CITY OF BEACON, NEW YORK
ONE MUNICIPAL PLAZA
BEACON, NY 12508

City Council Workshop Agenda
November 26, 2018
7:00 PM

Workshop Agenda Items:

1. Firehouse Study - Bob Mitchell
2. Budget wrap-up
3. 23-28 Creek Drive
4. Tioronda Bridge Feasibility Study
5. Municipal IDs
6. Budget Amendments

Upcoming Agenda Items and Meetings:

1. Adoption of proposed 2019 Budget - December 3, 2018

Upcoming Public Hearings

1. A public hearing December 3, 2018 to receive public comment on a proposed local law to repeal Chapter 135 and to amend Chapter 1, Article I, Section 3 of the Code of the City of Beacon to remove reference to Housing Standards in the City Code
2. A public hearing December 3, 2018 to receive public comment on an application to amend a Special Use Permit for the project known as “The Roundhouse” on East Main Street

Executive Session:

1. Executive Session: Personnel

City of Beacon Workshop Agenda
11/26/2018

Title:

Firehouse Study - Bob Mitchell

Subject:

Background:

ATTACHMENTS:

Description	Type
Firehouse study	Backup Material

City of Beacon

Study of a Combined Facility to be Located at the County Office Building Site

November 26, 2018

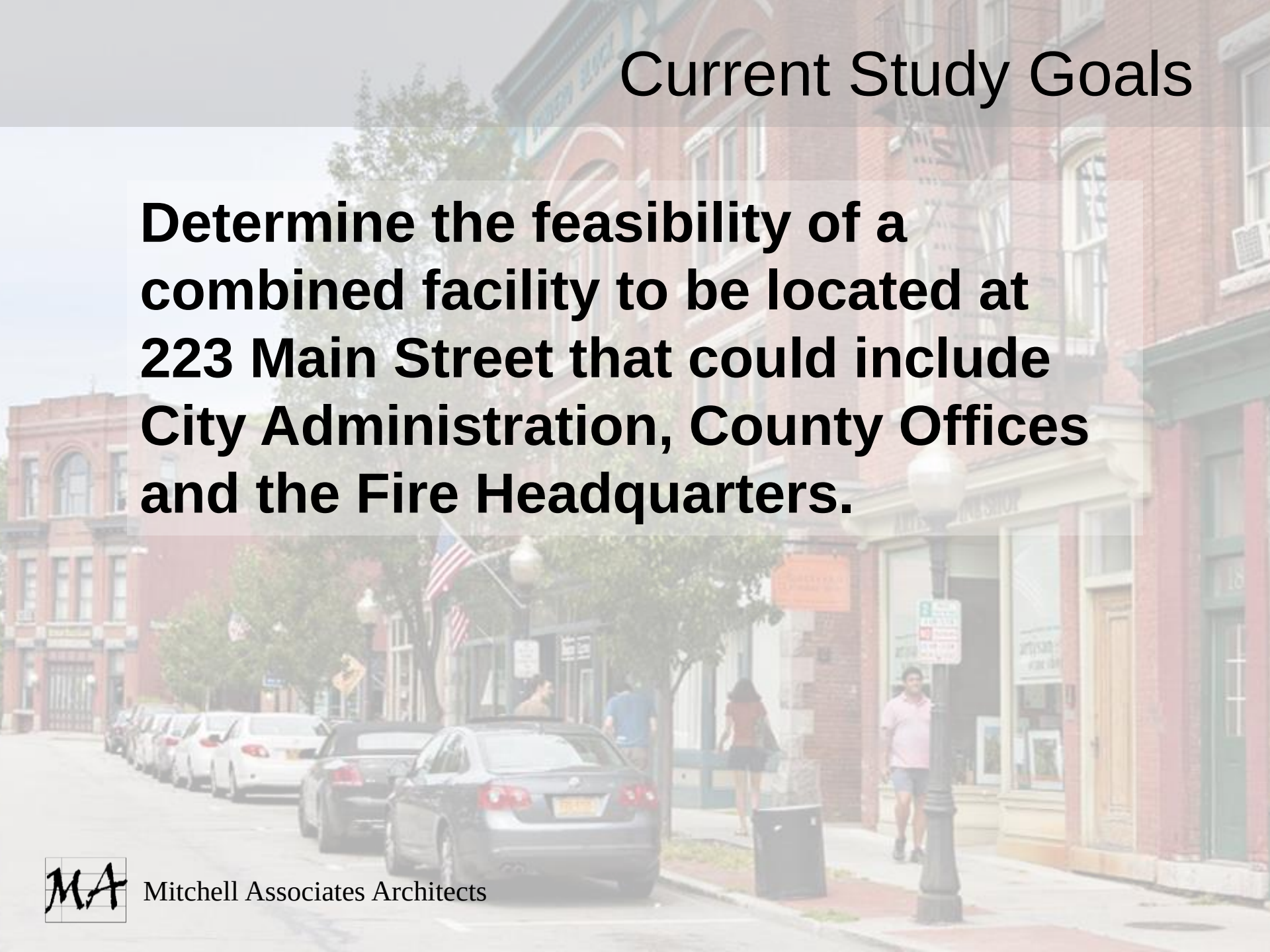
Mitchell Associates Architects

Who We Are

- Mitchell Associates is an architectural firm that has worked with Beacon since 2006
- Our specialty is public safety architecture
- We have completed over 160 public safety facility projects involving over 280 facilities
- Starting in early 2018, Tedd Stromswold has brought the firm substantial experience in the design of municipal facilities

Current Study Goals

Determine the feasibility of a combined facility to be located at 223 Main Street that could include City Administration, County Offices and the Fire Headquarters.



Prior Studies

- **2006 –** Mitchell Associates Architects Fire Station Consolidation Study
- **2010 –** MMA Comprehensive Multi-Level Operational Analysis
- **2014 –** TriData Fire Station Consolidation Study
- **2017 –** Mitchell Associates Architects Consolidated Fire Headquarters Location Study

2017 Fire Station Site Selection Committee

- Chief Gary Van Voorhis
- Lt. Timothy Dexter
- City Administrator Anthony Ruggiero
- Tom Di Castro, Sr. (Past Chief)
- Terry Davis (Past Chief)
- Jeff Simko (Retired Career Firefighter)
- Joseph Donovan (Architect/Developer/Resident)
- Rodney Weber (Developer/Resident)

Advised by:

- Bob Mitchell, AIA; Mitchell Associates Architects

Methodology for Site Selection

Sites must first meet basic requirements:

- Response time within service area
- Meet minimum size required for correct design
- City-owned or potentially available (e.g., reasonable to acquire)

Sites Considered

Three sites were considered for a new consolidated fire headquarters

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Current Study Project Steps

1. Interviews with City Staff to understand needs and deficiencies
2. Walkthrough of County building w/ county staff person to identify current occupants and current usage
3. Incorporate results of 2017 fire station study
4. Review of 2017 Comprehensive City Plan Update and parking study
5. Review recently revised ordinances for CMS district
6. Meet with City Planner to share concepts
7. Multiple review meetings with Anthony Ruggiero and Tim Dexter to review options
8. Review of draft by Mayor

Existing City Hall

Existing functional issues include:

- Building was not initially intended to be a City Hall
- City services are not contiguous
- Public wayfinding difficult
- Security concerns
- Privacy concerns
- Inadequate staff work space
- Work spaces do not support staff tasks, wasting time and money
- Work conditions are disrespectful of staff

Existing City Hall

First Floor (lowest level)

- Building/Planning/Zoning
- Finance
- Assessor
- Classroom
- Police Locker Room
- Building support (HVAC, storage)

Second Floor

- Police Department

Third Floor (upper level)

- Mayor
- City Administrator
- Clerk
- Records
- City Court

Existing City Hall

20+ year old building needs to grow approximately 25% simply to address:

- Accessibility
- Gender
- IT needs
- HVAC
- Energy
- Code compliance
- Etcetera

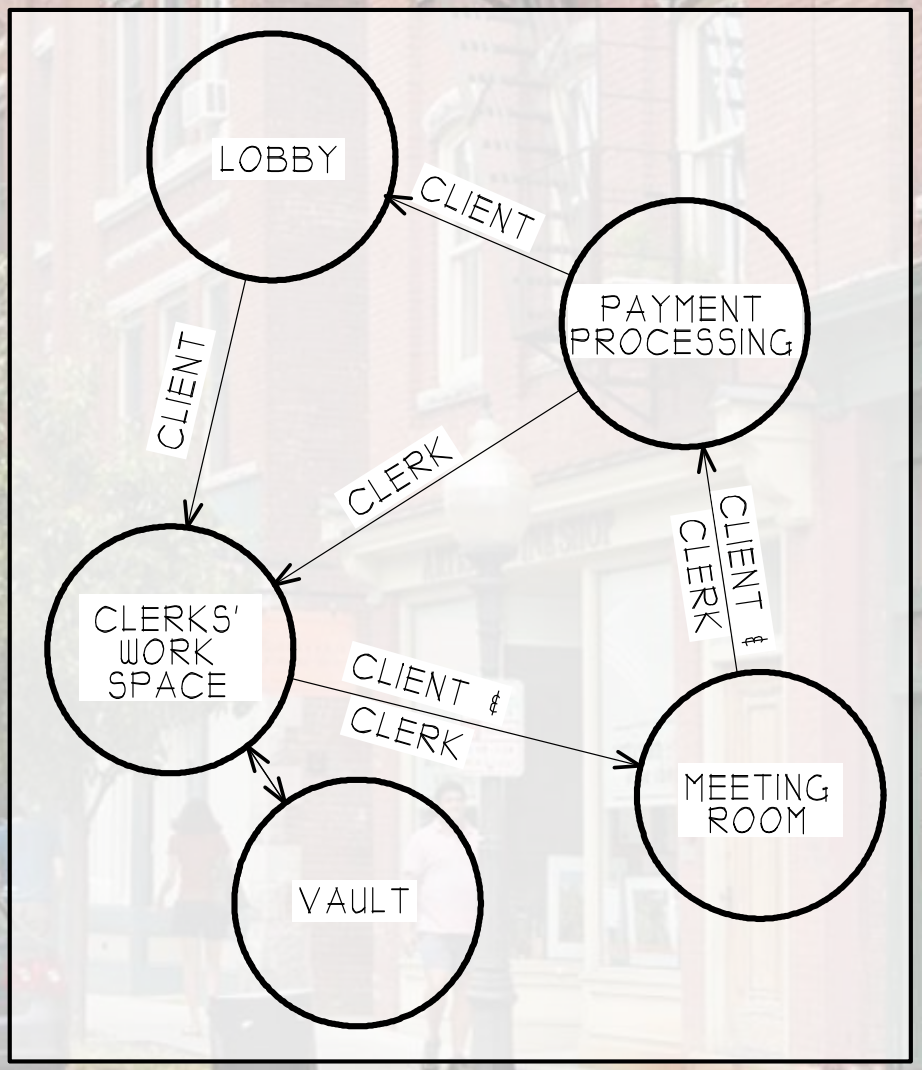
With no increase in program space!

What We Learned From Staff Interviews

- Inadequate space to effectively perform their duties.
- Lack of any privacy for themselves, or for the public when confidential matters need to be discussed.
- A disorganized arrangement of spaces such that for a single task, a member of the public can be required to:
    1. Start at the service window on the upper floor,
    2. Be required to exit the building and travel down two flights of exterior stairs to the lower rear of the building,
    3. Conduct a transaction at a Dutch door in a crowded hallway with no privacy,
    4. Be sent back outside and up to the main level for a second transaction, and;
    5. Return to the lower level to complete the transaction.
- Lack of security, and a feeling of physical vulnerability.
- Inadequate storage for records and supplies.
- The lack of a printing room exposes the staff to the noise of printing, some of which involves very large runs, such as water bills.
- Lack of any conference rooms
- Lack of sitting spaces for members of the public awaiting service.
- No staff room for coffee breaks or lunch.
- No secure parking

Current Building Does Not Support Staff

Actual Workflow is Not Supported by Physical Layout



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Needs Analysis: City Offices

CITY OF BEACON

	Common Spaces - City	
19	City Lobby Space	800
20	Elevator Lobby	80
21	Elevator (stretcher-sized)	70
22	Public Coat Room	80
23	Public Restrooms - City (2@220 SF each)	440
24	Staff Restrooms - City (2@150 SF or 4@75 SF each)	300
	Subtotal - Net SF Common Spaces - City	1,770
	Net to Gross factor (15%)	270
	Common Spaces - City	**2,040**
	Council Chambers	
25	Council Chamber	1,500
26	Council Chamber Storage (Furniture & Equipment)	120
27	Council Chamber A/V	100
28	Council Member's Rest Room	70
29	Council Member's Coats/Coffee	80
	Classroom/Conference	
30	Classroom/Conference (and Council Executive Session)	650
	Subtotal - Net SF Lobby, Council Chamber & Conference	2,520
	Dept. Net to Gross factor (15%)	380
	Lobby, Council Chamber & Conference	**2,900**
	Mayor and City Administrator	
31	Waiting Area - Mayor's Office	80
32	Admin Assistant to Mayor (work station)	80
33	Mayor's Office	250
34	Waiting Area - City Administrator	80
35	Admin Assistant to City Administrator (work station)	80
36	City Administrator's Office	220
37	Conference Room	250
38	Staff Toilet	70
39	Coats/Coffee	80
	Subtotal - Net SF Mayor and City Admin	1,190
	Dept. Net to Gross factor (20%)	240
	Mayor and City Admin	**1,430**
	Human Resources	
40	Human Resources	200
	Subtotal - Net SF Human Resources	200
	Dept. Net to Gross factor (1.20)	40
	Human Resources	**240**
	City Clerk	
41	Service Window (no workstation)	40
42	Waiting	80
43	City Clerk	150
44	Deputy City Clerk (work station)	80
45	City Clerk's Local Records	120
46	Printing	100
	Subtotal - Net SF City Clerk	570
	Dept. Net to Gross factor (20%)	110
	City Clerk	**680**
	Finance	
47	Service Window - Public (w/ workstation behind)	80
48	Service Window - Other departments	40
49	Waiting	80
50	Finance Director	200
51	Account Clerk #1 (workstation)	80
52	Account Clerk #2 (workstation)	80
53	Account Clerk #3 (workstation)	80
54	Finance Local Records	150
	Subtotal - Net SF Finance	790
	Dept. Net to Gross factor (20%)	160
	Finance	**950**

	Assessor	
55	Service Window (no workstation)	40
56	Waiting	80
57	Assessor	200
58	Assessor's Assistant (work station)	80
59	Assessor's Local Records	150
	Subtotal - Net SF Assessor	430
	Dept. Net to Gross factor (20%)	90
	Assessor	**520**
	Building/Planning/Zoning (B/P/Z)	
60	Service Window (large, no workstation)	80
61	Waiting	100
62	Inspector's Office	150
63	Deputy #1 (work station)	120
64	Deputy #1 (work station)	120
65	Clerical (work station)	100
66	B/P/Z Secretary	100
67	Printer/Plotter, General Work Area	150
68	Coat Closet/Local Storage	80
69	B/P/Z Dept Files	350
	Subtotal - Net SF Bldg/Planning/Zoning	1,350
	Dept. Net to Gross factor (20%)	270
	Building/Planning/Zoning	**1,620**
	Recreation	
70	Service Window (no workstation)	40
71	Waiting	60
72	Recreation Director	120
73	Recreation Assistant Director	100
74	Recreation Assistant Director (future)	100
	Subtotal - Net SF Recreation	320
	Dept. Net to Gross factor (20%)	60
	Recreation	**380**
	Office Support Areas	
75	Small Conference Room #1	120
76	Small Conference Room #2	120
77	Main Copy/Print/Work Room	200
78	Main Office Supply Storage	100
79	Receiving (Mail & Packages)	150
80	Active Records Storage	150
81	Archive Storage	450
82	General Storage	450
83	Vault	150
84	Employees' Kitchen/Breakroom/Vending	300
85	Lactation Room	60
86	Staff Restrooms (2@150 SF or 4@75 SF each)	300
	Subtotal - Net SF Office Support Areas	2,550
	Dept. Net to Gross factor (20%)	510
	Office Support Areas	**3,060**
	Building Support Areas	
87	Custodian/General Storage	200
88	Janitors Closets (1 @ 70 SF)	70
89	Server/IT	200
90	Active Demarc	100
91	UPS/Battery Backup	100
	Subtotal - Net SF Building Support Spaces	670
	Dept. Net to Gross factor (20%)	130
	Building Support Spaces	**800**
	SUBTOTAL - Gross SF All City of Beacon Areas	14,620
	Dept Gross SF to Bldg Gross SF Factor (14%)	2,050
	Total Gross SF City of Beacon Areas	**16,670**

Total City Office Space GSF = 16,607

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City Hall Size Increase

Projected city Hall Size: 17,000 to 20,000 SQ FT

Current net areas	7,310
Increase simply to to meet code w/o added program	1,828
New Public Areas Lobby, elevator Stairwell, etc.)	2,670
Other Needed Offices	620
Add to Council Chamber, Mayor, Admin, Clerk, Finance, Building/Planning Zoning & Assessor	2,300
Office Support (conference, copy room, storage, restrooms, etc.)	2,500
Sub-total	17,228
Corridors & walls	2,412
Total Building	19,639

Needs Analysis: County Offices

DUTCHESS COUNTY

	Common Spaces - County	
92	County Lobby Space	500
93	Elevator Lobby	80
94	Public Restrooms - County (2@220 SF each)	440
95	Staff Restrooms - County (2@150 SF or 4@75 SF each)	300
	Subtotal - Net SF Common Spaces - County	1,320
	Net to Gross factor (15%)	200
	Common Spaces - County	**1,520**

	Department of Community & Family Services	
96	Waiting	80
97	Secretary	100
98	DCFS Office (2 Workstations @80SF each)	160
99	DCFS Printing/Work Area	100
100	Files/General Storage	80
	DCFS Net SF	520
	Dept. Net to Gross factor (20%)	100
	Dept. of Community & Family Services	**620**

	Astor Family Service	
101	Lobby/Waiting	200
102	Receptionist (workstation)	80
103	Office #1 (supervisor)	130
104	Office #2	90
105	Office #3	90
106	Office #4	90
107	Office #5	90
108	Office #6	90
109	Office #7	90
110	Copy Area	90
111	Break/Conf Room	250
112	Files/General Storage	80
113	Phone/IT Closet	50
	Astor Family Service Net SF	1,290
	Dept. Net to Gross factor (30%)	390
	Astor Family Service	**1,680**

	Probation	
114	Waiting - Adult	400
115	Waiting - Minors	150
116	Service Window (ROR)	80
117	Supervisor	140
118	Probation Officer - Office #1	100
119	Probation Officer - Office #2	100
120	Probation Officer - Office #3	100
121	Probation Officer - Office #4	100
122	Probation Officer - Office #5	100
123	Probation Officer - Office #6	100
124	Probation Officer - Office #7	100
125	Probation Officer - Office #8	100
126	Probation Officer - Office #9	100
127	Probation Officer - Office #10	100
128	Probation Officer - Office #11	100
129	Probation Officer - Office #12	100
130	Drug Testing	120
131	Copy Room	80
132	Conference Room	280
133	Break Room	150
134	Files/General Storage	160
135	Phone/IT Closet	50
	Probation Spaces Net SF	2,760
	Dept. Net to Gross factor (30%)	830
	Probation	**3,59**

	Department of Motor Vehicles	
136	Waiting Area	770
137	Written Test Area	150
138	Work Area (3 service windows)	530
139	Open Office (2 workstations @ 80 SF ea)	160
140	Copy Room	80
141	Break Room	250
142	Files/General Storage	150
143	Vault	100
144	Phone/IT Closet	50
	DMV Spaces Net SF	2,240
	Dept. Net to Gross factor (20%)	450
	Dept. of Motor Vehicles	**2,69**

	Department of Environmental Health	
145	Reception Area	180
146	Supervisors Office	190
147	Open Office (4 workstations @ 70 SF each)	280
148	Conference Room/Map Room	250
149	Break Room	200
150	Copy Room	80
151	General Storage	100
152	File Storage	130
153	Phone/IT Closet	50
	EH Spaces Net SF	1,410
	Dept. Net to Gross factor (20%)	280
	Dept. of Environmental Health	**1,690**

	Hudson Valley Mental Health	
154	Reception	250
155	Secretary	100
156	Open Office (3 workstations @60 SF each)	180
157	Supervisors Office	120
158	Therapist Director Office	120
159	Nurse Practitioner - Office #1	115
160	Nurse - Office #2	115
161	Therapist - Office #3	115
162	Therapist - Office #4	115
163	Therapist - Office #5	115
164	Therapist - Office #6	115
165	Therapist - Office #7	115
166	Therapist - Office #8	115
167	Therapist - Office #9	115
168	Phone Counseling	120
169	Group Therapy	135
170	Chart Room	130
171	Conference	180
172	Break Area	200
173	Copy Room	80
174	Mens Toilet	70
175	Womens Toilet	70
176	Files/General Storage	130
177	Phone/IT Closet	50
	HVMH Spaces Net SF	2,970
	Dept. Net to Gross factor (30%)	890
	Hudson Valley Mental Health	**3,860**

	Vacant Office / Shelled Space	
178	Usage TBD	
	Vacant Spaces Net SF	TBD
	Net to Gross Factor	TBD
	Vacant	**2,000**

	Building Support Areas - County	
179	IT Room (Main Distribution)	120
180	Custodial Closet	70
	Subtotal - Net SF Bldg Support - County	190
	Net to Gross factor (20%)	40
	Building Support Areas - County	**230**

	Subtotal - Gross SF All Dutchess County Dept. Areas	17,880
	Dept Gross SF to Bldg Gross SF Factor (14%)	2,500
	Total Gross SF Dutchess County	**20,380**

Total County Office Space GSF = 20,380

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Needs Analysis: Shared Space

SHARED SPACES		
	Shared Staff and Public Areas	
1	Main Vestibule	100
2	Main Lobby	900
3	Public Restrooms (2@220 SF each)	440
4	Public Restroom (Family)	80
5	Employee Entry Vestibules (3@70 SF each)	210
6	Stairwells (2@220 SF each per floor)	1,320
7	Elevator (stretcher-sized)	70
	Subtotal - Net SF Shared Staff and Public Areas	3,120
	Dept. Net to Gross factor (15%)	470
	Shared Staff and Public Areas	3,590
	Shared Building Support Areas	
8	Custodian Housekeeping Storage	200
9	Janitors Closet (1 @ 70 SF each)	70
10	Mechanical	1,000
11	Electrical	150
12	Sprinkler Room	100
13	Elevator Equipment Room	60
14	Yard Storage	100
	Subtotal - Net SF Shared Building Support Areas	1,680
	Dept. Net to Gross factor (20%)	340
	Shared Building Support Areas	2,020
	Outdoor Areas	
15	Staff Break Area	
16	Garbage Enclosure (outdoors)	
17	Outdoor Receiving Delivery Zone	
18	Parking Stalls - Public & Staff (approx.)	
	SUBTOTAL - Gross SF All Shared Spaces	5,610
	Dept Gross SF to Bldg Gross SF Factor (14%)	785
	All Shared Spaces	6,395

Total Shared Space
GSF = 6,395

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Needs Analysis: City & County Combined

AREAS SUMMARY	
City / County Shared Areas GSF	6,395
City of Beacon GSF	16,670
Dutchess County GSF	20,380
TOTAL COMBINED CITY / COUNTY BUILDING GSF	**43,445**
% of GSF Attributable to City Hall	45%
% of GSF Attributable to County	55%

Needs Analysis – Fire Department

FIRE DEPARTMENT

	Apparatus Bay	
1	Apparatus Bay	5,849
1.1	Additional Space for Parking Garage Structure	560
	Subtotal - Apparatus	**6,409**
	Firematic Support	
1.2	Mezzanine	1,450
2	Storage Room #1	216
3	Storage Room #2	216
4	Turnout Gear	205
5	Quarter Master	205
6	Hose Storage	32
7	EMS Storage	100
8	Work Room	196
9	Decon/Laundry	186
10	Hazardous Waste	14
11	Utility Recess	32
12	Hydration	36
13	SCBA Compressor (142 SF)	included
14	SCBA Fill Station	130
15	Janitors Closet	64
16	Apparatus Floor Restroom	62
17	Communications	212
18	Training/Hose Tower (441 SF)	441
	Subtotal - Firematic Support	**2,347**
	Administration	
19	Station Lobby	100
20	Conference Room	473
	Conference Storage	0
21	Chief's Office	175
22	Chief's Storage Room	71
23	Volunteer Officers	194
24	Career Staff Office	133
25	Fire Prevention & Education Storage	97
26	Work Space	90
	Assistant Chiefs	0
	Shared Office	0
27	Records Storage	100
28	Company Rooms (3 @ 300 sf)	900
29	Admin Area Restrooms 2 @ 73 sf	146
	Subtotal - Administration	**2,479**
	Firefighters	
30	Firefighter's Rest Rooms (see #32)	0
	Volunteer Firefighter's Room	0
	Three Company Offices	0
31	Exercise	632
32	Lockers/Bath	95
33	Day Room	1262
34	Bunkrooms w/ Lockers 8 @ 93	744
	Chief's Bunk	0
35	Bunker Bathroom 4 @ 91 sf	364
	Personal Lockers	0
36	Bunker's Area Laundry	59
	Subtotal - Career Firefighters	**3,156**

	Firefighters	
30	Firefighter's Rest Rooms (see #32)	0
	Volunteer Firefighter's Room	0
	Three Company Offices	0
31	Exercise	632
32	Lockers/Bath	95
33	Day Room	1262
34	Bunkrooms w/ Lockers 8 @ 93	744
	Chief's Bunk	0
35	Bunker Bathroom 4 @ 91 sf	364
	Personal Lockers	0
36	Bunker's Area Laundry	59
	Subtotal - Career Firefighters	**3,156**
	Public Spaces	
37	Public Entry Area	200
38	Deleted	0
39	Coat Room	125
40	Multi-Use	1500
41	Multi-Use Tables & Chairs	198
42	Multi-Use A/V	60
43	Training Prop Storage	130
44	Multi-Use Kitchen	341
45	Multi-Use Pantry	103
46	Public Rest Rooms M & F	273
	Subtotal - Public Spaces	**2,930**
	Miscellaneous Space	
47	(2) Entry Vestibules	128
48	Housekeeping Storage	98
49	Office Side Janitors Closet	192
50	File Server	64
51	Sprinkler	70
52	Mechanical/Electrical	700
53	(2) Stairwells (360 SF per floor)	1,084
54	Elevator (58 SF per floor)	174
55	Elevator Equipment Room	52
56	Elevator Foyer (80 SF per floor)	80
	Subtotal - Miscellaneous Spaces	**2,642**
	Area Subtotals	
	Apparatus Bay	**6,409**
	Firematic Support	**2,347**
	Mezzanine	**1,450**
	Admin, Firefighters, Public Spaces & Misc Spaces	**11,207**
	Walls & Circulation	
	Apparatus Bay Walls @ 8%	513
	Firematic Support Walls @ 15%	461
	Office Area Walls @ 17%	1,905
	Firematic Support Circulation @ 15%	308
	Office Area Circulation @ 18%	2,017
	Subtotal - Walls & Circulation	**5,204**
	TOTAL FIRE STATION GSF	**26,617**

Total Fire Department GSF = 26,687

[Versus 24,309 at Alternative Site]

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The Site

- 1.8 acres.
- Bounded by Main, South Elm and DeWindt Streets.
- South Elm is one-way heading north (toward Main Street).
- South Elm and DeWindt are residential streets.
- Topography on south end (DeWindt Street).

