

# Sanitary Sewer Capacity Assessment

District East Redevelopment Project

Onondaga County, New York

Prepared by:



Environmental Design & Research, Landscape Architecture,  
Engineering & Environmental Services, D.P.C.

217 Montgomery Street, Suite 1100

Syracuse, New York 13202

P: 315.471.0688

[www.edrdpc.com](http://www.edrdpc.com)

**January 2023**

## TABLE OF CONTENTS

1.0	INTRODUCTION .....	2
2.0	WASTEWATER COLLECTION .....	2
2.1	Existing Conditions .....	2
2.2	Proposed Condition .....	3

## LIST OF TABLES

Table 3-1.	Existing Wastewater Generation.....	2
Table 4-1.	Anticipated Wastewater Generation.....	3

## ATTACHMENTS

Attachment 1	Onondaga County WEP – Capacity Assurance Letter (to be provided upon receipt)
Attachment 2	Pumpstation and Forcemain Layout Plan

## 1.0 INTRODUCTION

The OHB Redev, LLC is proposing to redevelop the former Shoppingtown Mall into “District East” (Project). The Project site is located in the Town of Dewitt, east of Erie Boulevard and south of Kinne Road. The proposed Project focuses on transforming the approximately 69-acre property into a blended, multi-use site that will include retail space, medical/office space, residential, hotel, grocery, and entertainment.

## 2.0 WASTEWATER COLLECTION

### 2.1 Existing Conditions

The existing site is located in two drainage areas within the Onondaga County Department of Water Environment Protection (OCDWEP) sanitary sewer service area. The northwest portion of the property wastewater is discharged to a 36-inch combined storm and sanitary sewer adjacent to the intersection of Erie Boulevard East and Kinne Road that discharges to the County’s Metro Wastewater Treatment Plant. The southeast portion of the property wastewater is discharged to the County’s 36-inch combined storm and sanitary sewer located along Butternut Drive that discharges to the County’s Meadowbrook/Limestone Wastewater Treatment Plant.

The existing Shoppingtown Mall consists of approximately 1,184,426 square feet of developed retail, restaurant, and entertainment space and discharged (when occupied) an estimated average wastewater flow of approximately 15,000 gallons per day. An estimate of wastewater flow was conducted for the existing site based on the area and type of use. The estimated wastewater flows are summarized in Table 3-1 below.

**Table 3-1. Existing Wastewater Generation**

Item	Units	Parking	Seats	Typical Wastewater Generation (gpd/unit)	Average Wastewater Generation (gpd)
Retail	1,013,759 sf	3,555	--	2	7,110
Restaurant	16,597 sf	--	258	6	1,548
Theater	67,931 sf	--	2,034	3	6,102
Office / Services	8,713 sf	30	--	2	60
Auto Repair	16,144 sf	57	--	2	114
TOTAL:					15,000 <sup>(1)</sup>

(1) Rounded

## 2.2 Proposed Condition

The proposed development will be comprised of a mix of uses including retail space, medical/office space, residential, hotel, grocery and entertainment. A preliminary evaluation of wastewater flow was conducted for each proposed use based on the bed count, parking count, and typical wastewater values. The estimated average daily wastewater flows are summarized in Table 4-1 below.

**Table 4-1. Anticipated Wastewater Generation**

Item	New Units	Parking	Seats	Typical Wastewater Generation (gpd/unit)	Average Wastewater Generation (gpd)
Retail	252,894 sf	1,302	0	2	1,770
Medical Offices	404,433 sf	1,285	0	2	2,571
Offices	37,080	130	0	2	260
Residential	912 beds	--	0	50	45,600
Theater	70,525 sf	247	TBD	3	741
Grocery	46,750 sf	164	0	3	491
Hotel	61,773 (100 Key)	100	0	70	7,000
TOTAL:					60,000 <sup>(1)</sup>

