

Appendix F:

Correspondence

Generic Draft Environmental Impact Statement

Hampton Ridge Center Rezoning



September 21, 2007

Monroe County Water Authority
P.O. Box 10999
475 Norris Drive
Rochester, NY 14610-0999
Attn: Mr. Chris King

Re: Hampton Ridge Center
4320 West Ridge Road
Town of Greece, New York

Dear Mr. King:

Per your email dated August 27, 2007 to Don Doe, this response addresses the comments you raised for hydraulic calculations as well as the initial comment regarding SEQR Review.

Hampton Ridge Center comprises roughly 67 acres of land located adjacent and west of the Shops at Hampton Ridge, West Ridge Road, and Town of Greece. This development will contain roughly 390,000 square feet of commercial space. Attached calculations show maximum anticipated demands based on a perspective development scenario. Average domestic demand would be 29 gpm and peak demand (10 peaking factor) would be 290 gpm. Fire flow demand is estimated at a maximum 1600 gpm which is a typical fire flow demand for a large format retailer.

Currently there is an existing 12" water line running east-west along the south side of West Ridge Road. In order to evaluate available flow and pressure to Hampton Ridge Center, a hypothetical water distribution system was modeled. This model is shown schematically on the attached sketch. Enclosed is the fire flow test results used in the analysis. The model assumes one new 12" water main bored under West Ridge Road (refer to node J-10 on the attached schematic plan). The 12" main will run west within the West Ridge Road right-of-way and terminate at the western property line of the proposed development (node J-14). A master meter pit and RPZ is modeled on the east (node P-48) and west (node P-17) ends of the site.

In response to the Monroe County Water Authority SEQR Review checklist dated May 21, 2007 (copy attached), we offer the following (Note: Items in Column 2 will be addressed once technical site plans are developed):

1. Nothing required at this time.
2. The anticipated peak domestic water demand is 290 gpm; fire demand is 1600 gpm.

200 First Federal Plaza, 28 East Main Street / Rochester, New York 14614-1909
585.232.5135 / 585.232.4652 fax

Buffalo, NY / Philadelphia, PA / Pittsburgh, PA / Hoboken, NJ / Toledo, OH / Lansing, MI / Ft. Lauderdale, FL / Jacksonville, FL

An Equal Opportunity Employer



3. We modeled two scenarios for Hampton Ridge Center and one of The Shops at Hampton Ridge using WaterCAD 7.0. Below is a chart summarizing the high and low pressures along with the node location for each scenario.

ANALYSIS SCENARIO	HIGH PRESSURE		LOW PRESSURE	
	PRESSURE	NODE	PRESSURE	NODE
<u>Hampton Ridge Center</u> Fire Flow @ 1,600 gpm Retail A	94.10	J-48	69.72	Retail A
<u>Hampton Ridge Center</u> Fire Flow @ 1,100 gpm Retail A	94.11	J-42	72.61	Retail A
<u>The Shops at Hampton Ridge</u> Fire Flow @ 1,600 gpm Secondary Retail	102.73	Hyd. #3/Hyd. #4	59.85	J-48

*The minimum pressure requirements for typical large retail development is 47psi @ 1600gpm.

A copy of the Fire Flow Analysis Junction Reports has been attached for your use.

4. Nothing required at this time.
5. Nothing required at this time, however two master meters are being considered.
6. Nothing required at this time.
7. Nothing required at this time, however backflow preventors would accompany each master meter. An Engineer's Report will be submitted for review and approval as the design progresses.
8. Nothing required at this time.

We look forward to working with you throughout the design and construction of this water main along with the development of Hampton Ridge Center. Please acknowledge that the MCWA can provide adequate water supply based on this analysis.

If you have any question, please do not hesitate to contact me at 232-5135.

Sincerely,

BERGMANN ASSOCIATES

Alex Adekoya
Design/Civil Engineer

Encl.

Cc: John L. DiMarco, II – member, 4320 West Ridge, LLC
Mark E. Petroski, PE – Bergmann Associates
Don Doe, PE – Monroe County Water Authority

I:\DiMarco Group\6237-00\Correspondence\Letters Memos\MCWA dgeis letter 9-20-07.doc

Petroski, Mark

From: Christopher, Daniel
Sent: Monday, August 27, 2007 2:24 PM
To: Petroski, Mark
Subject: FW: Hampton Ridge Center hydraulics

From: Don Doe [mailto:Don.Doe@MCWA.com]
Sent: Monday, August 27, 2007 2:13 PM
To: Christopher, Daniel
Subject: FW: Hampton Ridge Center hydraulics

Dan,

Please address the issues below either through me or with Chris King directly (the latter being more practical, though please copy me).

Don

From: Chris King
Sent: Monday, August 27, 2007 11:22 AM
To: Don Doe
Subject: Hampton Ridge Center hydraulics

Don,

After reviewing the hydraulics submitted by the engineer (letter dated 8/6/07), I offer the following comments:

- 1- The submitted hydraulic model runs do not include the pump table which shows how the capacity curve at the supply point was modeled, so I couldn't verify this was done correctly.
- 2- The capacity curve for the supply should be based on subtracting 5 psi from the 5/24/05 flow test due to tank levels and Lee BPS discharge not representing operational lows during the test.
- 3- The C factor used for pipe modeling was 100. This is more conservative than the 110 we normally stipulate. We would allow 110 to be used in this analysis.

Therefore if the engineer can lower the modeled pump curve by 5 psi (11.6 ' head), change C factors to 110 and resubmit the hydraulics with the pump table, we can take another look.

It would also be helpful if the engineer could indicate what the minimum pressure requirements are at the buildings due to sprinkler and fire pump design. This will give us an idea of the margin involved during low pressure operations.

Chris

Chris King, P.E.
Supervisor of Planning and Distribution
Monroe County Water Authority
Tel. 585-442-2001 ext. 511

8/27/2007

FW: Hampton Ridge Center hydraulics

Page 2 of

Fax: 585-621-1204

Address: P.O. Box 12697, Rochester, NY, 14612-0697



By DGC
Date 7/25/07
Subject Hampton Ridge Center

6237.02

Anticipated Sanitary Sewer Loading:

1) Movie Theater: Assume 1000 seats $\Rightarrow$ 50,000 SF

$$1000 \text{ Seats} @ 3 \text{ gpd/seat} = \underline{3,000 \text{ gpd}}$$

Reference: NYSDEC Design Standards for Wastewater Treatment Works, Intermediate Sized Sewer Facility 1988

2) Retail, Bank & Pharmacy: 316,000 SF $\times$ 0.08 gpd = 25,280 gpd

3) Sitdown Restaurant (4): 24,000 SF $\Rightarrow$ Assume 121 seats/Restaurant
Total Seats = 121 seats $\times$ 4 = 484 seats

$$484 \text{ seats} \times 28 \text{ gpd/seat} = \underline{13,552 \text{ gpd}}$$

$$\text{Site Total} = \underline{41,832 \text{ gpd}}$$

$$\text{ADF} = 41,832 \text{ gpd} \times 1/1440 \text{ M.W.} = 29 \text{ gpm}$$

$$\text{Peak Flow} = 29 \text{ gpm} \times 10 \text{ (Peak Factor)} = \boxed{290 \text{ gpm}} \Rightarrow Q_{\text{Peak}}$$

$$\underline{\text{Domestic Water Peak} = 290 \text{ gpm}}$$



Monroe County Water Authority
Engineering Department
475 Norris Drive
Rochester, NY 14610

Telephone: 585-442-2000
Fax: 585-442-0220

FAX TRANSMITTAL

DATE:

5/27/05

TO:

MARK PETROSKI

COMPANY:

Bergmann Associates

FAX #:

325-8306

FROM:

Steve Gould

NUMBER OF PAGES:

3

(Including cover sheet)

FILE NO.:

If you do not receive all pages, please call sender at (585) 442-2000.

☐ Yes ☒ No

HARD COPY TO FOLLOW / REGULAR MAIL

NOTES:

Flow Data Calculation Sheet

Mark
Petroski

Town : Greece

Location : Ridge Rd.

Date and Time : 5/24/05 @ 10:55

Main Size : 12"

Zone : 700 Zone

Conducted By: Ed and Jim

Flow Nozzle : 2.5

Flow Hydrant

Static: 115 psi

Pltrot: 88 psi

Style: A 1.00

Residual Hydrant

Static: 115 psi

Residual: 100 psi

Corrected

115 psi

100 psi

Calculations

Q Observed : 1583 gpm

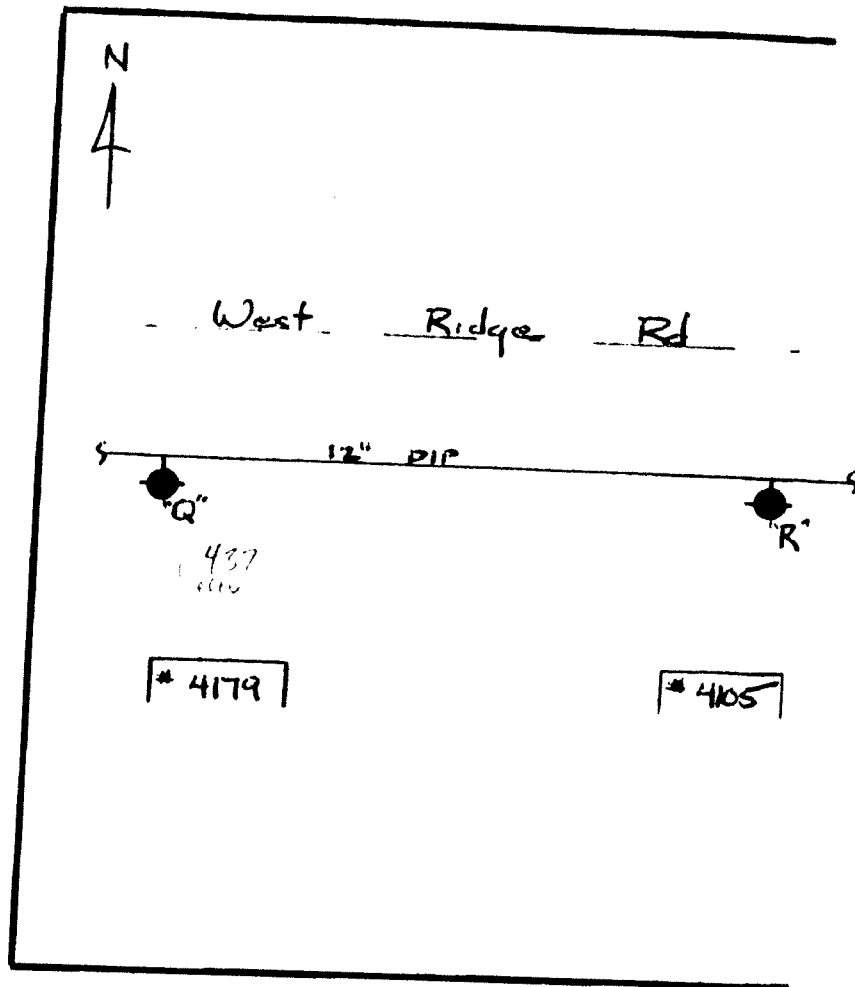
Q at 20psi : 4289 gpm

System Status

Pumps : Lee Rd Dis. = 76 psi

Tanks : Harek = 692.5'

Other :



PLEASE NOTE THE FOLLOWING INFORMATION

The pressure and flow data provided herein represents the actual values at this location in the distribution system on this date and time. These values can vary greatly depending on demands, operational parameters, system configurations, subsequent modifications, and other related criteria. If specific values or ranges of hydraulic data such as flows and/or pressures will be required, we strongly urge you to contact the ICWA's engineering department to evaluate whether this location in our system can satisfy your specific needs. Please contact Tom Stein at 442-2001, extension 244, for any questions or concerns.

61 DATA and OPERATING PARAMETERS

LOCATION: Grease
Ridge Rd

REQUESTED BY: Bergman E. J.
FLOW HYDRANT: 4179
Static: 114
Pict: 88
Style:

RESIDUAL HYDRANT: 4283
Static: 114
Residual: 99
Style:

ELEVATION DIFFERENCE:

DATE and TIME: 11/13/03 9:30

SYSTEM STATUS

Pump(s): Lee Rd Discharge
84 PSI
Tank(s): Hazlet 690'

OTHER:

MISCELLANEOUS:

Conducted by: Ed H. Mary-I

CALCULATIONS:

$$Q_{demand} = 27 (1.1 D)^{2.63} \sqrt{P_{fric}}$$

$$= 27 (2.5)^{2.63} \sqrt{88}$$

$$= 1583 \text{ gpm}$$

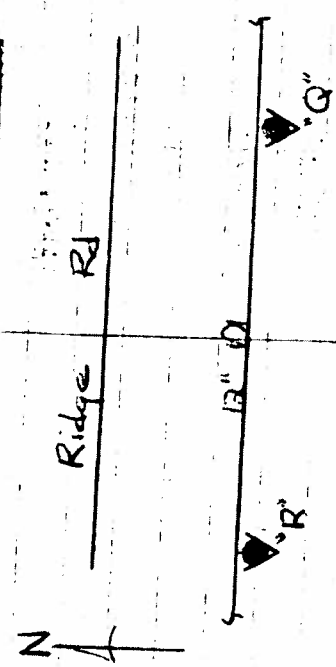
$$Q_{20 psi} = Q_{demand} (S_{10} / S_{20})^{1.85} \quad (S_{10} = 20 \text{ Static} - \text{Residual})^{0.54}$$

$$= 1583 \left(\frac{114}{114 - 20} \right)^{1.85}$$

$$= 1583 \left(\frac{94}{15} \right)^{1.85}$$

$$= 4265 \text{ gpm}$$

SKETCH (Distribution Plate No. 462)



4283

4179



MONROE COUNTY WATER AUTHORITY

P.O. Box 10999 • 475 Norris Drive • Rochester, New York 14610-0999

Phone: (585) 442-2000 Fax: (585) 442-0220

May 21, 2007

Gary Tajkowski
Town of Greece
1 Vince Tofany Boulevard
Rochester, New York 14612

Re: Lead Agency Request for SEQR – Hampton Ridge Center
Town of Greece

Dear Mr. Tajkowski:

The Monroe County Water Authority concurs with the Town Board of the Town of Greece acting as Lead Agency for the above referenced project. Attached is an initial checklist of items that the Monroe County Water Authority requests be addressed as part of our review and approval process for this project. Given that the level of detail presented is only conceptual in nature, this list is preliminary and may be added to, as more detailed plans are presented.

If you have any questions regarding this letter, please contact me at 442-2000, extension 244.

Truly yours,

Thomas K. Stein
Construction Engineer

tk/dd
Attachment

xc: S. Gould, P.E.