- Existing county building (2 floors, 11,000 SF per floor) is in Historic District, but has been renovated previously in ways that detract from its historic quality.
- Existing parking lot, w/ 92 parking spaces

Options

Four Options Merited Evaluation:

- **Option 1** – New Combined City/County Building with Fire Station
- **Option 2** – New City Hall with Improvements to County Building (2 versions)
- **Option 3** – New Combined City/County Building with Drive Access to Main Street
- **Option 4** – New City/County Building with Pocket Park

Space Needs: Option One

Total Building Size
GSF = 70,062

OPTION #1 (New City/County Building with Fire Station) AREA SUMMARY	
CITY / COUNTY SHARED AREAS	AREA (SF)
Shared Staff and Public Areas	3,590
Shared Building Support Areas	2,020
Subtotal - City / County Shared Areas	**5,610**
Dept Gross SF to Bldg Gross SF Factor (14%)	785
City / County Shared Areas GSF	**6,395**
CITY OF BEACON AREAS	AREA (SF)
Common Spaces - City	2,040
Lobby, Council Chamber & Conference	2,900
Mayor and City Admin	1,430
Human Resources	240
City Clerk	680
Finance	950
Assessor	520
Building/Planning/Zoning	1,620
Recreation	380
Office Support Areas	3,060
Building Support Spaces	800
Subtotal - City of Beacon Areas	**14,620**
Dept Gross SF to Bldg Gross SF Factor (14%)	2,050
City of Beacon Areas GSF	**16,670**
DUTCHESS COUNTY AREAS	AREA (SF)
Common Spaces - County	1,520
Dept. of Community & Family Services	620
Astor Family Service	1,680
Probation	3,590
Dept. of Motor Vehicles	2,690
Dept. of Environmental Health	1,690
Hudson Valley Mental Health	3,860
Vacant	2,000
Building Support Areas - County	230
Subtotal - Dutchess County Areas	**17,880**
Dept Gross SF to Bldg Gross SF Factor (14%)	2,500
Dutchess County Areas GSF	**20,380**
FIRE STATION	AREA (SF)
Apparatus Bay	6,409
Firematic Support	2,347
Mezzanine	1,450
Admin, Firefighters, Public Spaces & Misc Spaces	11,207
Subtotal - Fire Station Areas	**21,413**
Gross SF Factor (24%)	5,204
Fire Station GSF	**26,617**
TOTAL GSF - OPTION 1 (exclusive of parking deck)	**70,062**

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Space Needs: Option Two

Total Building Size
GSF = 20,300

OPTION #2 (Stand-Alone City Hall) AREA SUMMARY		
CITY HALL	AREA (SF)	AREA (SF)
Staff and Public Areas	3,420	3,660
Building Support Areas	2,220	2,420
Lobby, Council Chamber & Conference	2,730	2,900
Mayor and City Admin	1,280	1,430
Human Resources	240	240
City Clerk	560	680
Finance	950	950
Assessor	460	520
Building/Planning/Zoning	1,330	1,620
Recreation	0	380
Office Support Areas	2,020	3,060
Subtotal - City of Beacon Areas	**15,210**	**17,860**
Dept Gross SF to Bldg Gross SF Factor (14%)	2,130	2,500
TOTAL GSF - OPTION #2	**17,340**	**20,360**

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Space Needs: Option Three & Four

Total Building Size
GSF = 43,445

OPTIONS #3 & #4 (New City/County Building only) AREA SUMMARY	
CITY / COUNTY SHARED AREAS	AREA (SF)
Shared Staff and Public Areas	3,590
Shared Building Support Areas	2,020
Subtotal - City / County Shared Areas	**5,610**
Dept Gross SF to Bldg Gross SF Factor (14%)	785
City / County Shared Areas GSF	**6,395**
CITY OF BEACON AREAS	AREA (SF)
Common Spaces - City	2,040
Lobby, Council Chamber & Conference	2,900
Mayor and City Admin	1,430
Human Resources	240
City Clerk	680
Finance	950
Assessor	520
Building/Planning/Zoning	1,620
Recreation	380
Office Support Areas	3,060
Building Support Spaces	800
Subtotal - City of Beacon Areas	**14,620**
Dept Gross SF to Bldg Gross SF Factor (14%)	2,050
City of Beacon Areas GSF	**16,670**
DUTCHESS COUNTY AREAS	AREA (SF)
Common Spaces - County	1,520
Dept. of Community & Family Services	620
Astor Family Service	1,680
Probation	3,590
Dept. of Motor Vehicles	2,690
Dept. of Environmental Health	1,690
Hudson Valley Mental Health	3,860
Vacant	2,000
Building Support Areas - County	230
Subtotal - Dutchess County Areas	**17,880**
Dept Gross SF to Bldg Gross SF Factor (14%)	2,500
Dutchess County Areas GSF	**20,380**
TOTAL GSF - OPTIONS #3 & 4	**43,445**

Parking Calculations

- **2014 parking study indicated County Lot never exceeded 70% full.**
- **Multiple potential calculation methods considered:**
  - **Alt Method #1** – Match existing for City & County. Fire Station per MAA recommendations.
  - **Alt Method #2** – City per Beacon ordinance, County to match existing, Fire Station per MAA recommendations.
  - **Alt Method #3** – City per Beacon ordinance, County at 69% of existing, Fire Station per MAA recommendations.
- **Method used per current ordinance:**
- 2 spaces/1000 SF of floor area (office and nonretail commercial).

Parking Calculations

- **2014 parking study indicated County Lot never exceeded 70% full**
- **Multiple potential calculation methods considered:**
  - **Alt Method #1** – Match existing for City & County. Fire Station per MAA recommendations
  - **Alt Method #2** – City per Beacon ordinance, County to match existing, Fire Station per MAA recommendations
  - **Alt Method #3** – City per Beacon ordinance, County at 69% of existing, Fire Station per MAA recommendations
- **Method used per current ordinance:**
  - **2 spaces/1000 SF** of floor area (office and nonretail commercial)

Parking Calculations

EXISTING PARKING

QUANTITIES AND TYPES OF EXISTING STALLS AT CITY AND COUNTY PROPERTIES

	# STANDARD STALLS	# H'CAP STALLS	# TOTAL STALLS	
Existing City Hall Site	72	6	78	(49 standard & 4 h'cap stalls for Police not included)
Existing County Site	88	4	92	
Subtotal City & County On-Site	**160**	**10**	**170**	(total # of stalls on existing City Hall and County Sites)
On-Street Stalls (Main Street)	7	0	7	(fronting on County property)
TOTAL EXISTING STALLS	**167**	**10**	**177**	

NEW PARKING REQUIREMENTS (1)

OPTION #1 - CONSTRUCT NEW COMBINED CITY/COUNTY BLDG WITH FIRE STATION ON SAME SITE

		BLDG GSF	# STANDARD STALLS	# H'CAP STALLS	# TOTAL REQ'D STALLS	
Apportioned to City Hall (2)	45%	19,544	37	2	39	(based on 223-41.18)
Apportioned to County (3)	55%	23,902	45	3	48	(based on 223-41.18)
Subtotal - City & County		**43,445**	**82**	**5**	**87**	
Fire Station		26,617	42	2	44	(as recommended by MA)
TOTAL STALLS REQUIRED			**124**	**7**	**131**	

OPTION #2 - CONSTRUCT NEW CITY HALL (20,000 SF), WITH IMPROVEMENTS AT COUNTY BLDG

	BLDG GSF	# STANDARD STALLS	# H'CAP STALLS	# TOTAL REQ'D STALLS	
New City Hall	20,190	38	2	40	(based on 223-41.18)
Existing County Bldg	21,143	39	3	42	(based on 223-41.18)
TOTAL STALLS REQUIRED		**78**	**5**	**83**	

OPTION #2 - CONSTRUCT NEW CITY HALL (17,000 SF), WITH IMPROVEMENTS AT COUNTY BLDG

	BLDG GSF	# STANDARD STALLS	# H'CAP STALLS	# TOTAL REQ'D STALLS	
New City Hall	17,340	33	2	35	(based on 223-41.18)
Existing County Bldg	21,143	39	3	42	(based on 223-41.18)
TOTAL STALLS REQUIRED		**72**	**5**	**77**	

OPTIONS #3 & #4 - CONSTRUCT NEW COMBINED CITY/COUNTY BUILDING

		BLDG GSF	# STANDARD STALLS	# H'CAP STALLS	# TOTAL REQ'D STALLS	
Apportioned to City Hall (2)	45%	19,544	37	2	39	(based on 223-41.18)
Apportioned to County (3)	55%	23,902	45	3	48	(based on 223-41.18)
TOTAL STALLS REQUIRED			**82**	**5**	**87**	

ADDITIONAL PARKING STALLS AVAILABLE (4)

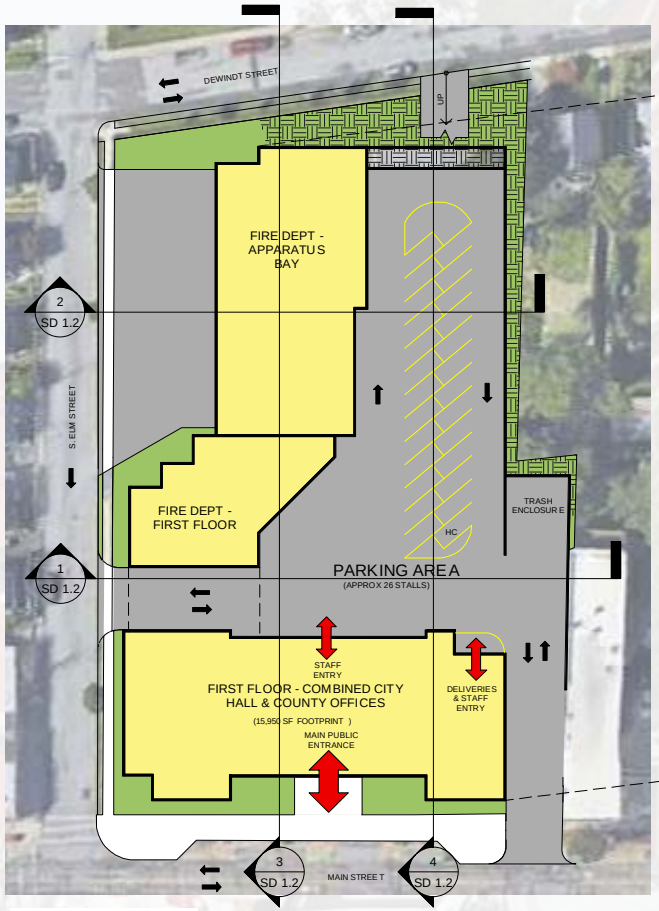
	OPTION #1	OPTION #2 (20,000 SF)	OPTION #2 (17,000 SF)	OPTION #3	OPTION #4
Standard Stalls Provided	155	103	103	107	107
Handicapped Stalls Provided	7	5	5	5	5
Total Stalls Provided On-Site	162	108	108	112	112
Minimum # of Stalls Required On-Site	131	83	77	87	87
Addt'l Stalls Provided On-Site	31	25	31	25	25
On-Street Stalls Provided (S. Elm Street)	0	5	5	5	5
ADDT'L PARKING STALLS AVAILABLE	**31**	**30**	**36**	**30**	**30**

(1) City and County needs per Beacon Ordinance 223-41.18. Fire Station (under option 1) per MAA recommendations. Handicapped per 2015 NY State Bldg Code.
(2) City Hall functions apportioned at 45% of total combined GSF based on Space Summary.
(3) County functions apportioned at 55% of total combined GSF based on Space Summary.
(4) Quantities noted are available for public use beyond the number of stalls necessary to meet ordinance requirements.

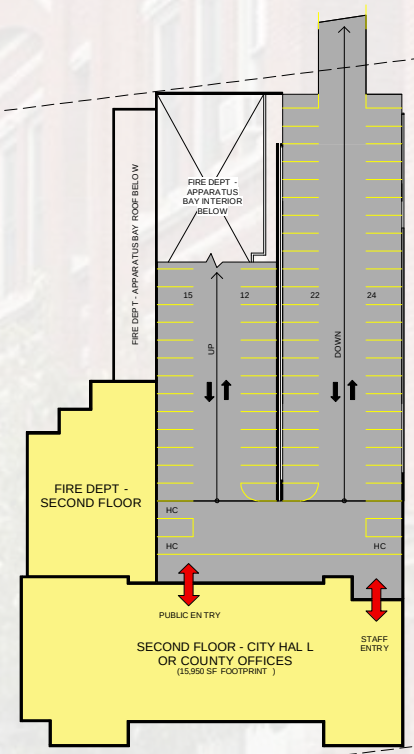
Mitchell Associates Architects

Plans – Option 1

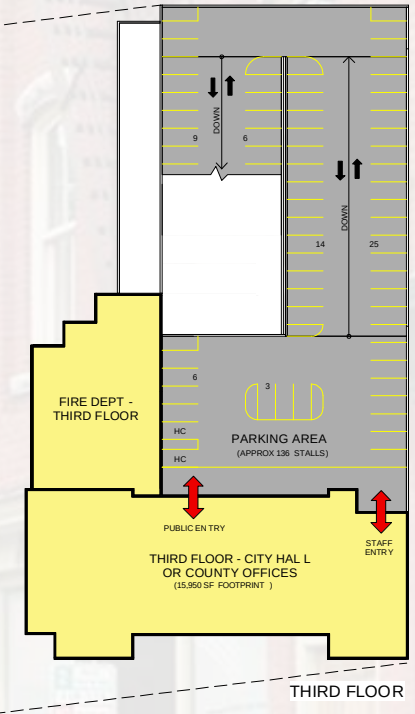
NEW COMBINED CITY/COUNTY BUILDING WITH NEW FIRE STATION ON SAME SITE



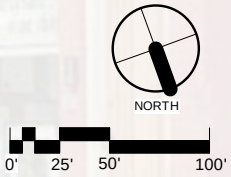
MAIN FLOOR AND SIT E



SECOND FLOOR



THIRD FLOOR



Mitchell Associates Architects

Plans – Option 1

NEW COMBINED CITY/COUNTY BUILDING WITH NEW FIRE STATION ON SAME SITE

43,500 SF City/County building (+/-)

- 3 stories
- Frontage and main entry on Main Street
- Access from parking area on back side

26,500 SF Fire Station (+/-)

- 3 story business & living, 1 story apparatus bay
- Frontage on South Elm

New Parking Structure Required

- 136 stalls, with access from DeWindt Street (only 131 total needed)
- 26 separate stalls, with access from S. Elm Street
- Results in approximately 31 more stalls than minimum ordinance requirements.

Option 1

NEW COMBINED CITY/COUNTY BUILDING WITH NEW FIRE STATION ON SAME SITE

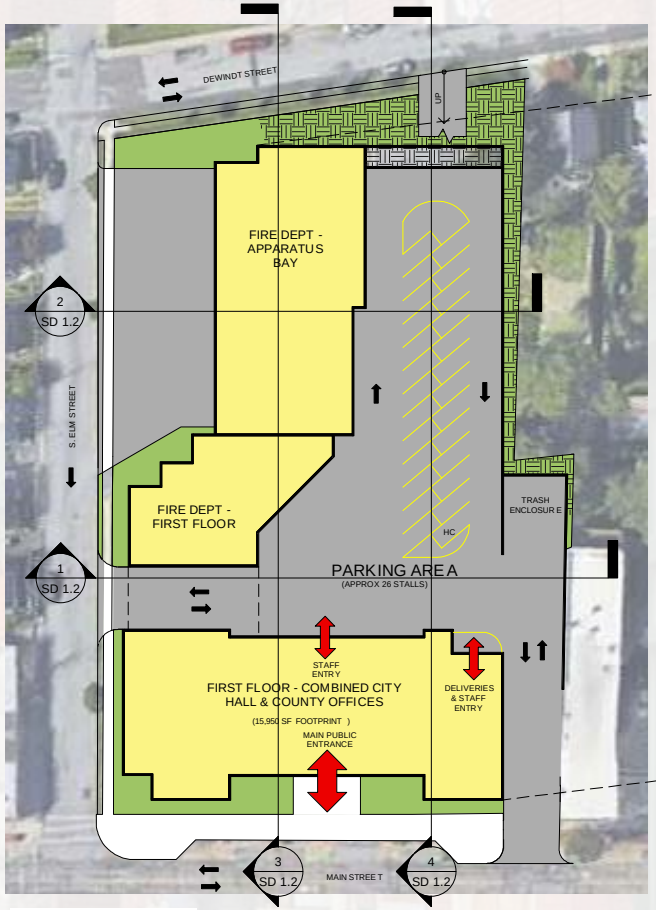
Mitchell Associates Architects

Design Considerations – Option 1

NEW COMBINED CITY/COUNTY BUILDING WITH NEW FIRE STATION ON SAME SITE

SITE

- Site will be completely “built-out”. No expansions possible.
- Parking deck increases traffic in neighborhood.
- Parking deck adds up-front costs and incurs future maintenance costs.
- Parking deck limits natural lighting to both Fire Station and City/County Building.
- South Elm Street will likely need to be widened.
- South Elm must be revised to 2-way street.
- County building demolished. (Historic District but of limited value due to renovations.)
- Hazardous materials (County building) will need abatement.



MAIN FLOOR AND SIT E

Mitchell Associates Architects

Design Considerations – Option 1

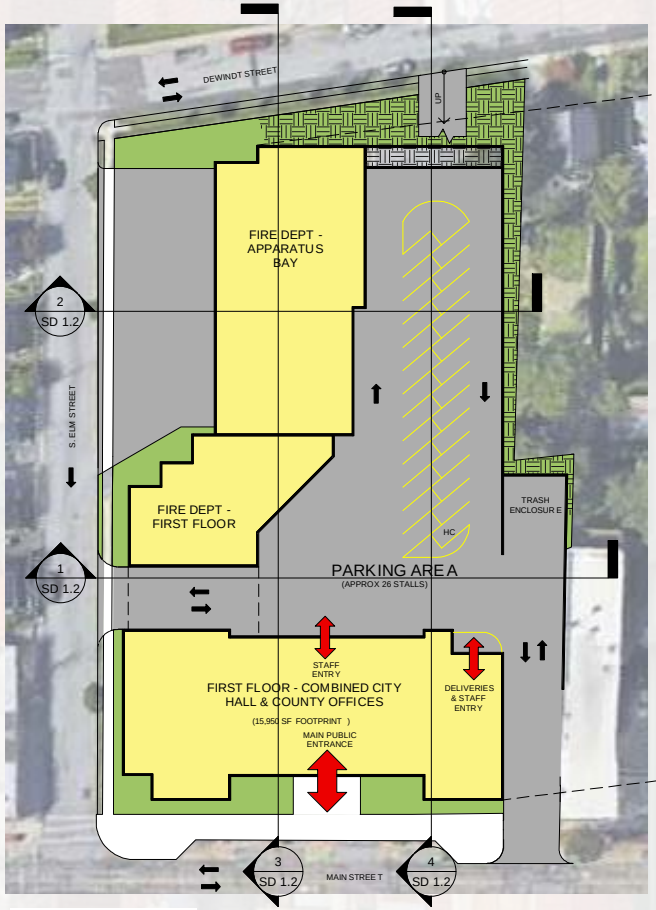
NEW COMBINED CITY/COUNTY BUILDING WITH NEW FIRE STATION ON SAME SITE

FIRE STATION

- No opportunities for outdoor Fire Department training
- Fire Department vehicles must be backed into the bays, disrupting traffic.
- South Elm Street residents disturbed during emergency responses.
- Fire Department building SF is larger due to 3-story height.
- Fire station is an essential facility (NY State Building Code & FEMA).

CITY / COUNTY

- Multiple public entrances make security screening more costly.
- County will need to temporarily relocate operations for 12-15 months.

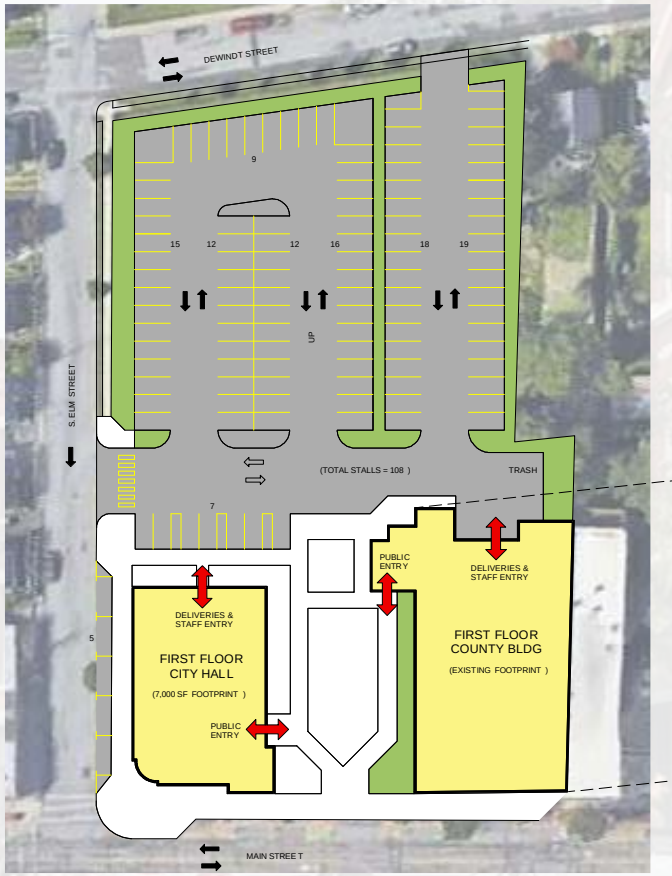


MAIN FLOOR AND SIT E

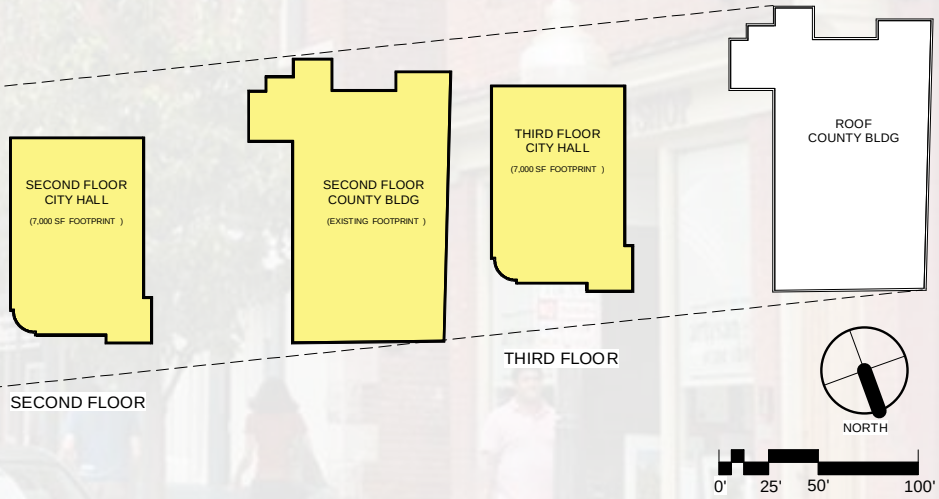
Mitchell Associates Architects

Plans - Option 2

NEW CITY HALL, WITH IMPROVEMENTS TO COUNTY BUILDING



MAIN FLOOR AND SIT E



Mitchell Associates Architects

New City Hall with Improvements to County Building

Plans - Option 2

NEW CITY HALL, WITH IMPROVEMENTS TO COUNTY BUILDING

17,000 to 20,000 SF City building (+/-)

- 3 stories
- Pocket park
- Access from parking area on back side
- Existing County building to remain, ideally with some exterior improvements, but unknown at this time.

Parking

- 108 parking stalls provided (only 83 total needed)
- Resulting in 25 more stalls than minimum ordinance req'mts.
- County has suggested they need 92 stalls, but 2014 study shows its never above 70% occupied
- Access from South Elm and DeWindt
- South Elm Street should have direction changed

Option 2

NEW CITY HALL, WITH IMPROVEMENTS TO COUNTY BUILDING

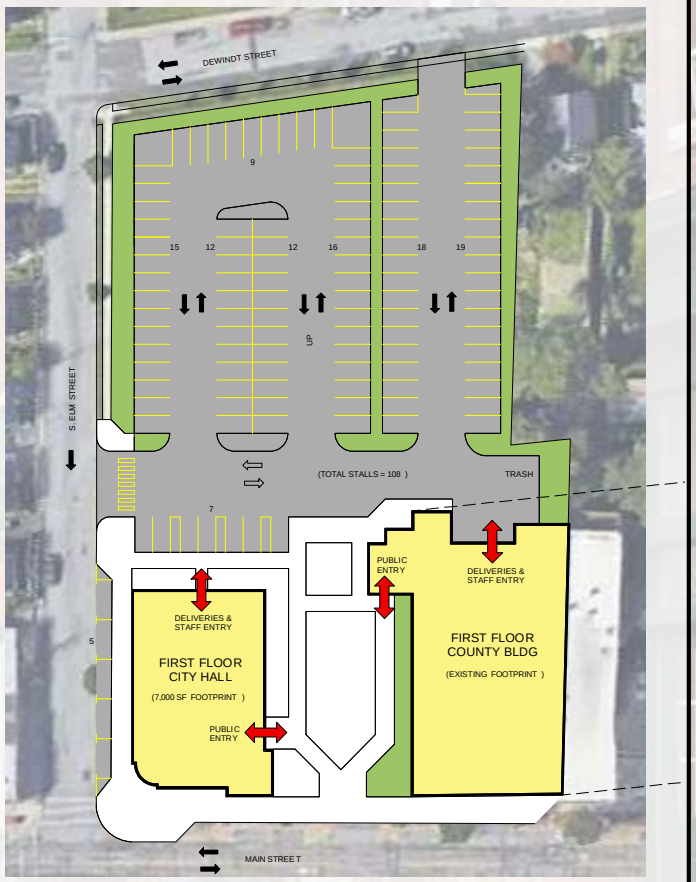
Mitchell Associates Architects

Design Considerations - Option 2

NEW CITY HALL, WITH IMPROVEMENTS TO COUNTY BUILDING

SITE

- Plan is in keeping with 2017 Comprehensive Plan and includes pocket park.
- Shared on-grade parking is ample, with drive access onto South Elm and DeWindt Streets.
- South Elm should be revised to 2-way street.
- Demolition and hazardous materials abatement limited.
- Plan is in keeping with 2017 Comprehensive Plan.



MAIN FLOOR AND SIT E

Mitchell Associates Architects

Design Considerations - Option 2

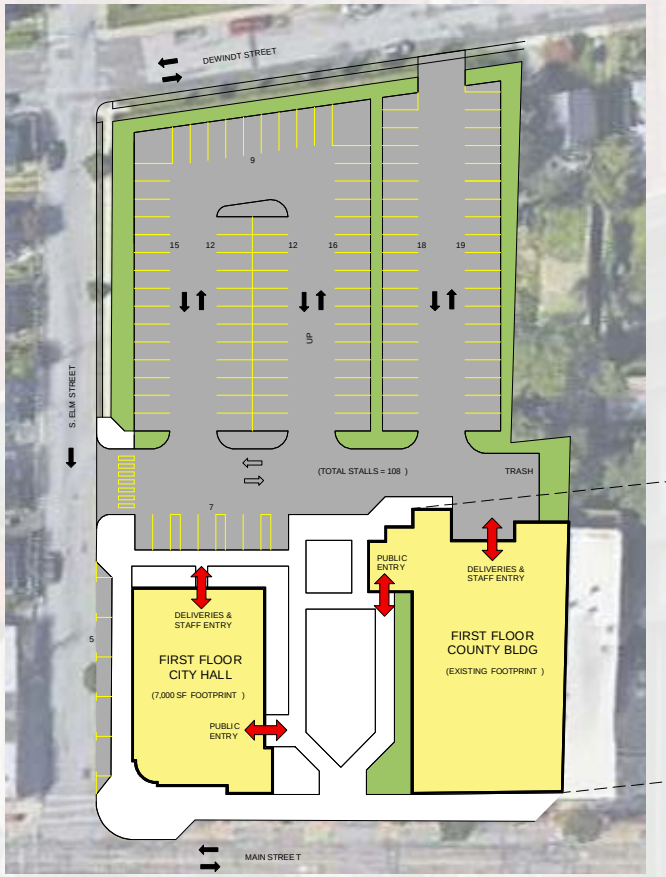
NEW CITY HALL, WITH IMPROVEMENTS TO COUNTY BUILDING

CITY

- Single City Hall public entry simplifies security screening.
- Daylighting opportunities on all sides of City Hall.
- Building out to sidewalk limits physical barriers at building perimeter.
- Ordinances restricts building height to 38’, making ceiling heights greater than 8’ difficult to achieve.
- Ordinance requirements for glazing at street level may be problematic.
- Construction cost is lowest of all options.

COUNTY

- County facility remains occupied during construction, but with parking disrupted.
- Improvements to County facility need to be determined.

