

RESOLUTION OF THE TOWNSHIP OF IRVINGTON, NJ

No. **DPW 20-0406-10**

Date of Adoption **APRIL 6, 2020**

APPROVED AS TO FORM AND LEGALITY ON THE BASIS OF FACTS SET FORTH BY

Legislative Research Officer

PRESENTED BY COUNCIL MEMBER

FREDERIC

SECONDED BY

VICK

RESOLUTION FOR A TREATMENT WORKS APPROVAL FOR 13 CORDIER STREET

WHEREAS, Laundry Zone, has applied for a Treatment works Approval for the property located at 13 Cordier Street; and

WHEREAS, the property located at 13 Cordier Street, Block 185 Lot 3, which is currently being redeveloped to include this proposed use as a result of an approval by the Irvington Planning Board; and

WHEREAS, the proposed development will potentially discharge greater than 8,000 gallons per day of sanitary waste; and

WHEREAS, the requirements of the New Jersey Department of Environmental Protection (NJDEP) require that any new development with a sanitary sewer discharge of 8,000 gallons per day or greater requires a Treatment Works approval, the first portion of which is to obtain the approval of the owner of the collection system, which in this case is the Township; and

WHEREAS, the applicant's engineer, Bertin Engineering, has prepared a sewer study indicating that this discharge will not adversely affect the Township's sanitary sewer collection system; and

WHEREAS, the Township Engineer has reviewed this study and concurs in the conclusions in this study and recommends that a Treatment Works Approval be approved for this project.

NOW, THEREFORE, BE IT RESOLVED BY MUNICIPAL COUNCIL OF THE TOWNSHIP OF IRVINGTON that a Treatment Works Approval be granted to Laundry Zone for the property located at 13 Cordier Street, Block 185 Lot 3 and that the Township Engineer be authorized to endorse this application on behalf of the Township.

RECORD OF COUNCIL VOTE

X = Indicates Vote N.V. = No Vote A.B. = Absent

COUNCIL MEMBER	YES	NO	N.V.	A.B.	COUNCIL MEMBER	YES	NO	N.V.	A.B.
BEASLEY	X				INMAN	X			
COX				X	VICK	X			
FREDERIC, 2ND VICE PRESIDENT	X				BURGESS, PRESIDENT	X			
HUDLEY, 1ST VICE PRESIDENT	X								

PRESIDENT OF COUNCIL *David C. Burgess* MUNICIPAL CLERK *David E. Thomas* April 6, 2020

I hereby certify that the foregoing is a true copy of a Resolution duly adopted by the Municipal Council. In witness whereof I have hereunto set my hand and the Corporate Seal of the Township of Irvington.

MUNICIPAL CLERK *David E. Thomas*

DATE

4-6-20

ADMINISTRATOR ☐ ASSESSOR ☐ BLDG ☐ CFO ☐ COLLECTOR ☐ COURT ☐ EDGO ☐ ENGINEER ☐ FIRE~CF ☐ HEALTH ☐ HOUSING ☐ INIC ☐ JUDGE ☐ LEGAL ☐ LIBR ☐ LICEN ☐ MAYOR ☐ NPP ☐ OCPD ☐ PARKS ☐ PAYROLL ☐ PUBLIC SAFETY~DIR ☐ PUBLIC WORKS ☐ PURCHASING ☐ SEC~PB/ZBA ☐ TRAFFIC ☐ ZONING~OFF ☐ DLGS ☐ GNCD ☐ OTHER(S): _____



TOWNSHIP OF IRVINGTON
Division of Engineering
Irvington Municipal Building
Civic Square, Irvington, NJ 07111
Tel: 973-399-6690 Fax: 973-399-6798

Tony Vauss, Mayor
John A. Wiggins, P.E., P.P.,
Township Engineer

TO: Harold Weiner Municipal Clerk

FROM: John A. Wiggins, P.E., P.P., and Township Engineer

RE: Treatment Works Approval
13 Cordier Street
Block 185 Lot 3

Date: March 23, 2020

I am in receipt of a request for at Treatment Works Approval for 13 Cordier Street (Block 185 Lot 3). This is a new strip mall that was approved by the Planning Board in 2018. As part of that development, the applicant intends on installing a laundromat on the property.

As the proposed flow from the laundromat exceeds the state requirement for allowable new flow into our sewer system, a Treatment Works Approval (TWA) is required prior to the issuance of a plumbing permit.

A Treatment Works Approval is the permit process established by the New Jersey Department of Environmental Protection (NJDEP) by which a proposed development gains the right to connect to our sewer system. This process, which begins with the municipality, starts with the approval by the Township that our sewer system can accommodate the additional sewer flow. Our approval then moves to the facility that receives our sanitary sewer flow, in our case the Joint Meeting of Union and Essex County Sewers, so that they can determine if they have the capacity to receive and treat this additional flow. After that, those approvals are forwarded to NJDEP for their review and approval. Once that NJDEP approval is obtained, we receive a copy of the NJDEP approval and the developer can connect to our sewer system.