RECEIVED
2007 MAY 23 PM 12:03
TOWN OF GREECE
DEVELOPMENT SERVICES



Monroe County Water Authority

SEOR REVIEW

Date: May 21, 2007

Project: Hampton Ridge Center

Town: Greece

ITEM

	Address in SEQR Review	Required for MCWA Approval
1. Plans and specifications shall be developed in accordance with MCWA standards and submitted for review and approval.	☐	☒
2. Water demand projections (domestic, industrial and fire-flows) shall be presented.	☒	☒
3. Hydraulic calculations shall be submitted.	☒	☒
4. For any facility outside of a public R.O.W., prepare and submit easement documents.	☐	☐
5. Master metering will likely be required for this project.	☐	☒
6. Looping of the water system will be required.	☐	☐
7. Backflow issues must be addressed, including submission of the Engineer's Report.	☐	☒
8. Additional comments:	☐	☐

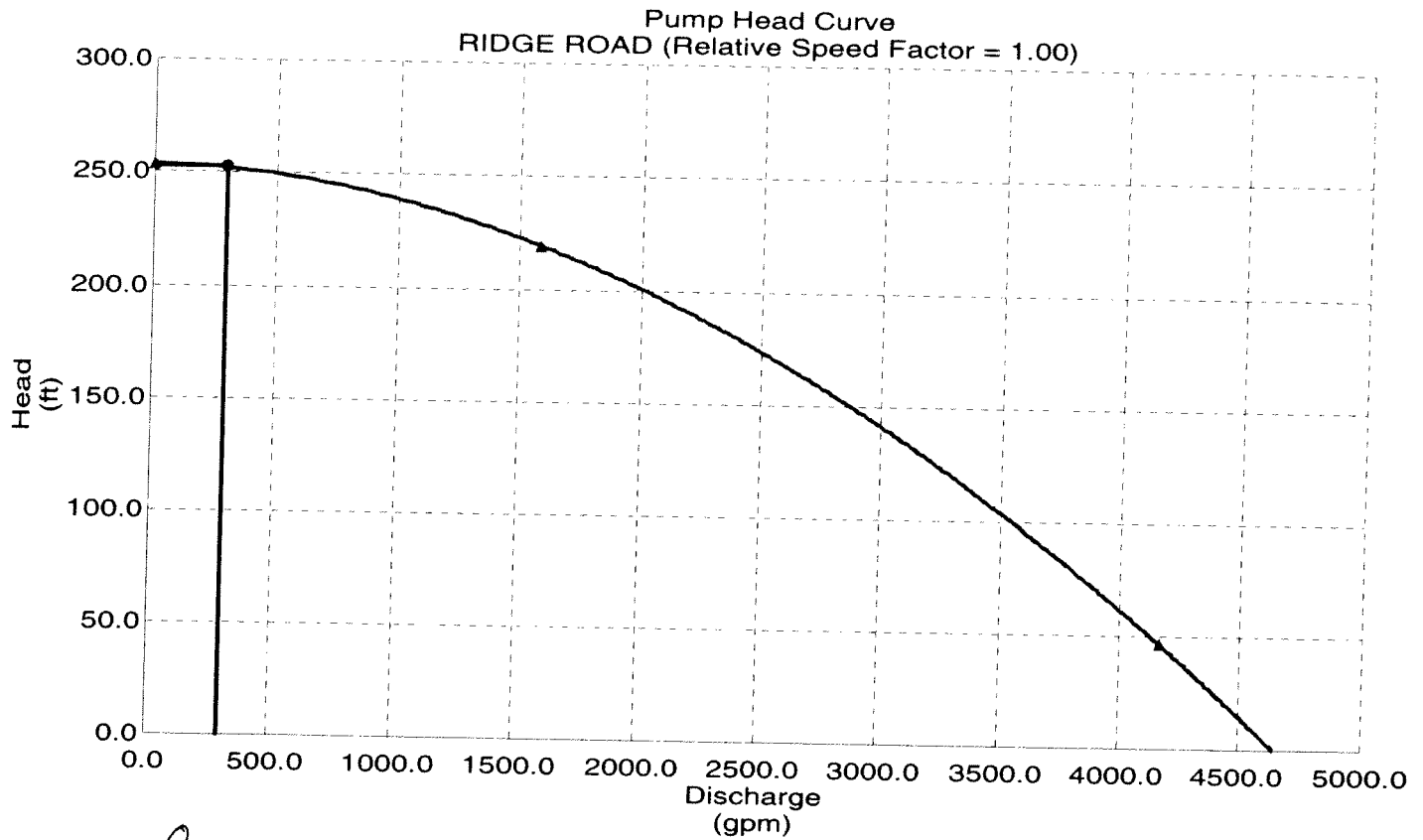
New Pump Data:

0 gpm; 110 psi

1583 gpm; 95 psi

$$Q_{@20} = 1583 \text{ gpm} \left(\frac{110 - 20}{110 - 95} \right)^{0.54}$$

$$Q_{@20} = 4165.65 \text{ gpm}$$



Discharge, gpm	Head, ft
0	254.1
1583	219.5
4165.7	46.2

Scenario: 4320 FF RET A

Steady State Analysis

Junction Report

Hampton Ridge Center Fire Flow @ 1600gpm Retail A

Label	Elevation (ft)	Type	Demand (Calculated) (gpm)	Pattern	Base Flow (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8	438.00	Demand	0.00	Fixed	0.00	646.08	90.03
J-9	439.00	Demand	0.00	Fixed	0.00	640.29	87.09
J-10	438.00	Demand	0.00	Fixed	0.00	638.59	86.79
J-14	430.00	Demand	0.00	Fixed	0.00	624.84	84.30
J-15	400.00	Demand	0.00	Fixed	0.00	576.72	76.46
J-16	400.00	Demand	0.00	Fixed	0.00	573.94	75.26
J-17	400.00	Demand	0.00	Fixed	0.00	568.30	72.82
RETAIL A	401.00	Demand	1,600.00	Fixed	1,600.00	562.14	69.72
HYD 3	392.00	Demand	0.00	Fixed	0.00	574.42	78.92
HYD 4	392.00	Demand	0.00	Fixed	0.00	575.05	79.20
J-21	399.00	Demand	0.00	Fixed	0.00	578.44	77.63
HYD 1	408.00	Demand	0.00	Fixed	0.00	580.68	74.71
HYD 2	408.00	Demand	0.00	Fixed	0.00	580.68	74.71
J-24	413.00	Demand	0.00	Fixed	0.00	587.07	75.31
J-25	413.00	Demand	0.00	Fixed	0.00	585.63	74.69
J-26	412.00	Demand	0.00	Fixed	0.00	583.76	74.31
HYD 5	412.00	Demand	0.00	Fixed	0.00	583.76	74.31
J-28	412.00	Demand	0.00	Fixed	0.00	584.25	74.53
RETAIL F	414.00	Demand	35.00	Fixed	35.00	584.23	73.65
J-30	410.00	Demand	0.00	Fixed	0.00	582.95	74.83
J-31	413.00	Demand	0.00	Fixed	0.00	585.64	74.69
RETAIL G	414.00	Demand	35.00	Fixed	35.00	585.61	74.25
RETAIL E	412.00	Demand	35.00	Fixed	35.00	582.92	73.95
J-34	410.00	Demand	0.00	Fixed	0.00	581.96	74.40
RETAIL D	412.00	Demand	35.00	Fixed	35.00	581.93	73.52
J-36	408.00	Demand	0.00	Fixed	0.00	580.95	74.83
RETAIL C	410.00	Demand	35.00	Fixed	35.00	580.92	73.95
J-38	402.00	Demand	0.00	Fixed	0.00	580.13	77.07
RETAIL B	404.00	Demand	35.00	Fixed	35.00	580.09	76.19
J-40	423.00	Demand	0.00	Fixed	0.00	637.53	92.82
J-41	422.00	Demand	0.00	Fixed	0.00	637.52	93.25
J-42	420.00	Demand	0.00	Fixed	0.00	637.51	94.11
HYD 9	400.00	Demand	0.00	Fixed	0.00	576.02	76.16
J-48	420.00	Demand	35.00	Fixed	35.00	637.51	94.10

Scenario: 4320 FF RET A

Steady State Analysis

Pipe Report

Label	Length (ft)	Diameter (in)	Material	Hazen- Williams C	Minor Loss Coefficient	Discharge (gpm)	Upstream Structure Hydraulic Grade (ft)	Downstream Structure Hydraulic Grade (ft)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)	Velocity (ft/s)
P-9	526.00	12.0	Ductile Iro	110.0	0.35	1,845.00	640.29	646.08	5.80	11.02	5.23
P-10	107.00	12.0	Ductile Iro	110.0	1.28	1,845.00	640.29	638.59	1.69	15.83	5.23
P-14	1.00	30.0	Ductile Iro	110.0	0.35	1,845.00	646.08	646.09	0.00	3.91	0.84
P-15	1.00	30.0	Ductile Iro	110.0	0.00	1,845.00	438.00	438.00	0.00	0.12	0.84
P-16	1,299.00	12.0	Ductile Iro	110.0	0.70	1,810.00	638.59	624.84	13.75	10.58	5.13
P-17	27.00	12.0	Ductile Iro	100.0	0.80	1,810.00	624.84	624.18	0.66	24.49	5.13
P-19	352.00	12.0	Ductile Iro	100.0	0.50	1,387.66	576.72	573.94	2.78	7.90	3.94
P-20	60.00	8.0	Ductile Iro	110.0	1.28	1,600.00	573.94	568.30	5.64	93.98	10.21
P-21	93.00	8.0	Ductile Iro	110.0	0.39	1,600.00	568.30	562.14	6.16	66.23	10.21
P-22	330.00	8.0	Ductile Iro	110.0	0.35	-212.34	573.94	574.42	0.48	1.44	1.36
P-23	431.00	8.0	Ductile Iro	110.0	0.80	-212.34	574.42	575.05	0.63	1.46	1.36
P-25	163.00	12.0	Ductile Iro	100.0	0.35	1,600.00	578.44	576.72	1.72	10.53	4.54
P-26	330.00	12.0	Ductile Iro	100.0	1.28	1,231.33	578.44	580.68	2.24	6.79	3.49
P-27	363.00	8.0	Ductile Iro	110.0	0.80	0.00	580.68	580.68	0.00	0.00	0.00
P-28	91.00	12.0	Ductile Iro	100.0	0.78	1,810.00	588.51	587.07	1.44	15.87	5.13
P-30	197.00	12.0	Ductile Iro	100.0	1.28	1,231.33	587.07	585.63	1.44	7.29	3.49
P-31	285.00	12.0	Ductile Iro	100.0	0.80	1,231.33	585.63	583.76	1.88	6.59	3.49
P-32	425.00	8.0	Ductile Iro	110.0	0.80	0.00	583.76	583.76	0.00	0.00	0.00
P-35	110.00	6.0	Ductile Iro	110.0	0.39	35.00	584.25	584.23	0.02	0.21	0.40
P-34	175.00	8.0	Ductile Iro	110.0	0.35	508.67	584.25	582.95	1.30	7.44	3.25
P-37	150.00	8.0	Ductile Iro	110.0	0.35	578.67	587.07	585.64	1.43	9.53	3.69
P-38	164.00	8.0	Ductile Iro	110.0	0.35	543.67	585.64	584.25	1.39	8.45	3.47
P-39	139.00	6.0	Ductile Iro	110.0	0.39	35.00	585.64	585.61	0.03	0.21	0.40
P-40	129.00	6.0	Ductile Iro	110.0	0.39	35.00	582.95	582.92	0.03	0.21	0.40
P-41	151.00	8.0	Ductile Iro	110.0	0.35	473.67	582.95	581.96	0.99	6.57	3.02
P-43	122.00	6.0	Ductile Iro	110.0	0.39	35.00	581.96	581.93	0.03	0.21	0.40
P-42	179.00	8.0	Ductile Iro	110.0	0.35	438.67	581.96	580.95	1.01	5.65	2.80
P-45	121.00	6.0	Ductile Iro	110.0	0.50	35.00	580.95	580.92	0.03	0.21	0.40
P-44	169.00	8.0	Ductile Iro	110.0	0.35	403.67	580.95	580.13	0.82	4.85	2.58
P-46	416.00	8.0	Ductile Iro	110.0	0.70	368.67	580.13	578.44	1.69	4.07	2.35
P-47	181.00	6.0	Ductile Iro	110.0	0.39	35.00	580.13	580.09	0.04	0.21	0.40
P-48	26.00	8.0	Ductile Iro	100.0	1.67	35.00	638.59	638.59	0.00	0.11	0.22
P-49	173.00	8.0	Ductile Iro	110.0	0.78	35.00	637.54	637.53	0.01	0.05	0.22
P-50	124.00	8.0	Ductile Iro	110.0	0.20	35.00	637.53	637.52	0.01	0.05	0.22
P-51	237.00	8.0	Ductile Iro	110.0	0.35	35.00	637.52	637.51	0.01	0.05	0.22
P-56	489.00	8.0	Ductile Iro	110.0	0.35	212.34	576.72	576.02	0.70	1.43	1.36
P-57	508.00	12.0	Ductile Iro	100.0	0.00	1,231.33	580.68	583.76	3.08	6.06	3.49
P-58	690.00	8.0	Ductile Iro	110.0	0.00	-212.34	575.05	576.02	0.97	1.41	1.36
P-59	96.00	8.0	Ductile Iro	100.0	0.00	-35.00	637.51	637.51	0.01	0.06	0.22

Scenario: 4320 FF RET A
Steady State Analysis
Valve Report

Label	Elevation (ft)	Diameter (in)	Minor Loss Coefficient	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
W. meter/rp	427.00	8.0	0.00	Active	1,810.00	624.18	588.51	35.67
E. Meter/rp	437.00	8.0	0.00	Active	35.00	638.59	637.54	1.05

Scenario: 4320 FF HYD 9

Steady State Analysis

Junction Report

Hampton Ridge Center Fire Flow @ 1100 gpm Retail A

Label	Elevation (ft)	Type	Demand (Calculated) (gpm)	Pattern	Base Flow (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8	438.00	Demand	0.00	Fixed	0.00	646.08	90.03
J-9	439.00	Demand	0.00	Fixed	0.00	640.29	87.09
J-10	438.00	Demand	0.00	Fixed	0.00	638.59	86.79
J-14	430.00	Demand	0.00	Fixed	0.00	624.84	84.30
J-15	400.00	Demand	0.00	Fixed	0.00	576.72	76.46
J-16	400.00	Demand	0.00	Fixed	0.00	574.65	75.56
J-17	400.00	Demand	0.00	Fixed	0.00	571.89	74.37
RETAIL A	401.00	Demand	1,100.00	Fixed	1,100.00	568.83	72.61
HYD 3	392.00	Demand	0.00	Fixed	0.00	574.57	78.99
HYD 4	392.00	Demand	0.00	Fixed	0.00	574.45	78.94
J-21	399.00	Demand	0.00	Fixed	0.00	578.44	77.63
HYD 1	408.00	Demand	0.00	Fixed	0.00	580.68	74.71
HYD 2	408.00	Demand	0.00	Fixed	0.00	580.68	74.71
J-24	413.00	Demand	0.00	Fixed	0.00	587.07	75.31
J-25	413.00	Demand	0.00	Fixed	0.00	585.63	74.69
J-26	412.00	Demand	0.00	Fixed	0.00	583.76	74.31
HYD 5	412.00	Demand	0.00	Fixed	0.00	583.76	74.31
J-28	412.00	Demand	0.00	Fixed	0.00	584.25	74.53
RETAIL F	414.00	Demand	35.00	Fixed	35.00	584.23	73.65
J-30	410.00	Demand	0.00	Fixed	0.00	582.95	74.83
J-31	413.00	Demand	0.00	Fixed	0.00	585.64	74.69
RETAIL G	414.00	Demand	35.00	Fixed	35.00	585.61	74.25
RETAIL E	412.00	Demand	35.00	Fixed	35.00	582.92	73.95
J-34	410.00	Demand	0.00	Fixed	0.00	581.96	74.40
RETAIL D	412.00	Demand	35.00	Fixed	35.00	581.93	73.52
J-36	408.00	Demand	0.00	Fixed	0.00	580.95	74.83
RETAIL C	410.00	Demand	35.00	Fixed	35.00	580.92	73.95
J-38	402.00	Demand	0.00	Fixed	0.00	580.13	77.07
RETAIL B	404.00	Demand	35.00	Fixed	35.00	580.09	76.19
J-40	423.00	Demand	0.00	Fixed	0.00	637.53	92.82
J-41	422.00	Demand	0.00	Fixed	0.00	637.52	93.25
J-42	420.00	Demand	0.00	Fixed	0.00	637.51	94.11
HYD 9	400.00	Demand	500.00	Fixed	500.00	574.28	75.40
J-48	420.00	Demand	35.00	Fixed	35.00	637.51	94.10