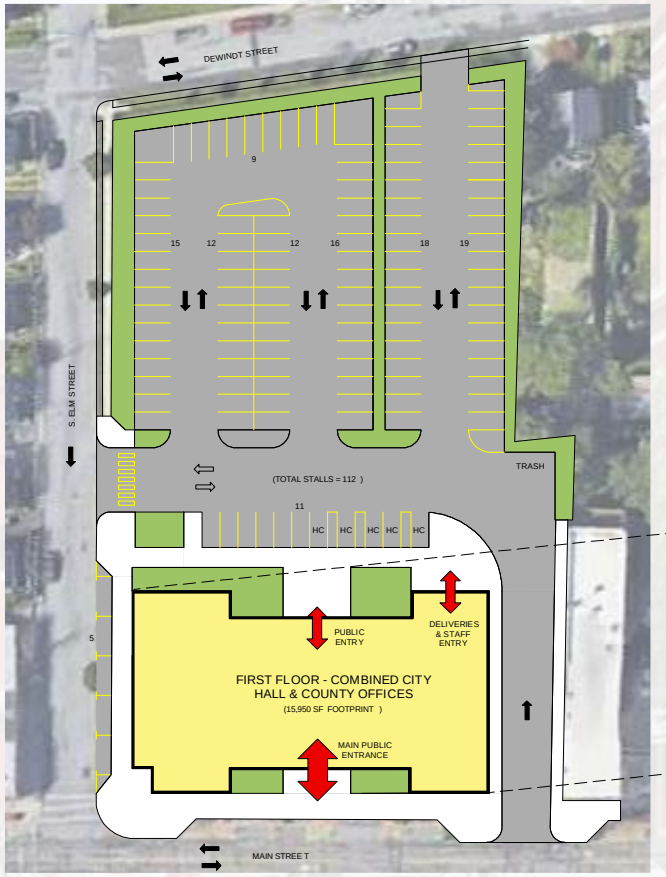


MAIN FLOOR AND SIT E

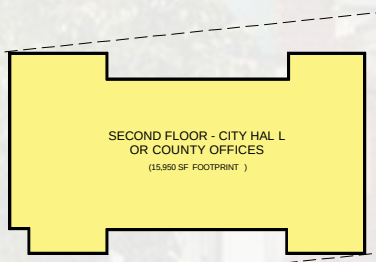
Mitchell Associates Architects

Plans - Option 3

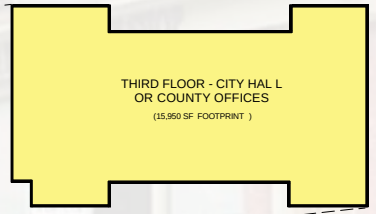
COMBINED CITY/COUNTY BUILDING (W/ DRIVE ACCESS ONTO MAIN STREET)



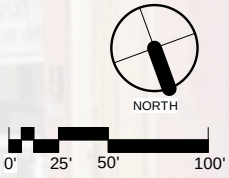
MAIN FLOOR AND SIT E



SECOND FLOOR



THIRD FLOOR



Mitchell Associates Architects

New Combined City/County Building with Drive Access to Main Street

Plans - Option 3

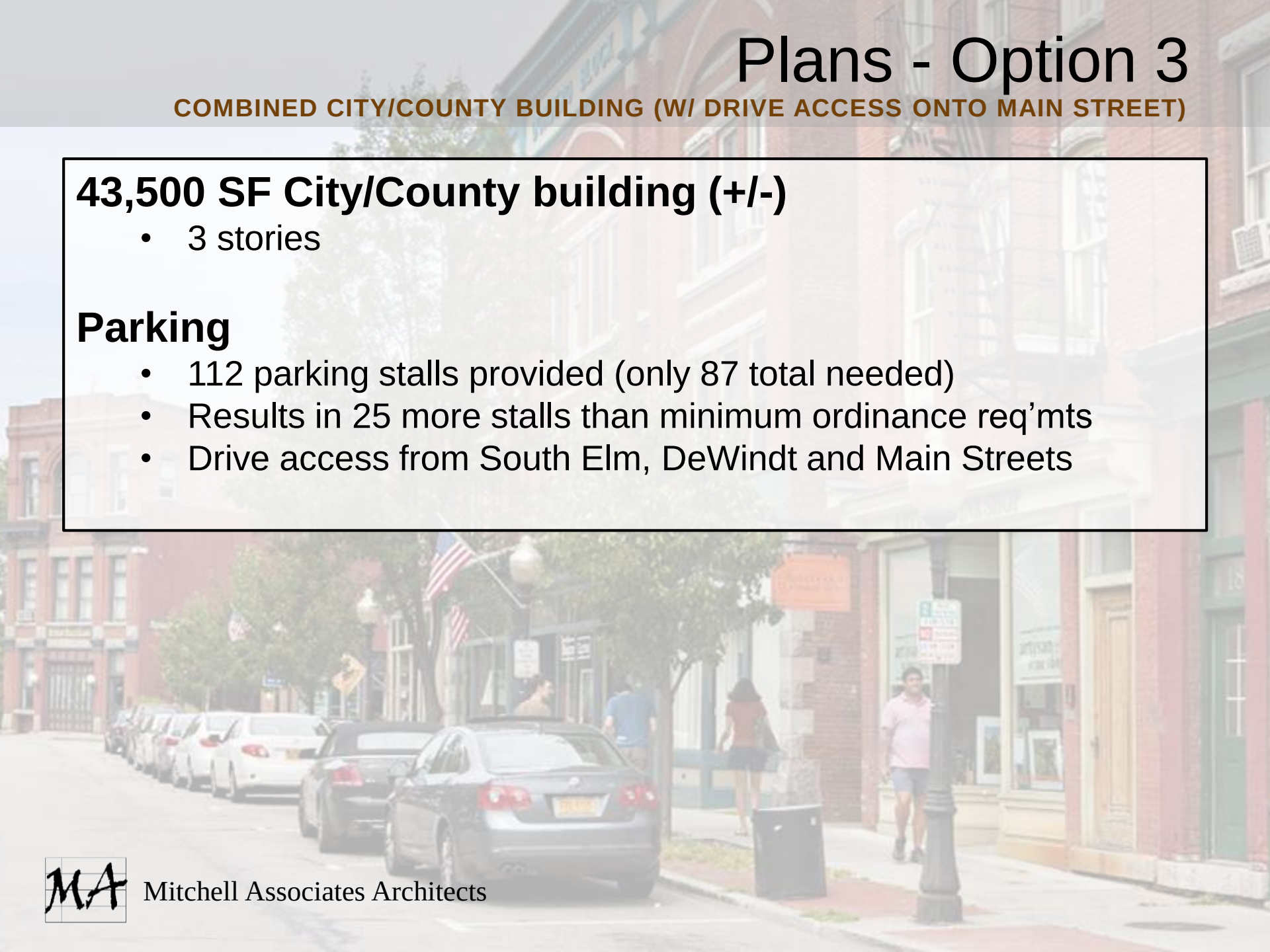
COMBINED CITY/COUNTY BUILDING (W/ DRIVE ACCESS ONTO MAIN STREET)

43,500 SF City/County building (+/-)

- 3 stories

Parking

- 112 parking stalls provided (only 87 total needed)
- Results in 25 more stalls than minimum ordinance req'mts
- Drive access from South Elm, DeWindt and Main Streets



Option 3

COMBINED CITY/COUNTY BUILDING (W/ DRIVE ACCESS ONTO MAIN STREET)

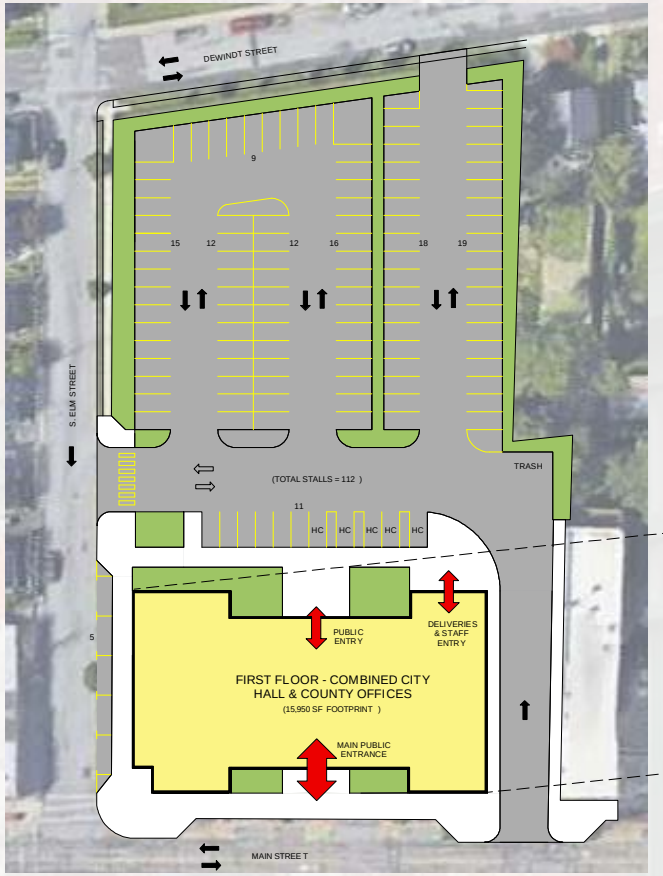
Mitchell Associates Architects

Design Considerations - Option 3

COMBINED CITY/COUNTY BUILDING (W/ DRIVE ACCESS ONTO MAIN STREET)

SITE

- Shared on-grade parking is ample, with drive access to South Elm, DeWindt and Main Streets.
- South Elm could remain 1-way, but 2-way is recommended.
- County building demolished. (Historic District but of limited value due to renovations.)
- Hazardous materials (County building) will need abatement.



MAIN FLOOR AND SIT E

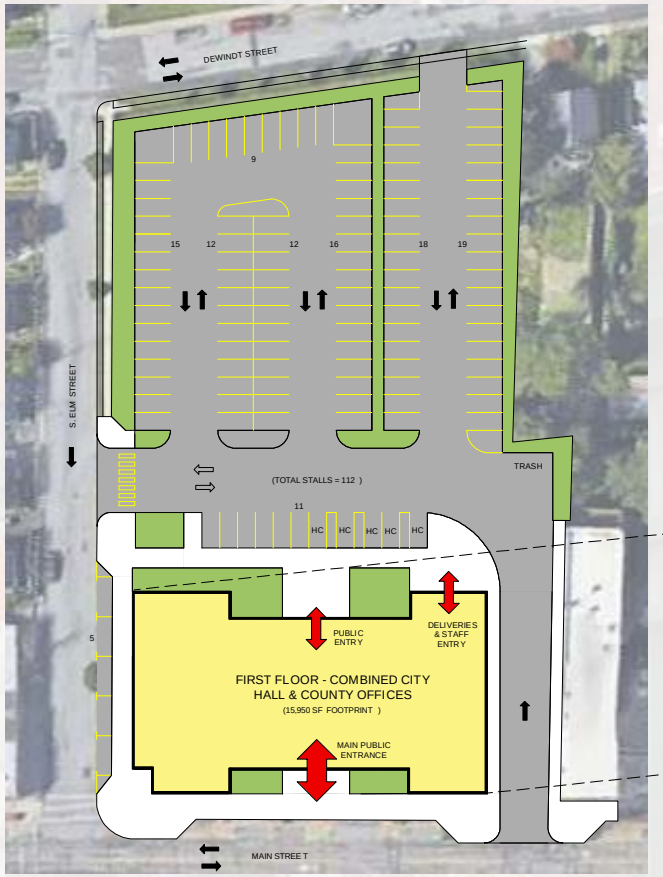
Mitchell Associates Architects

Design Considerations - Option 3

COMBINED CITY/COUNTY BUILDING (W/ DRIVE ACCESS ONTO MAIN STREET)

CITY / COUNTY

- Single shared public entry simplifies security screening.
- Daylighting opportunities on all sides.
- City and County share some public spaces.
- Building out to sidewalk limits physical barriers at building perimeter.
- Ordinances restricts building height to 38’, making ceiling heights greater than 8’ difficult to achieve.
- Ordinance requirements for glazing at street level may be problematic.
- Increased costs due to demolition of County building.
- County will need to temporarily relocate operations for 12-15 months.

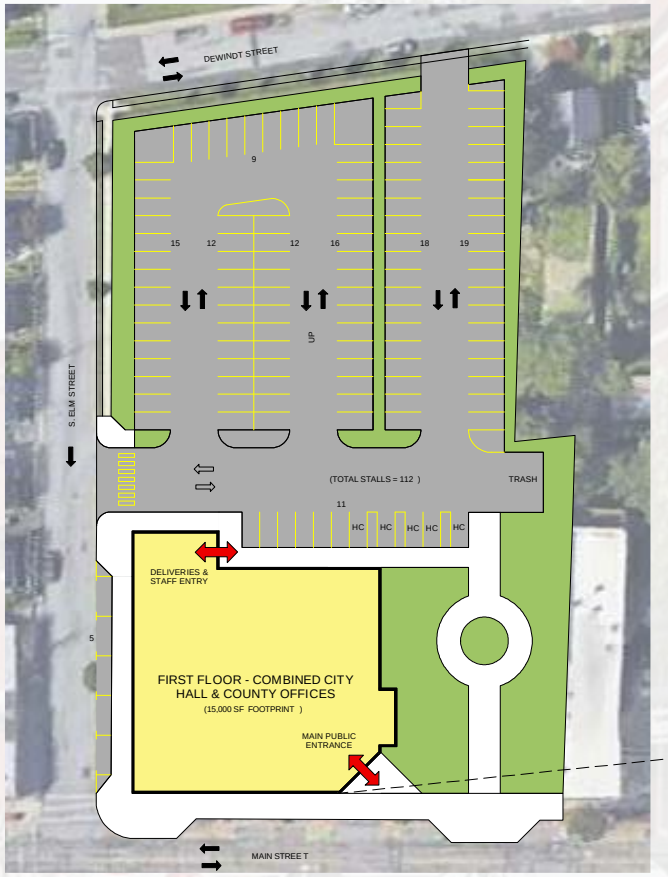


MAIN FLOOR AND SIT E

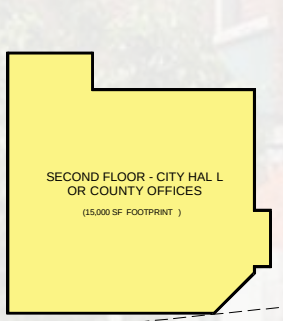
Mitchell Associates Architects

Plans - Option 4

COMBINED CITY/COUNTY BUILDING (W/ POCKET PARK)

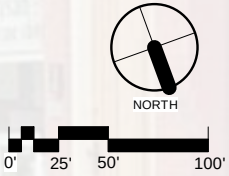


MAIN FLOOR AND SIT E



SECOND FLOOR

THIRD FLOOR



Mitchell Associates Architects

New City/County Building with Pocket Park

Plans - Option 4

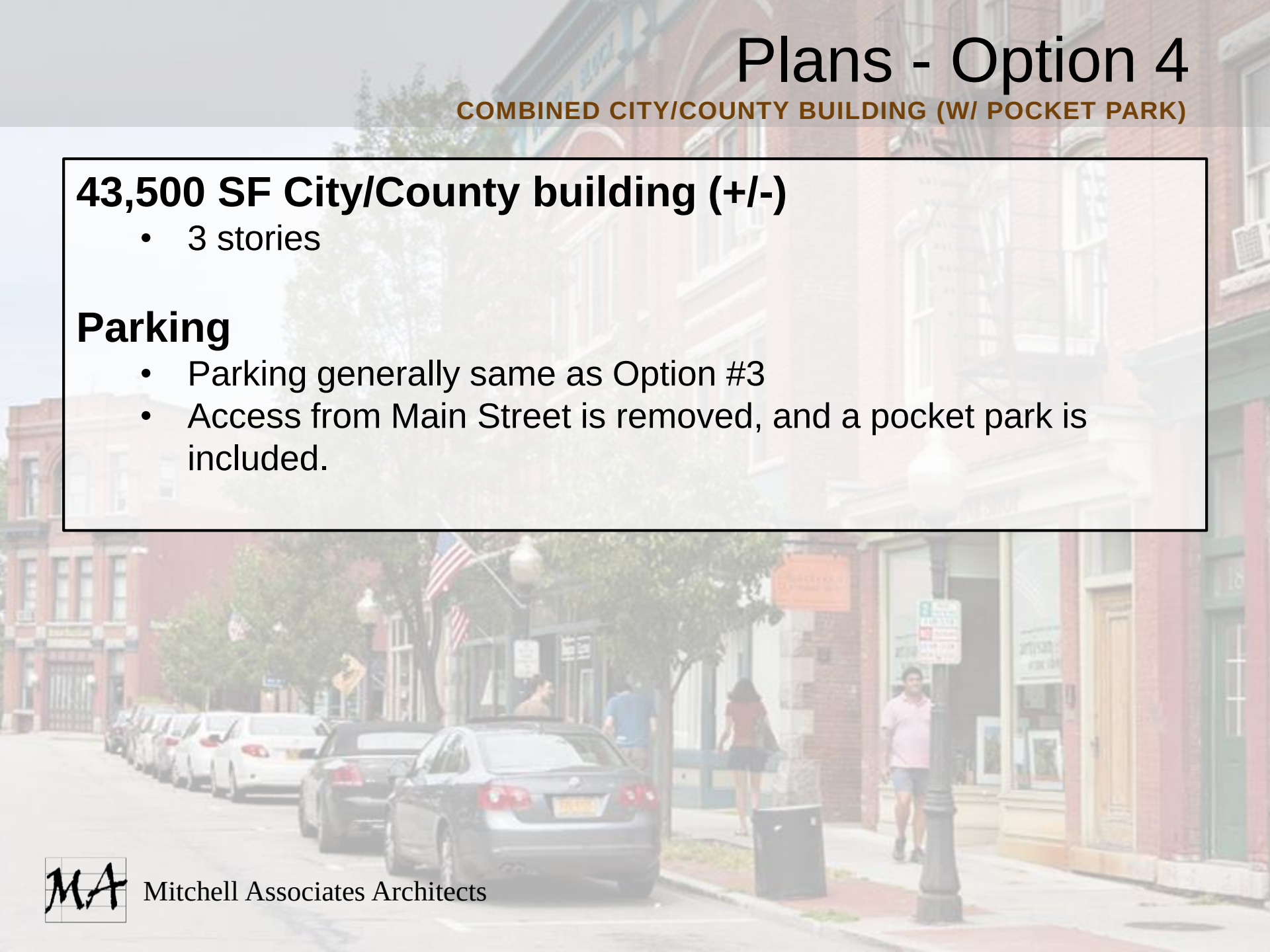
COMBINED CITY/COUNTY BUILDING (W/ POCKET PARK)

43,500 SF City/County building (+/-)

- 3 stories

Parking

- Parking generally same as Option #3
- Access from Main Street is removed, and a pocket park is included.



Option 4

COMBINED CITY/COUNTY BUILDING (W/ POCKET PARK)

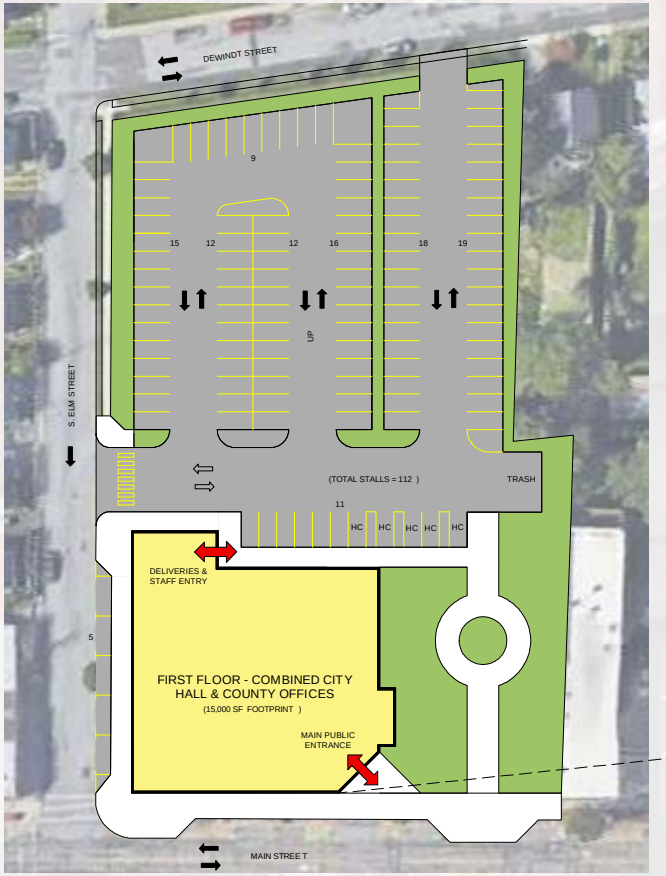
Mitchell Associates Architects

Design Considerations - Option 4

COMBINED CITY/COUNTY BUILDING (W/ POCKET PARK)

SITE

- Plan is in keeping with 2017 Comprehensive Plan and includes pocket park.
- Shared on-grade parking is ample, with drive access onto South Elm and DeWindt Streets.
- South Elm should be revised to 2-way street.
- County building demolished (Historic District but of limited value due to renovations).
- Hazardous materials (County building) will need abatement.



MAIN FLOOR AND SIT E

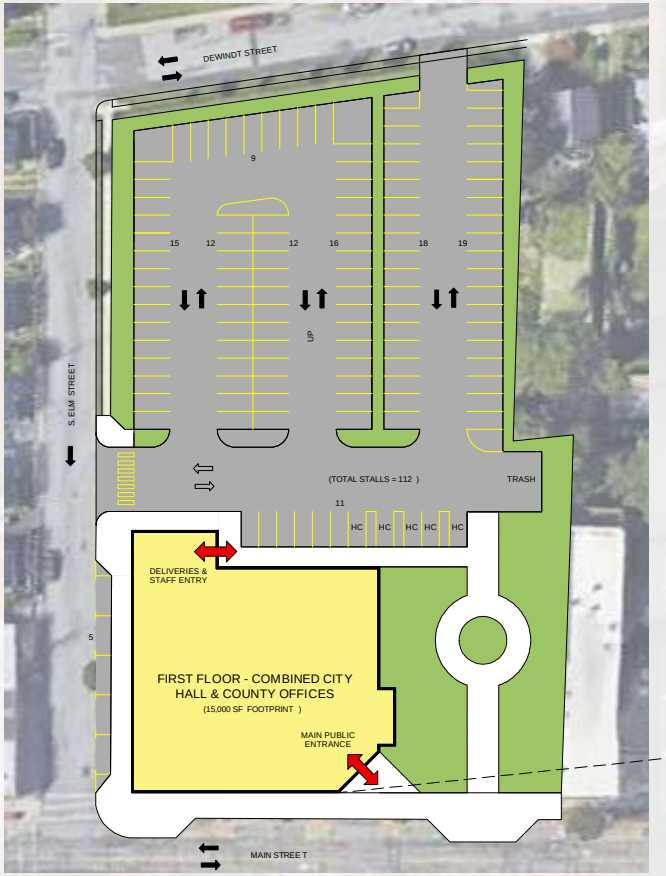
Mitchell Associates Architects

Design Considerations - Option 4

COMBINED CITY/COUNTY BUILDING (W/ POCKET PARK)

CITY / COUNTY

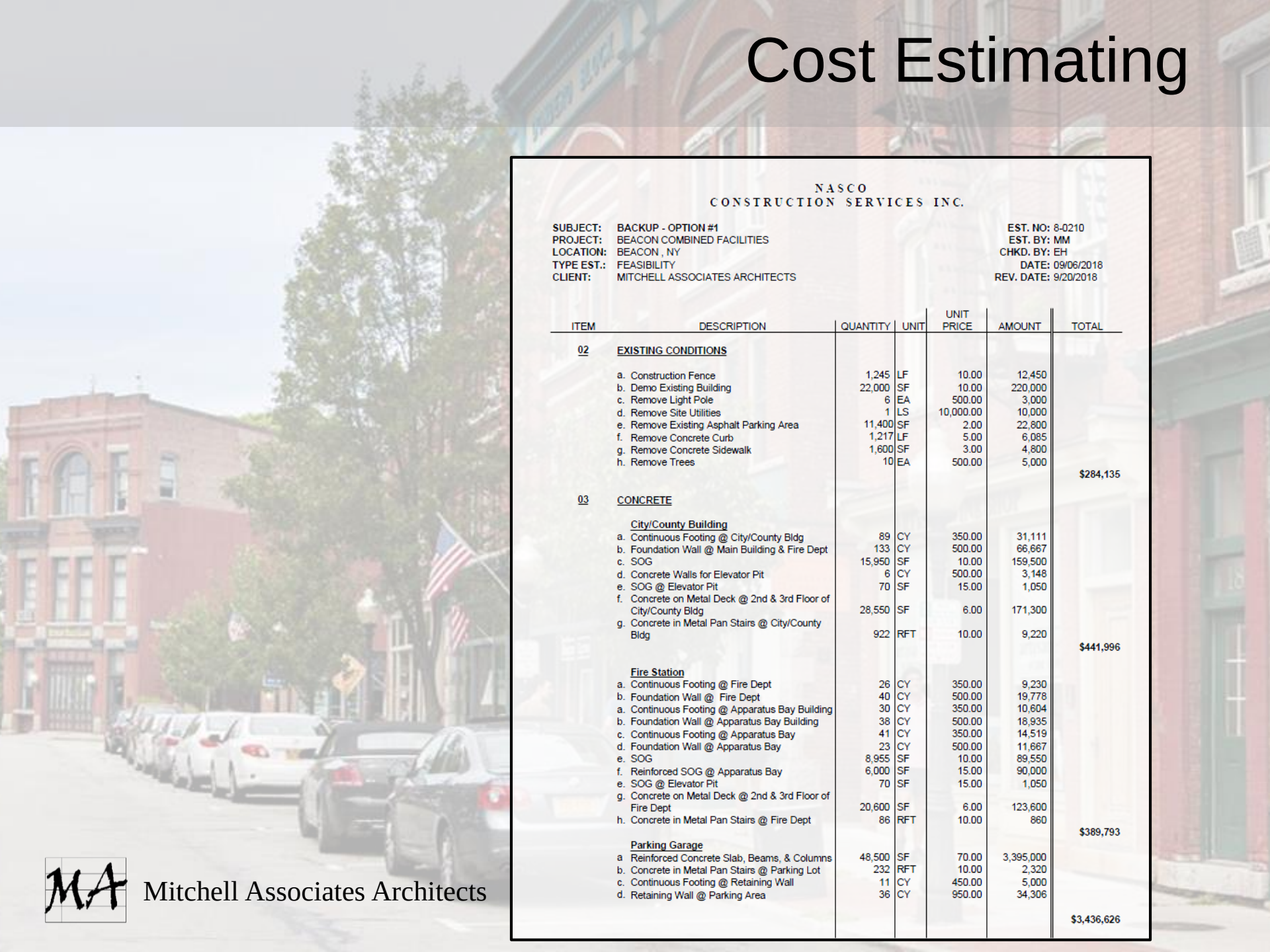
- Single public entry simplifies security screening
- Daylighting opportunities on all sides.
- City and County share parking area and some public spaces
- Improvements to County facility need to be determined
- Building out to sidewalk limits physical barriers at building perimeter
- Ordinances restricts building height to 38’, making ceiling heights greater than 8’ difficult to achieve
- Ordinance requirements for glazing at street level may be problematic.
- Increased costs due to demolition of County building
- County facility remains occupied during construction, but with parking disrupted



MAIN FLOOR AND SIT E

Mitchell Associates Architects

Cost Estimating



NASCO
CONSTRUCTION SERVICES INC.