At this point in time, the applicant's engineer, Bertin Engineering, has supplied an engineering review and calculation to support that our system can receive this additional flow without any adverse impact on our sewer system. I have reviewed those calculations and concur in their conclusion. A copy of those calculations are attached for reference.

Therefore, I recommend that the Municipal Council approve by resolution a Treatment Works Approval for the project located at 13 Cordier Street. I have prepared a draft of a resolution that approves this application and allows me to endorse this permit application on behalf of the Township.

Should you have any questions or comments with respect to the above, please feel free to contact me.

/jaw

CC: Althea Headley, Purchasing Agent/Asst. Business Administrator
Musa Malik, Business Administrator
T. Arnold, Director of Housing and Building Construction
Incls.

BERTIN ENGINEERING
66 GLEN AVENUE
GLEN ROCK, NEW JERSEY 07452
(201) 670-6688
FAX (201) 670-9788

JOB
SHEET NO.
CALCULATED BY
CHECKED BY
SCALE

19-333: Laundry Zone - Irvington, NJ

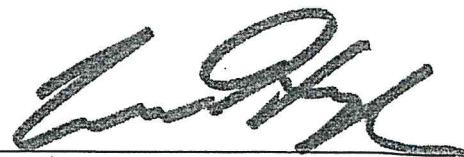
1	OF	2
MBL	DATE	3/13/2020
EMH	DATE	3/13/2020

SANITARY SEWER FLOW CALCULATIONS

LAUNDRY ZONE
BLOCK 185, LOT 3
13 CORDIER STREET
TOWNSHIP OF IRVINGTON, ESSEX COUNTY, NEW JERSEY

BE# 19-333

MARCH 17, 2020



Eric M. Hough, P.E.
NJPE Lic # 51893

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19-3391 Laundry Zone - Irvington, NJ

2	OF	2
MBL	DATE	3/7/3/2020
EMH	DATE	3/7/3/2020

I) Projected Sanitary Sewer Flow:

The following demand criteria is based upon N.J.A.C. 7:14A-23.3.

Laundromat: 52 Machines @ 580 GPD/Unit = 30,160 GPD

Typical Daily Operation (7am-10pm): 15 hours
Peaking factor = 24 hours / 15 hours = 1.6

Peak flow = 1.6 x 30,160 GPD = 48,256 GPD = 0.075 cfs

II) Sanitary Sewer System Check:

Max. capacity & current flow based on existing sewer maps provided by the Town of Irvington Dept. of Public Works sheets 8, 13 & 18 dated March 28, 1977.

Street	Diameter (in)	Material	Max. Capacity (cfs)	Current Flow (cfs)	Proposed Flow (cfs)	% Increase
Cordier	8	VCP	1.45	1.58	1.66	4.75%
Cordier	8	VCP	1.93	0.95	1.03	7.89%
Cordier	8	VCP	0.60	2.75	2.83	2.73%
Cordier	8	VCP	0.30	4.38	4.46	1.71%
Cordier	8	VCP	0.56	5.85	5.93	1.28%
Cordier	8	VCP	0.48	6.22	6.30	1.21%
Chancellor	8	VCP	1.66	65.11	65.19	0.12%
Chancellor	8	VCP	1.52	68.22	68.30	0.11%
Chancellor	8	VCP	1.14	70.53	70.61	0.11%
Chancellor	8	VCP	1.02	83.27	83.35	0.09%
Chancellor	8	VCP	1.84	84.13	84.21	0.09%
Chancellor	10	VCP	1.69	96.68	96.76	0.08%
Chancellor	10	VCP	1.72	97.24	97.32	0.08%
Chancellor	10	VCP	1.73	100.59	100.67	0.07%
Chancellor	10	VCP	1.57	107.10	107.18	0.07%
Chancellor	10	VCP	3.07	108.18	108.26	0.07%
Chancellor	10	VCP	1.24	108.28	108.36	0.07%
Chancellor	10	VCP	1.98	114.87	114.95	0.07%
Chancellor	10	VCP	1.97	115.45	115.53	0.06%
Chancellor	10	VCP	1.29	115.68	115.76	0.06%
Chancellor	10	VCP	1.31	117.75	117.83	0.06%
Chancellor	10	VCP	1.45	118.04	118.12	0.06%
Chancellor	10	VCP	1.65	119.84	119.92	0.06%
Chancellor	10	VCP	1.61	120.28	120.36	0.06%
Chancellor	10	VCP	1.63	122.61	122.69	0.06%
Chancellor	10	VCP	1.43	123.31	123.39	0.06%
Union	10	VCP	2.10	146.71	146.79	0.05%
Union	10	VCP	2.24	147.87	147.95	0.05%
Union	10	VCP	2.06	148.13	148.21	0.05%

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III) Conclusion

As indicated in the above table, the proposed laundromat will have the greatest impact on the existing system at the 2nd downstream pipe in Cordier Street. The proposed project will increase the current flow by 7.89% in that segment. Downstream of that point, the impact is significantly reduced. The increase to the system in Chancelor Avenue and downstream is minimal (maximum increase of 0.12%).

Therefore, the existing sewer system can accomodate the proposed project without a significant impact to the current operation of the system and any additional surcharge caused by the project will be minimal.