Scenario: 4320 FF HYD 9

Steady State Analysis

Pipe Report

Label	Length (ft)	Diameter (in)	Material	Hazen- Williams C	Minor Loss Coefficient	Discharge (gpm)	Upstream Structure Hydraulic Grade (ft)	Downstream Structure Hydraulic Grade (ft)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)	Velocity (ft/s)
P-9	526.00	12.0	Ductile Iro	110.0	0.35	1,845.00	640.29	646.08	5.80	11.02	5.23
P-10	107.00	12.0	Ductile Iro	110.0	1.28	1,845.00	640.29	638.59	1.69	15.83	5.23
P-14	1.00	30.0	Ductile Iro	110.0	0.35	1,845.00	646.08	646.09	0.00	3.97	0.84
P-15	1.00	30.0	Ductile Iro	110.0	0.00	1,845.00	438.00	438.00	0.00	0.12	0.84
P-16	1,299.00	12.0	Ductile Iro	110.0	0.70	1,810.00	638.59	624.84	13.75	10.58	5.13
P-17	27.00	12.0	Ductile Iro	100.0	0.80	1,810.00	624.84	624.18	0.66	24.49	5.13
P-19	352.00	12.0	Ductile Iro	100.0	0.50	1,183.69	576.72	574.65	2.07	5.88	3.36
P-20	60.00	8.0	Ductile Iro	110.0	1.28	1,100.00	574.65	571.89	2.76	46.02	7.02
P-21	93.00	8.0	Ductile Iro	110.0	0.39	1,100.00	571.89	568.83	3.06	32.90	7.02
P-22	330.00	8.0	Ductile Iro	110.0	0.35	83.69	574.65	574.57	0.08	0.26	0.53
P-23	431.00	8.0	Ductile Iro	110.0	0.80	83.69	574.57	574.45	0.11	0.26	0.53
P-25	163.00	12.0	Ductile Iro	100.0	0.35	1,600.00	578.44	576.72	1.72	10.53	4.54
P-26	330.00	12.0	Ductile Iro	100.0	1.28	1,231.33	578.44	580.68	2.24	6.79	3.49
P-27	363.00	8.0	Ductile Iro	110.0	0.80	0.00	580.68	580.68	0.00	0.00	0.00
P-28	91.00	12.0	Ductile Iro	100.0	0.78	1,810.00	588.51	587.07	1.44	15.87	5.13
P-30	197.00	12.0	Ductile Iro	100.0	1.28	1,231.33	587.07	585.63	1.44	7.29	3.49
P-31	285.00	12.0	Ductile Iro	100.0	0.80	1,231.33	585.63	583.76	1.88	6.59	3.49
P-32	425.00	8.0	Ductile Iro	110.0	0.80	0.00	583.76	583.76	0.00	0.00	0.00
P-35	110.00	6.0	Ductile Iro	110.0	0.39	35.00	584.25	584.23	0.02	0.21	0.40
P-34	175.00	8.0	Ductile Iro	110.0	0.35	508.67	584.25	582.95	1.30	7.44	3.25
P-37	150.00	8.0	Ductile Iro	110.0	0.35	578.67	587.07	585.64	1.43	9.53	3.69
P-38	164.00	8.0	Ductile Iro	110.0	0.35	543.67	585.64	584.25	1.39	8.45	3.47
P-39	139.00	6.0	Ductile Iro	110.0	0.39	35.00	585.64	585.61	0.03	0.21	0.40
P-40	129.00	6.0	Ductile Iro	110.0	0.39	35.00	582.95	582.92	0.03	0.21	0.40
P-41	151.00	8.0	Ductile Iro	110.0	0.35	473.67	582.95	581.96	0.99	6.57	3.02
P-43	122.00	6.0	Ductile Iro	110.0	0.39	35.00	581.96	581.93	0.03	0.21	0.40
P-42	179.00	8.0	Ductile Iro	110.0	0.35	438.67	581.96	580.95	1.01	5.65	2.80
P-45	121.00	6.0	Ductile Iro	110.0	0.50	35.00	580.95	580.92	0.03	0.21	0.40
P-44	169.00	8.0	Ductile Iro	110.0	0.35	403.67	580.95	580.13	0.82	4.85	2.58
P-46	416.00	8.0	Ductile Iro	110.0	0.70	368.67	580.13	578.44	1.69	4.07	2.35
P-47	181.00	6.0	Ductile Iro	110.0	0.39	35.00	580.13	580.09	0.04	0.21	0.40
P-48	26.00	8.0	Ductile Iro	100.0	1.67	35.00	638.59	638.59	0.00	0.11	0.22
P-49	173.00	8.0	Ductile Iro	110.0	0.78	35.00	637.54	637.53	0.01	0.05	0.22
P-50	124.00	8.0	Ductile Iro	110.0	0.20	35.00	637.53	637.52	0.01	0.05	0.22
P-51	237.00	8.0	Ductile Iro	110.0	0.35	35.00	637.52	637.51	0.01	0.05	0.22
P-56	489.00	8.0	Ductile Iro	110.0	0.35	416.31	576.72	574.28	2.44	4.99	2.66
P-57	508.00	12.0	Ductile Iro	100.0	0.00	1,231.33	580.68	583.76	3.08	6.06	3.49
P-58	690.00	8.0	Ductile Iro	110.0	0.00	83.69	574.45	574.28	0.17	0.25	0.53
P-59	96.00	8.0	Ductile Iro	100.0	0.00	-35.00	637.51	637.51	0.01	0.06	0.22

Scenario: 4320 FF HYD 9
Steady State Analysis
Valve Report

Label	Elevation (ft)	Diameter (in)	Minor Loss Coefficient	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
W. meter/rp	427.00	8.0	0.00	Active	1,810.00	624.18	588.51	35.67
E. Meter/rp	437.00	8.0	0.00	Active	35.00	638.59	637.54	1.05

Scenario: 4320 FF J48

Steady State Analysis

Junction Report

The Shops @ Hampton Ridge Fire Flow @ 1600 gpm

Label	Elevation (ft)	Type	Demand (Calculated) (gpm)	Pattern	Base Flow (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8	438.00	Demand	0.00	Fixed	0.00	645.39	89.73
J-9	439.00	Demand	0.00	Fixed	0.00	639.50	86.75
J-10	438.00	Demand	0.00	Fixed	0.00	637.78	86.44
J-14	430.00	Demand	0.00	Fixed	0.00	637.41	89.74
J-15	400.00	Demand	0.00	Fixed	0.00	629.44	99.27
J-16	400.00	Demand	0.00	Fixed	0.00	629.43	99.26
J-17	400.00	Demand	0.00	Fixed	0.00	629.42	99.26
RETAIL A	401.00	Demand	50.00	Fixed	50.00	629.41	98.82
HYD 3	392.00	Demand	0.00	Fixed	0.00	629.43	102.73
HYD 4	392.00	Demand	0.00	Fixed	0.00	629.43	102.73
J-21	399.00	Demand	0.00	Fixed	0.00	629.44	99.70
HYD 1	408.00	Demand	0.00	Fixed	0.00	629.47	95.82
HYD 2	408.00	Demand	0.00	Fixed	0.00	629.47	95.82
J-24	413.00	Demand	0.00	Fixed	0.00	629.55	93.69
J-25	413.00	Demand	0.00	Fixed	0.00	629.54	93.68
J-26	412.00	Demand	0.00	Fixed	0.00	629.51	94.11
HYD 5	412.00	Demand	0.00	Fixed	0.00	629.51	94.11
J-28	412.00	Demand	0.00	Fixed	0.00	629.39	94.05
RETAIL F	414.00	Demand	35.00	Fixed	35.00	629.37	93.18
J-30	410.00	Demand	0.00	Fixed	0.00	629.36	94.91
J-31	413.00	Demand	0.00	Fixed	0.00	629.45	93.65
RETAIL G	414.00	Demand	35.00	Fixed	35.00	629.42	93.20
RETAIL E	412.00	Demand	35.00	Fixed	35.00	629.33	94.03
J-34	410.00	Demand	0.00	Fixed	0.00	629.35	94.90
RETAIL D	412.00	Demand	35.00	Fixed	35.00	629.32	94.03
J-36	408.00	Demand	0.00	Fixed	0.00	629.35	95.77
RETAIL C	410.00	Demand	35.00	Fixed	35.00	629.32	94.89
J-38	402.00	Demand	0.00	Fixed	0.00	629.36	98.37
RETAIL B	404.00	Demand	35.00	Fixed	35.00	629.32	97.49
J-40	423.00	Demand	0.00	Fixed	0.00	587.49	71.17
J-41	422.00	Demand	0.00	Fixed	0.00	579.80	68.27
J-42	420.00	Demand	0.00	Fixed	0.00	565.14	62.80
HYD 9	400.00	Demand	0.00	Fixed	0.00	629.44	99.27
J-48	420.00	Demand	1,600.00	Fixed	1,600.00	558.34	59.85

Scenario: 4320 FF J48

Steady State Analysis

Pipe Report

Label	Length (ft)	Diameter (in)	Material	Hazen- Williams C	Minor Loss Coefficient	Discharge (gpm)	Upstream Structure Hydraulic Grade (ft)	Downstream Structure Hydraulic Grade (ft)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)	Velocity (ft/s)
P-9	526.00	12.0	Ductile Iro	110.0	0.35	1,860.00	639.50	645.39	5.88	11.19	5.28
P-10	107.00	12.0	Ductile Iro	110.0	1.28	1,860.00	639.50	637.78	1.72	16.07	5.28
P-14	1.00	30.0	Ductile Iro	110.0	0.35	1,860.00	645.39	645.39	0.00	4.03	0.84
P-15	1.00	30.0	Ductile Iro	110.0	0.00	1,860.00	438.00	438.00	0.00	0.12	0.84
P-16	1,299.00	12.0	Ductile Iro	110.0	0.70	260.00	637.78	637.41	0.38	0.29	0.74
P-17	27.00	12.0	Ductile Iro	100.0	0.80	260.00	637.41	637.39	0.02	0.59	0.74
P-19	352.00	12.0	Ductile Iro	100.0	0.50	43.21	629.44	629.43	0.00	0.01	0.12
P-20	60.00	8.0	Ductile Iro	110.0	1.28	50.00	629.43	629.42	0.01	0.13	0.32
P-21	93.00	8.0	Ductile Iro	110.0	0.39	50.00	629.42	629.41	0.01	0.10	0.32
P-22	330.00	8.0	Ductile Iro	110.0	0.35	-6.79	629.43	629.43	0.00	0.00	0.04
P-23	431.00	8.0	Ductile Iro	110.0	0.80	-6.79	629.43	629.43	0.00	0.00	0.04
P-25	163.00	12.0	Ductile Iro	100.0	0.35	50.00	629.44	629.44	0.00	0.02	0.14
P-26	330.00	12.0	Ductile Iro	100.0	1.28	-121.08	629.44	629.47	0.03	0.09	0.34
P-27	363.00	8.0	Ductile Iro	110.0	0.80	0.00	629.47	629.47	0.00	0.00	0.00
P-28	91.00	12.0	Ductile Iro	100.0	0.78	260.00	629.59	629.55	0.04	0.41	0.74
P-30	197.00	12.0	Ductile Iro	100.0	1.28	121.08	629.55	629.54	0.02	0.09	0.34
P-31	285.00	12.0	Ductile Iro	100.0	0.80	121.08	629.54	629.51	0.02	0.09	0.34
P-32	425.00	8.0	Ductile Iro	110.0	0.80	0.00	629.51	629.51	0.00	0.00	0.00
P-35	110.00	6.0	Ductile Iro	110.0	0.39	35.00	629.39	629.37	0.02	0.21	0.40
P-34	175.00	8.0	Ductile Iro	110.0	0.35	68.92	629.39	629.36	0.03	0.18	0.44
P-37	150.00	8.0	Ductile Iro	110.0	0.35	138.92	629.55	629.45	0.10	0.67	0.89
P-38	164.00	8.0	Ductile Iro	110.0	0.35	103.92	629.45	629.39	0.06	0.39	0.66
P-39	139.00	6.0	Ductile Iro	110.0	0.39	35.00	629.45	629.42	0.03	0.21	0.40
P-40	129.00	6.0	Ductile Iro	110.0	0.39	35.00	629.36	629.33	0.03	0.21	0.40
P-41	151.00	8.0	Ductile Iro	110.0	0.35	33.92	629.36	629.35	0.01	0.05	0.22
P-43	122.00	6.0	Ductile Iro	110.0	0.39	35.00	629.35	629.32	0.03	0.21	0.40
P-42	179.00	8.0	Ductile Iro	110.0	0.35	-1.08	629.35	629.35	0.00	0.00	0.01
P-45	121.00	6.0	Ductile Iro	110.0	0.50	35.00	629.35	629.32	0.03	0.21	0.40
P-44	169.00	8.0	Ductile Iro	110.0	0.35	-36.08	629.35	629.36	0.01	0.05	0.23
P-46	416.00	8.0	Ductile Iro	110.0	0.70	-71.08	629.36	629.44	0.08	0.19	0.45
P-47	181.00	6.0	Ductile Iro	110.0	0.39	35.00	629.36	629.32	0.04	0.21	0.40
P-48	26.00	8.0	Ductile Iro	100.0	1.67	1,600.00	637.78	633.24	4.55	174.92	10.21
P-49	173.00	8.0	Ductile Iro	110.0	0.78	1,600.00	599.04	587.49	11.55	66.74	10.21
P-50	124.00	8.0	Ductile Iro	110.0	0.20	1,600.00	587.49	579.80	7.69	62.05	10.21
P-51	237.00	8.0	Ductile Iro	110.0	0.35	1,600.00	579.80	565.14	14.65	61.83	10.21
P-56	489.00	8.0	Ductile Iro	110.0	0.35	6.79	629.44	629.44	0.00	0.00	0.04
P-57	508.00	12.0	Ductile Iro	100.0	0.00	-121.08	629.47	629.51	0.04	0.08	0.34
P-58	690.00	8.0	Ductile Iro	110.0	0.00	-6.79	629.43	629.44	0.00	0.00	0.04
P-59	96.00	8.0	Ductile Iro	100.0	0.00	1,600.00	558.34	565.14	6.81	70.91	10.21

Scenario: 4320 FF J48
Steady State Analysis
Valve Report

Label	Elevation (ft)	Diameter (in)	Minor Loss Coefficient	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
W. meter/rp	427.00	8.0	0.00	Active	260.00	637.39	629.59	7.80
E. Meter/rp	437.00	8.0	0.00	Active	1,600.00	633.24	599.04	34.20

Scenario: 4320 W RIDGE RD Base
Steady State Analysis
Junction Report

Label	Elevation (ft)	Type	Demand (Calculated) (gpm)	Pattern	Base Flow (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8	438.00	Demand	0.00	Fixed	0.00	690.56	109.27
J-9	439.00	Demand	0.00	Fixed	0.00	690.36	108.75
J-10	438.00	Demand	0.00	Fixed	0.00	690.31	109.16
J-14	430.00	Demand	0.00	Fixed	0.00	689.93	112.46
J-15	400.00	Demand	0.00	Fixed	0.00	681.96	121.99
J-16	400.00	Demand	0.00	Fixed	0.00	681.96	121.99
J-17	400.00	Demand	0.00	Fixed	0.00	681.95	121.99
RETAIL A	401.00	Demand	50.00	Fixed	50.00	681.94	121.55
HYD 3	392.00	Demand	0.00	Fixed	0.00	681.96	125.45
HYD 4	392.00	Demand	0.00	Fixed	0.00	681.96	125.45
J-21	399.00	Demand	0.00	Fixed	0.00	681.97	122.43
HYD 1	408.00	Demand	0.00	Fixed	0.00	682.00	118.54
HYD 2	408.00	Demand	0.00	Fixed	0.00	682.00	118.54
J-24	413.00	Demand	0.00	Fixed	0.00	682.08	116.42
J-25	413.00	Demand	0.00	Fixed	0.00	682.06	116.41
J-26	412.00	Demand	0.00	Fixed	0.00	682.04	116.83
HYD 5	412.00	Demand	0.00	Fixed	0.00	682.04	116.83
J-28	412.00	Demand	0.00	Fixed	0.00	681.92	116.78
RETAIL F	414.00	Demand	35.00	Fixed	35.00	681.89	115.90
J-30	410.00	Demand	0.00	Fixed	0.00	681.88	117.63
J-31	413.00	Demand	0.00	Fixed	0.00	681.98	116.38
RETAIL G	414.00	Demand	35.00	Fixed	35.00	681.95	115.93
RETAIL E	412.00	Demand	35.00	Fixed	35.00	681.86	116.75
J-34	410.00	Demand	0.00	Fixed	0.00	681.88	117.63
RETAIL D	412.00	Demand	35.00	Fixed	35.00	681.85	116.75
J-36	408.00	Demand	0.00	Fixed	0.00	681.88	118.49
RETAIL C	410.00	Demand	35.00	Fixed	35.00	681.85	117.62
J-38	402.00	Demand	0.00	Fixed	0.00	681.89	121.09
RETAIL B	404.00	Demand	35.00	Fixed	35.00	681.85	120.21
J-40	423.00	Demand	0.00	Fixed	0.00	689.25	115.19
J-41	422.00	Demand	0.00	Fixed	0.00	689.24	115.62
J-42	420.00	Demand	0.00	Fixed	0.00	689.23	116.48
HYD 9	400.00	Demand	0.00	Fixed	0.00	681.96	121.99
J-48	420.00	Demand	35.00	Fixed	35.00	689.22	116.48