SUBJECT:	BACKUP - OPTION #1	**EST. NO:**	8-0210
PROJECT:	BEACON COMBINED FACILITIES	**EST. BY:**	MM
LOCATION:	BEACON , NY	**CHKD. BY:**	EH
TYPE EST.:	FEASIBILITY	**DATE:**	09/06/2018
CLIENT:	MITCHELL ASSOCIATES ARCHITECTS	**REV. DATE:**	9/20/2018

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	TOTAL
02	**EXISTING CONDITIONS**					
	a. Construction Fence	1,245	LF	10.00	12,450	
	b. Demo Existing Building	22,000	SF	10.00	220,000	
	c. Remove Light Pole	6	EA	500.00	3,000	
	d. Remove Site Utilities	1	LS	10,000.00	10,000	
	e. Remove Existing Asphalt Parking Area	11,400	SF	2.00	22,800	
	f. Remove Concrete Curb	1,217	LF	5.00	6,085	
	g. Remove Concrete Sidewalk	1,600	SF	3.00	4,800	
	h. Remove Trees	10	EA	500.00	5,000	
						$284,135
03	**CONCRETE**					
	City/County Building					
	a. Continuous Footing @ City/County Bldg	89	CY	350.00	31,111	
	b. Foundation Wall @ Main Building & Fire Dept	133	CY	500.00	66,667	
	c. SOG	15,950	SF	10.00	159,500	
	d. Concrete Walls for Elevator Pit	6	CY	500.00	3,148	
	e. SOG @ Elevator Pit	70	SF	15.00	1,050	
	f. Concrete on Metal Deck @ 2nd & 3rd Floor of City/County Bldg	28,550	SF	6.00	171,300	
	g. Concrete in Metal Pan Stairs @ City/County Bldg	922	RFT	10.00	9,220	
						$441,996
	Fire Station					
	a. Continuous Footing @ Fire Dept	26	CY	350.00	9,230	
	b. Foundation Wall @ Fire Dept	40	CY	500.00	19,778	
	a. Continuous Footing @ Apparatus Bay Building	30	CY	350.00	10,604	
	b. Foundation Wall @ Apparatus Bay Building	38	CY	500.00	18,935	
	c. Continuous Footing @ Apparatus Bay	41	CY	350.00	14,519	
	d. Foundation Wall @ Apparatus Bay	23	CY	500.00	11,667	
	e. SOG	8,955	SF	10.00	89,550	
	f. Reinforced SOG @ Apparatus Bay	6,000	SF	15.00	90,000	
	e. SOG @ Elevator Pit	70	SF	15.00	1,050	
	g. Concrete on Metal Deck @ 2nd & 3rd Floor of Fire Dept	20,600	SF	6.00	123,600	
	h. Concrete in Metal Pan Stairs @ Fire Dept	86	RFT	10.00	860	
						$389,793
	Parking Garage					
	a Reinforced Concrete Slab, Beams, & Columns	48,500	SF	70.00	3,395,000	
	b. Concrete in Metal Pan Stairs @ Parking Lot	232	RFT	10.00	2,320	
	c. Continuous Footing @ Retaining Wall	11	CY	450.00	5,000	
	d. Retaining Wall @ Parking Area	36	CY	950.00	34,306	
						$3,436,626

Mitchell Associates Architects

Cost Estimating

NASCO
CONSTRUCTION SERVICES INC.

SUBJECT:	**GENERAL NOTES & QUALIFICATIONS**	**EST. NO:**	8-0210
PROJECT:	BEACON COMBINED FACILITIES	**EST. BY:**	MM
LOCATION:	BEACON , NY	**CHKD. BY:**	EH
TYPE EST.:	FEASIBILITY	**DATE:**	09/06/2018
CLIENT:	MITCHELL ASSOCIATES ARCHITECTS	**REV. DATE:**	9/20/2018

TOTAL ANTICIPATED PROJECT COST OPTION #1		**$46,522,500**
CITY/COUNTY BUILDING	**$26,667,000**	
FIRE STATION	**$10,499,300**	
PARKING GARAGE	**$9,356,200**	
TOTAL ANTICIPATED PROJECT COST OPTION #2		**$11,330,600**
TOTAL ANTICIPATED PROJECT COST OPTION #3		**$21,321,400**
TOTAL ANTICIPATED PROJECT COST OPTION #4		**$20,776,100**

1. ALL PRICES ARE BASED ON SEPTEMBER 2018 CONSTRUCTION COSTS.

Initial Budgeting

- 3rd party estimator did construction budgets for each option
- Budgets include construction contingencies and soft cost multiplier to cover testing, fees, abatement, etc.
- Costs are very preliminary, and should be considered “order of magnitude”
- Costs escalated to assume construction starting Spring of 2020

Initial Budgeting

INITIAL CONSTRUCTION BUDGETING

OPTION #1 - NEW COMBINED CITY/COUNTY BUILDING WITH FIRE STATION ON SAME SITE

ITEM	AMOUNT (million)
Combined City/County Building	$ 26.7
Fire Station	$ 10.5
Parking Garage	$ 9.4
Subtotal - Construction Budget	$ 46.6
Construction Contingency (5%)	$ 2.3
Soft Cost Multiplier (20%)	$ 9.3
Initial Project Budget	**$ 58.3 million**

OPTION #2 - NEW CITY HALL (17,000 SF) WITH IMPROVEMENTS AT COUNTY BLDG

ITEM	AMOUNT (million)
City Hall Building	$ 10.4
Subtotal - Construction Budget	$ 10.4
Construction Contingency (5%)	$ 0.5
Soft Cost Multiplier (20%)	$ 2.1
Initial Project Budget	**$ 13.0 million**

OPTION #2 - NEW CITY HALL (20,000 SF) WITH IMPROVEMENTS AT COUNTY BLDG

ITEM	AMOUNT (million)
City Hall Building	$ 11.3
Subtotal - Construction Budget	$ 11.3
Construction Contingency (5%)	$ 0.6
Soft Cost Multiplier (20%)	$ 2.3
Initial Project Budget	**$ 14.1 million**

OPTION #3 - NEW COMBINED CITY/COUNTY BUILDING (WITH DRIVE AISLE TO MAIN STREET)

ITEM	AMOUNT (million)
Combined City/County Building	$ 21.3
Subtotal - Construction Budget	$ 21.3
Construction Contingency (5%)	$ 1.1
Soft Cost Multiplier (20%)	$ 4.3
Initial Project Budget	**$ 26.7 million**

OPTION #4 - NEW COMBINED CITY/COUNTY BUILDING (WITH POCKET PARK)

ITEM	AMOUNT (million)
Combined City/County Building	$ 20.8
Subtotal - Construction Budget	$ 20.8
Construction Contingency (5%)	$ 1.0
Soft Cost Multiplier (20%)	$ 4.2
Initial Project Budget	**$ 26.0 million**

Summary – Fire Station

The fire station should not be co-located on Main Street

- Exiting onto South Elm Street is unacceptable
- Parking requirements would result in the apparatus bay roof being a parking deck. Unacceptable for an Essential Facility
- Traffic congestion conflicts with response time goals
- Traffic and pedestrian congestion invite accidents
- Fire station conflicts with 2017 Comprehensive Plan

Summary – Fire Station

In 2016 and 2017 Mitchell Associates Architects worked with the Beacon Site Selection Committee to determine programmatic needs and to identify the best site for a consolidated fire headquarters.

The Committee was comprised of City personnel, firefighters, and community representatives, and as a result of their efforts the “City of Beacon Site Selection Report” was produced.

Summary – Fire Station

The Committee was in unanimous agreement regarding location and that a 2-story headquarters would require 24,309 SF of gross area to meet programmatic needs.

The City should proceed with the Committee's recommendations for scope and site.

Summary – City Hall

City Hall should be replaced by a building that supports the staff mission, and respectfully serves the public.

Based on potential funding available for construction and on future negotiations with Dutchess County, one of the remaining options should be selected by the City for further development if the City wishes to proceed with potentially cohabiting the 223 Main Street site with the County.

Conclusions

1. **City, County and Fire Station all cohabiting the Main Street site is not feasible**
2. **Locating Fire Station on this site is detrimental to its mission**
3. **Parking structure is costly and only required if Fire Station is on-site**
4. **Locating City Hall on site is feasible**
5. **Cohabiting a shared City/County building is feasible, but sharing of spaces is limited**

Something Needs to be Done

Mitchell Associates Architects

Next Steps – Fire Station

- Authorize architect to continue design of the fire station on the selected site and funded by the existing County grant
- Commence alienation process to allow use of the site for the fire station

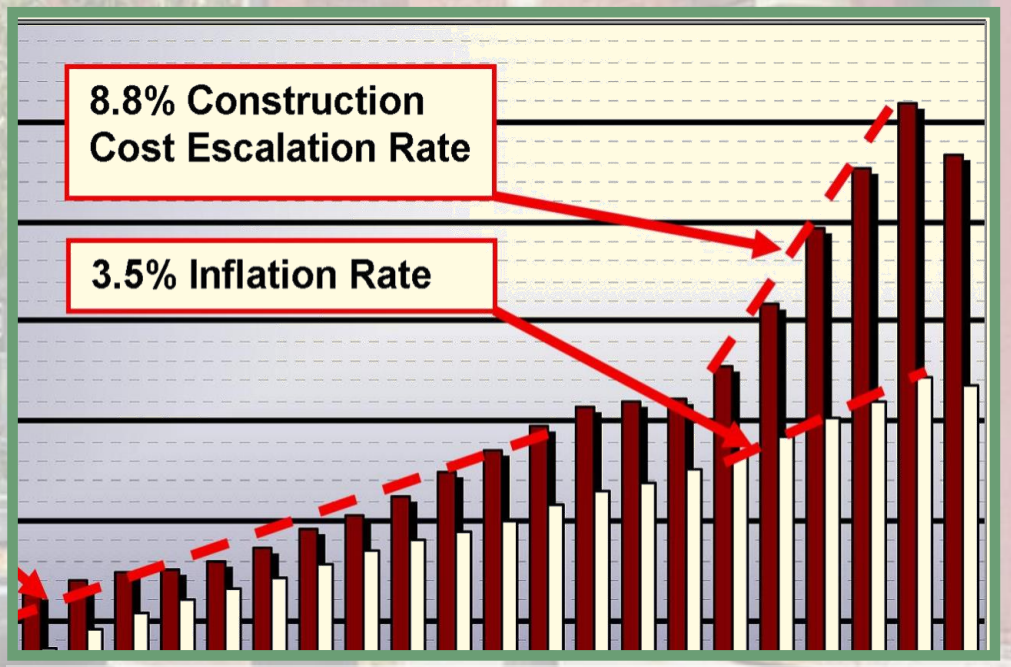
Next Steps – City & County

- Identify a project budget acceptable to the City of Beacon, including cost sharing arrangements with Dutchess County.
- Meet with Dutchess County representatives and determine the mutual interest in the potential cohabiting of the existing site.
- Proceed with obtaining geotechnical and survey information for the full site.
- Organize list of City stake-holders and verify specific information on all space needs.
- Organize list of County stake-holders (including all separate entities with offices within the existing County facility) and verify specific information on all space needs.
- Develop preliminary plan diagrams for the building and further refine cost estimates.

Cost of Delay

By The Time You Build, Construction Costs Will Have Approximately Doubled Since Our First Study in 2006

5% Inflation For 14 Years
Equals a Multiplier of 1.98



Source – Turner Construction Company

Questions

Mitchell Associates Architects

City of Beacon Workshop Agenda
11/26/2018

Title:

Budget wrap-up

Subject:

Background:

ATTACHMENTS:

Description	Type
2019 Budget	Backup Material
Budget summary of changes	Backup Material

CITY OF BEACON

2019

BUDGET

CITY OF BEACON

2019 BUDGET

INDEX

CITY OF BEACON
2019
TENTATIVE BUDGET SUMMARY

ARTICLE NO. 362 BE IT ORDAINED BY THE COUNCIL OF THE CITY OF BEACON THAT THE FOLLOWING SUM COMPRISING THE ANNUAL APPROPRIATION ORDINANCE FOR THE YEAR 2019 BE AND THE SAME IS HEREBY APPROPRIATED TO MEET THE AMOUNT OF MONEY FOR THE YEAR 2019.

DATE: November 19, 2018

				5% increase	10% increase
			GENERAL	**WATER**	**SEWER**
APPROPRIATIONS			**20,723,533**	**3,672,040**	**4,177,550**
TOTAL REVENUE			**9,405,781**	**3,634,614**	**4,171,109**
BALANCE OF APPROPRIATIONS			**11,317,752**	**37,426**	**6,441**
ADDITIONAL FUNDING NEEDED (Part of tax levy)					
(Will be fund balance appropriation)					
Appropriated from Debt Reserve			**(1,623)**	**(37,426)**	**(6,441)**
Appropriated from Fund Balance			**(351,948)**	**-**	-
Tax Levy:			**10,964,181**		
Allowable levy at tax cap	10,964,181				
EXCESS LEVY PER TAX CAP	-				
			HOMESTEAD	**NON-HOMESTEAD**	**TOTALS**
Adjusted Tax Levy Distribution			**7,604,764**	**3,359,417**	**10,964,181**
Base Proportion:			***69.360070***	***30.639930***	***100.00***
Rates:		***2019 Tax Rates***	**8.254631**	**12.409643**	
		2018 Tax Rates	**8.386328**	**12.670766**	
	Percentage Decrease		***-1.5704%***	***-2.0608%***	
Assessed Values:					
11/9/18 - TENTATIVE ROLL			***921,272,380***	***270,710,226***	***1,191,982,606***
12/12/17 - FINAL ROLL			***890,121,552***	***246,894,305***	***1,137,015,857***
	Percentage Increase		***3.50%***	***9.65%***	***4.83%***
	Dollar change		31,150,828	23,815,921	54,966,749