(1) ROUNDED

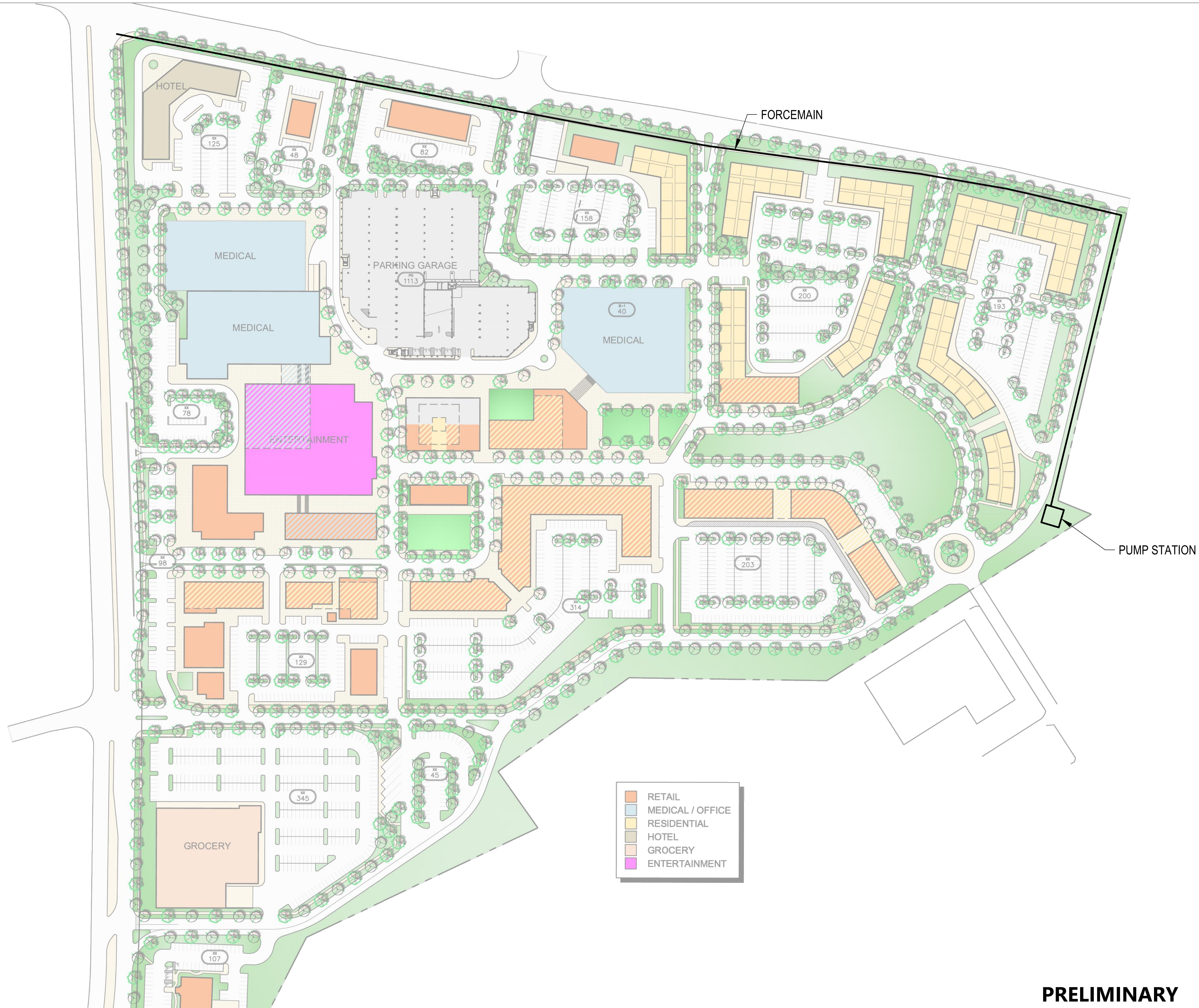
Based on the proposed development , an additional daily average flow of 45,000 gallons per day of wastewater is anticipated to be generated upon completion of construction. Based discussion with OCDWEP, it was determined that it would be beneficial to discharge all the future wastewater flow to the Metro Wastewater Treatment Plant (MWWTP) drainage area. A request for capacity assurance was submitted to OCWEP on January 9, 2023 and a response will be provided upon receipt, the future development will discharge the entire site into the Metro WWTP facility. To connect the entire site to the Metro WWTP drainage basin, a pump station and a new 10-inch high-density polyethylene (HDPE) forcemain will be constructed. The proposed pump station and forcemain layout is attached. Based on existing collection system maps/data and local knowledge it is anticipated that the site will discharge to the 36-inch combined sewer located at the intersection of Erie Boulevard East and Kinne Road which ultimately discharges to the Metro Wastewater Treatment Plant.

Attachment 1 – Onondaga County WEP Capacity Assurance Letter

**TO BE PROVIDED UPON RECEIPT**

## Attachment 2 – Pumpstation and Forcemain Layout





# PRELIMINARY

The following is paraphrased from the New York Education Law, Article 145, Section 7209, and Chapter II, Section 79-1.4, and applies to this drawing: "It is a violation of this law for any person unless he is acting under the direction of a licensed professional engineer, licensed landscape architect or licensed land surveyor to alter an item in any way. If an item bearing the seal of a engineer, landscape architect or land surveyor is altered by an unlicensed engineer, landscape architect or land surveyor shall affix to the item his seal and the notation "altered" followed by his signature and the date of such alteration and a specific description of the alteration".

**EDR**  
a better environment

**Environmental  
Design & Research,**  
Landscape Architecture, Engineering  
& Environmental Services, D.P.C.  
217 Montgomery Street, Suite 1100  
Syracuse, New York 13202  
P. 315.471.0688

PROJECT TITLE: **DISTRICT EAST**

PROJECT LOCATION: **ERIE BOULEVARD SYRACUSE, NY**

CLIENT: OHB REDEV, LLC

DRAWING TITLE: **SANITARY SEWER CAPACITY ASSESSMENT**  
**ATTACHMENT 2 - PUMP STATION AND FORCEMAIN LAYOUT**

DRAWINGS ISSUED FOR / REVISIONS							EDR JOB#: <b>22101</b>
NO.	DATE	ISSUED FOR / REVISION		BY	CHK	APP	DATE <b>1/2023</b>
1	1/2023	FOR REVIEW		CRO	CPP		SCALE: <b>NOT TO SCALE</b>
2							DRAWN BY: <b>CPO</b>
3							CHECKED BY: <b>CPP</b>
4							DRAWING NUMBER:
5							<b>C-101</b>
6							

# C-101