Scenario: 4320 W RIDGE RD Base

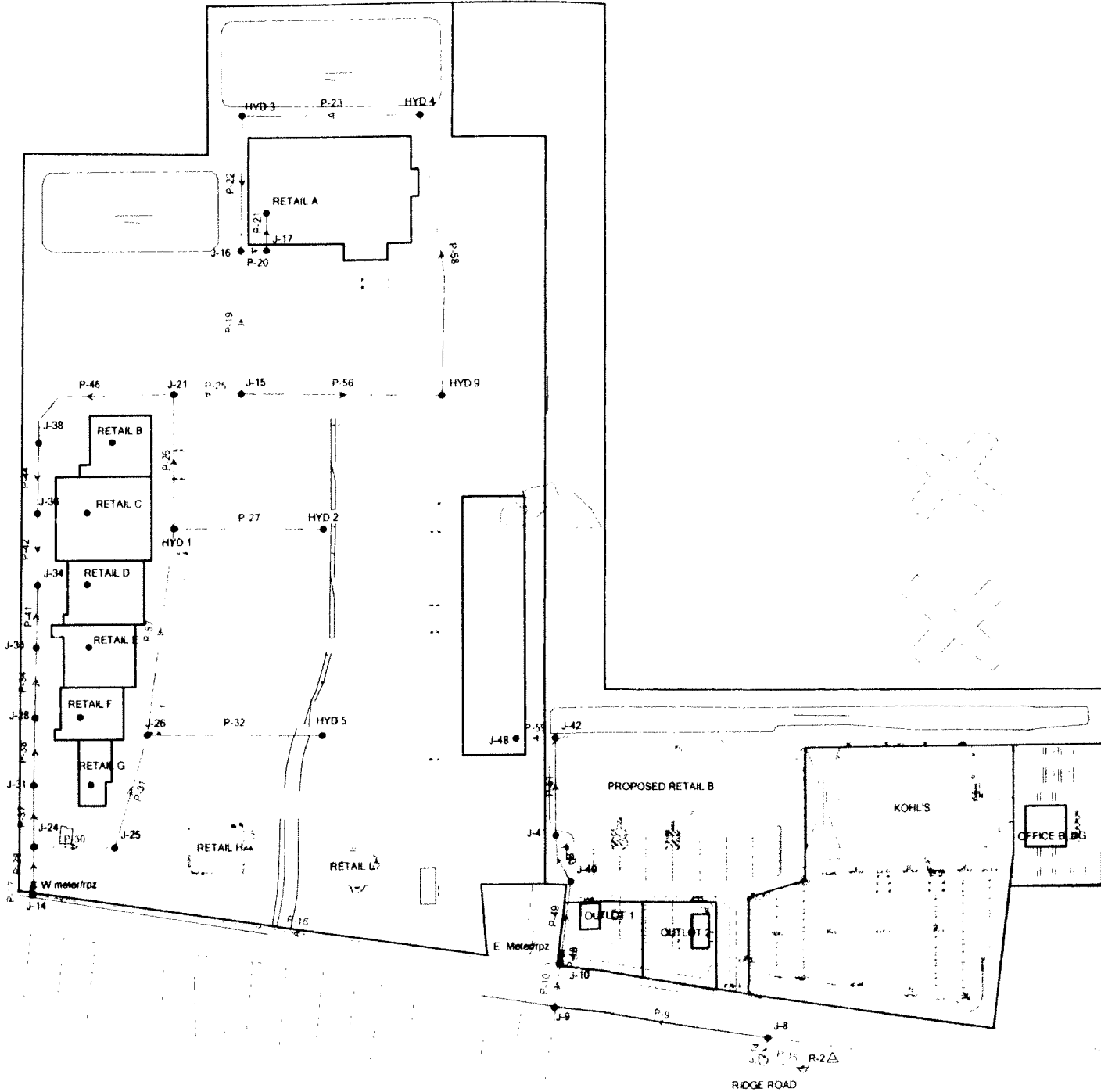
Steady State Analysis

Pipe Report

Label	Length (ft)	Diameter (in)	Material	Hazen- Williams C	Minor Loss Coefficient	Discharge (gpm)	Upstream Structure Hydraulic Grade (ft)	Downstream Structure Hydraulic Grade (ft)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)	Velocity (ft/s)
P-9	526.00	12.0	Ductile Iro	110.0	0.35	-295.00	690.36	690.56	0.19	0.37	0.84
P-10	107.00	12.0	Ductile Iro	110.0	1.28	295.00	690.36	690.31	0.05	0.49	0.84
P-14	1.00	30.0	Ductile Iro	110.0	0.35	-295.00	690.56	690.56	0.00	0.12	0.13
P-15	1.00	30.0	Ductile Iro	110.0	0.00	-295.00	438.00	438.00	0.00	0.00	0.13
P-16	1,299.00	12.0	Ductile Iro	110.0	0.70	260.00	690.31	689.93	0.38	0.29	0.74
P-17	27.00	12.0	Ductile Iro	100.0	0.80	260.00	689.93	689.92	0.02	0.59	0.74
P-19	352.00	12.0	Ductile Iro	100.0	0.50	43.40	681.96	681.96	0.00	0.01	0.12
P-20	60.00	8.0	Ductile Iro	110.0	1.28	50.00	681.96	681.95	0.01	0.13	0.32
P-21	93.00	8.0	Ductile Iro	110.0	0.39	50.00	681.95	681.94	0.01	0.10	0.32
P-22	330.00	8.0	Ductile Iro	110.0	0.35	-6.60	681.96	681.96	0.00	0.00	0.04
P-23	431.00	8.0	Ductile Iro	110.0	0.80	-6.60	681.96	681.96	0.00	0.00	0.04
P-25	163.00	12.0	Ductile Iro	100.0	0.35	50.00	681.97	681.96	0.00	0.02	0.14
P-26	330.00	12.0	Ductile Iro	100.0	1.28	-121.08	681.97	682.00	0.03	0.09	0.34
P-27	363.00	8.0	Ductile Iro	110.0	0.80	0.00	682.00	682.00	0.00	0.00	0.00
P-28	91.00	12.0	Ductile Iro	100.0	0.78	260.00	682.12	682.08	0.04	0.41	0.74
P-30	197.00	12.0	Ductile Iro	100.0	1.28	121.08	682.08	682.06	0.02	0.09	0.34
P-31	285.00	12.0	Ductile Iro	100.0	0.80	121.08	682.06	682.04	0.03	0.09	0.34
P-32	425.00	8.0	Ductile Iro	110.0	0.80	0.00	682.04	682.04	0.00	0.00	0.00
P-35	110.00	6.0	Ductile Iro	110.0	0.39	35.00	681.92	681.89	0.02	0.21	0.40
P-34	175.00	8.0	Ductile Iro	110.0	0.35	68.92	681.92	681.88	0.03	0.18	0.44
P-37	150.00	8.0	Ductile Iro	110.0	0.35	138.92	682.08	681.98	0.10	0.67	0.89
P-38	164.00	8.0	Ductile Iro	110.0	0.35	103.92	681.98	681.92	0.06	0.39	0.66
P-39	139.00	6.0	Ductile Iro	110.0	0.39	35.00	681.98	681.95	0.03	0.21	0.40
P-40	129.00	6.0	Ductile Iro	110.0	0.39	35.00	681.88	681.86	0.03	0.21	0.40
P-41	151.00	8.0	Ductile Iro	110.0	0.35	33.92	681.88	681.88	0.01	0.05	0.22
P-43	122.00	6.0	Ductile Iro	110.0	0.39	35.00	681.88	681.85	0.03	0.21	0.40
P-42	179.00	8.0	Ductile Iro	110.0	0.35	-1.08	681.88	681.88	0.00	0.00	0.01
P-45	121.00	6.0	Ductile Iro	110.0	0.50	35.00	681.88	681.85	0.03	0.21	0.40
P-44	169.00	8.0	Ductile Iro	110.0	0.35	-36.08	681.88	681.89	0.01	0.05	0.23
P-46	416.00	8.0	Ductile Iro	110.0	0.70	-71.08	681.89	681.97	0.08	0.19	0.45
P-47	181.00	6.0	Ductile Iro	110.0	0.39	35.00	681.89	681.85	0.04	0.21	0.40
P-48	26.00	8.0	Ductile Iro	100.0	1.67	35.00	690.31	690.31	0.00	0.11	0.22
P-49	173.00	8.0	Ductile Iro	110.0	0.78	35.00	689.26	689.25	0.01	0.05	0.22
P-50	124.00	8.0	Ductile Iro	110.0	0.20	35.00	689.25	689.24	0.01	0.05	0.22
P-51	237.00	8.0	Ductile Iro	110.0	0.35	35.00	689.24	689.23	0.01	0.05	0.22
P-56	489.00	8.0	Ductile Iro	110.0	0.35	6.60	681.96	681.96	0.00	0.00	0.04
P-57	508.00	12.0	Ductile Iro	100.0	0.00	-121.08	682.00	682.04	0.04	0.08	0.34
P-58	690.00	8.0	Ductile Iro	110.0	0.00	-6.60	681.96	681.96	0.00	0.00	0.04
P-59	96.00	8.0	Ductile Iro	100.0	0.00	-35.00	689.22	689.23	0.01	0.06	0.22

Scenario: 4320 W RIDGE RD Base
Steady State Analysis
Valve Report

Label	Elevation (ft)	Diameter (in)	Minor Loss Coefficient	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
W. meter/rp	427.00	8.0	0.00	Active	260.00	689.92	682.12	7.80
E. Meter/rp	437.00	8.0	0.00	Active	35.00	690.31	689.26	1.05

Scenario: 4320 W RIDGE RD Base



August 6, 2007

Monroe County Water Authority
P.O. Box 10999
475 Norris Drive
Rochester, NY 14610-0999
Attn: Mr. Thomas Stein

Re: Hampton Ridge Center
4320 West Ridge Road
Town of Greece, New York

Dear Mr. Stein:

Per your letter of May 21, 2007 to Gary Tajkowski, this response addresses the comments you raised for SEQR Review.

Hampton Ridge Center comprises roughly 67 acres of land located adjacent and west of the Shops at Hampton Ridge, West Ridge Road, and Town of Greece. This development will contain roughly 390,000 square feet of commercial space. Attached calculations show maximum anticipated demands based on a perspective development scenario. Average domestic demand would be 29 gpm and peak demand (10 peaking factor) would be 290 gpm. Fire flow demand is estimated at a maximum 1600 gpm which is a typical fire flow demand for a large format retailer.

Currently there is an existing 12" water line running east-west along the south side of West Ridge Road. In order to evaluate available flow and pressure to Hampton Ridge Center, a hypothetical water distribution system was modeled. This model is shown schematically on the attached sketch. Enclosed is the fire flow test results used in the analysis. The model assumes one new 12" water main bored under West Ridge Road (refer to node J-10 on the attached schematic plan). The 12" main will run west within the West Ridge Road right-of-way and terminate at the western property line of the proposed development (node J-14). A master meter pit and RPZ is modeled on the east (node P-48) and west (node P-17) ends of the site.

In response to the Monroe County Water Authority SEQR Review checklist dated May 21, 2007 (copy attached), we offer the following (Note: Items in Column 2 will be addressed once technical site plans are developed):

1. Nothing required at this time.
2. The anticipated peak domestic water demand is 290 gpm; fire demand is 1600 gpm.

200 First Federal Plaza, 28 East Main Street / Rochester, New York 14614-1909
585.232.5135 / 585.232.4652 fax

Buffalo, NY / Philadelphia, PA / Pittsburgh, PA / Hoboken, NJ / Toledo, OH / Lansing, MI / Ft. Lauderdale, FL / Jacksonville, FL

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3. We modeled two scenarios for Hampton Ridge Center and one of The Shops at Hampton Ridge using WaterCAD 7.0. Below is a chart summarizing the high and low pressures along with the node location for each scenario.

ANALYSIS SCENARIO	HIGH PRESSURE PRESSURE	NODE	LOW PRESSURE PRESSURE	NODE
<u>Hampton Ridge Center</u> Fire Flow @ 1,600 gpm Retail A	98.51	J-48	72.00	
<u>Hampton Ridge Center</u> Fire Flow @ 1,100 gpm Retail A	98.51	J-42/J-48	75.32	
<u>The Shops at Hampton Ridge</u> Fire Flow @ 1,600 gpm Secondary Retail	107.09	Hyd. #3/Hyd. #4	61.59	

Handwritten notes to the right of the table:

- 57 PSI (next to 72.00)
- 60.32 PSI (next to 75.32)
- ALB 59 PSI (next to 61.59)
- A bracket on the right side of the table groups the three rows with the handwritten text: "Suction 15 PSI into Low Pressure"

A copy of the Fire Flow Analysis Junction Reports has been attached for your use.

4. Nothing required at this time.
5. Nothing required at this time, however two master meters are being considered.
6. Nothing required at this time.
7. Nothing required at this time, however backflow preventors would accompany each master meter. An Engineer's Report will be submitted for review and approval as the design progresses.
8. Nothing required at this time.

We look forward to working with you throughout the design and construction of this water main along with the development of Hampton Ridge Center.

If you have any question, please do not hesitate to contact me at 232-5135.

Sincerely,

BERGMANN ASSOCIATES

Dan Christopher
Project Engineer

Encl.

Cc: John L. DiMarco, II – member, 4320 West Ridge, LLC
Mark E. Petroski, PE – Bergmann Associates

Anticipated Sanitary Sewer Loading:

1) Movie Theater: Assum 1000 seats $\Rightarrow$ 50,000 SF

$$1000 \text{ Seats} @ 3 \text{ gpd/seat} = \underline{3,000 \text{ gpd}}$$

Reference: NYSDEC Design Standards for Wastewater Treatment Works, Intermediate Sized Sewer Facility 1988

2) Retail, Bank & Pharmacy: 316,000 SF $\times$ 0.08 gpd = 25,280 gpd

3) Sitdown Restaurant (4): 24,000 SF $\Rightarrow$ Assume 121 seats/Restaurant
Total Seats = 121 seats $\times$ 4 = 484 seats

$$484 \text{ seats} \times 28 \text{ gpd/seat} = \underline{13,552 \text{ gpd}}$$

$$\underline{\text{Site Total} = 41,832 \text{ gpd}}$$

$$\text{ADF} = 41,832 \text{ gpd} \times 1/1440 \text{ M.N.} = 29 \text{ gpm}$$

$$\text{Peak Flow} = 29 \text{ gpm} \times 10 \text{ (Peaking Factor)} = \boxed{290 \text{ gpm}} \Rightarrow Q_{\text{peak}}$$

$$\underline{\text{Domestic Water Peak} = 290 \text{ gpm}}$$



Monroe County Water Authority
Engineering Department
475 Norris Drive
Rochester, NY 14610

Telephone: 585-442-2000
Fax: 585-442-0220

FAX TRANSMITTAL

DATE:

5/27/05

TO:

MARK PETROSKI

COMPANY:

Bergmann Associates

FAX #:

325-8306

FROM:

Steve Gould

NUMBER OF PAGES: 3
(Including cover sheet)

FILE NO.: _____

If you do not receive all pages, please call sender at (585) 442-2000.