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1010 CITY COUNCIL											
A1010	101000	REGULAR SALARIES	54,298	54,000	54,000	54,000	54,000	54,000	39,462	54,000	
A1010	416000	MATERIALS & SUPPLIES	75	100	100	61	100	100	43	500	
A1010	444100	LICENSE & PERMITS	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	
A1010	452010	GRANT WRITING CONSULTANT	20,831	34,000	34,000	33,996	34,000	34,000	22,664	34,000	
A1010	455000	VIDEOGRAPHER	18,950	19,000	19,350	19,350	19,000	19,000	13,000	19,000	
A1010	820000	SOCIAL SECURITY	2,900	4,131	3,781	2,785	4,131	4,131	2,765	4,131	
TOTAL CITY COUNCIL			**101,254**	**115,431**	**115,431**	**114,392**	**115,431**	**115,431**	**82,134**	**115,831**	
1210 MAYOR											
A1210	101000	REGULAR SALARIES	25,137	25,000	27,421	27,421	25,000	25,000	18,269	25,000	
A1210	105000	OVERTIME	-	-	161	160	160	160	-	-	
A1210	105200	SICK LEAVE BONUS			600	600	600	300	-	-	
A1210	106000	CLERICAL SALARIES	35,991	38,000	34,979	33,774	41,969	41,103	28,041	43,018	
A1210	120000	HEALTH INSURANCE BUY-OUT						866	865	2,500	
A1210	190000	SEVERANCE/RETIREMENT	-	-	3,436	3,435			-	-	
A1210	220000	OFFICE EQUIPMENT	276	100	66	-	100	100	-	100	
A1210	416000	MATERIALS & SUPPLIES	722	500	569	569	500	500	452	500	
A1210	443200	TRAINING	102	250	162	129	250	250	45	250	
A1210	467000	ASSOCIATION DUES	-	425	425	410	425	425	300	425	
A1210	820000	SOCIAL SECURITY	4,555	4,820	4,873	4,873	5,181	5,181	3,570	5,203	
TOTAL MAYOR			**66,783**	**69,095**	**72,692**	**71,371**	**74,185**	**73,885**	**51,542**	**76,996**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1230 ADMINISTRATOR											
A1230	101000	REGULAR SALARIES	128,541	130,688	130,690	130,689	133,956	133,956	97,891	138,305	
A1230	105200	SICK LEAVE BONUS	200	-	600	600	1,200	1,200	600	600	
A1230	106000	CLERICAL SALARIES	53,182	53,994	53,994	53,993	55,314	55,314	41,163	56,666	
A1230	250000	PURCHASE EQUIPMENT	36,707	1,000	1,000	333	500	500	-	500	
A1230	413000	GAS & DIESEL	-	800	770	25	400	400	60	200	
A1230	416000	MATERIALS & SUPPLIES	958	550	980	966	1,000	978	583	1,000	
A1230	443200	TRAINING	355	1,500	1,500	315	1,000	1,000	173	1,000	
A1230	447200	REPAIR OF EQUIPMENT	-	500	140	-	150	150	-	-	
A1230	452000	CONSULTANT				-	60,000	60,000	-	-	
A1230	462000	TRAVEL	98	1,500	1,093	-	1,000	749	3	500	
A1230	467000	ASSOCIATION DUES	1,400	1,400	1,440	1,440	1,850	2,123	2,122	2,000	
A1230	820000	SOCIAL SECURITY	13,251	14,128	13,732	13,732	14,571	14,571	10,333	14,961	
TOTAL ADMINISTRATOR			**234,692**	**206,060**	**205,939**	**202,093**	**270,941**	**270,941**	**152,928**	**215,732**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1325 FINANCE											
A1325	101000	REGULAR SALARIES	274,647	281,692	281,743	281,743	289,050	289,050	204,257	289,507	
A1325	105000	OVERTIME	833	2,000	2,549	2,529	3,500	4,500	3,602	3,500	
A1325	105200	SICK LEAVE BONUS	400	1,200	600	600	1,200	1,200	1,200	1,800	
A1325	120000	HEALTH INSURANCE BUY-OUT	5,000	5,000	6,250	6,250	7,500	6,500	2,500	5,000	
A1325	250000	EQUIPMENT	530	500	950	950	750	750	1,980	750	
A1325	416000	MATERIALS & SUPPLIES	3,323	3,000	3,913	3,913	3,000	3,000	1,880	3,200	
A1325	440700	ANNUAL AUDIT	35,192	38,000	29,837	29,837	30,500	30,500	25,000	31,500	
A1325	440702	GASB 45 VALUATION	10,450	8,000	13,125	13,125	17,000	17,000	4,375	4,000	
A1325	441500	COMPUTER SUPPORT	38,498	40,393	41,193	41,192	43,283	43,283	-	44,472	
A1325	443200	TRAINING	165	2,000	2,118	1,270	2,000	2,000	(40)	2,000	
A1325	452002	FINANCIAL CONSULTANT	16,874	-	-	-	-	-		-	
A1325	462000	TRAVEL	-	300	287	22	300	300	215	300	
A1325	467000	ASSOCIATION DUES	292	600	600	-	600	600	170	500	
A1325	820000	SOCIAL SECURITY	20,650	22,177	21,697	21,696	23,046	23,046	15,783	22,935	
TOTAL FINANCE			**406,854**	**404,862**	**404,862**	**403,127**	**421,729**	**421,729**	**260,922**	**409,464**	
1355 ASSESSMENT											
A1355	105200	SICK LEAVE BONUS						300	300	300	
A1355	109100	PART TIME CLERICAL	14,902	14,763	15,981	15,981	16,231	16,231	12,759	18,007	
A1355	416000	MATERIALS & SUPPLIES	1,066	1,000	1,000	995	1,100	1,100	1,071	1,100	
A1355	450200	APPRAISERS	8,900	8,000	6,688	-	8,000	8,000	-	8,000	
A1355	452009	JOINT ASSESSOR AGREEMENT	45,628	46,997	46,997	46,782	48,185	48,185	23,978	49,404	
A1355	820000	SOCIAL SECURITY	1,109	1,129	1,223	1,222	1,242	1,242	999	1,378	
TOTAL ASSESSMENT			**71,605**	**71,889**	**71,889**	**64,980**	**74,758**	**75,058**	**39,107**	**78,189**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1362 TAX ADVERTISING & EXPENSE											
A1362	441500	COMPUTER SUPPORT/DATA PR	9,953	10,500	10,500	10,198	10,500	10,500	-	10,500	
TOTAL TAX ADVERTISING & EXPENSE			**9,953**	**10,500**	**10,500**	**10,198**	**10,500**	**10,500**	**-**	**10,500**	
1364 PROPERTY ACQUIRED											
A1364	468001	EXPENSE ON PROPERTY ACQU	316	2,000	2,000	-	1,500	7,000	6,576	4,000	
TOTAL PROPERTY ACQUIRED			**316**	**2,000**	**2,000**	**-**	**1,500**	**7,000**	**6,576**	**4,000**	
1380 FISCAL AGENT FEES											
A1380	461200	FISCAL AGENT FEE	28,807	22,000	25,447	25,447	25,000	66,113	66,113	25,000	
A1380	461202	ANNUAL FILING STATEMENT	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	
TOTAL FISCAL AGENT FEES			**31,307**	**24,500**	**27,947**	**27,947**	**27,500**	**68,613**	**68,613**	**27,500**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1410 CITY CLERK											
A1410	101000	REGULAR SALARIES	60,270	61,214	61,464	61,463	62,725	74,078	46,302	83,579	
A1410	105000	OVERTIME	127	400	1,803	1,803	400	1,878	1,877	500	
A1410	120000	HEALTH INSURANCE BUY-OUT	2,500	2,500	2,500	2,500	2,500	2,500	1,250	2,500	
A1410	416000	MATERIALS & SUPPLIES	1,486	2,000	2,000	1,930	1,500	1,500	685	1,500	
A1410	440801	FILING FEE COUNTY CLERK	70	100	100	51	100	100	-	100	
A1410	441000	BOOK BINDING	-	1,000	2,585	2,577	1,000	1,000	597	3,000	
A1410	441400	CODIFICATION	5,966	8,000	11,970	10,629	8,500	8,500	3,786	10,000	
A1410	441500	SOFTWARE SUPPORT	5,202	5,202	5,202	5,112	14,231	14,231	4,862	12,322	
A1410	443200	TRAINING	-	1,000	1,000	-	-	-		-	
A1410	445100	MAINTENANCE OF EQUIPMENT	3,520	8,710	4,982	-	-	-		-	
A1410	447000	RENTAL OF EQUIPMENT	2,064	2,080	2,080	2,064	2,080	2,080	1,548	2,080	
A1410	451600	CHARTER REVISION	9,785	-	11,163	11,162				-	
A1410	462000	TRAVEL	-	100	-	-	-	-		-	
A1410	465000	POSTAGE	10,013	10,000	10,161	10,160	10,000	10,000	6,112	10,000	
A1410	467000	ASSOCIATION DUES	100	100	39	-	100	100	60	100	
A1410	470100	ADVERTISING	9,361	8,500	8,500	7,339	8,500	8,500	4,760	7,500	
A1410	820000	SOCIAL SECURITY	4,812	4,905	5,032	5,031	5,020	6,002	3,781	6,623	
TOTAL CITY CLERK			**115,276**	**115,811**	**130,581**	**121,821**	**116,656**	**130,469**	**75,620**	**139,804**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1420 LAW											
A1420	450400	ATTORNEYS	100,404	100,000	112,290	112,289	100,000	100,000	64,780	100,000	
A1420	450433	TAX CERTIORARI MATTERS	26,987	27,500	14,674	14,540	12,000	12,000	12,119	12,000	
A1420	450436	IN REM	97,183	65,500	62,500	59,835	75,500	75,500	45,137	75,000	
A1420	450437	PROPERTY ASSESSMENT SETT	27,376	20,000	20,000	13,438	30,000	30,000	-	22,000	
A1420	450439	CSEA MATTERS	6,244	16,875	8,871	7,404	20,000	20,000	281	36,500	
A1420	450440	IAFF/FIRE MATTERS	45,834	5,000	8,269	8,269	20,000	20,000	6,300	12,000	
A1420	450442	PBA MATTERS	68,001	30,000	62,593	62,593	60,000	60,000	23,288	60,000	
A1420	450454	EMPLOYEE DISCIPLINE	9,859	-	103,046	103,046	30,000	30,000	6,019	20,000	
A1420	450461	TRAFFIC COURT	20,416	30,000	24,179	24,178	24,000	24,000	14,015	24,000	
A1420	450600	ARBITRATORS	550	3,000	-	-	3,000	6,363	6,363	3,000	
A1420	452000	CONSULTANT	29,673	-	-	-	-	-		-	
A1420	456500	CIVIL ACTION EXPENSE	-	10,000	-	-	10,000	6,637	-	10,000	
TOTAL LAW			**432,527**	**307,875**	**416,422**	**405,592**	**384,500**	**384,500**	**178,302**	**374,500**	
1440 ENGINEERING											
A1440	454000	ENGINEERS	42,336	38,000	38,000	32,080	38,000	38,000	9,689	32,000	
TOTAL ENGINEERING			**42,336**	**38,000**	**38,000**	**32,080**	**38,000**	**38,000**	**9,689**	**32,000**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1620 PUBLIC BUILDINGS											
A1620	101000	REGULAR SALARIES	39,116	42,016	42,015	42,014	45,516	45,516	32,106	43,075	
A1620	105000	OVERTIME	606	450	561	561	1,000	1,000	178	600	
A1620	105200	SICK LEAVE BONUS	200	600	600	600	-	-			
A1620	119000	CLOTHING ALLOWANCE	250	550	550	550	600	600	300	650	
A1620	120000	HEALTH INSURANCE BUY-OUT								2,500	
A1620	250000	EQUIPMENT	-	-	21,878	21,878					
A1620	411000	CLEANING SUPPLIES	4,157	3,400	5,348	4,678	6,200	6,010	3,085	5,000	
A1620	412600	MUN.CENTER GAS/OIL FOR HEA	6,844	11,000	10,930	9,469	10,667	10,667	6,098	9,200	
A1620	412610	BEACON ENGINE GAS/OIL FOR H	4,943	7,600	13,100	12,641	10,000	10,000	2,600	7,500	
A1620	412620	TOMPKINS HOSE GAS/OIL FOR H	4,652	6,000	5,000	4,250	5,311	5,311	2,979	4,500	
A1620	412630	MASE HOOK & LADDER GAS/OIL	3,194	3,800	3,300	3,215	3,237	3,237	1,975	3,000	
A1620	412640	MEMORIAL BUILDING GAS/OIL F	4,634	5,800	4,453	3,740	4,302	4,302	3,468	5,200	
A1620	416000	MATERIALS & SUPPLIES	2,191	2,500	5,588	4,771	3,500	3,690	4,345	7,500	
A1620	417700	SANITARY AND PAPER SUPPLIE	3,850	3,200	4,236	3,383	3,800	3,800	2,096		
A1620	422000	MUNICIPAL CENTER ELECTRIC	45,316	44,097	42,850	41,708	47,840	47,840	28,396	45,435	
A1620	422005	WELCOME CENTER ELECTRIC	973	1,049	1,296	1,295	1,410	1,410	813	1,302	
A1620	422010	BEACON ENGINE ELECTRIC	5,261	4,943	4,215	4,214	4,843	4,843	3,430	5,489	
A1620	422020	TOMPKINS HOSE ELECTRIC	10,641	11,275	10,275	8,956	10,291	10,291	5,977	9,564	
A1620	422030	MASE HOOK & LADDER ELECTR	4,846	5,380	5,380	5,265	6,060	6,060	3,954	6,327	
A1620	422040	MEMORIAL BUILDING ELECTRIC	4,986	5,014	5,014	4,523	5,099	5,099	3,351	5,362	
A1620	422060	AREA LIGHTS ELECTRIC	2,631	2,848	2,848	2,536	3,177	3,177	812	1,300	
A1620	442000	EXTERMINATOR	875	1,500	1,685	1,685	1,500	1,500	731	1,700	
A1620	445100	MAINTENANCE OF EQUIPMENT	42,966	44,500	48,574	47,147	45,000	53,634	28,157	55,000	
A1620	446800	PARKING LOT REPAIRS	-	10,000	10,218	10,218	14,000	14,000	10,938	18,000	
A1620	447300	REPAIR OF REAL PROPERTY	11,157	13,675	8,100	6,661	12,500	7,423	2,442	8,000	
A1620	447301	REPAIR OF MUNICIPAL CENTER	13,055	15,000	13,088	12,739	15,000	11,292	4,453	22,000	
A1620	447302	REPAIR OF MEMORIAL BLDG RE	1,486	2,900	1,770	1,179	1,500	1,651	1,650	2,000	
A1620	447307	REPAIR REAL PROP - FIREHOUS	8,945	10,000	13,509	12,809	11,000	11,000	2,359	5,000	
A1620	820000	SOCIAL SECURITY	2,914	3,337	3,227	3,223	3,604	3,604	2,450	3,582	
TOTAL PUBLIC BUILDINGS			**230,689**	**262,434**	**289,608**	**275,908**	**276,957**	**276,957**	**159,143**	**278,786**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1650 CENTRAL COMMUNICATION SYSTEMS											
A1650	250000	EQUIPMENT	43,143								
A1650	423000	TELEPHONES	28,708	15,624	23,124	22,991	18,000	18,000	12,929	23,635	
A1650	423001	CELL PHONES	11,328	12,348	12,348	11,666	13,704	13,704	9,190	15,624	
TOTAL CENTRAL COMMUNICATION SYSTEMS			**83,179**	**27,972**	**35,472**	**34,657**	**31,704**	**31,704**	**22,119**	**39,259**	
1670 CENTRAL PRINTING											
A1670	446000	PRINTING/COPIER LEASE (Down	4,247	4,500	4,500	4,006	3,000	3,000	1,501	3,000	
A1670	446002	PRINTING/COPIER LEASE (Upsta	8,319	7,830	7,830	7,034	8,000	8,000	3,147	4,400	
A1670	446003	PRINTING/COPIER LEASE (Police	7,115	8,800	8,800	7,627	8,000	8,000	5,085	8,000	
TOTAL CENTRAL PRINTING			**19,681**	**21,130**	**21,130**	**18,667**	**19,000**	**19,000**	**9,733**	**15,400**	
1680 TECHNOLOGY											
A1680	250000	PURCHASE EQUIPMENT	37,403	32,538	34,434	34,372	27,288	27,288	9,827	26,266	
A1680	410400	WEB SITE FEES	5,500	5,500	5,950	5,950	5,500	5,500	5,500	5,500	
A1680	444100	PROFESS. LICENSE/PERMITS	20,184	31,213	29,317	26,956	30,271	30,204	23,331	27,719	
A1680	452003	IT CONSULTANT	47,182	45,000	47,903	47,903	45,000	45,067	30,262	49,500	
TOTAL TECHNOLOGY			**110,269**	**114,251**	**117,604**	**115,181**	**108,059**	**108,059**	**68,920**	**108,985**	
1910 INSURANCE											
A1910	430000	INSURANCE PACKAGE POLICY	379,400	391,880	394,401	394,401	399,718	408,048	408,048	421,704	
A1910	432100	INSURANCE VOLUNTEER ACCID	9,286	9,500	9,500	9,393	9,500	9,500	-	9,500	
A1910	434000	INSURANCE DEDUCTIBLES	33,334	45,000	26,156	1,083	40,000	31,670	-	2,000	
TOTAL INSURANCE			**422,020**	**446,380**	**430,057**	**404,877**	**449,218**	**449,218**	**408,048**	**433,204**	
1920 MUNICIPAL ASSOCIATION DUES											
A1920	467000	ASSOCIATION DUES	3,250	3,370	3,370	2,290	2,800	2,800	570	1,000	
A1920	467100	ASSOCIATION DUES-NYCOM	5,491	5,491	5,491	5,491	5,491	5,491	5,491	5,491	
TOTAL MUNICIPAL DUES			**8,741**	**8,861**	**8,861**	**7,781**	**8,291**	**8,291**	**6,061**	**6,491**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1980 GENERAL ADMINISTRATION											
A1980	400099	MTA PAYROLL TAX	23,377	25,224	25,484	25,483	26,441	26,441	17,982	26,869	
TOTAL GENERAL ADMINISTRATION			**23,377**	**25,224**	**25,484**	**25,483**	**26,441**	**26,441**	**17,982**	**26,869**	
1990 CONTINGENCY											
A1990	400001	CONTINGENCY FUND	-	290,558	5,116	-	200,000	29,834	-	187,500	
A1990	400004	CONTINGENCY-RETIREMENT	-	206,000	-	-	244,000	136,576	-	244,616	
TOTAL CONTINGENCY			**-**	**496,558**	**5,116**	**-**	**444,000**	**166,410**	**-**	**432,116**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
3120 POLICE											
A3120	100200	POLICE CHIEF SALARY	125,248	122,729	120,607	118,098	125,798	125,798	100,616	146,577	
A3120	100300	POLICE CAPTAIN SALARY	112,472	110,342	112,464	112,464	113,101	113,101	72,168	122,461	
A3120	101000	REGULAR SALARIES	1,863,935	2,087,162	2,064,758	2,050,330	2,258,626	2,258,626	1,565,857	2,215,017	
A3120	101002	POLICE RETRO	38,955	-	-	-			-		
A3120	102000	CROSSING GUARD SALARIES	38,771	38,500	38,500	38,408	38,500	38,500	25,160	38,500	
A3120	105000	OVERTIME	478,935	450,000	449,901	433,260	450,000	450,000	287,034	475,000	
A3120	105001	OVERTIME-BUCKLE UP NY	2,617	-	-	-				4,125	
A3120	105004	OVERTIME-STOP DWI	9,113	10,000	10,000	2,039	1,000	2,301	2,301	1,500	
A3120	105005	OVERTIME-SCHOOL DISTRICT						5,074	5,074		
A3120	105008	OVERTIME-POLICE TRAFFIC SEI	7,452	10,210	10,210	8,262	11,000	11,000	10,875	4,950	
A3120	105018	OT - EVENTS	6,689	7,000	14,099	14,098	7,000	10,831	10,831	8,000	
A3120	105200	SICK LEAVE BONUS	3,000	19,430	19,430	17,100	22,800	22,800	18,050	14,466	
A3120	105201	OUT OF TITLE	-	-	-	-	1,000	1,000	-	1,000	
A3120	105400	K-9 CARE	17,715	19,140	19,159	19,159	19,988	19,988	14,593	20,408	
A3120	105501	TRAINING STIPEND	22,752	23,106	23,550	23,549	23,683	23,683	2,277	-	
A3120	106000	CLERICAL SALARIES	73,785	75,190	75,190	75,013	76,988	76,988	49,767	52,397	
A3120	106001	POLICE ASSISTANT	24,538	27,280	26,443	17,916	29,659	29,659	21,247	32,292	
A3120	108001	HOLIDAY PAY	86,586	95,968	95,621	94,035	103,783	103,783	4,896	101,781	
A3120	119000	CLOTHING ALLOWANCE	20,250	20,800	21,500	21,500	21,500	21,500	21,750	21,500	
A3120	120000	HEALTH INSURANCE BUY	16,776	17,500	17,500	16,740	20,000	20,000	1,250	15,000	
A3120	190000	SEVERANCE/RETIREMENT PAY	90,129	-	22,078	22,077		9,908	9,907		
A3120	220001	COMPUTER EQUIPMENT	9,960	20,202	20,066	19,578	20,347	19,391	13,673	28,743	
A3120	250000	EQUIPMENT	112,390	57,614	59,638	59,628	63,014	67,529	58,192	12,442	
A3120	250040	EQUIPMENT - HOMELAND SECU	1,245	-	-	-					
A3120	250090	EQUIPMENT - BYRNE/JAG	9,900	10,000	11,007	10,758	10,000	10,000	-		
A3120	251200	BODY ARMOR	1,514	14,520	18,979	18,116	8,100	8,100	-	8,600	
A3120	412400	FIREARMS	29,267	30,000	31,028	29,457	30,000	29,325	20,244	30,000	
A3120	412401	LESS LETHAL					7,600	8,275	8,275	7,521	
A3120	413000	GAS & DIESEL	26,990	40,372	39,681	28,700	39,857	39,854	16,500	44,936	
A3120	416000	MATERIALS & SUPPLIES	14,183	13,000	12,283	11,595	13,000	13,549	11,642	14,849	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
A3120	416700_	DOG FOOD & SUPPLIES	2,649	1,000	1,691	1,690	1,000	2,000	483	1,600	
A3120	416800_	TICKETS	29,829	38,000	38,717	38,717	40,000	40,000	29,177	40,000	
A3120	417501_	CHILD SAFETY PROGRAM-GRAN	10,289	600	600	460	2,950	2,950	1,927	2,500	
A3120	418900_	TRAFFIC LIGHTS	25,368	17,000	19,972	15,921	15,000	15,000	9,971	15,000	
A3120	419000_	CLOTHING REPAIRS	63	250	250	110	250	250	60	250	
A3120	422015	CAMERA ELECTRIC	486	460	460	405	1,000	1,000	380	608	
A3120	440200_	AUTO BODY REPAIRS	7,170	6,000	2,656	1,385	6,000	3,000	-	6,000	
A3120	443200_	TRAINING	17,581	15,400	16,627	16,322	17,500	17,500	15,078	10,000	
A3120	443203_	CANDIDATE EVALUATION	1,691	3,000	1,181	1,181	3,000	12,000	5,750	4,800	
A3120	445100_	MAINTENANCE OF EQUIPMENT	28,137	36,695	32,555	31,960	28,050	28,346	28,346	42,913	
A3120	447000_	RENTAL OF EQUIPMENT	36,254	41,284	33,974	33,974	43,584	41,584	25,161	31,016	
A3120	447200_	REPAIR OF EQUIPMENT	25,247	30,000	25,741	22,817	26,000	25,990	11,855	26,000	
A3120	453000_	MEDICAL EMERGENCY SERVICE	220	300	300	205	300	300	125	400	
A3120	459300	VETERINARY SERVICES	1,789	1,500	13,608	13,607	2,300	4,300	2,338	3,100	
A3120	462000_	TRAVEL	552	500	500	477	500	500	234	500	
A3120	464000_	MEALS, LAUNDRY	672	1,000	1,000	793	1,000	1,000	322	1,000	
A3120	467000_	ASSOCIATION DUES	2,840	2,980	2,980	2,045	2,980	2,990	2,990	3,500	
A3120	810000_	RETIREMENT	713,810	748,578	748,578	711,938	699,750	699,750	-	674,010	
A3120	820000_	SOCIAL SECURITY	216,154	238,440	238,440	225,071	252,789	252,789	165,181	249,388	
TOTAL POLICE			**4,365,968**	**4,503,052**	**4,513,522**	**4,380,958**	**4,660,297**	**4,691,812**	**2,651,557**	**4,534,650**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
3130 DETECTIVES											
A3130	101000	REGULAR SALARIES	436,665	453,590	463,210	463,209	465,265	465,265	330,915	470,341	
A3130	101002	DET RETRO	7,175	-	-						
A3130	105000	OVERTIME	68,162	70,000	60,380	46,134	70,000	70,000	28,707	70,000	
A3130	105017	OT-IMPACT	1,690	-	-						
A3130	105200	SICK LEAVE BONUS	400	2,000	2,000	1,500	3,250	3,250	2,750	5,500	
A3130	105202	ON-CALL STIPEND	5,457	10,400	7,650	6,000	10,400	10,400	6,943	10,400	
A3130	106000	CLERICAL SALARIES	24,845	25,230	25,230	25,229	25,830	25,830	12,382	48,689	
A3130	108001	HOLIDAY PAY	20,413	20,935	21,282	21,281	21,474	21,474	-	21,708	
A3130	119000	CLOTHING ALLOWANCE	3,500	3,500	3,750	3,750	3,500	3,500	3,400	3,500	
A3130	120000	HEALTH INSURANCE BUY	5,000	2,500	5,000	5,000	5,000	5,000	-	5,000	
A3130	190000	SEVERANCE/RETIREMENT PAY	-	-	-				-		
A3130	250000	EQUIPMENT	-	-	-		2,445	2,445	-	7,765	
A3130	416000	MATERIALS & SUPPLIES	1,173	1,000	1,000	925	1,000	1,000	380	2,500	
A3130	416500	PHOTO SUPPLIES	746	900	932	619	900	900	522	900	
A3130	462002	PRISONER TRANSPORT	657	600	600	420	600	600	225	1,500	
A3130	468200	TOWING/IMPOUNDS	-	400	368	100	400	3,900	3,900	500	
A3130	820000	SOCIAL SECURITY	38,505	44,803	44,803	39,635	45,879	45,879	23,801	48,206	
TOTAL DETECTIVES			**614,388**	**635,858**	**636,205**	**613,802**	**655,943**	**659,443**	**413,925**	**696,509**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
3410 FIRE											
A3410	100200	FIRE CHIEF	89,597	91,090	91,090	91,089	93,366	93,366	68,229	95,700	
A3410	101000	REGULAR SALARIES	797,929	795,472	889,375	886,293	864,684	864,684	632,540	830,577	
A3410	101002	RETRO PAY	126,548	-	-	-					
A3410	103600	CAREER TRAINING OFFICER	8,546	8,500	8,500	8,500	8,500	8,500	6,211	8,500	
A3410	103700	TRAINING CERTIFICATION	24,000	24,000	26,000	26,000	24,000	24,000	24,000	26,000	
A3410	105101	OVERTIME	182,237	200,000	215,457	215,456	212,000	210,997	166,560	171,000	
A3410	105200	SICK LEAVE BONUS	1,500	1,250	2,100	2,100	2,100	2,100	1,850	2,750	
A3410	105203	SICK LEAVE SELLBACK	-	-	-	-	-	1,003	1,003	-	
A3410	119000	CLOTHING ALLOWANCE	7,800	7,800	7,800	7,800	7,800	7,800	7,500	8,400	
A3410	120000	HEALTH INSURANCE BUY-OUT	7,500	5,000	5,000	5,000	5,000	5,000	-	5,000	
A3410	190000	SEVERANCE/RETIREM. PAY	-	-	34,940	34,939		25,034	25,034	-	
A3410	250000	EQUIPMENT	69,818	40,542	85,830	76,913	42,000	42,000	25,301	36,426	
A3410	250013	EQUIPMENT FOR TRAINING	856	1,000	1,000	923	1,000	1,000	882	1,000	
A3410	250028	CONFINED SPACE EQUIPMENT	2,389	2,500	2,500	2,345	2,500	2,500	1,731	2,500	
A3410	413000	GAS & DIESEL	10,960	19,163	19,163	15,055	19,089	19,089	8,603	21,846	
A3410	416000	MATERIALS & SUPPLIES	7,369	8,500	8,500	7,877	8,500	8,500	5,376	8,500	
A3410	432201	VOLUNTEER SERVICE AWARD P	60,169	66,542	67,083	67,083	67,222	67,222	66,477	62,210	
A3410	441500	COMPUTER SUPPORT/DATA	2,725	2,800	2,800	2,619	2,800	2,800	2,665	2,800	
A3410	443200	RECRUIT & OFFICER TRAINING	5,651	10,000	10,000	7,290	10,000	10,000	9,918	10,000	
A3410	447200	REPAIR OF EQUIPMENT	46,484	65,000	65,000	50,241	50,000	50,000	36,539	40,000	
A3410	453700	EMPLOYEE PHYSICALS	5,487	6,000	6,000	3,026	6,000	6,000	3,468	6,000	
A3410	461900	FIRE PREVENTION	2,451	2,000	2,000	1,949	2,000	2,000	1,387	2,000	
A3410	462000	TRAVEL	148	2,000	2,000	1,017	2,000	2,000	1,603	2,000	
A3410	467000	ASSOCIATION DUES	634	534	534	150	534	534	509	534	
A3410	810000	RETIREMENT	215,648	222,695	222,695	248,013	256,429	256,429	-	247,842	
A3410	820000	SOCIAL SECURITY	92,870	86,683	97,940	94,871	93,135	93,135	69,654	87,816	
TOTAL FIRE			**1,769,316**	**1,669,071**	**1,873,307**	**1,856,549**	**1,780,659**	**1,805,693**	**1,167,040**	**1,679,401**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
3510 ANIMAL CONTROL											
A3510	103101	ANIMAL WARDEN	1,040	2,500	2,500	1,565	2,500	2,500	330	1,800	
A3510	413000	GAS & DIESEL	-	118	118	-	100	100	-	100	
A3510	416000	MATERIALS & SUPPLIES	136	75	75	-	1,280	1,280	325	100	
A3510	443200	TRAINING	50	50	50	50	350	350	-	-	
A3510	445100	MAINTENANCE OF EQUIPMENT	-	1,000	750	125	50	-	-	200	
A3510	447200	REPAIR OF EQUIPMENT	-	-	250	-	-	250	-		
A3510	459300	VETERINARY SERVICES	-				500	500	-	500	
A3510	459301	DOG HOUSING	2,400	6,000	6,000	3,200	5,000	5,000	315	4,000	
A3510	462000	TRAVEL	155	200	200	-	100	100	-		
A3510	820000	SOCIAL SECURITY	80	191	191	120	191	191	25	138	
TOTAL ANIMAL CONTROL			**3,861**	**10,134**	**10,134**	**5,060**	**10,071**	**10,271**	**995**	**6,838**	
3620 BUILDING DEPARTMENT											
A3620	101000	REGULAR SALARIES	180,255	183,407	183,411	183,357	188,016	188,016	137,368	281,763	
A3620	105000	OVERTIME	2,471	2,000	1,996	1,336	2,500	2,500	122	2,000	
A3620	105200	SICK LEAVE BONUS	-	1,200	1,200	1,200	1,200	1,200	1,200	1,200	
A3620	120000	HEALTH INSURANCE BUY-OUT	2,500	2,500	2,500	2,500	2,500	2,500	1,250	2,500	
A3620	250000	EQUIPMENT	482	-	28,309	28,308	2,000	2,000	-	500	
A3620	411900	EDUCATIONAL SUPPLIES	2,746	2,000	2,000	1,520	2,000	2,000	1,656	2,000	
A3620	413000	GAS & DIESEL	1,325	1,968	1,968	1,670	2,026	2,026	730	2,351	
A3620	416000	MATERIALS & SUPPLIES	3,023	2,500	2,855	2,019	2,500	2,500	780	2,500	
A3620	441500	COMPUTER SUPPORT/DATA	900	3,100	3,100	900	2,300	2,300	900	2,000	
A3620	442400	EMERGENCY SECURE BUILDING	3,246	2,000	2,000	-	2,000	2,000	-	2,000	
A3620	443200	TRAINING	1,386	2,000	2,000	1,492	2,000	2,000	1,335	2,000	
A3620	447200	REPAIR OF EQUIPMENT	366	1,000	1,000	433	1,000	1,000	23	700	
A3620	820000	SOCIAL SECURITY	13,608	14,467	14,467	13,812	14,858	14,858	10,228	21,991	
TOTAL BUILDING DEPT			**212,308**	**218,142**	**246,806**	**238,547**	**224,900**	**224,900**	**155,592**	**323,505**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
5110 HIGHWAY											
A5110	100401	SUPERINTENDENT SALARY	104,148	101,000	97,324	96,008	86,986	86,986	60,450	89,160	
A5110	101000	REGULAR SALARIES	852,181	869,502	859,040	833,489	877,816	877,816	626,460	985,375	
A5110	103100	TEMPORARY POSITION	24,127	28,000	28,676	28,675	28,000	28,000	27,531	28,000	
A5110	105000	OVERTIME	28,641	20,900	33,244	31,040	25,000	25,000	25,539	32,000	
A5110	105200	SICK LEAVE BONUS	600	3,000	3,000	3,000	4,800	4,800	4,200	2,400	
A5110	112500	MEALS	1,007	600	1,020	588	800	800	315	1,000	
A5110	119000	CLOTHING ALLOWANCE	6,000	6,600	6,600	5,825	7,800	7,800	7,350	9,425	
A5110	120000	HEALTH INSURANCE BUY-OUT	3,750	2,500	6,058	6,058	7,500	7,500	4,423	10,000	
A5110	190000	SEVERANCE/RETIREMNT PAY	4,681	-	159,320	159,319		67,332	67,331		
A5110	250000	EQUIPMENT	9,735	4,000	6,422	6,421	6,000	6,000	1,322	1,500	
A5110	410100	ANTI-FREEZE	150	1,000	425	-	500	500	-	500	
A5110	411200	CONCRETE	1,097	17,000	8,937	8,937	2,000	2,000	-	2,000	
A5110	411300	BLACKTOP	20,370	25,000	17,630	10,672	25,000	25,000	11,644	25,000	
A5110	411400	CEMENT	463	1,000	300	256	500	983	981	1,200	
A5110	412300	FENCE	-	500	545	545	500	500	-	500	
A5110	412660	HIGHWAY GAS FOR HEAT	9,191	15,700	17,300	16,600	18,556	18,556	6,821	11,700	
A5110	412801	FLAGS	1,494	1,500	1,500	1,498	1,500	1,500	1,498	1,600	
A5110	412802	FLOWERS	2,000	2,000	2,231	2,224	2,200	2,200	2,200	2,400	
A5110	413000	GAS & DIESEL	30,487	52,417	49,417	42,570	56,667	56,667	31,161	58,845	
A5110	413001	BVAC GAS	9,331	15,109	15,109	8,876	12,866	12,866	3,750	12,073	
A5110	413002	VEHICLE OIL	5,438	6,000	6,344	6,343	5,600	4,830	4,504	6,000	
A5110	413200	GRATES	1,305	2,000	1,000	912	6,675	6,513	-	2,000	
A5110	413500	GREASE & LUBES	620	650	701	701	650	2,351	526	650	
A5110	415400	TOOLS	1,702	3,650	2,460	1,928	3,000	3,000	1,367	3,000	
A5110	416000	MATERIALS & SUPPLIES	23,462	19,700	24,022	22,886	19,000	18,757	12,129	19,000	
A5110	416300	PAINTS	735	700	700	675	1,000	1,000	344	1,000	
A5110	416400	PIPE	1,397	2,000	2,000	2,000	2,000	2,000	285	2,000	
A5110	417000	RADIO SUPPLIES	786	1,000	1,799	1,798	800	800	-	2,000	
A5110	417100	ROAD MARKINGS	22,803	22,550	17,520	15,900	23,000	23,000	-	25,000	
A5110	417500	SAFETY SUPPLIES	1,227	2,000	3,785	3,784	2,000	2,000	314	2,000	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
A5110	417900	SIGNS & POSTS	10,021	7,500	8,985	8,854	10,000	26,058	19,120	4,000	
A5110	418200	STONE	4,444	5,000	112	-	5,000	5,000	-	5,000	
A5110	418600	TUBES & TIRES	2,309	8,000	12,330	10,184	10,010	11,323	8,124	10,000	
A5110	418800	TAR	29,867	31,000	29,550	29,550	31,000	31,000	30,486	32,000	
A5110	419000	UNIFORM CLEANING	1,537	1,500	1,500	1,438	1,500	1,500	1,066	1,550	
A5110	419600	WEED CONTROL	952	950	-	-	950	950	-	950	
A5110	419700	WELDING SUPPLIES	1,180	1,500	2,093	1,972	1,500	1,500	1,491	1,500	
A5110	422055	GARAGE ELECTRIC	3,693	3,811	-	-					
A5110	422080	HIGHWAY ELECTRIC	7,514		-						
A5110	422081	NEW DPW ELECTRIC	3,631	7,500	18,019	18,019	14,744	14,744	9,294	13,835	
A5110	424001	NEW DPW WATER & SEWER	335		1,024	1,024	1,200	1,200	570	1,200	
A5110	443200	TRAINING	181	300	2,416	2,249	3,715	3,715	1,341	1,000	
A5110	444100	PROFESSIONAL LICENSE & PER	110			-	2,000	2,000	376	600	
A5110	445100	MAINTENANCE OF EQUIPMENT	1,732	19,155	18,883	17,061	19,500	17,367	282	29,096	
A5110	447000	RENT OF EQUIPMENT	1,440	3,300	2,750	2,750	3,300	3,300	-	3,300	
A5110	447200	REPAIR OF EQUIPMENT	49,530	55,000	77,668	70,712	70,000	69,811	45,784	65,000	
A5110	447213	REPAIR OF MAIN ST CLOCKS	6,104		86	86	1,500	1,500	-	1,500	
A5110	447214	REPAIR OF BUS SHELTERS			4,050	4,050			-		
A5110	447300	REPAIR OF REAL PROPERTY	2,076	1,000	14,630	14,614	3,000	45,245	42,244	3,000	
A5110	448000	TREE CARE/REMOVAL	13,280	18,750	18,750	6,875	18,000	18,000	1,250	15,000	
A5110	462000	TRAVEL	128	125	115	33	150	150	50	150	
A5110	820000	SOCIAL SECURITY	75,870	78,956	90,418	85,507	79,461	84,611	60,950	88,538	
TOTAL HIGHWAY			**1,384,862**	**1,470,925**	**1,677,808**	**1,594,506**	**1,505,246**	**1,636,031**	**1,124,873**	**1,614,547**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
5142 SNOW											
A5142	105000	OVERTIME	35,274	90,000	90,000	71,617	90,000	90,000	45,471	90,000	
A5142	112500	MEALS	931	3,000	3,000	2,233	3,000	3,000	1,694	2,500	
A5142	250000	EQUIPMENT	-	3,000	876	875	500	995	994	1,000	
A5142	416000	MATERIALS & SUPPLIES	373	3,500	3,624	3,123	3,500	8,653	2,910	3,500	
A5142	417600	SAND & SALT	128,581	152,000	148,477	126,737	170,000	170,000	133,595	160,000	
A5142	447000	RENTAL OF EQUIPMENT	-	3,000	755	-	3,000	2,505	-	3,000	
A5142	447200	REPAIR OF EQUIPMENT	35,538	40,000	45,208	41,310	37,000	31,847	14,723	32,000	
A5142	820000	SOCIAL SECURITY	2,409	7,115	7,115	5,437	7,115	7,115	3,452	7,076	
TOTAL SNOW			**203,106**	**301,615**	**299,055**	**251,332**	**314,115**	**314,115**	**202,839**	**299,076**	
5182 STREET LIGHTS											
A5182	422090	STREET LIGHTS LIGHT & POWE	248,765	190,975	160,919	62,840	82,700	82,700	32,599	55,000	
A5182	447300	REPAIR OF REAL PROPERTY	1,740	-	1,017	1,017	1,500	1,500	640	2,000	
A5182	470300	STREET LIGHTS HOLIDAY DECO	-	2,000	2,000	852	2,000	2,000	2,400	2,500	
TOTAL STREET LIGHTS			**250,505**	**192,975**	**163,936**	**64,709**	**86,200**	**86,200**	**35,639**	**59,500**	
5630 BUS OPERATIONS											
A5630	464500	BUS LINE	-	-	-	-	-	16,000	8,858	11,000	
TOTAL BUS OPERATIONS			**-**	**-**	**-**	**-**	**-**	**16,000**	**8,858**	**11,000**	
6475 TOURISM											
A6475	467400	PROMOTION OF TOURISM	2,934	3,500	4,770	4,770	3,500	3,500	-		
TOTAL TOURISM			**2,934**	**3,500**	**4,770**	**4,770**	**3,500**	**3,500**	**-**	**-**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
7110 PARK											
A7110	101000	REGULAR SALARIES	110,534	115,396	115,674	115,674	121,488	121,488	76,641	112,534	
A7110	103100	TEMPORARY POSITION	-	-	-	-	7,000	14,700	13,828	14,000	
A7110	105000	OVERTIME	3,470	1,500	1,755	1,754	2,000	2,000	686	2,000	
A7110	105200	SICK LEAVE BONUS		-	-		-	600	600		
A7110	112500	MEALS	175	160	160	119	160	160	7	160	
A7110	119000	CLOTHING ALLOWANCE	775	1,100	1,100	1,100	1,200	1,200	1,200	1,300	
A7110	120000	HEALTH INSURANCE BUY-OUT	2,500	2,500	2,500	2,500	2,500	2,500	1,250	-	
A7110	190000	SEVERANCE/RETIREMENT PAY	56,006						-		
A7110	250000	EQUIPMENT	360	3,000	4,735	4,716	2,500	2,500	-	2,500	
A7110	412300	FENCE	-	250	-		250	250	-	250	
A7110	413000	GAS & DIESEL	2,401	4,232	2,880	2,770	3,459	3,459	2,105	5,208	
A7110	415400	TOOLS	-	500	-		500	500	-	500	
A7110	416000	MATERIALS & SUPPLIES	1,848	2,000	3,088	2,583	2,000	2,000	1,224	2,000	
A7110	416300	PAINTS	1,646	1,000	1,126	1,126	1,000	1,000	629	1,000	
A7110	417900	SIGNS & POSTS		-	1,015	1,015					
A7110	419600	WEED CONTROL	1,519	2,000	1,700	1,676	1,600	1,600	160	1,500	
A7110	422095	PARK ELECTRIC	19,743	19,286	21,419	21,419	25,459	25,459	12,825	21,495	
A7110	447200	REPAIR OF EQUIPMENT	2,347	3,000	2,955	2,595	7,000	7,000	2,539	2,500	
A7110	447300	REPAIR OF REAL PROPERTY	489	500	172		500	500	-	500	
A7110	820000	SOCIAL SECURITY	12,966	9,230	8,849	8,849	10,278	10,278	6,340	9,945	
TOTAL PARK			**216,779**	**165,654**	**169,128**	**167,896**	**188,894**	**197,194**	**120,034**	**177,392**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
7112 SETTLEMENT CAMP PROPERTY											
A7112	416000	MATERIAL & SUPPLIES	938	500	500	63	500	500	75	250	
A7112	422096	SETTLEMENT CAMP ELEC 300H	3,055	3,230	3,230	3,020	3,327	3,327	2,124	3,200	
A7112	444000	JANITOR SERVICE	4,225	4,725	4,725	4,175	5,000	5,475	4,475	5,000	
A7112	444100	PROFESSIONAL LICENSE & PER	-	500	500	-			-		
A7112	445100	MAINTENANCE OF EQUIP	177		-		1,500	1,500	-	1,200	
A7112	447300	REPAIR OF REAL PROPERTY	16,747	12,500	34,916	31,620	25,000	24,525	3,477	5,000	
A7112	448000	TREE CARE/REMOVAL	7,462	6,250	6,250	6,250	5,000	5,000	3,750	5,000	
A7112	449100	GARBAGE HAULING & DISP.	602	-	-	-			-		
TOTAL USC			**33,206**	**27,705**	**50,121**	**45,128**	**40,327**	**40,327**	**13,901**	**19,650**	
7140 RECREATION											
A7140	101000	REGULAR SALARY	41,376	79,986	87,894	87,021	102,149	102,149	74,871	107,625	
A7140	105000	OVERTIME	45		270	270	2,000	2,000	660	2,000	
A7140	105200	SICK LEAVE BONUS	100		900	900	2,100	1,500	1,500	2,100	
A7140	109100	PART TIME CLERICAL	10,976								
A7140	109102	RECREATION DIRECTOR	54,804	55,725	55,725	55,725	57,118	57,118	41,740	58,546	
A7140	119000	CLOTHING ALLOWANCE	-	275	275	-	300	300	300	325	
A7140	120000	HEALTH BUYOUT					2,500	2,500	-	-	
A7140	173100	SUMMER PLAYGROUND COUNS	-	-	44,815	44,815	50,250	57,820	57,820	57,000	
A7140	173102	AFTER SCHOOL COUNSELORS	17,350	63,000	56,010	46,682	57,000	49,430	25,235	60,900	
A7140	173103	AFTER SCHOOL ACTIVITY SPEC	8,238	36,000	36,000	28,380	36,000	34,073	15,728	36,000	
A7140	250000	EQUIPMENT	266	1,000	7,824	7,454	1,000	11,278	10,158	6,000	
A7140	413000	GAS & DIESEL		500	707	707	400	400	330	630	
A7140	416000	MATERIALS & SUPPLIES	1,684	2,000	6,193	5,830	2,400	2,400	2,133	2,500	
A7140	416007	AFTER SCHOOL MAT & SUPPLIE	11,156	75,600	75,600	9,201	21,000	21,000	3,736	21,000	
A7140	417601	PLAY SAND	650	700	595	-	700	700	130	1,100	
A7140	417602	PLAY SAFETY SURFACE	2,327	2,500	5,378	5,367	5,000	4,722	2,858	6,000	
A7140	417700	23 W CENTER PAPER SUPPLY	662	1,500	1,585	851	1,500	1,500	846	1,000	
A7140	422097	23 W CENTER ELECTRIC	9,611	9,280	10,346	10,345	10,713	10,713	7,330	11,723	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
A7140	423202	23 W CENTER ALARM	3,052	2,500	1,434	902	2,500	2,500	1,786	2,500	
A7140	444000	JANITOR SERVICE	-	1,400	1,150	-			-	-	
A7140	445100	MAINTENANCE OF EQUIPMENT			150	150				-	
A7140	446000	PRINTING/COPIER LEASE	2,392	2,100	2,279	2,279	2,100	2,216	1,693	2,200	
A7140	446010	YARD SALE AD PRINTING	390	500	471	336	500	438	419	500	
A7140	447000	RENTAL OF EQUIPMENT	8,360	9,500	9,500	8,375	9,500	9,500	6,332	9,000	
A7140	447200	REPAIR OF EQUIPMENT	1,021	1,500	1,455	1,454	1,500	1,500	320	1,500	
A7140	447300	REPAIR OF PROPERTY	5,889	5,000	15,362	13,238	5,000	5,000	5,278	5,000	
A7140	462000	TRAVEL						97	96	100	
A7140	470500	COMMUNITY OUTREACH			1,190	1,190	1,500	1,500	-	1,500	
A7140	470600	CELEBRATION	400	2,500	2,500	1,596	8,500	8,500	5,394	10,000	
A7140	470900	CHRISTMAS	1,762	2,500	2,500	2,198				-	
A7140	471200	EASTER	2,124	3,500	3,500	2,474				-	
A7140	471500	FIREWORKS	7,500	7,500	7,500	7,500	-	7,500	7,500	7,500	
A7140	475700	PHYSICAL FITNESS	-	1,500	1,500	-				-	
A7140	476306	SPORT CAMP	1,700	3,500	4,050	4,050	3,500	3,500	4,050	4,050	
A7140	477200	SOFTBALL - WOMENS	2,814	3,200	3,200	2,539	3,200	3,200	2,382	3,200	
A7140	477500	SUMMER BASKETBALL	4,509	18,500	18,500	4,379	9,000	9,000	5,886	6,500	
A7140	478100	SUMMER CAMP PROGRAM	-	-	6,620	2,959	9,000	9,000	4,936	7,500	
A7140	478400	SWIMMING PROGRAM	1,035	-	-	-		585	585	-	
A7140	478700	TENNIS	2,178	3,500	3,500	2,327	3,500	3,431	2,182	3,500	
A7140	479600	WOMENS VOLLEYBALL	250	350	350	-	350	350	-	350	
A7140	479800	YOUTH SERVICE GRANT					24,267	24,267	-	-	
A7140	479900	PROGRAM DEVELOPMENT	1,098	3,000	875	250	2,500	2,418	-	2,000	
A7140	820000	SOCIAL SECURITY	9,115	15,222	17,796	17,466	20,916	20,916	15,000	22,070	
TOTAL RECREATION			**214,834**	**415,338**	**495,499**	**379,210**	**459,463**	**475,021**	**309,214**	**463,419**	

