collection system for about 1,000 ft at the intersection of M-75N and US-131 in a commercial area. This section will add about 10 properties. There is also a residential collection system expansion proposed, along Walloon Street, requiring about 3,100 feet of low pressure sewer piping to connect 36 properties.

The ultimate service area is planned to include a future 1.1-mile expansion of the collection system, continuing westerly along North Shore Dr. This would add about 115 residential properties in the future.

With the increase in capacity to 75,000 gpd at the proposed WWTF site, the Township will make connection to the sewer mandatory for the properties that front along the existing collection system and new service areas. This results in approximately 161 new connections that are a mix of residential and commercial in the proposed project.

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CONSULTANTS

MELROSE TOWNSHIP
 SEWER EXPANSION
 WALLOON LAKE, MI

OWNER

DESCRIPTION

DATE

MARK

PROJECT NO: 21-5027

CAD DWG FILE: 5027BASE.DWG

DRAWN BY: PEI

DESIGNED BY: AEN

CHECKED BY:

SEAL

NOT AN ISSUED DRAWING

SHEET TITLE

INITIAL

SERVICE AREA

SRVC

SHEET 1 OF 1

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