☐

Yes

☒

No

HARD COPY TO FOLLOW / REGULAR MAIL

NOTES:

Mark
Petroski

Flow Data Calculation Sheet

Town : Greece

Location : Ridge Rd.

Date and Time : 5/24/05 @ 10:55

Main Size : 12"

Zone : 700 Zone

Conducted By: Ed and Jim

Flow Nozzle : 2.5

Flow Hydrant

Static: 115 psi

Pitot: 88 psi

Style: A 1.00

Residual Hydrant

Static: 115 psi

Residual: 100 psi

Corrected

115 psi

100 psi

Calculations

Q Observed : 1583 gpm

Q at 20psi : 4289 gpm

System Status

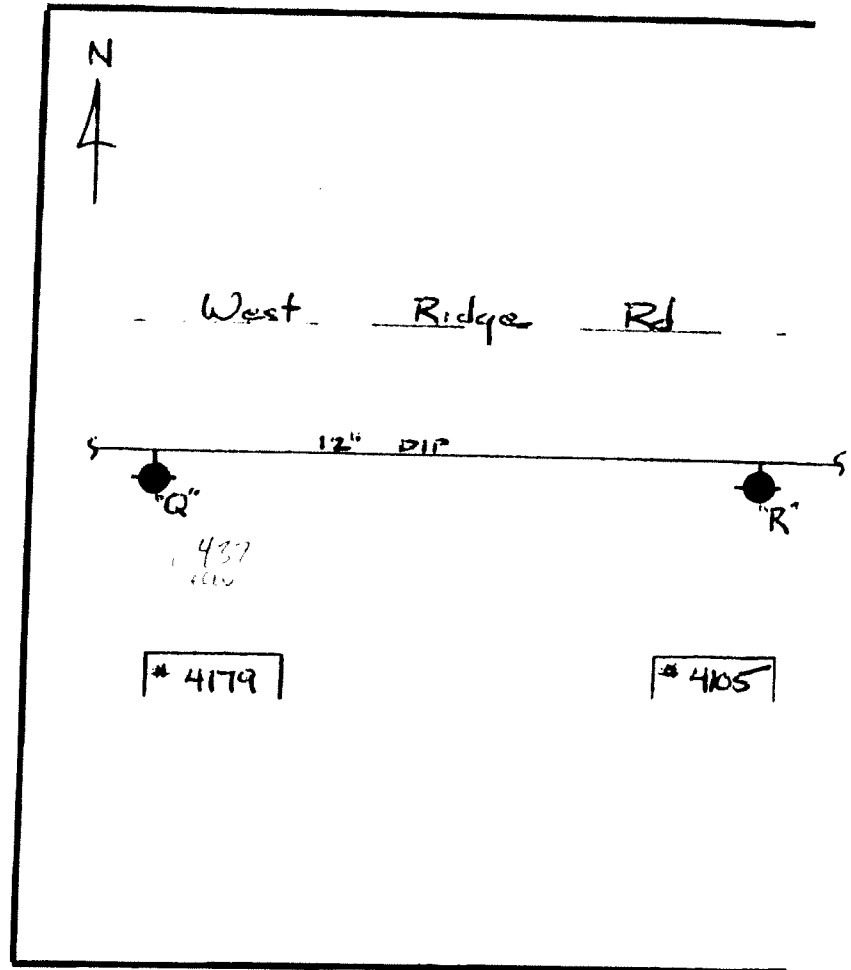
Pumps : Lee Rd Dis. = 76 psi

Tanks : Harek = 692.5'

Other :

PLEASE NOTE THE FOLLOWING INFORMATION

The pressure and flow data provided herein represents the actual values at this location in the distribution system on this date and time. These values can vary greatly depending on demands, operational parameters, system configurations, subsequent modifications, and other related criteria. If specific values or ranges of hydraulic data such as flows and/or pressures will be required, we strongly urge you to contact the MCWA's engineering department to evaluate whether this location in our system can satisfy your specific needs. Please contact Tom Stein at 442-2001, extension 244, with any questions or concerns.



61 DATA and OPERATING PARAMETERS

LOCATION: Grease

Ridge Rd

REQUESTED BY:

Bergman Eng.

FLOW HYDRANT # 4179

Static: 114

Plot: 88

Style:

RESIDUAL HYDRANT # 4283

Static: 114

Residual: 99

Style:

ELEVATION DIFFERENCE:

DATE and TIME: 11/13/03 9:30

SYSTEM STATUS

Pump(s): Lee Rd Discharge

84 PSI

Tank(s): Hazek 690'

OTHER:

MISCELLANEOUS:

Conducted by: Ed H. Mary-J

CALCULATIONS:

$$Q_{observed} = 27 (1.48)^{1.48} \sqrt{P_{fric}}$$

$$= 27 (2.5)^{1.48} \sqrt{88}$$

$$= 1583 \text{ gpm}$$

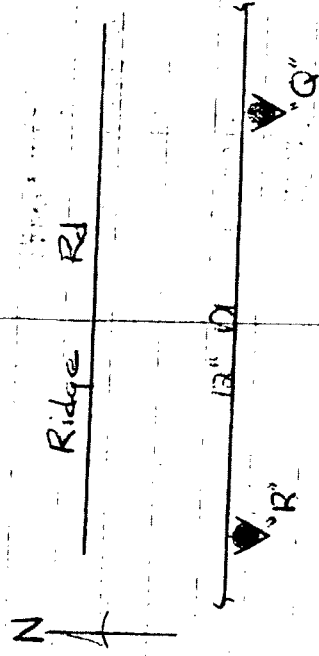
$$Q_{at 20 \text{ psi}} = (Q_{observed}) \left(\frac{Static - 20/Static - Residual}{0.54} \right)^{0.54}$$

$$= (1583) \left(\frac{114 - 20}{114 - 99} \right)^{0.54}$$

$$= (1583) \left(\frac{94}{15} \right)^{0.54}$$

$$= 4265 \text{ gpm}$$

SKETCH (Distribution) Plate No. 462





MONROE COUNTY WATER AUTHORITY

P.O. Box 10999 • 475 Norris Drive • Rochester, New York 14610-0999

Phone: (585) 442-2000 Fax: (585) 442-0220

May 21, 2007

Gary Tajkowski
Town of Greece
1 Vince Tofany Boulevard
Rochester, New York 14612

Re: Lead Agency Request for SEQR – Hampton Ridge Center
Town of Greece

Dear Mr. Tajkowski:

The Monroe County Water Authority concurs with the Town Board of the Town of Greece acting as Lead Agency for the above referenced project. Attached is an initial checklist of items that the Monroe County Water Authority requests be addressed as part of our review and approval process for this project. Given that the level of detail presented is only conceptual in nature, this list is preliminary and may be added to, as more detailed plans are presented.

If you have any questions regarding this letter, please contact me at 442-2000, extension 244.

Truly yours,

Thomas K. Stein
Construction Engineer

tkS/dd
Attachment

xc: S. Gould, P.E.

RECEIVED
2007 MAY 23 PM 12:03
TOWN OF GREECE
DEVELOPMENT SERVICES



Monroe County Water Authority

SEQR REVIEW

Date: May 21, 2007

Project: Hampton Ridge Center

Town: Greece

ITEM

**Address in
SEQR Review**

**Required for
MCWA Approval**

- | | | |
|---|-------------------------------------|-------------------------------------|
| 1. Plans and specifications shall be developed in accordance with MCWA standards and submitted for review and approval. | ☐ | ☒ |
| 2. Water demand projections (domestic, industrial and fire-flows) shall be presented. | ☒ | ☒ |
| 3. Hydraulic calculations shall be submitted. | ☒ | ☒ |
| 4. For any facility outside of a public R.O.W., prepare and submit easement documents. | ☐ | ☐ |
| 5. Master metering will likely be required for this project. | ☐ | ☒ |
| 6. Looping of the water system will be required. | ☐ | ☐ |
| 7. Backflow issues must be addressed, including submission of the Engineer's Report. | ☐ | ☒ |
| 8. Additional comments: | ☐ | ☐ |

Scenario: 4320 FF RET A

Steady State Analysis

Junction Report

Hampton Ridge Center Fire Flow @ 1,600 gpm Retn. 1 A

Label	Elevation (ft)	Zone	Type	Base Flow (gpm)	Pattern	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8	438.00	Zone	Demand	0.00	Fixed	0.00	657.57	95.00
J-9	439.00	Zone	Demand	0.00	Fixed	0.00	650.68	91.59
J-10	438.00	Zone	Demand	0.00	Fixed	0.00	648.77	91.19
J-14	430.00	Zone	Demand	0.00	Fixed	0.00	632.42	87.58
J-15	400.00	Zone	Demand	0.00	Fixed	0.00	583.90	79.57
J-16	400.00	Zone	Demand	0.00	Fixed	0.00	581.06	78.34
J-17	400.00	Zone	Demand	0.00	Fixed	0.00	574.73	75.60
RETAIL A	401.00	Zone	Demand	1,600.00	Fixed	1,600.00	567.51	72.04
HYD 3	392.00	Zone	Demand	0.00	Fixed	0.00	581.54	82.01
HYD 4	392.00	Zone	Demand	0.00	Fixed	0.00	582.19	82.29
J-21	399.00	Zone	Demand	0.00	Fixed	0.00	585.62	80.74
HYD 1	408.00	Zone	Demand	0.00	Fixed	0.00	587.96	77.86
HYD 2	408.00	Zone	Demand	0.00	Fixed	0.00	587.96	77.86
J-24	413.00	Zone	Demand	0.00	Fixed	0.00	594.65	78.59
J-25	413.00	Zone	Demand	0.00	Fixed	0.00	593.14	77.94
J-26	412.00	Zone	Demand	0.00	Fixed	0.00	591.18	77.52
HYD 5	412.00	Zone	Demand	0.00	Fixed	0.00	591.18	77.52
J-28	412.00	Zone	Demand	0.00	Fixed	0.00	591.64	77.72
RETAIL B	414.00	Zone	Demand	35.00	Fixed	35.00	591.61	76.84
J-30	410.00	Zone	Demand	0.00	Fixed	0.00	590.26	77.99
J-31	413.00	Zone	Demand	0.00	Fixed	0.00	593.12	77.93
RETAIL C	414.00	Zone	Demand	35.00	Fixed	35.00	593.08	77.48
RETAIL D	412.00	Zone	Demand	35.00	Fixed	35.00	590.23	77.11
J-34	410.00	Zone	Demand	0.00	Fixed	0.00	589.22	77.54
RETAIL E	412.00	Zone	Demand	35.00	Fixed	35.00	589.19	76.66
J-36	408.00	Zone	Demand	0.00	Fixed	0.00	588.17	77.95
RETAIL F	410.00	Zone	Demand	35.00	Fixed	35.00	588.14	77.07
J-38	402.00	Zone	Demand	0.00	Fixed	0.00	587.33	80.18
RETAIL G	404.00	Zone	Demand	35.00	Fixed	35.00	587.29	79.30
J-40	423.00	Zone	Demand	0.00	Fixed	0.00	647.71	97.22
J-41	422.00	Zone	Demand	0.00	Fixed	0.00	647.70	97.65
J-42	420.00	Zone	Demand	0.00	Fixed	0.00	647.68	98.51
HYD 9	400.00	Zone	Demand	0.00	Fixed	0.00	583.19	79.26
J-48	420.00	Zone	Demand	35.00	Fixed	35.00	647.68	98.51

Scenario: 4320 FF RET A
Steady State Analysis
Pipe Report

Label	Length (ft)	Diameter (in)	Material	Hazen- Williams C	Check Valve?	Minor Loss Coefficient	Control Status	Discharge (gpm)	Upstream Structure Hydraulic Grade (ft)	Downstream Structure Hydraulic Grade (ft)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)
P-9	526.00	12.0	Ductile Iro	100.0	false	0.35	Open	-1,845.00	650.68	657.57	6.89	13.09
P-10	107.00	12.0	Ductile Iro	100.0	false	1.28	Open	1,845.00	650.68	648.77	1.92	17.90
P-14	1.00	30.0	Ductile Iro	100.0	false	0.35	Open	-1,845.00	657.57	657.58	0.00	3.97
P-15	1.00	30.0	Ductile Iro	100.0	false	0.00	Open	-1,845.00	438.00	438.00	0.00	0.15
P-16	1,299.00	12.0	Ductile Iro	100.0	false	0.70	Open	1,810.00	648.77	632.42	16.35	12.58
P-17	27.00	12.0	Ductile Iro	100.0	true	0.80	Open	1,810.00	632.42	631.76	0.66	24.49
P-19	352.00	12.0	Ductile Iro	100.0	false	0.50	Open	1,404.36	583.90	581.06	2.84	8.08
P-20	60.00	8.0	Ductile Iro	100.0	false	1.28	Open	1,600.00	581.06	574.73	6.33	105.45
P-21	93.00	8.0	Ductile Iro	100.0	false	0.39	Open	1,600.00	574.73	567.51	7.23	77.70
P-22	330.00	8.0	Ductile Iro	100.0	false	0.35	Open	-195.64	581.06	581.54	0.49	1.47
P-23	431.00	8.0	Ductile Iro	100.0	false	0.80	Open	-195.64	581.54	582.19	0.64	1.49
P-25	163.00	12.0	Ductile Iro	100.0	false	0.35	Open	1,600.00	585.62	583.90	1.72	10.53
P-26	330.00	12.0	Ductile Iro	100.0	false	1.28	Open	-1,261.39	585.62	587.96	2.34	7.11
P-27	363.00	8.0	Ductile Iro	100.0	false	0.80	Open	0.00	587.96	587.96	0.00	0.00
P-28	91.00	12.0	Ductile Iro	100.0	false	0.78	Open	1,810.00	596.09	594.65	1.44	15.87
P-30	197.00	12.0	Ductile Iro	100.0	false	1.28	Open	1,261.39	594.65	593.14	1.50	7.63
P-31	285.00	12.0	Ductile Iro	100.0	false	0.80	Open	1,261.39	593.14	591.18	1.96	6.89
P-32	425.00	8.0	Ductile Iro	100.0	false	0.80	Open	0.00	591.18	591.18	0.00	0.00
P-35	110.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	591.64	591.61	0.03	0.25
P-34	175.00	8.0	Ductile Iro	100.0	false	0.35	Open	478.61	591.64	590.26	1.38	7.88
P-37	150.00	8.0	Ductile Iro	100.0	false	0.35	Open	548.61	594.65	593.12	1.53	10.21
P-38	164.00	8.0	Ductile Iro	100.0	false	0.35	Open	513.61	593.12	591.64	1.48	9.00
P-39	139.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	593.12	593.08	0.03	0.25
P-40	129.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	590.26	590.23	0.03	0.25
P-41	151.00	8.0	Ductile Iro	100.0	false	0.35	Open	443.61	590.26	589.22	1.04	6.88
P-43	122.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	589.22	589.19	0.03	0.25
P-42	179.00	8.0	Ductile Iro	100.0	false	0.35	Open	408.61	589.22	588.17	1.05	5.87
P-45	121.00	6.0	Ductile Iro	100.0	false	0.50	Open	35.00	588.17	588.14	0.03	0.25
P-44	169.00	8.0	Ductile Iro	100.0	false	0.35	Open	373.61	588.17	587.33	0.84	4.98
P-46	416.00	8.0	Ductile Iro	100.0	false	0.70	Open	338.61	587.33	585.62	1.71	4.12
P-47	181.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	587.33	587.29	0.04	0.25
P-48	26.00	8.0	Ductile Iro	100.0	true	1.67	Open	35.00	648.77	648.77	0.00	0.11
P-49	173.00	8.0	Ductile Iro	100.0	false	0.78	Open	35.00	647.72	647.71	0.01	0.06
P-50	124.00	8.0	Ductile Iro	100.0	false	0.20	Open	35.00	647.71	647.70	0.01	0.06
P-51	237.00	8.0	Ductile Iro	100.0	false	0.35	Open	35.00	647.70	647.68	0.01	0.06
P-56	489.00	8.0	Ductile Iro	100.0	false	0.35	Open	195.64	583.90	583.19	0.72	1.46
P-57	508.00	12.0	Ductile Iro	100.0	false	0.00	Open	-1,261.39	587.96	591.18	3.22	6.33
P-58	690.00	8.0	Ductile Iro	100.0	false	0.00	Open	-195.64	582.19	583.19	1.00	1.45
P-59	96.00	8.0	Ductile Iro	100.0	false	0.00	Open	-35.00	647.68	647.68	0.01	0.06