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GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
7141	**SWIMMING POOL FACILITY**										
A7141	173100	LIFEGUARDS	32,073	31,250	27,842	27,841	27,500	29,427	29,427	29,000	
A7141	250000	EQUIPMENT	554	5,000	8,025	7,818	1,500	1,500	510	1,500	
A7141	410900	CHEMICALS	5,978	6,500	6,273	3,372	5,000	5,000	4,458	4,600	
A7141	416000	MATERIALS & SUPPLIES	1,887	1,500	3,500	2,419	3,500	3,500	623	2,500	
A7141	417602	PLAY SAFETY SURFACE	-	2,500	500	-				-	
A7141	443200	TRAINING	520	1,000	1,000	166	800	800	672	800	
A7141	444100	LICENSE & PERMIT FEE	235	250	250	235	250	250	-	250	
A7141	445100	MAINTENANCE OF EQUIP	678	2,500	2,500	-	2,500	2,500	780	1,500	
A7141	445102	POOL START-UP/CLEANING	4,650	5,000	6,917	6,917	5,000	5,000	3,465	5,000	
A7141	447200	REPAIR OF EQUIPMENT	260	10,000	5,285	653	1,500	1,500	811	1,000	
A7141	452008	POOL CONSULTANT	480			-					
A7141	478400	SWIMMING PROGRAM	-	-	-	-					
A7141	820000	SOCIAL SECURITY	2,595	2,391	2,391	2,130	2,104	2,104	2,251	2,219	
TOTAL SWIMMING POOL FACILITY			**49,910**	**67,891**	**64,483**	**51,551**	**49,654**	**51,581**	**42,997**	**48,369**	
A7197	**GREENWAY & HERITAGE TRAIL**										
A7197	416000	MATERIALS & SUPPLIES	-	-	-	-	-	-	-	-	
A7197	452000	CONSULTANT	10,000	-	-	-	-	-	-	-	
TOTAL GREENWAY & HERITAGE TRAIL			**10,000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
7620	**ADULT RECREATION**										
A7620	470600	SENIOR PROGRAMS	1,283	3,500	3,500	-	2,500	2,500	-	2,500	
A7620	476500	SENIOR ART	2,912	3,080	3,080	2,858	3,280	3,280	2,587	3,900	
TOTAL ADULT RECREATION			**4,195**	**6,580**	**6,580**	**2,858**	**5,780**	**5,780**	**2,587**	**6,400**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
8010 ZONING											
A8010	101000	REGULAR SALARIES	6,648	6,462	6,750	6,750	6,914	6,914	5,146	7,084	
A8010	105000	OVERTIME	963	1,000	1,717	1,717	1,200	1,254	1,425	2,000	
A8010	416000	MATERIALS & SUPPLIES	266	300	172	171	300	300	121	300	
A8010	443200	TRAINING			-		1,000	1,000		500	
A8010	452000	ENGINEERS							553		
A8010	455000	VIDEOGRAPHER			800	800	2,400	2,400	1,600	2,400	
A8010	820000	SOCIAL SECURITY	581	571	646	645	621	621	501	695	
TOTAL ZONING			**8,458**	**8,333**	**10,085**	**10,083**	**12,435**	**12,489**	**9,346**	**12,979**	
8020 PLANNING											
A8020	101000	REGULAR SALARIES	6,648	6,462	6,750	6,750	6,914	6,914	5,146	7,084	
A8020	105000	OVERTIME	2,179	2,400	3,116	3,115	2,400	2,346	2,037	2,400	
A8020	250000	EQUIPMENT	1,295	-	-	-		-			
A8020	416000	MATERIALS & SUPPLIES	450	450	377	377	450	1,958	1,956	1,450	
A8020	443200	TRAINING					1,000	1,000	-	500	
A8020	450400	ATTORNEYS			1,069	1,069				-	
A8020	452000	CONSULTANT	122,855	50,000	46,309	40,163	70,000	149,500	78,836	65,000	
A8020	454000	ENGINEERS	-	-	3,157	3,156		-	-		
A8020	455000	VIDEOGRAPHER	2,650	2,400	2,400	2,400	2,400	2,400	1,600	2,400	
A8020	820000	SOCIAL SECURITY	673	678	753	752	713	713	548	726	
TOTAL PLANNING			**136,750**	**62,390**	**63,931**	**57,782**	**83,877**	**164,831**	**90,123**	**79,560**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
8160 SANITATION											
A8160	446600	REFUSE REMOVAL	54,315	60,000	66,174	66,174	60,000	77,200	48,970	84,463	
A8160	449100	GARBAGE HAULING & DISPOSAL	668,921	672,000	672,000	669,138	668,892	677,192	391,651	685,101	
A8160	449101	ADD A CAN EXPENSE	130	246	246	25	150	150	25	125	
A8160	449300	RECYCLING HAULING	180,634	230,604	238,602	238,601	238,000	233,664	136,276	231,331	
A8160	449301	RECYCLING DISPOSAL	-					44,771	24,295	65,700	
TOTAL SANITATION			**904,000**	**962,850**	**977,022**	**973,938**	**967,042**	**1,032,977**	**601,217**	**1,066,720**	
8170 STREET CLEANING											
A8170	416000	MATERIALS & SUPPLIES	530	3,750	1,976	1,289	3,000	3,000	2,833	3,000	
A8170	447200	REPAIR OF EQUIPMENT	7,322	8,000	14,524	13,547	10,000	10,000	2,475	5,000	
TOTAL STREET CLEANING			**7,852**	**11,750**	**16,500**	**14,836**	**13,000**	**13,000**	**5,308**	**8,000**	
8189 RECYCLING											
A8189	101000	REGULAR SALARIES	171,086	181,219	179,867	138,987	127,168	127,168	92,219	86,330	
A8189	105000	OVERTIME	4,178	1,500	2,852	2,472	2,400	2,400	1,956	2,400	
A8189	105200	SICK LEAVE BONUS	200	600	600	600	600	600	600	600	
A8189	112500	MEALS	105	100	100	56	200	200	14	200	
A8189	119000	CLOTHING ALLOWANCE	1,500	1,650	1,650	1,100	1,200	1,200	1,200	975	
A8189	190000	SEVERANCE/RETIREMENT PAY			33,184	33,183					
A8189	412650	RECYCLING CENTER GAS/OIL F	7,238	6,000	-	-	5,000	5,000	1,160	2,300	
A8189	413000	GAS & DIESEL	10,646	13,601	5,429	4,066	11,833	11,833	-	14,307	
A8189	415400	TOOLS	-	250	276	276	250	250	-	250	
A8189	416000	MATERIALS & SUPPLIES	242	500	474	404	500	500	-	500	
A8189	418600	TUBES & TIRES	-	-	-	-	1,000	1,000	-	750	
A8189	422050	RECYCLING CENTER ELECTRIC	1,397	1,657	1,657	1,209	1,439	1,439	1,053	1,686	
A8189	447200	REPAIR OF EQUIPMENT	23,729	30,000	22,737	21,114	30,000	30,000	7,972	25,000	
A8189	447300	REPAIR OF REAL PROPERTY	587	700	700	-			-		
A8189	820000	SOCIAL SECURITY	12,768	14,158	16,697	12,806	10,065	10,065	6,724	6,924	
TOTAL RECYCLING			**233,676**	**251,935**	**266,223**	**216,273**	**191,655**	**191,655**	**112,898**	**142,222**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
9010 EMPLOYEES RETIREMENT SYSTEM											
A9010	810000	RETIREMENT	322,985	312,670	309,840	309,740	306,401	306,401	-	304,988	
TOTAL RETIREMENT			**322,985**	**312,670**	**309,840**	**309,740**	**306,401**	**306,401**	**-**	**304,988**	
9040 WORKERS COMPENSATION											
A9040	830000	WORKERS' COMPENSATION	228,988	228,988	228,988	228,988	247,307	247,307	247,307	290,610	
A9040	830001	VOLUNTEER FIREFIGHTERS								24,596	
TOTAL COMPENSATION			**228,988**	**228,988**	**228,988**	**228,988**	**247,307**	**247,307**	**247,307**	**315,206**	
9050 UNEMPLOYMENT BENEFITS											
A9050	850100	UNEMPLOYMENT BENEFITS	1,347	5,000	1,254	1,254	4,000	4,000	-	2,000	
TOTAL UNEMPLOYMENT			**1,347**	**5,000**	**1,254**	**1,254**	**4,000**	**4,000**	**-**	**2,000**	
9055 DISABILITY											
A9055	850000	INSURANCE	5,141	5,800	6,839	6,839	5,800	5,800	2,989	5,800	
TOTAL DISABILITY			**5,141**	**5,800**	**6,839**	**6,839**	**5,800**	**5,800**	**2,989**	**5,800**	
9060 HEALTH INSURANCE											
A9060	840000	HEALTH INSURANCE	2,850,865	2,635,143	2,642,643	2,965,448	2,629,879	2,629,879	1,875,729	2,958,783	
A9060	840100	MEDICARE REIMBURSEMENT	89,854	93,816	101,316	101,597	104,282	104,282	70,057	140,676	
A9060	840200	EMPLOYEE ASSISTANCE PROGI	2,348	2,300	2,372	2,371	2,400	2,400	1,815	2,500	
A9060	840400	EMPLOYEE DRUG TESTING	6,513	5,000	4,096	4,096	3,000	3,000	1,147	3,000	
A9060	840500	DENTAL INSURANCE	72,939	77,660	69,160	67,086	76,412	76,412	43,088	64,334	
A9060	840600	VISION INSURANCE	8,593	9,584	9,793	9,792	9,319	9,319	7,381	9,814	
A9060	840700	LIFE INSURANCE	652	700	652	652	660	660	964	1,000	
TOTAL HEALTH INSURANCE			**3,031,764**	**2,824,203**	**2,830,032**	**3,151,042**	**2,825,952**	**2,825,952**	**2,000,181**	**3,180,107**	

2019 CITY OF BEACON BUDGET

GENERAL FUND EXPENSE (A)			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
9710 SERIAL BONDS											
A9710	601100	2011 (1996 & 2001) PRINCIPAL	313,903	306,598	306,598	306,598	322,319	322,319	322,319	326,252	
A9710	605500	2014 (2005) PRINCIPAL	569,694	587,387	587,387	587,387	619,233	619,233	619,233	636,925	
A9710	605600	2016 PRINCIPAL		122,077	122,077	122,077	123,207	123,207		124,339	
A9710	605700	2018 PRINCIPAL								495,812	
A9710	605800	2008 PRINCIPAL	400,000	420,000	420,000	420,000	440,000	440,000		460,000	
A9710	701100	2011 (1996 & 2001) INTEREST	54,536	41,980	41,980	41,980	29,716	29,716	29,716	20,047	
A9710	705500	2014 (2005) INTEREST	185,827	163,040	163,040	163,040	133,670	133,670	133,670	115,093	
A9710	705600	2016 INTEREST	38,387	80,550	80,550	80,550	78,098	78,098		75,622	
A9710	705700	2018 INTEREST								482,312	
A9710	705800	2008 INTEREST	157,469	142,469	142,469	142,469	125,669	125,669		103,669	
TOTAL SERIAL BONDS			**1,719,816**	**1,864,101**	**1,864,101**	**1,864,101**	**1,871,912**	**1,871,912**	**1,104,938**	**2,840,071**	
9730 BOND ANTICIPATION NOTES											
A9730	607599	BAN Principal	460,857	530,500	530,270	530,270	554,975	554,975	554,975	-	
A9730	707599	BAN Interest	58,940	127,364	127,301	127,302	174,821	174,821	174,821	-	
TOTAL BANS			**519,797**	**657,864**	**657,571**	**657,572**	**729,796**	**729,796**	**729,796**	**-**	
9950 INTERFUND TRANSFERS											
A9950	900003	INTERFUND TRANSFER	-	-	1,721,346	1,721,346	-	-		-	
TOTAL INTERFUND TRANSFERS			**-**	**-**	**1,721,346**	**1,721,346**	**-**	**-**	**-**	**-**	
TOTAL GENERAL EXPENSE			**18,867,605**	**19,653,153**	**21,594,681**	**21,206,825**	**20,143,593**	**20,306,192**	**12,771,593**	**20,723,533**	

2019 CITY OF BEACON BUDGET

GENERAL FUND REVENUE (A)

			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1325 FINANCE											
A1325	100113	2013 TAX REVENUE	97,205			4,043					
A1325	100114	2014 TAX REVENUE	272,956			320,211					
A1325	100115	2015 TAX REVENUE	(247,842)			14,571					
A1325	100116	2016 TAX REVENUE	9,875,772			27,857			607,945		
A1325	100117	2017 TAX REVENUE			10,319,219	9,586,899			(391,235)		
A1325	100118	2018 TAX REVENUE					10,593,191	10,593,191	14,577,280		
A1325	102827	BUILDING VIOLATONS	67,602			62,922			45,568		
A1325	108100	PAYMENTS IN LIEU OF TAX	174,565	173,975	173,975	222,463	214,983	214,983	161,593		
A1325	109006	2016 TAX INTEREST							34,199		
A1325	109007	2017 TAX INTEREST		95,000	95,000	64,109			2,242		
A1325	109008	2018 TAX INTEREST					95,000	95,000	446,541		
A1325	109009	2019 TAX INTEREST								95,000	
A1325	109013	2013 TAX INTEREST	17,304			833					
A1325	109014	2014 TAX INTEREST	2,569			3,469					
A1325	109015	2015 TAX INTEREST	67,822								
A1325	109050	IN REM INTEREST	402,774			56,263			1,512		
A1325	111000	SALES TAX	4,282,910	4,158,686	4,158,686	4,321,409	4,278,686	4,278,686	2,574,425	4,321,000	
A1325	113000	UTILITY TAX	140,124	140,000	140,000	154,164	134,000	134,000	142,467	134,000	
A1325	113001	UTILITY TAX REFUND AUDIT	2,822								
A1325	117000	FRANCHISE TAX	232,845	236,000	236,000	242,613	236,000	236,000	178,982	236,000	
A1325	123000	SCHOOL TAX PENALTY	53,888	46,500	46,500	34,069	52,000	52,000	33,421	50,000	
A1325	126000	HEALTH INSURANCE REIMBURSEM	227,982	245,084	245,084	250,530	257,822	257,822	212,597	328,626	
A1325	126001	DENTAL INSURANCE REIMBURSEM	59,452	58,360	58,360	56,153	57,728	57,728	40,972	54,764	
A1325	201202	FLEA MARKET FEE	5,940	4,000	4,000	5,940	5,000	5,000	2,640	5,000	
A1325	240100	INTEREST & EARNINGS	8,061	7,000	7,000	10,146	8,000	8,000	43,830	38,000	
A1325	240102	BOND & COUPON INTEREST	536	500	500	296	300	300	1,056	500	
A1325	250100	BUSINESS/OCCUPATIONAL LICENS	6,910	6,200	6,200	14,150	8,000	8,000	6,620	8,000	
A1325	254000	BINGO LICENSES	4,096	3,000	3,000	5,210	4,000	4,000	5,754	4,000	

2019 CITY OF BEACON BUDGET

GENERAL FUND REVENUE (A)

			2016 YTD ACTUAL	2017 ADOPTED BUDGET	2017 REVISED BUDGET	2017 YTD ACTUAL	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL	2019 REQUESTED BUDGET	COMMENTS
			12/31/16		12/31/17	12/31/17		10/01/18	10/01/18		
A1325	254500	OTHER LICENSES	1,347	1,000	1,000	1,253	1,000	1,000	1,000	1,000	
A1325	261000	FINES & FORFEITED BAIL	223,181	205,000	205,000	176,829	175,000	175,000	103,475	145,000	
A1325	265000	SALE OF SCRAP				32,744	-	-	3,500	-	
A1325	265501	BIDS	350	1,000	1,000	1,375	1,000	1,000	2,090	1,000	
A1325	266000	SALE OF REAL PROPERTY	16,000	100,000	100,000	64,465	50,000	50,000	107,606	50,000	
A1325	268000	INSURANCE RECOVERIES	1,443			3,518	-	-	75	-	
A1325	268001	INSURANCE REIMBURSEMENT	28,512			93,921	15,000	15,000	32,146	30,000	
A1325	277000	MISCELLANEOUS REVENUE	10,092			3,828	4,000	4,000	7,798	3,000	
A1325	277007	BANNER PERMITS							1,700	2,000	
A1325	280101	INTERFUND REVENUE - WATER	225,240	233,700	233,700	233,700	241,520	241,520	-	249,950	
A1325	280102	INTERFUND REVENUE - SEWER	243,160	215,790	215,790	215,790	216,800	216,800	-	224,670	
A1325	300100	STATE AID AIM FUNDING	1,537,478	1,537,478	1,537,478	1,537,478	1,537,478	1,537,478	144,447	1,537,478	
A1325	300500	STATE AID MORTGAGE TAX	513,249	350,000	350,000	440,337	400,000	400,000	293,350	450,000	
A1325	333100	STATE AID O&M COURT FACILITY	53,766	54,000	54,000	50,632	54,000	54,000	-	50,000	
A1325	378901	STATE AID CULT & REC	1,000								
A1325	496000	FED AID EMERGENCY DISASTER							55,725		
TOTAL FINANCE			**18,611,111**	**7,872,273**	**18,191,492**	**18,314,190**	**18,640,508**	**18,640,508**	**19,481,321**	**8,018,988**	
1410 CITY CLERK											
A1410	125500	CLERK FEES	7,488	8,500	8,500	8,378	7,500	7,500	6,329	7,500	
A1410	125506	NSF CHECK FEE	180	100	100	340	100	100	180	100	
A1410	125520	INREM FEES	9,310			12,325			2,351	3,000	
TOTAL CITY CLERK			**16,978**	**8,600**	**8,600**	**21,043**	**7,600**	**7,600**	**8,860**	**10,600**	
1620 PUBLIC BUILDINGS											
A1620	221001	CHAMBER WELCOME CTR ELECTRI	1,188	1,049	1,049	1,237	1,410	1,410	1,025	1,302	
A1620	302101	STATE AID COURT TELEPHONES	1,080	1,200	1,200	1,297	1,200	1,200	683	1,200	
TOTAL PUBLIC BUILDINGS			**2,268**	**2,249**	**2,249**	**2,534**	**2,610**	**2,610**	**1,708**	**2,502**	

2019 CITY OF BEACON BUDGET

GENERAL FUND REVENUE (A)

			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
3120 POLICE											
A3120	152000	POLICE FEES	555	500	500	716	500	500	602	500	
A3120	174000	PARKING TICKETS	134,675	140,000	140,000	144,342	140,000	140,000	138,533	160,000	
A3120	200114	EVENT FEE-POLICE OT	12,037	7,000	14,000	24,161	7,000	10,831	9,751	8,000	
A3120	226001	SCHOOL RESOURCE OFFICER						5,074	6,196		
A3120	238901	DC DRUG TASK FORCE					99,632	99,632	38,301	145,580	
A3120	255000	ALARM PERMIT	300			300	300	300	150		
A3120	268000	INSURANCE RECOVERY	6,275	-	11,852	12,021	-	-	-		
A3120	277000	MISC REVENUE	10,130			1,750		3,500	10,198		
A3120	331500	ST AID STOP DWI	8,812	10,000	10,000	1,151	1,000	2,301	4,008	1,500	
A3120	331508	ST AID POLICE TRAFFIC SERVICES	10,359	10,210	10,210	10,120	11,000	11,000	-	9,075	
A3120	331517	ST AID IMPACT TOOLS GRANT	1,714						-		
A3120	338909	ST AID LIVE SCAN GRANT	10,000						-		
A3120	398900	ST AID CHILD PASSENGERSEAT	10,289	600	600	-	2,950	2,950	-	2,500	
A3120	432040	FED AID HOMELAND GRANT	1,383						-		
A3120	432045	FED DCJS GRANT		7,260	9,131	7,259			-		
A3120	438950	FED AID - Byrne Grant/JAG	-	20,000	20,000	29,900	10,000	10,000	-		
TOTAL POLICE			**206,529**	**195,570**	**216,293**	**231,720**	**272,382**	**286,088**	**207,739**	**327,155**	
3130 DETECTIVES											
A3130	262500	ASSET FORFEITURE	627			551		4,401	4,401		
TOTAL DETECTIVES			**627**	**-**	**-**	**551**	**-**	**4,401**	**4,401**	**-**	

2019 CITY OF BEACON BUDGET

GENERAL FUND REVENUE (A)

			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
3410 FIRE											
A3410	268000	INSURANCE RECOVERY	5,778								
A3410	438912	FED AID	31,143								
TOTAL FIRE			**36,921**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
3510 ANIMAL CONTROL											
A3510	155001	DOG ADOPTION FEE	-	200	200	-	-	-	-	-	
A3510	254200	DOG LICENSES	5,697	5,000	5,000	5,561	5,500	5,500	4,994	5,500	
A3510	261100	DOG FINES	1,980	1,500	1,500	2,020	1,500	1,500	1,465	1,500	
TOTAL ANIMAL CONTROL			**7,677**	**6,700**	**6,700**	**7,581**	**7,000**	**7,000**	**6,459**	**7,000**	
3620 BUILDING DEPARTMENT											
A3620	226000	RECORD SEARCHES	42,450	35,000	35,000	43,425	40,000	40,000	32,766	40,000	
A3620	238000	FIRE INSPECTION FEE	3,900	15,000	15,000	5,575	15,000	15,000	2,525	15,000	
A3620	238500	SEWER INSPECTION FEE	1,350	500	500	1,300	500	500	650	500	
A3620	238900	SECTION 8 INSPECTION FEE	5,005	6,000	6,000	7,350	7,245	7,245	4,716	7,245	
A3620	250102	PLUMBING LICENSES	12,632	10,000	10,000	13,103	10,000	10,000	8,300	10,000	
A3620	250103	ELECTRIC LICENSES	42,000	25,000	25,000	33,730	25,000	25,000	19,800	25,000	
A3620	255500	BUILDING PERMITS	254,240	130,000	130,000	181,647	150,000	150,000	20,150	190,000	
A3620	255501	C.O. APPLICATION FEE	15,500	10,000	10,000	16,450	14,000	14,000	140,372	14,000	
A3620	256500	PLUMBERS PERMITS	12,513	6,000	6,000	18,583	8,500	8,500	11,450	15,000	
A3620	257000	RENTAL PERMITS	7,200	13,000	13,000	13,100	10,000	10,000	8,775	7,200	
A3620	257100	VACANT REGISTRATION	51,615	30,000	30,000	50,118	30,000	30,000	31,764	12,000	
A3620	257500	ELECTRICAL PERMITS	9,880	5,000	5,000	8,480	7,000	7,000	6,050	7,000	
A3620	259000	VEHICLE PERMITS	650	250	250	600	250	250	150	250	
A3620	259002	TREE & GRADING PERMITS							150	100	
A3620	259005	CHICKEN PERMITS	275			125	100	100	75	100	
A3620	259006	SIDE CAFÉ PERMITS	200			100	100	100	100	100	
A3620	261200	MISCELLANEOUS	3,304	4,000	4,000	11,136	4,000	4,000	5,158	5,000	
A3620	261202	SNOW VIOLATIONS	-	1,500	1,500	12,339	1,500	1,500	4,137	1,500	
TOTAL BUILDING DEPARTMENT			**462,714**	**291,250**	**291,250**	**417,161**	**323,195**	**323,195**	**297,088**	**349,995**	