Scenario: 4320 FF RET A
Steady State Analysis
Valve Report

Label	Elevation (ft)	Diameter (in)	Minor Loss Coefficient	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
W. meter/rp	427.00	8.0	0.00	Active	1,810.00	631.76	596.09	35.67
E. Meter/rp	437.00	8.0	0.00	Active	35.00	648.77	647.72	1.05

Scenario: 4320 FF HYD 9

Steady State Analysis

Junction Report

Hampton Ridge Center Fire Flow @ 1,100 gpm Retail A

Label	Elevation (ft)	Zone	Type	Base Flow (gpm)	Pattern	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8	438.00	Zone	Demand	0.00	Fixed	0.00	657.57	95.00
J-9	439.00	Zone	Demand	0.00	Fixed	0.00	650.68	91.59
J-10	438.00	Zone	Demand	0.00	Fixed	0.00	648.77	91.19
J-14	430.00	Zone	Demand	0.00	Fixed	0.00	632.42	87.58
J-15	400.00	Zone	Demand	0.00	Fixed	0.00	583.90	79.57
J-16	400.00	Zone	Demand	0.00	Fixed	0.00	581.78	78.65
J-17	400.00	Zone	Demand	0.00	Fixed	0.00	578.68	77.31
RETAIL A	401.00	Zone	Demand	1,100.00	Fixed	1,100.00	575.09	75.32
HYD 3	392.00	Zone	Demand	0.00	Fixed	0.00	581.65	82.05
HYD 4	392.00	Zone	Demand	0.00	Fixed	0.00	581.47	81.97
J-21	399.00	Zone	Demand	0.00	Fixed	0.00	585.62	80.74
HYD 1	408.00	Zone	Demand	0.00	Fixed	0.00	587.96	77.86
HYD 2	408.00	Zone	Demand	0.00	Fixed	0.00	587.96	77.86
J-24	413.00	Zone	Demand	0.00	Fixed	0.00	594.65	78.59
J-25	413.00	Zone	Demand	0.00	Fixed	0.00	593.14	77.94
J-26	412.00	Zone	Demand	0.00	Fixed	0.00	591.18	77.52
HYD 5	412.00	Zone	Demand	0.00	Fixed	0.00	591.18	77.52
J-28	412.00	Zone	Demand	0.00	Fixed	0.00	591.64	77.72
RETAIL B	414.00	Zone	Demand	35.00	Fixed	35.00	591.61	76.84
J-30	410.00	Zone	Demand	0.00	Fixed	0.00	590.26	77.99
J-31	413.00	Zone	Demand	0.00	Fixed	0.00	593.12	77.93
RETAIL C	414.00	Zone	Demand	35.00	Fixed	35.00	593.08	77.48
RETAIL D	412.00	Zone	Demand	35.00	Fixed	35.00	590.23	77.11
J-34	410.00	Zone	Demand	0.00	Fixed	0.00	589.22	77.54
RETAIL E	412.00	Zone	Demand	35.00	Fixed	35.00	589.19	76.66
J-36	408.00	Zone	Demand	0.00	Fixed	0.00	588.17	77.95
RETAIL F	410.00	Zone	Demand	35.00	Fixed	35.00	588.14	77.07
J-38	402.00	Zone	Demand	0.00	Fixed	0.00	587.33	80.18
RETAIL G	404.00	Zone	Demand	35.00	Fixed	35.00	587.29	79.30
J-40	423.00	Zone	Demand	0.00	Fixed	0.00	647.71	97.22
J-41	422.00	Zone	Demand	0.00	Fixed	0.00	647.70	97.65
J-42	420.00	Zone	Demand	0.00	Fixed	0.00	647.68	98.51
HYD 9	400.00	Zone	Demand	500.00	Fixed	500.00	581.19	78.39
J-48	420.00	Zone	Demand	35.00	Fixed	35.00	647.68	98.51

Scenario: 4320 FF HYD 9

Steady State Analysis

Pipe Report

Label	Length (ft)	Diameter (in)	Material	Hazen- Williams C	Check Valve?	Minor Loss Coefficient	Control Status	Discharge (gpm)	Upstream Structure Hydraulic Grade (ft)	Downstream Structure Hydraulic Grade (ft)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)
P-9	526.00	12.0	Ductile Iro	100.0	false	0.35	Open	1,845.00	650.68	657.57	6.89	13.09
P-10	107.00	12.0	Ductile Iro	100.0	false	1.28	Open	1,845.00	650.68	648.77	1.92	17.90
P-14	1.00	30.0	Ductile Iro	100.0	false	0.35	Open	1,845.00	657.57	657.58	0.00	3.97
P-15	1.00	30.0	Ductile Iro	100.0	false	0.00	Open	1,845.00	438.00	438.00	0.00	0.15
P-16	1,299.00	12.0	Ductile Iro	100.0	false	0.70	Open	1,810.00	648.77	632.42	16.35	12.58
P-17	27.00	12.0	Ductile Iro	100.0	true	0.80	Open	1,810.00	632.42	631.76	0.66	24.49
P-19	352.00	12.0	Ductile Iro	100.0	false	0.50	Open	1,198.53	583.90	581.78	2.12	6.02
P-20	60.00	8.0	Ductile Iro	100.0	false	1.28	Open	1,100.00	581.78	578.68	3.11	51.75
P-21	93.00	8.0	Ductile Iro	100.0	false	0.39	Open	1,100.00	578.68	575.09	3.59	38.64
P-22	330.00	8.0	Ductile Iro	100.0	false	0.35	Open	98.53	581.78	581.65	0.14	0.41
P-23	431.00	8.0	Ductile Iro	100.0	false	0.80	Open	98.53	581.65	581.47	0.18	0.42
P-25	163.00	12.0	Ductile Iro	100.0	false	0.35	Open	1,600.00	585.62	583.90	1.72	10.53
P-26	330.00	12.0	Ductile Iro	100.0	false	1.28	Open	1,261.39	585.62	587.96	2.34	7.11
P-27	363.00	8.0	Ductile Iro	100.0	false	0.80	Open	0.00	587.96	587.96	0.00	0.00
P-28	91.00	12.0	Ductile Iro	100.0	false	0.78	Open	1,810.00	596.09	594.65	1.44	15.87
P-30	197.00	12.0	Ductile Iro	100.0	false	1.28	Open	1,261.39	594.65	593.14	1.50	7.63
P-31	285.00	12.0	Ductile Iro	100.0	false	0.80	Open	1,261.39	593.14	591.18	1.96	6.89
P-32	425.00	8.0	Ductile Iro	100.0	false	0.80	Open	0.00	591.18	591.18	0.00	0.00
P-35	110.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	591.64	591.61	0.03	0.25
P-34	175.00	8.0	Ductile Iro	100.0	false	0.35	Open	478.61	591.64	590.26	1.38	7.88
P-37	150.00	8.0	Ductile Iro	100.0	false	0.35	Open	548.61	594.65	593.12	1.53	10.21
P-38	164.00	8.0	Ductile Iro	100.0	false	0.35	Open	513.61	593.12	591.64	1.48	9.00
P-39	139.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	593.12	593.08	0.03	0.25
P-40	129.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	590.26	590.23	0.03	0.25
P-41	151.00	8.0	Ductile Iro	100.0	false	0.35	Open	443.61	590.26	589.22	1.04	6.88
P-43	122.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	589.22	589.19	0.03	0.25
P-42	179.00	8.0	Ductile Iro	100.0	false	0.35	Open	408.61	589.22	588.17	1.05	5.87
P-45	121.00	6.0	Ductile Iro	100.0	false	0.50	Open	35.00	588.17	588.14	0.03	0.25
P-44	169.00	8.0	Ductile Iro	100.0	false	0.35	Open	373.61	588.17	587.33	0.84	4.98
P-46	416.00	8.0	Ductile Iro	100.0	false	0.70	Open	338.61	587.33	585.62	1.71	4.12
P-47	181.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	587.33	587.29	0.04	0.25
P-48	26.00	8.0	Ductile Iro	100.0	true	1.67	Open	35.00	648.77	648.77	0.00	0.11
P-49	173.00	8.0	Ductile Iro	100.0	false	0.78	Open	35.00	647.72	647.71	0.01	0.06
P-50	124.00	8.0	Ductile Iro	100.0	false	0.20	Open	35.00	647.71	647.70	0.01	0.06
P-51	237.00	8.0	Ductile Iro	100.0	false	0.35	Open	35.00	647.70	647.68	0.01	0.06
P-56	489.00	8.0	Ductile Iro	100.0	false	0.35	Open	401.47	583.90	581.19	2.71	5.55
P-57	508.00	12.0	Ductile Iro	100.0	false	0.00	Open	1,261.39	587.96	591.18	3.22	6.33
P-58	690.00	8.0	Ductile Iro	100.0	false	0.00	Open	98.53	581.47	581.19	0.28	0.41
P-59	96.00	8.0	Ductile Iro	100.0	false	0.00	Open	-35.00	647.68	647.68	0.01	0.06

Scenario: 4320 FF HYD 9
Steady State Analysis
Valve Report

Label	Elevation (ft)	Diameter (in)	Minor Loss Coefficient	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
W. meter/rp	427.00	8.0	0.00	Active	1,810.00	631.76	596.09	35.67
E. Meter/rp	437.00	8.0	0.00	Active	35.00	648.77	647.72	1.05

Scenario: 4320 FF J48

Steady State Analysis

Junction Report

The Shops at Hampton Ridge Fire flow @ 1,600 gpm

Label	Elevation (ft)	Zone	Type	Base Flow (gpm)	Pattern	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8	438.00	Zone	Demand	0.00	Fixed	0.00	656.87	94.70
J-9	439.00	Zone	Demand	0.00	Fixed	0.00	649.88	91.24
J-10	438.00	Zone	Demand	0.00	Fixed	0.00	647.94	90.83
J-14	430.00	Zone	Demand	0.00	Fixed	0.00	647.49	94.10
J-15	400.00	Zone	Demand	0.00	Fixed	0.00	639.51	103.63
J-16	400.00	Zone	Demand	0.00	Fixed	0.00	639.51	103.62
J-17	400.00	Zone	Demand	0.00	Fixed	0.00	639.50	103.62
RETAIL A	401.00	Zone	Demand	50.00	Fixed	50.00	639.49	103.18
HYD 3	392.00	Zone	Demand	0.00	Fixed	0.00	639.51	107.09
HYD 4	392.00	Zone	Demand	0.00	Fixed	0.00	639.51	107.09
J-21	399.00	Zone	Demand	0.00	Fixed	0.00	639.52	104.06
HYD 1	408.00	Zone	Demand	0.00	Fixed	0.00	639.55	100.18
HYD 2	408.00	Zone	Demand	0.00	Fixed	0.00	639.55	100.18
J-24	413.00	Zone	Demand	0.00	Fixed	0.00	639.64	98.05
J-25	413.00	Zone	Demand	0.00	Fixed	0.00	639.62	98.05
J-26	412.00	Zone	Demand	0.00	Fixed	0.00	639.59	98.47
HYD 5	412.00	Zone	Demand	0.00	Fixed	0.00	639.59	98.47
J-28	412.00	Zone	Demand	0.00	Fixed	0.00	639.45	98.41
RETAIL B	414.00	Zone	Demand	35.00	Fixed	35.00	639.42	97.53
J-30	410.00	Zone	Demand	0.00	Fixed	0.00	639.41	99.26
J-31	413.00	Zone	Demand	0.00	Fixed	0.00	639.52	98.00
RETAIL C	414.00	Zone	Demand	35.00	Fixed	35.00	639.49	97.56
RETAIL D	412.00	Zone	Demand	35.00	Fixed	35.00	639.38	98.38
J-34	410.00	Zone	Demand	0.00	Fixed	0.00	639.40	99.25
RETAIL E	412.00	Zone	Demand	35.00	Fixed	35.00	639.37	98.37
J-36	408.00	Zone	Demand	0.00	Fixed	0.00	639.40	100.12
RETAIL F	410.00	Zone	Demand	35.00	Fixed	35.00	639.37	99.24
J-38	402.00	Zone	Demand	0.00	Fixed	0.00	639.42	102.72
RETAIL G	404.00	Zone	Demand	35.00	Fixed	35.00	639.37	101.83
J-40	423.00	Zone	Demand	0.00	Fixed	0.00	595.66	74.70
J-41	422.00	Zone	Demand	0.00	Fixed	0.00	586.54	71.19
J-42	420.00	Zone	Demand	0.00	Fixed	0.00	569.17	64.54
HYD 9	400.00	Zone	Demand	0.00	Fixed	0.00	639.51	103.63
J-48	420.00	Zone	Demand	1,600.00	Fixed	1,600.00	562.36	61.59

Scenario: 4320 FF J48

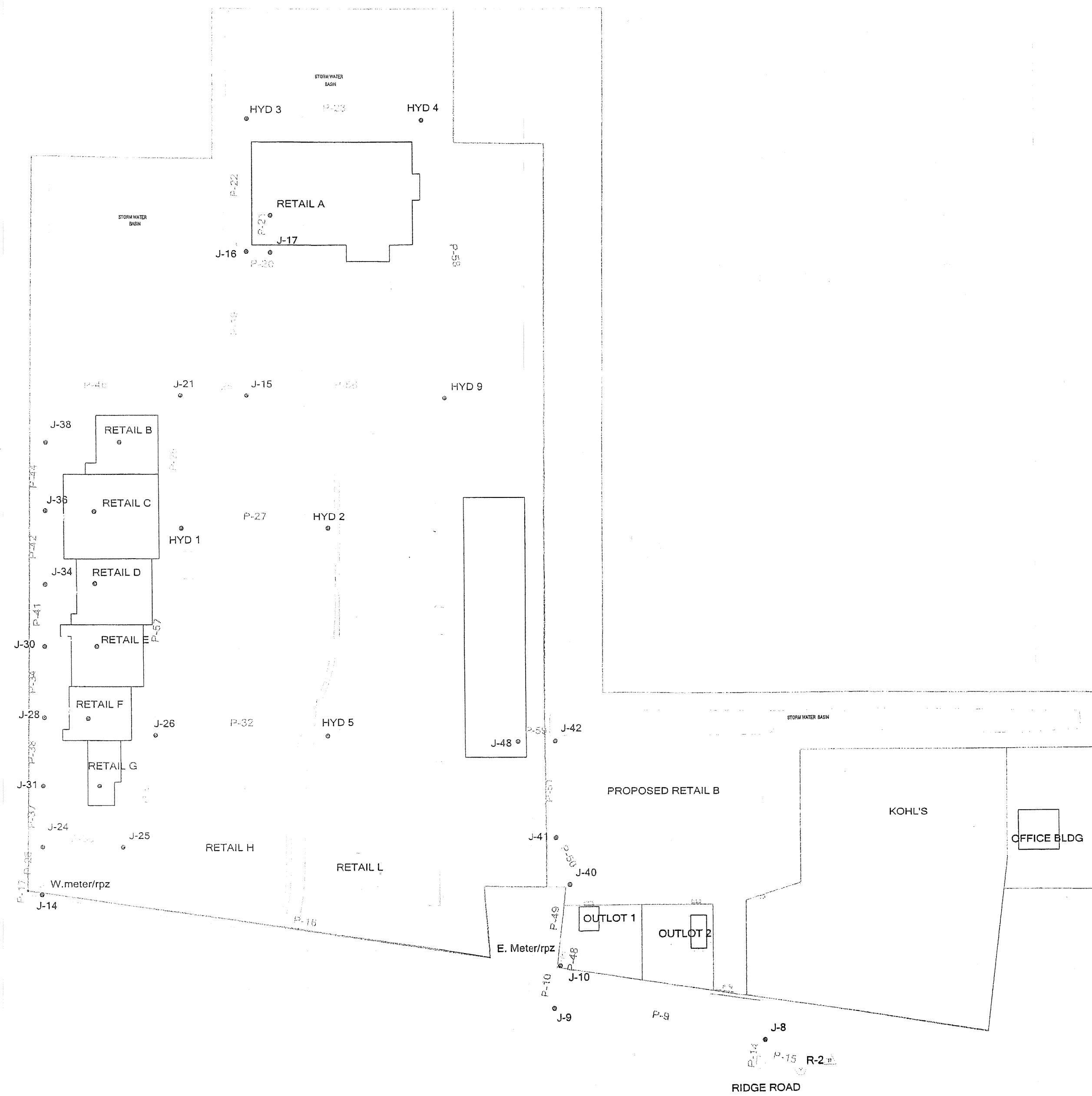
Steady State Analysis

Pipe Report

Label	Length (ft)	Diameter (in)	Material	Hazen- Williams C	Check Valve?	Minor Loss Coefficient	Control Status	Discharge (gpm)	Upstream Structure Hydraulic Grade (ft)	Downstream Structure Hydraulic Grade (ft)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)
P-9	526.00	12.0	Ductile Iro	100.0	false	0.35	Open	1,860.00	649.88	656.87	6.99	13.29
P-10	107.00	12.0	Ductile Iro	100.0	false	1.28	Open	1,860.00	649.88	647.94	1.94	18.17
P-14	1.00	30.0	Ductile Iro	100.0	false	0.35	Open	1,860.00	656.87	656.88	0.00	3.97
P-15	1.00	30.0	Ductile Iro	100.0	false	0.00	Open	1,860.00	438.00	438.00	0.00	0.15
P-16	299.00	12.0	Ductile Iro	100.0	false	0.70	Open	260.00	647.94	647.49	0.45	0.34
P-17	27.00	12.0	Ductile Iro	100.0	true	0.80	Open	260.00	647.49	647.47	0.02	0.59
P-19	352.00	12.0	Ductile Iro	100.0	false	0.50	Open	43.37	639.51	639.51	0.00	0.01
P-20	60.00	8.0	Ductile Iro	100.0	false	1.28	Open	50.00	639.51	639.50	0.01	0.15
P-21	93.00	8.0	Ductile Iro	100.0	false	0.39	Open	50.00	639.50	639.49	0.01	0.12
P-22	330.00	8.0	Ductile Iro	100.0	false	0.35	Open	-6.63	639.51	639.51	0.00	0.00
P-23	431.00	8.0	Ductile Iro	100.0	false	0.80	Open	-6.63	639.51	639.51	0.00	0.00
P-25	163.00	12.0	Ductile Iro	100.0	false	0.35	Open	50.00	639.52	639.51	0.00	0.02
P-26	330.00	12.0	Ductile Iro	100.0	false	1.28	Open	-123.35	639.52	639.55	0.03	0.09
P-27	363.00	8.0	Ductile Iro	100.0	false	0.80	Open	0.00	639.55	639.55	0.00	0.00
P-28	91.00	12.0	Ductile Iro	100.0	false	0.78	Open	260.00	639.67	639.64	0.04	0.41
P-30	197.00	12.0	Ductile Iro	100.0	false	1.28	Open	123.35	639.64	639.62	0.02	0.10
P-31	285.00	12.0	Ductile Iro	100.0	false	0.80	Open	123.35	639.62	639.59	0.03	0.09
P-32	425.00	8.0	Ductile Iro	100.0	false	0.80	Open	0.00	639.59	639.59	0.00	0.00
P-35	110.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	639.45	639.42	0.03	0.25
P-34	175.00	8.0	Ductile Iro	100.0	false	0.35	Open	66.65	639.45	639.41	0.04	0.20
P-37	150.00	8.0	Ductile Iro	100.0	false	0.35	Open	136.65	639.64	639.52	0.12	0.77
P-38	164.00	8.0	Ductile Iro	100.0	false	0.35	Open	101.65	639.52	639.45	0.07	0.44
P-39	139.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	639.52	639.49	0.03	0.25
P-40	129.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	639.41	639.38	0.03	0.25
P-41	151.00	8.0	Ductile Iro	100.0	false	0.35	Open	31.65	639.41	639.40	0.01	0.05
P-43	122.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	639.40	639.37	0.03	0.25
P-42	179.00	8.0	Ductile Iro	100.0	false	0.35	Open	-3.35	639.40	639.40	0.00	0.00
P-45	121.00	6.0	Ductile Iro	100.0	false	0.50	Open	35.00	639.40	639.37	0.03	0.25
P-44	169.00	8.0	Ductile Iro	100.0	false	0.35	Open	-38.35	639.40	639.42	0.01	0.07
P-46	416.00	8.0	Ductile Iro	100.0	false	0.70	Open	-73.35	639.42	639.52	0.10	0.24
P-47	181.00	6.0	Ductile Iro	100.0	false	0.39	Open	35.00	639.42	639.37	0.04	0.25
P-48	26.00	8.0	Ductile Iro	100.0	true	1.67	Open	1,600.00	647.94	643.39	4.55	174.92
P-49	173.00	8.0	Ductile Iro	100.0	false	0.78	Open	1,600.00	609.19	595.66	13.53	78.21
P-50	124.00	8.0	Ductile Iro	100.0	false	0.20	Open	1,600.00	595.66	586.54	9.12	73.52
P-51	237.00	8.0	Ductile Iro	100.0	false	0.35	Open	1,600.00	586.54	569.17	17.37	73.30
P-56	489.00	8.0	Ductile Iro	100.0	false	0.35	Open	6.63	639.51	639.51	0.00	0.00
P-57	508.00	12.0	Ductile Iro	100.0	false	0.00	Open	-123.35	639.55	639.59	0.04	0.09
P-58	690.00	8.0	Ductile Iro	100.0	false	0.00	Open	-6.63	639.51	639.51	0.00	0.00
P-59	96.00	8.0	Ductile Iro	100.0	false	0.00	Open	-1,600.00	562.36	569.17	6.81	70.91

Scenario: 4320 FF J48 Steady State Analysis Valve Report

Label	Elevation (ft)	Diameter (in)	Minor Loss Coefficient	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
W. meter/rp	427.00	8.0	0.00	Active	260.00	647.47	639.67	7.80
E. Meter/rp	437.00	8.0	0.00	Active	1,600.00	643.39	609.19	34.20





July 26, 2007

Monroe County Pure Waters
444 East Henrietta Road
Building 15
Rochester, NY 14620
Attn: Mr. Kevin Quinn

Re: Hampton Ridge Center Retail Development
4320 West Ridge Road
Town of Greece, New York

Dear Mr. Quinn:

The property described above is roughly 67 acres of land adjacent and west of the Shops at Hampton Ridge. The developer would like to continue commercial/retail development to the west and up to property adjoining Vanderstyn Toyota. Hampton Ridge Center, as we refer to this project, would contain roughly 390,000 square feet of development. This development is envisioned to contain retail, banks, movie theater and restaurants.

As you may be aware, there is another development proposed adjacent to this site, on the south side of West Ridge Road. This development, Southwestern Commons, will be a mixed use consisting of retail, banks, restaurants and senior living residence.

The anticipated sanitary flows are:

Hampton Ridge Center	116 gpm
Southwestern Commons	<u>400 gpm</u>
Total	516 gpm

To support these two proposed developments, the existing 15" dia. sanitary sewer at the intersection of Images Way and Daffodil Trail will be extended south. The Town of Greece has required that this extension be a 15" pipe. Per Ten State Standards, a 15" dia. pipe at a minimum slope of 0.15% will carry a flow of 1,150 gpm.

Please confirm that there is capacity within your existing system to support the anticipated flows from these two proposed developments. I have attached sanitary sewer loading calculations along with sketches showing the anticipated 15" sanitary sewer extension route and a breakdown of loading, per development, for you use.



We look forward to working with you throughout the design and construction of this sanitary sewer extension along with the development of Hampton Ridge Center.

If you have any question, please do not hesitate to contact me at 232-5135.

Sincerely,

BERGMANN ASSOCIATES

Dan Christopher
Project Engineer

Encl.

Cc: John L. DiMarco, II – member, 4320 West Ridge, LLC
Mark E. Petroski, PE – Bergmann Associates

I:\DiMarco Group\6237-00\Correspondence\Letters Memos\MCPW dgeis letter 7-25-07.doc

Anticipated Sanitary Sewer Loading:

1) Movie Theater: Assume 1,000 Seats $\Rightarrow$ 50,000 SF

$$1000 \text{ seats} @ 3 \text{ gpd / seat} = \underline{3,000 \text{ gpd}}$$

Reference: NYSDEC Design Standards for Wastewater Treatment Works, Intermediate Sized Sewerage Facility 1988

2) Retail, Bank & Pharmacy: 316,000 SF $\times$ 0.08 gpd = 25,280 gpd

3) Sit down Restaurant (4): 24,000 SF $\Rightarrow$ Assume 121 seats / Restaurant

$$484 \text{ seats} \times 28 \text{ gpd / seat} = \underline{13,552 \text{ gpd}}$$

Total Seats = 121 $\times$ 4 = 484 seats

$$\text{Sik Total} = 41,832 \text{ gpd}$$

$$\text{ADF} = 41,832 \text{ gpd} \times 1/1440 \text{ Min} = 29 \text{ gpm}$$

$$\text{Peak Flow} = 29 \text{ gpm} \times 4 \text{ (Safety Factor)} = \boxed{116 \text{ gpm}} = Q_{\text{Peak}}$$

Benderson & Farnish Property: $Q_{\text{Peak}} = 400 \text{ gpm}$

$$\underline{\text{Total Sanitary Load} = 516 \text{ gpm}}$$

$$15" \text{ Sanitary Sewer } @ 0.15\% = 1,150 \text{ gpm}$$

NYSDEC: Design Standards for Wastewater Treatment Works Intermediate Sized Sewerage Facility 1988

Table 3. Expected Hydraulic Loading Rates (cont'd)

<u>Type of Facility</u>	<u>Flow Rate Per Person (gal./day)</u>	<u>Flow Rate Per Unit (gal./day)</u>
Office Buildings		
Per Employee	15	
Per Square Foot		
Dentist--per chair/day		0.1 750
Parks (per picnicker)		
Restroom only	5	
Showers and Restroom	10	
Schools (per student)		
Boarding	75	
Day	10	
Cafeteria - Add	5	
Showers - Add	5	
Service Stations		
Per toilet (not including car wash)		400
Shopping Centers (per sq. ft. - food extra)		
per employee	15	0.1
per toilet		400
Swimming Pools (per swimmer)	10	
Sports Stadium	5	
Theatre		
Drive-in (per space)		3
Movie (per seat)		3
Dinner Theatre, Individual (per seat)	20	
with hotel	10	

TREATMENT CONSIDERATIONS

Detailed data regarding the character and quantity of the wastewater flow is necessary to facilitate the effective design of wastewater treatment and disposal systems.

Many commercial/institutional facilities generate wastewater similar in character to residential wastes. For other facilities consideration of the waste-generating sources will allow an estimate of the character of the wastewater. This will also serve to indicate the presence of any problem constituents in the wastewater such as high grease levels from restaurants and lint fibers from laundromats.



LaDieu Associates p.c.
surveying-engineering-land planning

40 Cedarfield Commons

Rochester New York 14612

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FAX TRANSMITTAL

TO: Mark Petroski DATE: 7/11/07

FIRM: Bergman FAX #: 325-8306

FROM: RICHARD GIRAULO E-MAIL: rgiraulo@ladleupc.com

TOTAL NUMBER OF PAGES - INCLUDING LEAD SHEET: 11

SUBJECT: Southwestern Commons

COMMENTS:

☐ Please contact me upon receipt of this transmittal

☐ For your approval

() Please review and advise

~~(b)~~ As requested

() *For your action*

() *For your information*

() *For your records*

() *For processing*

MESSAGE:

Sanitary Survey Study enclosed for your use.

Hard copy to follow: Yes XNo cc: _____

PLEASE NOTE: If for any reason these fax copies are illegible or you do not receive the same number as indicated above, please do not hesitate to contact us at (716) 225-8530.

LA DIEU ASSOCIATES, P.C.
 Surveying - Engineering - Land Planning
 40 Cedarfield Commons
 ROCHESTER, NEW YORK 14612
 716 225-8530 FAX 716 225-4819

Benderson &
 PROJECT: Farash Property
 Sanitary Sewer Study

DATE: 9/22/04 SHEET 1 OF 9

ANTICIPATED SANITARY SEWER LOADING

1. Walmart Plaza → From PRA Engineering PC. → 122,400 gpd peak
 = 85 gpm
 = 30,600 gpd @ 19. ADE
 Reference: "Design Standards for Wastewater Treatment Works" 1988
2. Farash Lot #1:
 - 6050 sf Restaurant: Assume 50 sf/seat = 121 Seats
 ∴ 121 seats @ 28 gpd/seat = 3,390 gpd
3. Farash Lot #2:
 - 3750 sf Bank @ 0.08 gpd/sf = 300 gpd
4. Farash Lot #3:
 4763 sf Bank @ 0.08 gpd/sf = 380 gpd
5. Farash Lot #4:
 145,800 sf Retail @ 0.08 gpd/sf = 11,700 gpd
6. Farash Lot #5:
 4763 sf Bank @ 0.08 gpd/sf = 380 gpd
7. Farash Lot #6:
 9000 sf Restaurant: Assume 50 sf/seat
 ∴ 9000/50 = 180 seats @ 28 gpd/seat = 5,040 gpd
8. Farash Lot #7:
 7200 sf Restaurant: 7200/50 = 144 seats
 ∴ 144 seats @ 28 gpd/seat = 4,040 gpd
9. Farash Lot #8:
 209 unit Senior Apartments: Say 2 people per unit
 ∴ 209 units x 2 x 75 gpd ^{x 0.08} = 31,350 gpd x 0.08
 = 25,080 gpd

LA DIEU ASSOCIATES, P.C.
Surveying · Engineering · Land Planning
40 Cedarfield Commons
ROCHESTER, NEW YORK 14612
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PROJECT: Farash Property
Sanitary Sewer Study

DATE: 9/22/04

SHEET 2 OF 9

10. Farash Lot # 9:

528 unit Apartments for Seniors

$$\therefore 528 \text{ units} \times 2 \text{ people/unit} \times 60 \text{ gpd} = 63,360 \text{ gpd}$$

DETERMINE SERVICE AREAS

A. Farash Lots #1, 2 & 3:

$$ADF = 3,390 \text{ gpd} + 300 \text{ gpd} + 300 \text{ gpd} = 4,070 \text{ gpd}$$

$$= 4,070 \text{ gpd} \times \frac{1}{1440 \text{ min.}} = 2.83 \text{ gpm}$$

$$\text{Peak Flow} = 2.83 \text{ gpm} \times 4 = \underline{11.3 \text{ gpm}}$$

B. Farash Lot #4: $ADF = 11,700 \text{ gpd} \times \frac{1}{1440 \text{ min.}} = 8.1 \text{ gpm}$

$$\text{Peak Flow} = 4 \times 8.1 \text{ gpm} = \underline{32.4 \text{ gpm}}$$

C. Farash Lots #4 thru 9:

$$ADF = 11,700 \text{ gpd} + 300 + 5,040 + 4,040 + 25,050 + 63,360$$

$$ADF = 109,600 \text{ gpd} \times \frac{1}{1440 \text{ min.}} = 76 \text{ gpm}$$

$$\text{Peak Flow} = 76 \text{ gpm} \times 4 = \underline{304 \text{ gpm}}$$

D. Total Farash Property plus Wal-Mart Complex:

$$\text{Lots #1 to 9} = Q_{\text{peak}} = 11.3 \text{ gpm} + 304 \text{ gpm} = 315 \text{ gpm}$$

$$\text{Wal-Mart Complex} = 85 \text{ gpm}$$

$$\text{Total } Q_{\text{peak}} = \underline{400 \text{ gpm}}$$

BY DER DATE 9/2/04 PROJ. NO. 04-3262 SHEET 39 OF 9CKD _____ DATE _____ PROJ. NAME PROPOSED RETAIL DEVELOPMENT
CORSE, NY

ENGINEERING, P.C.