2019 CITY OF BEACON BUDGET

GENERAL FUND REVENUE (A)

			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
5110 HIGHWAY											
A5110	171000	ROAD IMPROVEMENT 15% HAULER	193,143	185,000	185,000	206,495	185,295	185,295	112,096	185,295	
A5110	178901	MTA COMMUTER PARKING	59,305	55,000	55,000	58,489	56,000	56,000	42,893	56,000	
A5110	178903	ZIP CAR	560	500	500	260	400	400	-	-	
A5110	256000	STREET OPENING PERMITS	15,800	10,000	10,000	19,800	10,000	10,000	53,200	15,000	
A5110	268000	INSURANCE RECOVERIES							4,202		
A5110	277000	BVAC FUEL REIMBURSEMENT	7,689	15,109	15,109	7,339	12,866	12,866	7,339	12,073	
A5110	350100	STATE AID CHIPS			9,764	9,764					
A5110	351000	STATE AID 9D O&M	24,123	24,123	24,123	24,123	24,123	24,123	12,062	24,123	
TOTAL HIGHWAY			**300,620**	**289,732**	**299,496**	**326,270**	**288,684**	**288,684**	**231,792**	**292,491**	
A7110 PARK											
A7110	208909	HIDDENBROOK MAINT CHRG	2,000	2,000	2,000	2,000	2,000	2,000	-	2,000	
A7110	270500	DONATIONS			500	1,060					
TOTAL PARK			**2,000**	**2,000**	**2,500**	**3,060**	**2,000**	**2,000**	**-**	**2,000**	
A7112 UNIVERSITY SETTLEMENT											
A7112	200190	USC-USAGE FEE	30,470	30,000	30,000	20,975	35,000	35,000	15,413	35,000	
A7112	208902	PHELPS-USC Donation		-	22,416	22,416	-	-	-		
TOTAL UNIVERSITY			**30,470**	**30,000**	**52,416**	**43,391**	**35,000**	**35,000**	**15,413**	**35,000**	

GENERAL FUND REVENUE (A)

			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
7140 RECREATION											
A7140	200100	RECREATION FEES	1,670	3,000	6,101	6,195	3,000	3,000	120	3,000	
A7140	200101	PARK USE FEES	13,865	18,000	18,000	9,886	13,000	13,000	9,360	7,500	
A7140	200108	SUMMER CAMP FEE	-	-	49,753	47,903	59,250	59,250	52,697	57,000	
A7140	200113	SPORT CAMP FEE	-	3,500	3,500	-	3,500	3,500	6,260	4,050	
A7140	200115	AFTER SCHOOL	52,078	262,500	262,500	100,310	150,000	150,000	68,600	125,000	
A7140	200157	JAZZERCISE FEES	-	1,500	1,500	-				-	
A7140	200160	YARD SALE FEES-NEW	662	500	500	610	500	500	585	500	
A7140	200175	BEACON HOOPS FEES	4,550	18,500	18,500	5,170	9,000	9,000	7,175	6,500	
A7140	200184	SWIMMING LESSON FEES	1,035	-	-	2,313		585	585	-	
A7140	200187	TENNIS FEES	3,715	3,500	3,500	3,535	3,500	3,500	4,035	3,500	
A7140	208900	PLANNING RECREATION FEES	15,000	-	13,824	6,824		10,000		-	
A7140	208903	FIREWORKS	7,210	7,500	7,500	-	-	7,500	-	7,500	
A7140	241000	RENTAL OF REAL PROPERTY	4,125	6,000	6,000	5,000	6,000	6,000	3,475	3,000	
A7140	270500	DONATIONS	300	-	500	500			244		
A7140	270572	WOMENS SOFTBALL FEE	2,400	3,200	3,200	2,800	3,200	3,200	2,000	3,200	
A7140	270596	WOMENS VOLLEYBALL FEE	350	350	350	200	350	350	-	350	
A7140	364300	ST AID FOOD ASSISTANCE				737			2,927	3,600	
TOTAL RECREATION			**106,960**	**328,050**	**395,228**	**191,983**	**251,300**	**269,385**	**158,063**	**224,700**	
7141	**SWIMMING POOL FACILITY**										
A7141	200183	POOL TICKET FEES	36,820	35,000	35,000	33,072	35,000	35,000	28,459	32,000	
A7141	200184	SWIMMING LESSON FEES	-	3,800	3,800	10	2,000	2,000	-	2,000	
A7141	238902	DC GRANT SWIM ACADEMY	3,787								
TOTAL SWIMMING POOL FACILITY			**40,607**	**38,800**	**38,800**	**33,082**	**37,000**	**37,000**	**28,459**	**34,000**	
7197	**GREENWAY & HERITAGE TRAIL**										
A7197	208911	GREENWAY	5,000	-	-	2,500	-	39,500	1,000	-	
TOTAL GREENWAY & HERITAGE TRAIL			**5,000**	**-**	**-**	**2,500**	**-**	**39,500**	**1,000**	**-**	

2019 CITY OF BEACON BUDGET

GENERAL FUND REVENUE (A)

			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
7620	**ADULT RECREATION**										
A7620	200165	SENIOR ART FEES	2,230	3,080	3,080	-	3,280	3,280	2,550	3,900	
TOTAL ADULT RECREATION			**2,230**	**3,080**	**3,080**	**-**	**3,280**	**3,280**	**2,550**	**3,900**	
7989	**FARMERS MARKET**										
A7989	201201	FARMERS MARKET PROCEEDS	300	1,200	1,200	-			700		
TOTAL FARMERS MARKET			**300**	**1,200**	**1,200**	**-**	**-**	**-**	**700**	**-**	
8010	**ZONING**										
A8010	211000	ZONING FEES	6,455	3,500	3,500	9,100	3,500	3,500	4,250	3,500	
TOTAL ZONING			**6,455**	**3,500**	**3,500**	**9,100**	**3,500**	**3,500**	**4,250**	**3,500**	
8020	**PLANNING**										
A8020	211500	PLANNING APPLICATION FEES	28,700	38,000	38,000	113,750	38,000	38,000	29,950	40,000	
A8020	211503	PLANNING BOARD LAWN SIGN						1,508	467	1,000	
A8020	390200	ST AID PLANNING STUDY	3,307			843	-	-	-	-	
TOTAL PLANNING			**32,007**	**38,000**	**38,000**	**114,593**	**38,000**	**39,508**	**30,417**	**41,000**	
8160	**SANITATION**										
A8160	213001	GARBAGE CAN FEE-CITY SHARE	2,632	1,800	1,800	3,703	2,800	2,800	1,866	2,800	
A8160	213002	ADD A CAN FEE	150	150	150	135	150	150	105	150	
TOTAL SANITATION			**2,782**	**1,950**	**1,950**	**3,838**	**2,950**	**2,950**	**1,971**	**2,950**	

2019 CITY OF BEACON BUDGET

GENERAL FUND REVENUE (A)

			2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
8189 RECYCLING											
A8189	213000	GARBAGE/RECYCLING CHARGES	52,676	42,000	42,000	44,525	40,000	40,000	30,761	50,000	
A8189	213001	RECYCLING REVENUE	15,321	16,000	16,000	18,132	16,000	4,085	4,084	-	
TOTAL RECYCLING			**67,997**	**58,000**	**58,000**	**62,657**	**56,000**	**44,085**	**34,845**	**50,000**	
9950 INTERFUND TRANSFERS											
A9950	503100	INTERFUND TRANSFER						41,113			
TOTAL INTERFUND TRANSFERS			**-**	**-**	**-**	**-**	**-**	**41,113**	**-**	**-**	
TOTAL GENERAL REVENUE			**19,942,253**	**9,170,954**	**19,610,754**	**19,785,254**	**19,971,009**	**20,077,407**	**20,517,036**	**9,405,781**	

WATER FUND EXPENSE (F)

		2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
1380 FISCAL AGENT FEES										
F1380-461200	FISCAL AGENT FEE	15,322	3,000	3,000	3,000	3,000	3,000	-	10,000	
F1380-461201	FISCAL AGENT FEE-EFC	912	-	-	-	-	-	-	-	
TOTAL FISCAL AGENT FEES		**16,234**	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**-**	**10,000**	
1420 WATER LEGAL EXPENSES										
F1420-450400	ATTORNEYS	33,450	42,000	42,000	39,619	42,000	42,000	24,641	42,000	
F1420-452000	LABOR ATTORNEY	6,920	-	-	-	-	-	-	-	
TOTAL WATER LEGAL EXPENSES		**40,370**	**42,000**	**42,000**	**39,619**	**42,000**	**42,000**	**24,641**	**42,000**	
1680 TECHNOLOGY										
F1680 250000	PURCHASE OF EQUIPMENT	179	700	700	-	2,200	2,200	179	2,100	
F1680 444100	LICENSES	1,826	1,133	1,133	897	1,801	1,801	2,062	1,790	
F1680 452003	IT CONSULTANT	3,006	2,160	2,160	720	3,510	3,510	968	3,600	
TOTAL TECHNOLOGY		**5,011**	**3,993**	**3,993**	**1,617**	**7,511**	**7,511**	**3,209**	**7,490**	
1950 TAXES ON CITY PROPERTY										
F1950-468000	TAXES ON CITY PROPERTY	246,375	253,766	248,966	241,597	248,844	248,844	233,107	237,769	
TOTAL TAXES ON CITY PROPERTY		**246,375**	**253,766**	**248,966**	**241,597**	**248,844**	**248,844**	**233,107**	**237,769**	
1980 MTA PAYROLL TAX										
F1980.400099	MTA PAYROLL TAX	1,875	2,232	2,232	1,783	2,433	2,433	1,334	2,565	
TOTAL MTA PAYROLL TAX		**1,875**	**2,232**	**2,232**	**1,783**	**2,433**	**2,433**	**1,334**	**2,565**	
1990 CONTINGENCY										
F1990-400001	CONTINGENCY FUND	-	9,840	9,840	-	10,000	10,000	-	10,000	
F1990-400004	CONTINGENCY-RETIREMENT	-	-	-	-	-	-	-	59,000	
TOTAL CONTINGENCY		**-**	**9,840**	**9,840**	**-**	**10,000**	**10,000**	**-**	**69,000**	

WATER FUND EXPENSE (F)

		2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
8310 WATER ADMINISTRATION										
F8310-250000	EQUIPMENT					450	2,795	-		
F8310-416000	MATERIALS & SUPPLIES	-	450	450	399	300	300	236	350	
F8310-417700	SANITARY AND PAPER SUPPLIES	126	300	284	216	-	-	-		
F8310-423201	INTRUSION ALARM MONITORS	288	300	300	288	350	662	312	662	
F8310-441500	COMPUTER SUPPORT/DATA PROC.SE	1,666	1,700	1,716	1,716	1,750	2,438	2,437	2,500	
F8310-443200	TRAINING	1,255	1,200	411	195	1,200	512	256	1,200	
F8310-446000	PRINTING	-	1,000	1,000	-	1,000	1,000	200	1,000	
F8310-446006	WATER/SEWER BILL PRINTING	1,447	700	1,433	1,432	1,000	1,000	156	1,000	
F8310-450500	ADMINISTRATION FEE TO GENERAL	225,240	233,700	233,700	233,700	241,520	241,520	-	249,950	
F8310-452000	CONSULTANT					223,853	223,853	129,164	34,000	
F8310-462000	TRAVEL	440	500	500	19	500	500	7	500	
F8310-465000	POSTAGE	4,035	6,160	10,719	10,718	8,000	8,000	7,635	10,000	
F8310-467000	ASSOCIATION DUES	120	500	500	220	220	220	220	220	
TOTAL WATER ADMINISTRATION		**234,617**	**246,510**	**251,013**	**248,903**	**480,143**	**482,800**	**140,623**	**301,382**	
8320 WATER SUPPLY										
F8320-422085	SUPPLY ELECTRIC	1,637	1,455	1,752	1,751	2,291	2,291	1,037	1,489	
F8320-424000	WATER FROM OTHER GOVERNMENTS	125,868	230,000	230,000	189,390	175,000	175,000	-	700,000	
TOTAL WATER SUPPLY		**127,505**	**231,455**	**231,752**	**191,141**	**177,291**	**177,291**	**1,037**	**701,489**	

WATER FUND EXPENSE (F)

		2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
8330 WATER PURIFICATION										
F8330-101000	REGULAR SALARIES	131,868	157,660	147,160	132,337	187,837	187,837	98,537	183,151	
F8330-105000	OVERTIME	22,257	20,000	30,500	30,500	24,000	24,000	12,823	25,000	
F8330-105200	SICK LEAVE BONUS	200	1,200	1,200	1,200	600	600	600	600	
F8330-105202	ON CALL					6,800	6,800	3,800	5,400	
F8330-112500	MEALS	247	300	300	210	300	300	126	300	
F8330-119000	CLOTHING ALLOWANCE	1,000	1,650	1,650	1,100	1,800	1,800	1,200	1,950	
F8330-190000	SEVERANCE/RETIREMENT PAY	503			-					
F8330-410900	CHEMICALS	37,007	40,000	40,000	28,744	40,000	40,000	15,705	40,000	
F8330-412685	PURIFICATION GAS/OIL FOR HEAT	7,240	7,600	10,413	10,413	11,957	11,957	7,251	11,000	
F8330-416000	MATERIALS & SUPPLIES	1,186	2,000	2,000	1,308	2,000	2,000	424	2,000	
F8330-422045	PURIFICATION ELECTRIC	214,561	207,228	204,415	189,693	226,406	226,406	132,052	218,700	
F8330-423000	TELEPHONES	23,869	2,000	2,000	1,504	2,000	2,000	1,474	2,200	
F8330-423001	CELL PHONES	683	684	684	573	684	2,284	2,284	4,524	
F8330-441300	CHEMICAL ANALYSIS/LAB WORK	9,573	12,000	12,000	10,460	12,000	12,000	9,190	11,000	
F8330-445100	MAINTENANCE OF EQUIPMENT	31,069	46,000	46,000	37,897	45,000	43,400	20,543	40,000	
F8330-820000	SOCIAL SECURITY	11,878	13,832	13,832	12,048	16,932	16,932	8,479	16,555	
TOTAL WATER PURIFICATION		**493,141**	**512,154**	**512,154**	**457,987**	**578,316**	**578,316**	**314,488**	**562,380**	

WATER FUND EXPENSE (F)

		2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
8340 WATER DISTRIBUTION										
F8340-100401	SUPERINTENDENT SALARY	40,322	80,000	80,000	-	80,000	80,000	-	86,131	
F8340-101000	REGULAR SALARIES	342,355	365,261	364,513	351,204	377,937	377,937	273,477	401,312	
F8340-103100	TEMPORARY POSITION	6,163	6,250	5,800	5,800	6,250	6,250	5,534	13,250	
F8340-105000	OVERTIME	13,563	14,000	14,450	13,700	16,000	16,000	11,471	20,500	
F8340-105200	SICK LEAVE BONUS	600	1,200	1,200	600	1,200	1,200	600	1,800	
F8340-105202	ON CALL					3,400	3,400	3,800	5,400	
F8340-112500	MEALS	301	200	200	49	200	200	189	200	
F8340-119000	CLOTHING ALLOWANCE	3,000	3,850	3,850	3,850	4,200	4,200	3,600	4,550	
F8340-120000	HEALTH INSURANCE BUY-OUT	2,500	5,000	5,748	5,747	5,000	5,000	481	5,000	
F8340-190000	SEVERANCE/RETIREMENT				-					
F8340-250000	EQUIPMENT	8,599	7,000	10,314	10,313	7,000	7,000	5,697	70,480	
F8340-250031	PURCHASE HYDRANTS	4,834	6,000	5,191	4,264	6,000	6,000	4,452	6,000	
F8340-250400	PURCHASE WATER METERS	19,384	15,000	19,438	19,339	22,000	22,000	12,186	20,000	
F8340-413000	GAS & OIL	9,071	15,870	15,670	11,663	16,085	16,085	11,966	19,387	
F8340-415100	METER PARTS	3,160	23,500	26,014	25,484	10,000	10,000	8,591	10,000	
F8340-416000	MATERIALS & SUPPLIES	10,246	20,000	19,072	11,470	20,000	20,000	7,762	13,000	
F8340-416300	PAINTS	386	500	500	254	500	500	246	500	
F8340-416400	PIPE	798	3,000	3,000	1,789	3,000	3,000	841	3,000	
F8340-417400	ROADSIDE DEVELOPMENT	2,981	6,000	6,683	6,683	6,000	4,900	-	5,000	
F8340-417500	SAFETY SUPPLIES	816	2,000	2,000	965	2,500	2,634	2,465	4,000	
F8340-418600	TUBES & TIRES	2,813	3,000	3,000	1,881	3,000	3,000	1,092	3,000	
F8340-443200	TRAINING	649			-	650	650	-	650	
F8340-445200	MAINTENANCE SERVICE	2,248	3,000	3,000	1,746	3,000	3,000	418	12,980	
F8340-447000	RENTAL OF EQUIPMENT	710	1,000	1,000	651	1,000	1,000	237	1,000	
F8340-447200	REPAIR OF EQUIPMENT	33,503	45,000	35,291	31,417	40,000	39,814	24,776	40,000	
F8340-447300	REPAIR OF REAL PROPERTY			2,795		15,000	15,052	10,000	15,000	
F8340-447700	RENTAL OF RIGHT OF WAY	1,129	1,129	1,129	1,124	1,129	1,129	1,124	1,130	
F8340-454000	ENGINEERS	13,072	10,000	17,500	17,027	10,000	10,000	7,955	20,000	
F8340-454004	ENGINEERS-DAM INSPECTION	-	55,000	64,215	24,272	-	-	4,675		
F8340-457600	LEAK DETECTION					8,500	9,600	9,600		
F8340-820000	SOCIAL SECURITY	29,103	36,396	36,396	27,543	37,805	37,805	21,534	41,168	
TOTAL WATER DISTRIBUTION		**552,306**	**729,156**	**747,969**	**578,835**	**707,356**	**707,356**	**434,769**	**824,438**	

WATER FUND EXPENSE (F)

		2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
9010 EMPLOYEES RETIREMENT SYSTEM										
F9010-810000	RETIREMENT	75,369	78,376	78,376	72,279	76,805	76,805	-	76,450	
TOTAL EMPLOYEES RETIREMENT SYSTEM		**75,369**	**78,376**	**78,376**	**72,279**	**76,805**	**76,805**	**-**	**76,450**	
9040 WORKERS COMPENSATION										
F9040-830000	WORKERS' COMPENSATION	36,156	36,156	36,156	36,156	39,048	39,048	39,049	55,446	
TOTAL WORKERS COMPENSATION		**36,156**	**36,156**	**36,156**	**36,156**	**39,048**	**39,048**	**39,049**	**55,446**	
9055 DISABILITY										
F9055-850000	INSURANCE	777	700	817	816	700	700	350	700	
TOTAL DISABILITY		**777**	**700**	**817**	**816**	**700**	**700**	**350**	**700**	
9060 HEALTH INSURANCE										
F9060-840000	HEALTH INSURANCE	274,699	247,538	255,038	312,000	295,035	295,035	157,690	332,083	
F9060-840100	MEDICARE REIMBURSEMENT	1,259	2,720	1,858	1,858	8,447	8,447	1,769	6,730	
F9060-840500	DENTAL	5,040	6,078	6,768	6,767	8,460	8,460	3,456	5,150	
F9060-840600	VISION	921	910	860	859	6,096	6,096	819	1,113	
TOTAL HEALTH INSURANCE		**281,919**	**257,246**	**264,524**	**321,484**	**318,038**	**318,038**	**163,734**	**345,076**	

WATER FUND EXPENSE (F)

		2016 YTD ACTUAL 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
9710 SERIAL BONDS										
F9710-601100	2011 (1996 & 2001) PRINCIPAL	188,980	14,519	14,519	14,519	15,265	15,265	15,265	15,450	
F9710-605500	2014 (2005) PRINCIPAL	124,720	128,594	128,594	128,594	135,566	135,566	135,566	139,439	
F9710-605600	2016 PRINCIPAL		155,569	155,569	155,569	157,010	157,010	-	158,451	
F9710-607501	2011 (1998) PRINCIPAL (EFC)	365,000								
F9710-701100	2011 (1996 & 2001) INTEREST	9,547	1,988	1,988	1,988	1,407	1,407	1,407	949	
F9710-705500	2014 (2005) INTEREST	40,682	35,693	35,693	35,693	29,263	29,263	29,264	25,197	
F9710-705600	2016 INTEREST	48,919	102,649	102,649	102,649	99,524	99,524	-	96,369	
F9710-707501	2011 (1998) INTEREST (EFC)	9,567								
TOTAL SERIAL BONDS		**787,415**	**439,012**	**439,012**	**439,012**	**438,035**	**438,035**	**181,502**	**435,855**	
9730 BOND ANTICIPATION NOTES										
F9730-607599	BAN Principal	60,000	417,000	417,000	17,000	201,034	201,034	201,034	-	
F9730-707599	BAN Interest	21,848	4,005	4,005	4,013	5,493	5,493	5,493	-	
TOTAL BOND ANTICIPATION NOTES		**81,848**	**421,005**	**421,005**	**21,013**	**206,527**	**206,527**	**206,527**	**-**	
9950 INTERFUND TRANSFERS										
F9950-900001	INTERFUND TRANSFER			498,800	498,800					
TOTAL INTERFUND TRANSFERS		**-**	**-**	**498,800**	**498,800**	**-**	**-**	**-**	**-**	
TOTAL WATER EXPENSES		**2,980,918**	**3,266,601**	**3,791,609**	**3,154,042**	**3,336,047**	**3,338,704**	**1,744,370**	**3,672,040**	

CITY OF BEACON 2019 BUDGET

WATER FUND REVENUE (F)

		2016 ACTUAL	2017 ADOPTED BUDGET	2017 REVISED BUDGET	2017 YTD ACTUAL	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL	2019 REQUESTED BUDGET	COMMENTS
		12/31/16		12/31/17	12/31/17		10/01/18	10/01/18		
8310 WATER ADMINISTRATION										
F8310-126000-	HEALTH INSURANCE REIMBURSEMENT	32,013	36,703	36,703	30,005	31,380	31,380	26,575	52,670	
F8310-126001	DENTAL INSURANCE	6,468	5,891	5,891	5,856	8,460	8,460	4,828	6,302	
F8310-214000-	WATER RESIDENTIAL & COMMERCIAL	1,948,287	1,838,707	1,838,707	2,061,261	1,838,707	1,838,707	1,135,483	1,930,642	
F8310-214001-	WATER CORRECTIONAL FACILITIES	1,073,326	950,000	950,000	1,112,825	1,000,000	1,000,000	553,426	1,100,000	
F8310-214002-	WATER TOWN OF FISHKILL	478,311	406,000	406,000	496,943	415,000	415,000	235,344	500,000	
F8310-214400-	WATER SERVICE CHARGES	25,586	15,000	19,438	24,408	22,000	22,000	16,591	20,000	
F8310-214800-	WATER PENALTY	62,246	14,000	14,000	71,826	20,000	20,000	18,336	20,000	
F8310-215000	ELECTRIC SALE	-	-	-	-	-	-	-		
F8310-240100-	INTEREST & EARNINGS	598	300	300	954	500	500	5,243	5,000	
F8310-240101-	EFC INTEREST/SUBSIDY	3,189	-	-	-	-	-	-		
F8310-265000-	SALE OF SCRAP/EQUIPMENT						2,657	2,657		
F8310-268000-	INSURANCE RECOVERIES	3,900	-	2,795	2,795	-	-	1,270	-	
TOTAL WATER ADMINISTRATION		**3,633,924**	**3,266,601**	**3,273,834**	**3,806,873**	**3,336,047**	**3,338,704**	**1,999,753**	**3,634,614**	
TOTAL WATER REVENUES		**3,633,924**	**3,266,601**	**3,273,834**	**3,806,873**	**3,336,047**	**3,338,704**	**1,999,753**	**3,634,614**	

CITY OF BEACON 2019 BUDGET

SEWER FUND EXPENSE (G)

		2016 ACTUAL	2017 ADOPTED BUDGET	2017 REVISED BUDGET	2017 YTD ACTUAL	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL	2019 REQUESTED BUDGET	COMMENTS
		12/31/16		12/31/17	12/31/17		10/01/18	10/01/18		
1380 FISCAL AGENT FEES										
G1380-461200	FISCAL AGENT FEE	27,678	10,000	10,000	10,000	10,000	15,508	15,508	10,000	
G1380-461201	FISCAL AGENT FEE-EFC	2,024	1,712	1,712	1,712	1,386	1,386	1,386	1,050	
TOTAL FISCAL AGENT FEES		**29,702**	**11,712**	**11,712**	**11,712**	**11,386**	**16,894**	**16,894**	**11,050**	
1420 SEWER LEGAL EXPENSES										
G1420-450400	ATTORNEYS	48,733	52,000	52,000	49,434	52,000	52,000	32,776	52,000	
G1420-452000	LABOR ATTORNEY	6,920	-	-	-	-	-	-	-	
TOTAL LEGAL EXPENSES		**55,653**	**52,000**	**52,000**	**49,434**	**52,000**	**52,000**	**32,776**	**52,000**	
1680 TECHNOLOGY										
G1680 250000	EQUIPMENT	1,943	1,650	1,650	-	400	400	-	600	
G1680 444100	LICENSE AND PERMITS	854	1,648	1,648	854	2,506	2,506	1,629	1,730	
G1680 452003	IT CONSULTANT	6,939	4,050	4,050	428	5,400	5,400	473	3,600	
TOTAL TECHNOLOGY		**9,736**	**7,348**	**7,348**	**1,282**	**8,306**	**8,306**	**2,102**	**5,930**	
1980 MTA PAYROLL TAX										
G1980-400099	MTA PAYROLL TAX	2,189	2,473	2,473	2,369	2,660	2,660	1,815	2,783	
TOTAL MTA PAYROLL TAX		**2,189**	**2,473**	**2,473**	**2,369**	**2,660**	**2,660**	**1,815**	**2,783**	
1990 CONTINGENCY										
G1990-400001	CONTINGENCY FUND	-	107,500	86,500	-	75,000	-	-	75,000	
G1990-400004	CONTINGENCY FUND - RETIR	-	9,200	9,200	-					
TOTAL CONTINGENCY		**-**	**116,700**	**95,700**	**-**	**75,000**	**-**	**-**	**75,000**	
8110 SEWER ADMINISTRATION										
G8110-450500	ADMINISTRATION FEE TO GEN	243,160	215,790	215,790	215,790	216,800	216,800	-	224,670	
TOTAL SEWER ADMINISTRATION		**243,160**	**215,790**	**215,790**	**215,790**	**216,800**	**216,800**	**-**	**224,670**	

CITY OF BEACON 2019 BUDGET

SEWER FUND EXPENSE (G)