www.FRAengineering.com

EXPECTED SANITARY FLOW RATES

- PROPOSED WAL-MART = 6,030 gpd (WAL-MART PROTOTYPICAL UTILITY LOADS)
 - PROPOSED 5,500 SF OUTPARCEL (2) = (ASSUME 100 SEAT RESTAURANTS)
 $28 \text{ gpm/seat} \times 150 \text{ SEATS} \times 2 = \underline{8,400 \text{ gpd}}$
 - PROPOSED 105,374 SF RETAIL = $0.08 \text{ gpm/sf} \times 105,374 \text{ SF} = \underline{8,430 \text{ gpd}}$
 - PROPOSED 5,272 SF OUTPARCEL = (ASSUME 75 SEAT RESTAURANT)
 $28 \text{ gpm/seat} \times 75 \text{ SEATS} = \underline{2,100 \text{ gpd}}$
 - PROPOSED 66,570 SF RETAIL = $0.08 \text{ gpm/sf} \times 66,570 \text{ SF} = \underline{5,325 \text{ gpd}}$
 - PROPOSED 3,750 SF OUTPARCEL = (ASSUME BANK USE) = $0.08 \text{ gpm/sf} \times 3,750 \text{ SF} = \underline{300 \text{ gpd}}$
- ⇒ TOTAL EXPECTED SANITARY LOADING = 30,585 gpd, SAY 30,600 gpd (21 gpm) ADF
- ⇒ PEAK LOADING = $30,600 \text{ gpd} \times 4 = \underline{122,400 \text{ gpd}}$ (85 gpm) PEAK

* FLOW RATES PER UNIT FROM NYSOEC DESIGN STANDARDS FOR WASTEWATER TREATMENT WORKS
 INTERMEDIATE SIZED SEWERAGE FACILITIES 1988

4320 West Ridge, LL
1950 BRIGHTON-HENRIETTA
TOWN LINE ROAD
ROCHESTER, NEW YORK 1462



Engineers / Architects / Surveyors

200 First Federal Plaza
28 East Main Street, Rochester, New York 14614
585.232.5135 / 585.232.4452 fax

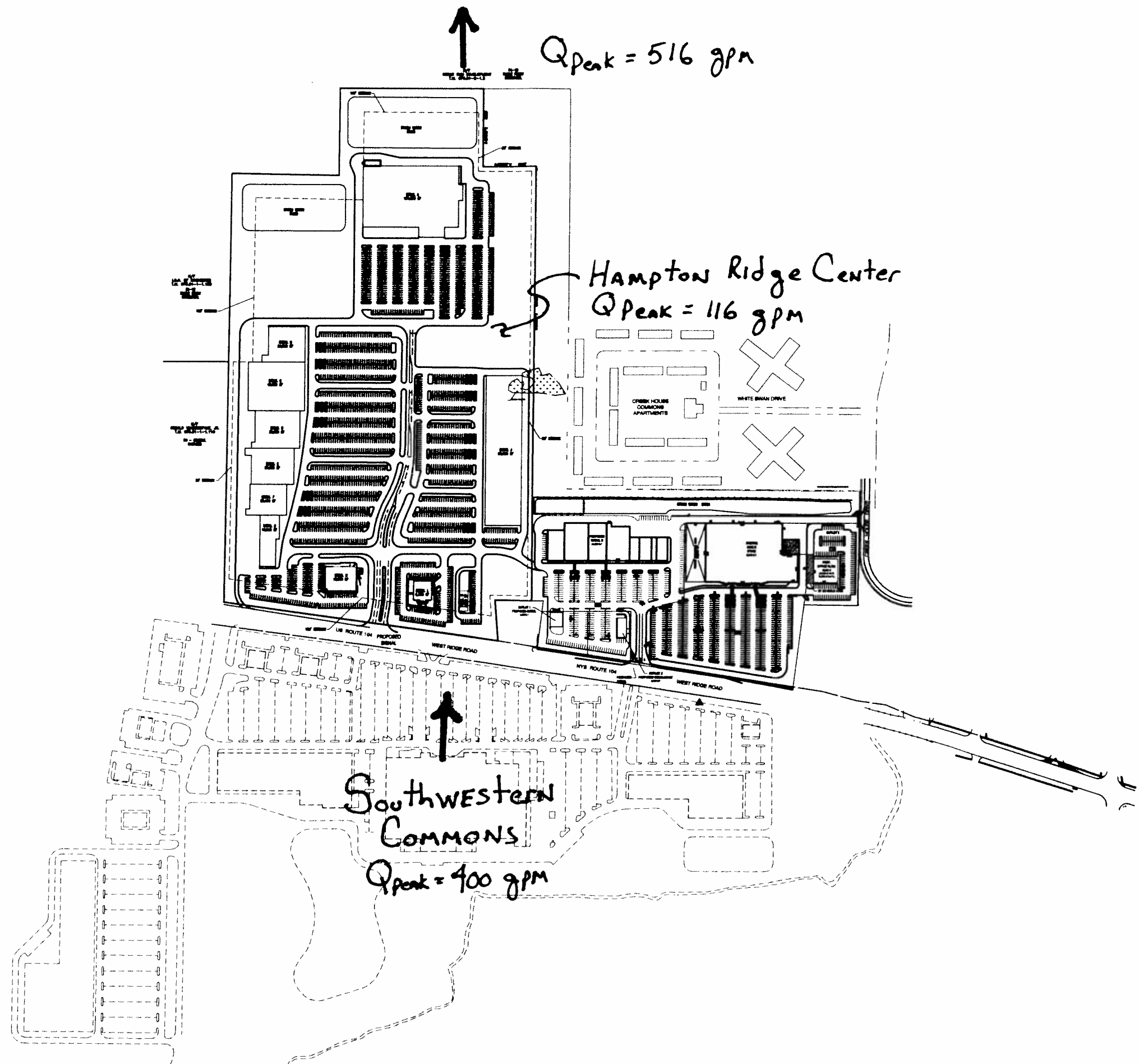
REVISIONS				
NO.	DATE	DESCRIPTION	REV.	CHKD
1	2/24/88	D.H. COMMENTS	BFL	MEP
2	4/17/87	ADDED ZONING AND PROPERTY OWNERS	DGC	MEP

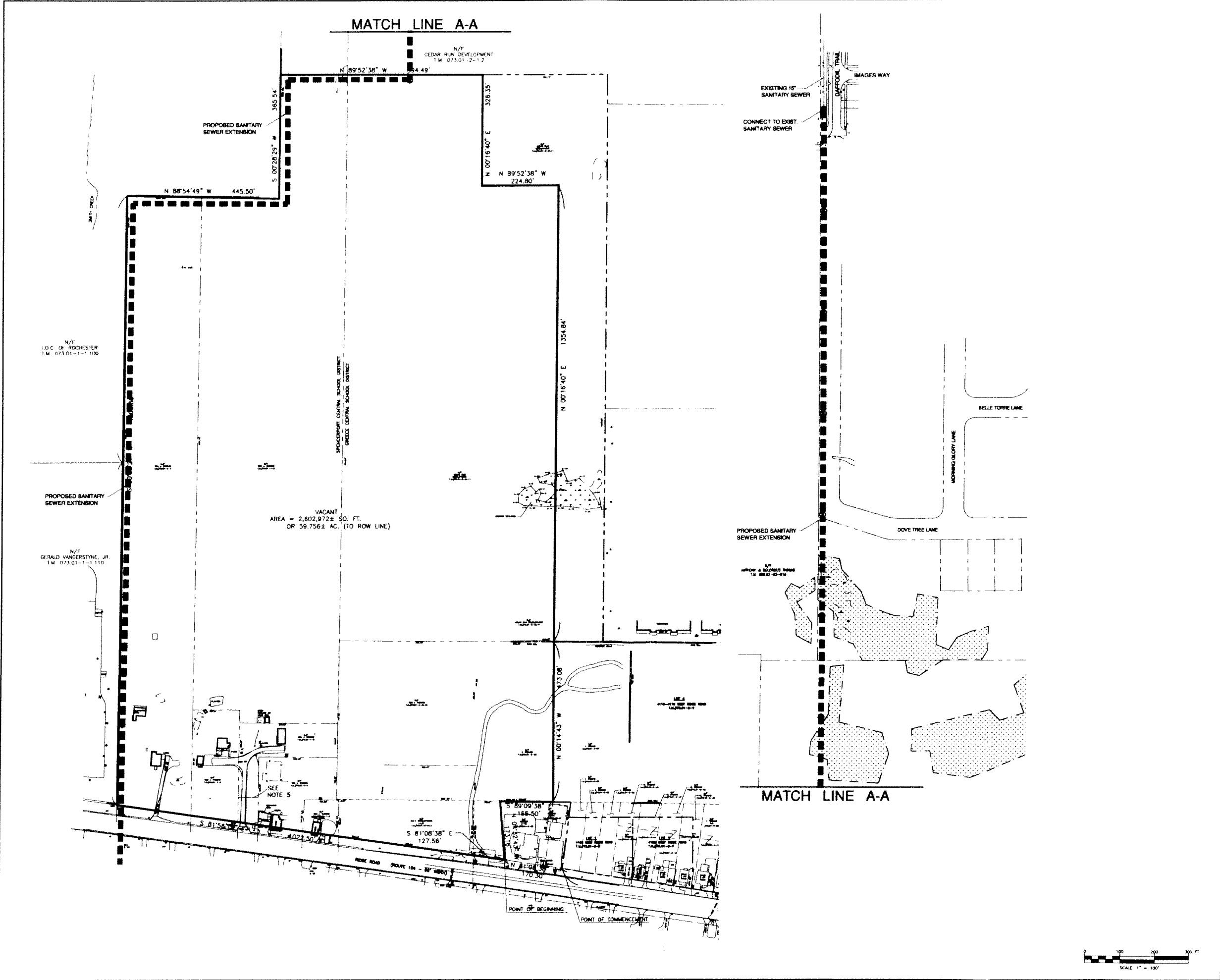
NOTE:
Unauthorized alteration or addition to this document is a
violation of the New York State Education Law Article
146, Section 7502.

SITE MASTER PLAN

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Project identifier: **File identifier:**

MP-6



HAMPTON RIDGE CENTER
NYS ROUTE 104
GREECE, NY

4320 WEST RIDGE LLC
1950 BRIGHTON-HENRIETTA
TOWN LINE ROAD
ROCHESTER, NY 14623

BERGMANN
associates
Engineers / Architects / Surveyors
200 First Federal Plaza
28 East Main Street, Rochester, New York 14614
(585) 232-5135 / (585) 232-4652 fax

REVISIONS				
NO.	DATE	DESCRIPTION	REV.	DATE

NOTE:
Unauthorized alteration or addition to this drawing is a
violation of the New York State Education Law Article
140, Section 1300.

**SANITARY SEWER
EXTENSION PLAN**

0 100 200 300 FT
SCALE 1" = 100'

SM02
3 of 16

New York State Department of Environmental Conservation

Division of Solid and Hazardous Materials, Region 8

6274 East Avon-Lima Road, Avon, New York 14414-9519

Phone: (585) 226-2466 • FAX: (585) 226-2909

Website: www.dec.state.ny.us



Denise M. Sheehan
Acting
Commissioner

February 15, 2005

Tom Thomas, President
The TRA-MAC Group, Inc.
TRA-MAC Associates, Inc.
55 Allied Way
Hilton, NY 14468

RE: Construction Certification Report for the Former LeChase C&D Landfill
North of 4232 West Ridge Road, DEC ID # 8-2628-00706/00001
Facility No. 28Z05, Greece (T), Monroe (C)

Dear Mr. Thomas:

I have reviewed the Construction Certification Report for the Former LeChase C&D Landfill, North of 4232 West Ridge Road, prepared by Ensol, Inc., dated January 2005. I have also provided the report to Mr. Thomas Hall of the Region 8 Spill Response Unit.

The reclamation activities documented in the construction certification report have been completed in accordance with the NYSDEC Permit # 8-2628-00706/00001 and therefore the construction certification report is hereby approved.

With regards to NYSDEC Spill No. 0370546, Mr. Hall has made copies of pertinent information included in the certification report for the Spill Unit files. He has also changed the status for this file to closed, dated February 10, 2005.

Should you have any questions regarding this matter, please contact me at 585 226-5419. Mr. Hall can be reached at 585 226-5430.

Very truly yours;

John A. Swanson, P. E.

Environmental Engineer

Division of Solid & Hazardous Materials

cc: G. Petereit (via fax)
T. Hall

September 18, 2007

Dan Christopher
Bergmann PC
200 First Federal Plaza
28 East Main Street
Rochester, NY 14614

Re: 4320 Ridge Rd West

Dear Mr. Christopher:

This is to advise you that gas and electric services will be made available upon request to the above mentioned location in accordance with our tariffs as filed with the Public Service Commission.

Sincerely,

Kimberly Geer
Account Representative
Marketing and Sales Department



September 20, 2007

Bergman Associates
200 First Federal Plaza
28 East Main St., Rochester, NY 14614]

Dear Dan Christopher

I received a request by Bergman Associates for the availability of telephone service to a proposed 390,000 sq ft development on north side of W Ridge Rd west of Hampton Ridge Center.

Frontier Telephone of Rochester currently has facilities on or near your location for providing telephone service and would be happy to be your telecommunications provider of choice as long as you are financially in good standing. Contributions in aid of construction may apply for some services.

Please contact the Frontier Telephone of Rochester Business Office at 585-777-1234 at least 90 days in advance of requiring service for a new building and 45 days in advance to order service.

Sincerely,

JOHN PODNAR
Outside Plant Engineer

cc:

Hilbert Realty Inc.

We bring you home...



4210 West Ridge Road * Rochester, NY 14626

Office 227-8900 * Fax 723-0786

www.hilbertrealty.com * Email: office@hilbertrealty.com

Fax Transmittal Form

To: Cary Tajkowski From: Karen Hilbert

Date: 5/8/07 Time Sent: _____ Number of Pages: 2
(Including Cover Page)

Phone Number: _____ Fax Number: _____

Message:

Re: Heron Ridge Rd.

Please submit my letter to
board at hearing scheduled
for May 14th @ 6:35pm

Thank You -
Karen Hilbert

If you did not receive all transmitted pages, Please call us. Thank You & Have a Great Day!

May 7, 2007

Town Board of
The Town of Greece
1 Vince Toffany Blvd.
Rochester, N.Y. 14616

Re: Application of 4320 West Ridge, LLC
Rezoning-4320 W. Ridge Road
R1-12 Single Family Residential to BG
General Business
Tax Map 073.01-2-63, 64.111, 64.12,
64.2 (portion)
Tax Map 073.01-1-2.1,3,4,5,6,7

Dear Board Members:

I, Karen Hilbert, am the owner of property located at 4210 West Ridge Rd, adjacent to above stated property, proposed for rezoning.

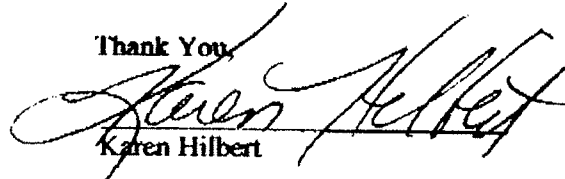
I ask the Board to take my following concerns into consideration:

1. Any widening of West Ridge Rd in front of my property, to accommodate additional traffic flow, will directly impact my front parking.
2. Safety and visibility pulling into and out of West Ridge Rd. from my property and my East neighbor have been troublesome and dangerous since Kohl's has opened. There is still no traffic light as proposed.
3. Sanitary sewers should be made available and accessible to the lot lines of 4210 and 4200 West Ridge Rd. since this project will have sewers available.

Please note: In accordance with the Master Plan for the Town of Greece, West Ridge Rd has been identified as the future commercial district. I feel that all property on West Ridge Rd, from North Greece Rd to Manitou Rd, should be consistent in zoning.

I ask that the board take these concerns into consideration and keep the interest in mind of the loyal Town of Greece residents and small business owners.

Thank You,


Karen Hilbert