		2016 ACTUAL BUDGET 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
8120 SANITARY SEWER										
G8120-250000	PURCHASE EQUIPMENT	40	3,000	3,000	813	3,000	1,000	-	1,000	
G8120-416000	MATERIALS & SUPPLIES	1,007	4,500	4,149	695	4,500	4,464	2,913	4,500	
G8120-422075	SANITARY SEWER ELECTRIC	437	447	447	403	484	484	258	365	
G8120-447000	RENTAL OF EQUIPMENT	-	3,000	3,000	-	3,000	3,000	3,000	3,000	
G8120-447200	REPAIR OF EQUIPMENT	2,075	5,000	4,868	2,826	12,000	12,036	11,073	12,000	
G8120-454000	ENGINEERS	2,208	2,000	2,132	2,131	2,000	4,000	1,196	4,000	
TOTAL SANITARY SEWER		**5,767**	**17,947**	**17,596**	**6,868**	**24,984**	**24,984**	**18,440**	**24,865**	
8130 WATER POLLUTION CONTROL										
G8130-100401	SUPERINTENDENT SALARY	40,323	81,981	81,981	81,193	84,031	84,031	61,407	80,000	
G8130-101000	REGULAR SALARIES	503,069	543,606	509,387	507,903	569,198	569,198	414,382	604,568	
G8130-103100	TEMPORARY POSITION								7,000	
G8130-105000	OVERTIME	106,480	90,000	141,000	133,164	110,000	110,000	72,519	110,000	
G8130-105200	SICK LEAVE BONUS	600	4,200	4,200	4,200	4,206	4,206	3,600	3,000	
G8130-112500	MEALS	4,930	2,200	4,460	4,347	4,000	4,000	1,309	2,500	
G8130-119000	CLOTHING ALLOWANCE	4,225	5,500	5,187	4,675	6,000	6,000	6,000	6,500	
G8130-120000	HEALTH BUYOUT	1,501	-	2,272	2,271	5,000	5,000	2,500	5,000	
G8130-190000	SEVERANCE/RETIREMENT PA	9,289	-	-	-					
G8130-250000	PURCHASE EQUIPMENT	23,186	40,000	40,000	26,092	35,000	35,000	13,549	35,000	
G8130-410900	CHEMICALS	29,809	100,000	100,000	64,483	100,000	100,000	51,741	100,000	
G8130-410901	CARBON FILTERS	39,500	-	-	-	25,000	25,000	24,870	26,000	
G8130-411000	CLEANING SUPPLIES	1,434	1,200	1,305	1,305	2,000	2,000	1,739	2,200	
G8130-412680	WPC GAS/OIL FOR HEAT	3,535	7,500	7,500	5,266	9,846	9,846	4,036	9,850	
G8130-413000	GAS & DIESEL	1,615	1,876	1,876	1,775	2,092	2,092	1,370	2,600	
G8130-413002	VEHICLE OIL	929	1,000	1,000	-	1,000	1,000	-	1,000	
G8130-414500	LAB SUPPLIES	2,754	3,000	3,000	2,336	10,000	10,000	7,809	10,500	
G8130-414700	LIGHT BULBS	-	1,000	1,000	-	-	-	-		
G8130-415400	TOOLS	3,944	1,000	1,000	696	1,000	1,000	-	1,000	
G8130-416000	MATERIALS & SUPPLIES	3,406	2,500	2,500	1,764	3,000	3,000	2,595	3,500	

CITY OF BEACON 2019 BUDGET

SEWER FUND EXPENSE (G)

		2016 ACTUAL	2017 ADOPTED BUDGET	2017 REVISED BUDGET	2017 YTD ACTUAL	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL	2019 REQUESTED BUDGET	COMMENTS
		12/31/16		12/31/17	12/31/17		10/01/18	10/01/18		
G8130-416300	PAINTS	-	500	500	-	500	500	-	500	
G8130-417500	SAFETY SUPPLIES	1,993	2,000	1,850	601	2,500	2,500	974	15,000	
G8130-417700	SANITARY AND PAPER SUPPL	318	800	695	302	850	850	70	850	
G8130-422065	WPC ELECTRIC	192,029	188,989	188,589	181,901	218,971	216,616	110,132	196,000	
G8130-423000	TELEPHONES	1,865	1,700	2,197	2,196	1,800	1,800	1,637	2,200	
G8130-423001	CELL PHONES	667	480	630	578	684	684	422	684	
G8130-441300	CHEMICAL ANALYSIS/LAB WO	12,120	12,000	17,450	17,450	15,000	15,000	9,495	16,000	
G8130-443200	TRAINING	-	500	1,500	1,145	1,500	1,500	-	1,500	
G8130-444100	PROFESSIONAL LICENSE FEE	15,760	16,000	16,000	15,950	17,000	17,000	15,671	17,500	
G8130-444103	DEC FINES	-	-	-	-			-		
G8130-445100	MAINTENANCE OF EQUIPMEN	11,701	15,000	13,382	10,967	18,000	18,000	9,227	18,952	
G8130-446006	PRINTING BILLS	1,558	1,000	1,433	1,432	1,018	1,018	156	1,018	
G8130-446600	REFUSE REMOVAL	665,287	630,000	622,500	470,785	640,000	640,000	361,397	640,000	
G8130-447200	REPAIR OF EQUIPMENT	106,976	124,000	119,543	81,070	110,000	110,000	44,693	120,000	
G8130-447211	PROJECTS	53,033	70,000	65,485	54,532	70,000	205,684	205,940	20,900	
G8130-454000	ENGINEERS	6,120	40,000	340,000	229,685	40,000	40,000	40,602	25,000	
G8130-462000	TRAVEL	130	250	1,250	711	1,250	1,250	1	1,250	
G8130-465000	POSTAGE	4,100	4,100	4,143	4,142	4,100	4,100	3,104	4,100	
G8130-820000	SOCIAL SECURITY	49,231	55,653	55,653	53,841	59,856	59,856	40,823	62,620	
TOTAL WATER POLLUTION CONTROL		**1,903,417**	**2,049,535**	**2,360,468**	**1,968,758**	**2,174,402**	**2,307,731**	**1,513,770**	**2,154,292**	

CITY OF BEACON 2019 BUDGET

SEWER FUND EXPENSE (G)

		2016 ACTUAL	2017 ADOPTED BUDGET	2017 REVISED BUDGET	2017 YTD ACTUAL	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL	2019 REQUESTED BUDGET	COMMENTS
		12/31/16		12/31/17	12/31/17		10/01/18	10/01/18		
9010 EMPLOYEES RETIREMENT SYSTEM										
G9010-810000	RETIREMENT	106,466	100,464	102,102	102,101	98,450	98,450	-	97,996	
TOTAL EMPLOYEES RETIREMENT SYSTEM		**106,466**	**100,464**	**102,102**	**102,101**	**98,450**	**98,450**	**-**	**97,996**	
9040 WORKERS COMPENSATION										
G9040-830000	WORKERS' COMPENSATION	36,156	36,156	36,156	36,156	39,048	39,048	39,048	49,041	
TOTAL WORKERS COMPENSATION		**36,156**	**36,156**	**36,156**	**36,156**	**39,048**	**39,048**	**39,048**	**49,041**	
9055 DISABILITY										
G9055-850000	INSURANCE	412	600	710	710	600	600	352	600	
TOTAL DISABILITY		**412**	**600**	**710**	**710**	**600**	**600**	**352**	**600**	
9060 HEALTH INSURANCE										
G9060-840000	HEALTH INSURANCE	489,509	448,711	455,661	497,483	391,823	391,823	297,587	416,471	
G9060-840100	MEDICARE REIMBURSEMENT	1,259	5,238	6,343	6,343	15,818	15,401	6,656	16,662	
G9060-840500	DENTAL	4,618	4,269	4,852	4,851	5,558	5,975	5,975	9,285	
G9060-840600	VISION	1,344	1,466	1,443	1,442	1,466	1,466	1,302	1,714	
TOTAL HEALTH INSURANCE		**496,730**	**459,684**	**468,299**	**510,119**	**414,665**	**414,665**	**311,520**	**444,132**	
9710 SERIAL BONDS										
G9710-601100	2011 (2001) PRINCIPAL	67,117	68,883	68,883	68,883	72,416	72,416	72,416	73,299	
G9710-605500	2014 (2005) PRINCIPAL	110,585	114,020	114,020	114,020	120,201	120,201	120,201	123,636	
G9710-605600	2016 PRINCIPAL		262,354	262,354	262,354	264,783	264,783	-	267,210	
G9710-605700	2018 PRINCIPAL								116,188	
G9710-608000	2012 (2002) PRINCIPAL	125,000	130,000	130,000	130,000	135,000	135,000	135,000	135,000	
G9710-701100	2011 (2001) INTEREST	12,116	9,432	9,432	9,432	6,676	6,676	6,676	4,504	
G9710-705500	2014 (2005) INTEREST	36,072	31,648	31,648	31,648	25,947	25,947	25,947	22,341	
G9710-705600	2016 INTEREST	82,496	173,107	173,107	173,107	167,836	167,836	-	162,516	
G9710-705700	2018 INTEREST								113,024	
G9710-708000	2012 (2002) INTEREST	36,366	30,414	30,414	30,414	24,070	24,070	24,070	17,472	
TOTAL SERIAL BONDS		**469,752**	**819,858**	**819,858**	**819,858**	**816,929**	**816,929**	**384,310**	**1,035,190**	

CITY OF BEACON 2019 BUDGET

SEWER FUND EXPENSE (G)		2016 ACTUAL BUDGET 12/31/16	2017 ADOPTED BUDGET	2017 REVISED BUDGET 12/31/17	2017 YTD ACTUAL 12/31/17	2018 ADOPTED BUDGET	2018 REVISED BUDGET 10/01/18	2018 YTD ACTUAL 10/01/18	2019 REQUESTED BUDGET	COMMENTS
9730 BOND ANTICIPATION NOTES										
G9730-607599	BAN Principal	171,970	68,940	68,940	68,940	116,754	116,754	116,754	-	
G9730-707599	BAN Interest	41,828	29,276	29,331	29,331	40,762	40,762	40,762	-	
TOTAL BOND ANTICIPATION NOTES		**213,798**	**98,216**	**98,271**	**98,271**	**157,516**	**157,516**	**157,516**	**-**	
9950 INTERFUND TRANSFERS										
G9950-900001	INTERFUND TRANSFER	-	-	1,456,690	1,456,690	-	-	-	-	
TOTAL INTERFUND TRANSFERS		**-**	**-**	**1,456,690**	**1,456,690**	**-**	**-**	**-**	**-**	
TOTAL SEWER EXPENSES		**3,572,938**	**3,988,483**	**5,745,173**	**5,280,118**	**4,092,747**	**4,156,583**	**2,478,543**	**4,177,550**	

CITY OF BEACON 2019 BUDGET

SEWER FUND REVENUE (G)

		2016 ACTUAL	2017 ADOPTED BUDGET	2017 REVISED BUDGET	2017 YTD ACTUAL	2018 ADOPTED BUDGET	2018 REVISED BUDGET	2018 YTD ACTUAL	2019 REQUESTED BUDGET	COMMENTS
		12/31/16		12/31/17	12/31/17		10/01/18	10/01/18		
8110 SEWER ADMINISTRATION										
G8110-126000	HEALTH INSURANCE REIMBURSEMEN	25,011	28,765	28,765	38,695	34,496	34,496	33,260	50,733	
G8110-126001	DENTAL INSURANCE	8,194	9,616	9,616	9,615	10,084	10,084	7,327	10,536	
G8110-212000	SEWER RENTS	920,902	971,544	971,544	1,079,303	1,068,698	1,068,698	499,117	1,175,568	
G8110-212001	CORRECTIONAL FACILITY	926,882	890,000	890,000	794,571	890,000	890,000	414,077	850,000	
G8110-212003	TOWN OF FISHKILL SEWER	980,297	1,010,000	1,010,000	1,086,845	1,010,000	1,010,000	652,342	1,010,000	
G8110-212007	BEACON SCHOOL BUS GARAGE	109			409			178	-	
G8110-212008	DUTCHESS STADIUM SEWER	7,574	2,800	2,800	3,570	2,800	2,800	1,252	-	
G8110-212009	DC TRANSPORT CENTER SEWER	177			127			355	-	
G8110-212800	SEWER PENALTY	4,025	4,000	4,000	5,224	4,000	4,000	5,793	5,000	
G8110-240100	INTEREST & EARNINGS	891	600	600	867	700	700	1,850	1,800	
G8110-240101	EFC INTEREST/SUBSIDY	28,105	25,158	25,158	25,158	21,969	21,969	21,969	17,472	
G8110-268000	INSURANCE RECOVERIES		-	-	-					
TOTAL SEWER ADMINISTRATION		**2,902,167**	**2,942,483**	**2,942,483**	**3,044,384**	**3,042,747**	**3,042,747**	**1,637,520**	**3,121,109**	
8130 WATER POLLUTION CONTROL										
G8130-212200	HAULER FEES	345,938	240,000	240,000	445,078	300,000	300,000	264,928	300,000	
G8130-212201	NEW WINDSOR TREATMENT	151,087	170,000	170,000	140,633	150,000	150,000	114,750	150,000	
G8130-212204	HAULER FEES BILLED MONTHLY	597,451	636,000	636,000	584,425	600,000	600,000	255,087	600,000	
TOTAL WATER POLLUTION CONTROL		**1,094,476**	**1,046,000**	**1,046,000**	**1,170,136**	**1,050,000**	**1,050,000**	**634,765**	**1,050,000**	
9950 INTERFUND TRANSFERS										
G9950-503100	INTERFUND TRANSFERS						5,508	-	-	
TOTAL INTERFUND TRANSFERS							**5,508**	**-**		
TOTAL SEWER REVENUES		**3,996,643**	**3,988,483**	**3,988,483**	**4,214,520**	**4,092,747**	**4,098,255**	**2,272,285**	**4,171,109**	

CITY OF BEACON
CHANGES TO 2019 BUDGET

			Introduced Budget Presented 10/01/18	Updated Amended Budget 11/13/18	change	comment
Water Fund Expense:						
F8340	454000	WATER DISTRIBUTION - ENGINEERS	10,000	20,000	10,000	Provide for well field and transmission main interconnection engineering and study.
F9040	830000	WORKERS COMPENSATION	42,600	55,446	12,846	Provide for final amounts received by Dutchess County workers comp
		Net effect of Water Fund expense budget changes increase/(decrease)			22,846	
Sewer Fund Expense:						
G9040	830000	WORKERS COMPENSATION	42,600	49,041	6,441	Provide for final amounts received by Dutchess County workers comp
		Net effect of Sewer Fund expense budget changes increase/(decrease)			6,441	
General Fund Expense:						
A1230	101000	CITY ADMINSTRATOR - REGULAR SALARIES	137,305	138,305	1,000	Reflect new salary in proposed contract.
A1230	820000	CITY ADMINSTRATOR - SOCIAL SECURITY	14,885	14,962	77	Taxes associated with salary increase.
A3620	101000	BUILDING DEPARTMENT - REGULAR SALARIES	277,763	281,763	4,000	Reflect new salary in proposed contract.
A3620	101000	BUILDING DEPARTMENT - SOCIAL SECURITY	21,685	21,991	306	Taxes associated with salary increase.
A1980	400099	MTA TAX	26,852	26,869	17	Taxes associated with salary increase.
A9040	830000	WORKERS COMPENSATION	269,800	290,610	20,810	Provide for final amounts received by Dutchess County workers comp
A9040	830001	WORKERS COMPENSATION - VOLUNTEER FIRE	23,000	24,596	1,596	Provide for final amounts received by Dutchess County workers comp
		Net effect of General Fund expense budget changes increase/(decrease)			27,806	

City of Beacon Workshop Agenda
11/26/2018

Title:

23-28 Creek Drive

Subject:

Background:

ATTACHMENTS:

Description	Type
JC memo to CC__CreekDr	Backup Material
Lanc & Tully memo	Backup Material
Creek Drive_sheet 1	Backup Material
Creek Drive_sheet 2	Backup Material
Creek Drive_sheet 3	Backup Material
Creek Drive_sheet 5	Backup Material
Creek Drive_sheet 6	Backup Material
Creek Drive_sheet 7	Backup Material
Creek Drive_sheet 9	Backup Material
Creek Drive_sheet 10	Backup Material
Creek Drive_sheet 11	Backup Material
Creek Drive_SWWP	Backup Material

John Clarke Planning and Design jclarkeplandesign@gmail.com
25 Beech Street, Rhinebeck NY 12572 845.797.4152

To: Mayor Casale and the Beacon City Council
Date: November 21, 2018
Re: 23-28 Creek Drive Concept Plan Application

I have reviewed the October 23, 2018 Concept Plan application packet, including a cover letter from Cuddy + Feder, Full EAF Part 1 and Narrative, Architect Project Narrative, four site aerials and maps, and sheets 1, 2, 3, 5, 6, 7, 9, 10, and 11 of an 11-sheet Site Plan Application set.

Proposal
The applicant is proposing to construct a mixed-use development on the former DPW site with a total of 9 apartments and 13,771 square feet of co-working commercial space. The project is in the Fishkill Creek Development district and includes a lot line realignment with the adjacent parcel. A Greenway Trail segment and publicly accessible park space are also proposed as part of the project.

Comments and Recommendations
The submission covers most of the basics required for Concept Plan review by the City Council. However, there are some changes and additional pieces of information that should be provided:

1. The EAF narrative should include a traffic analysis to justify the no substantial increase in traffic answer to question D.2.j. Also, the applicant should provide an explanation as to why the proposed commercial use will involve the disposal of no solid waste in question D.2.r.

2. The proposed lot line realignment should be clearly shown on the plans.

3. Since the proposed building encroaches into the 100-year floodplain, the EAF narrative should describe how the proposal complies with Chapter 123, Flood Damage Prevention. Floor heights and any flood displacement issues will need to be addressed by the Project Engineer, as well as any floodplain impacts on the Greenway Trail.

4. The City adopted lot area deductions in Section 223-41.14B for surface water, regulated floodway and wetlands, and pre-development very steep slopes involving proposals on more than three acres in the FCD. Although 9 units should not exceed the permitted development potential, the applicant should provide the mapping on Sheet 2 and area calculations for the listed environmental features to confirm the allowable unit count. This would likely affect the Maximum Residential Development Potential in the Zoning Table.

5. The Zoning Table on Sheet 1 should include the Minimum Open Space and change the Existing Site Area to 2.807 acres and 3.246 acres with the lot line realignment.

6. The lot frontage, building setbacks, and minimum trail buffer widths should be shown on the Site Plan. The trail does not appear to meet the minimum 25-foot setback requirement.

7. According to 223-41.13 I(10)(b), each FCD project should show a dry-land right-of-way or easement for the enjoyment of the public not less than 20 feet in width traversing the entire length of the site, wherever possible.

8. The Zoning Summary and Land Use Compliance Table on Sheet 1 list 12,911 square feet of commercial space and 33% of building area, while the cover letter and narratives state 13,771 square feet and 40%. The commercial size on Sheet 3 should also be corrected.

9. Sheet 1 lists three requested area variances, but the cover letter and EAF narrative refer to four variances. The southern lot frontage along the Wolcott Avenue right-of-way would seem to satisfy the site frontage requirement. The applicant may want to confirm this with the Building Inspector.

10. Sheet 6 shows two renderings of the proposal from different viewing points. Under 223-41.13 F(1)(i), the Council may request additional photo-simulations.

11. The Sheet 7 building square footage and parking numbers should match Sheet 1.

12. The proposal provides the required parking spaces, but the Council or Planning Board may want to consider some land-banked parking for the spaces closest to the Greenway Trail.

13. The Council and applicant should consider the design and treatment of the emergency access drive to act as a direct pedestrian linkage up to Main Street.

These should be considered initial planning comments, which may be supplemented by a review from the City Engineer. It should be noted that the Concept Plan process need not involve specific architectural, landscaping, lighting, and engineering details, such as final grading for the southern section of the Greenway Trail. If you have any questions or need additional information, please feel free to email me.

John Clarke, Beacon Planning Consultant

c: Tim Dexter, Building Inspector
Nicholas M. Ward-Willis, Esq., City Attorney
Arthur R. Tully, P.E., City Engineer
John Russo, P.E., City Engineer
Aryeh Siegel, Project Architect

LANC & TULLY, P.C.

To: Mayor Casale and the Beacon City Council

From: John Russo, P.E.

cc: Nick Ward-Willis, Esq.; Tim Dexter, Building Inspector; Anthony Ruggiero, Administrator; File

Date: November 26, 2018

Re: 23-28 Creek Drive - Beacon

We agree with the comments presented by John Clarke, and based upon our review of the submitted documents and concept plans for the above referenced project we offer the following additional comments:

1. The sanitary sewer main running through the project site is currently owned by the City and should be reflected as such. The plan should note the proposed ownership of the water main to be installed.

2. The plans should show a 20-foot easement over the lines (sewer, water, etc.) that will be owned by the City for access and maintenance. We would recommend that these be shown at this time to ensure that it does not impact any of the proposed layout for the site.

3. May wish to consider having an overflow structure for the proposed infiltration basin on the south side of the site that drains out to the creek. If the basin were to overflow as currently presented, if would flow over the spillway and flood the area and trail to the south of the project. Soil testing will need to be conducted to verify that the proposed system can actually be used.

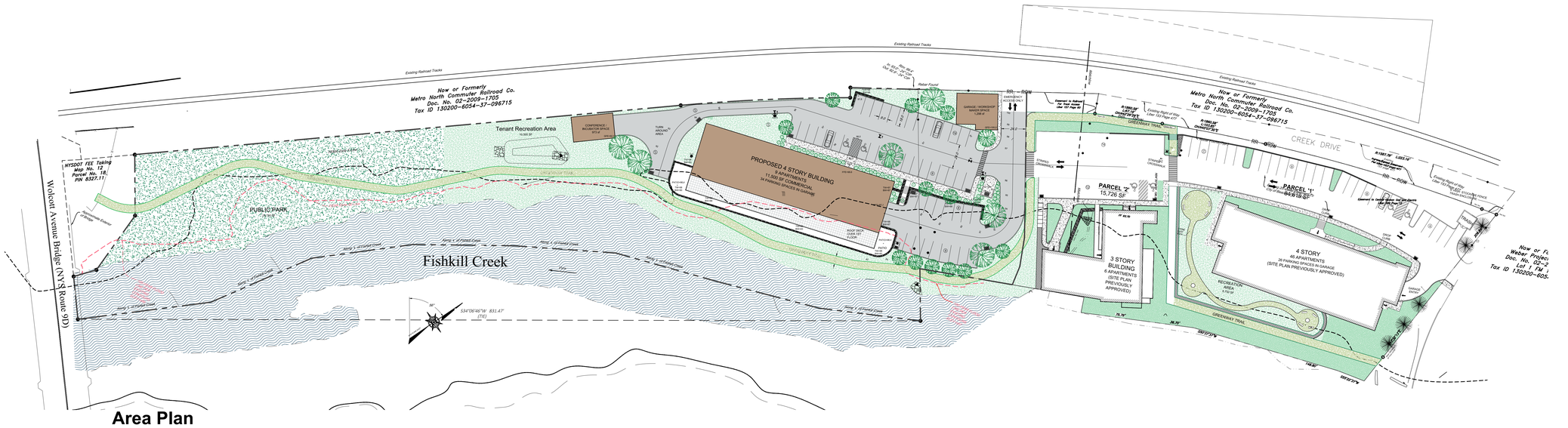
4. The two trees shown to the south of the building are proposed to either side of the existing sewer main. Trees should not be planted over or in close proximity to the sewer and water utilities as the root systems from the trees eventually impact the utilities.

5. Consideration should be given to additional landscaping to the south end of the project.

6. Snow removal should be looked at to determine where snow will be stored. If removal is proposed, what is the time frame for removal after the storm event?

Zoning Regulations Table

	Required Setbacks			Proposed Setbacks			Minimum frontage on public street right-of-way	Proposed frontage on public street right-of-way	Minimum Site Area	Existing Site Area	Maximum Residential Development Potential	Proposed Number of Residential Units	Required Commercial Space	Proposed Commercial Space	Maximum Dwelling Size	Proposed Dwelling Size	Maximum Building Coverage	Proposed Building Coverage	Maximum Building Height	Proposed Building Height	Minimum setback from and buffer width along Fishkill Creek	Proposed setback from and buffer width along Fishkill Creek
	Front	Side	Rear	Front	Side	Rear																
Zoning District																						
FCD	12'	12'	12'	19.4'	23.8'	65.2'	50 feet	115 feet	2 acres	2.08 acres	29	9	25%	33%	2,000 sf	3,200 sf for 2 out of 9 units	35%	17%	3 stories / 40'	4 stories / 52' from 1st floor to roof	An average of 50 feet, but not less than 25 feet at any point	An average of 50 feet, but not less than 25 feet at any point



Area Plan

Scale: 1" = 40'

Site Plan

Scale: 1" = 20'

Location Map

Scale: 1" = 400'

Zoning Summary

Zoning District:	FCD (FISHKILL CREEK DEVELOPMENT)
Tax Map No.:	6054-37-037625
Lot Area:	2.807 acres (90,805 sf)
Building Area:	40,496 square feet (12,911 sf commercial + 27,585 Residential)
Historical Overlay District:	No
Parking Overlay District:	No
Existing Use:	Industrial (Vacant)
Proposed Uses:	Commercial (Shared Workspace) / Residential

Land Use Compliance

Use	Permitted / Required	Proposed
Commercial	25% of building area	33% of building area
Residential *Maximum number of dwelling units per acre of lot area, after deducting on all development proposals involving a total lot area of more than three acres any lot area with existing, predevelopment very steep slopes of 25% or more as defined in, covered by surface water, within a federal regulatory floodway, or within a state or federally regulated wetland: 11.*	2.807 x 11 = 30 Dwelling Units	9 Dwelling Units

Parking & Loading

Use & Parking Requirements	Area / Count	Parking Requirement
Residential *1 space for each dwelling unit plus 1/4 space per bedroom*	9 apartments + 20 bedrooms	14 spaces
Office (Shared Workspace) *1 space for each 200 square feet*	13,771 sf	69 spaces
Total Required Parking Spaces		***83 spaces required***
Total Proposed Parking Spaces		**84 spaces proposed**

Notes:

1. A variance to exceed the maximum height will be requested from the Zoning Board of Appeals
2. A variance to exceed the maximum number of stories will be requested from the Zoning Board of Appeals
3. A variance to exceed the maximum apartment area for 2 apartments will be requested from the Zoning Board of Appeals

REVISIONS:			
NO.	DATE	DESCRIPTION	BY

Index of Drawings

Site Plan Application

Sheet 1 of 11 - Site Plan

Owner:
Weber Projects III, LLC
11 Creek Drive
Beacon, New York 12508

Architect:
Aryeh Siegel, Architect
84 Mason Circle
Beacon, New York 12508

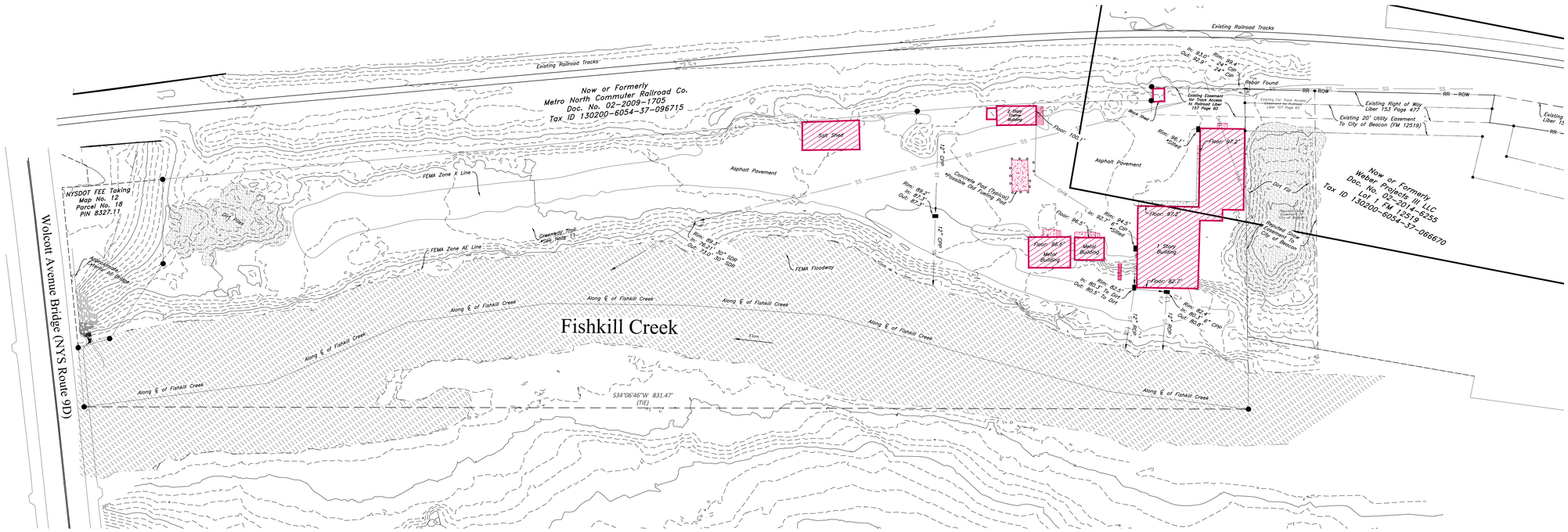
Site / Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

Surveyor:
TEC Land Surveying, P.C.
15C Tioronda Avenue
Beacon, New York 12508

Landscape Designer:
Landscape Restorations
P.O. Box 286
Beacon, New York 12508

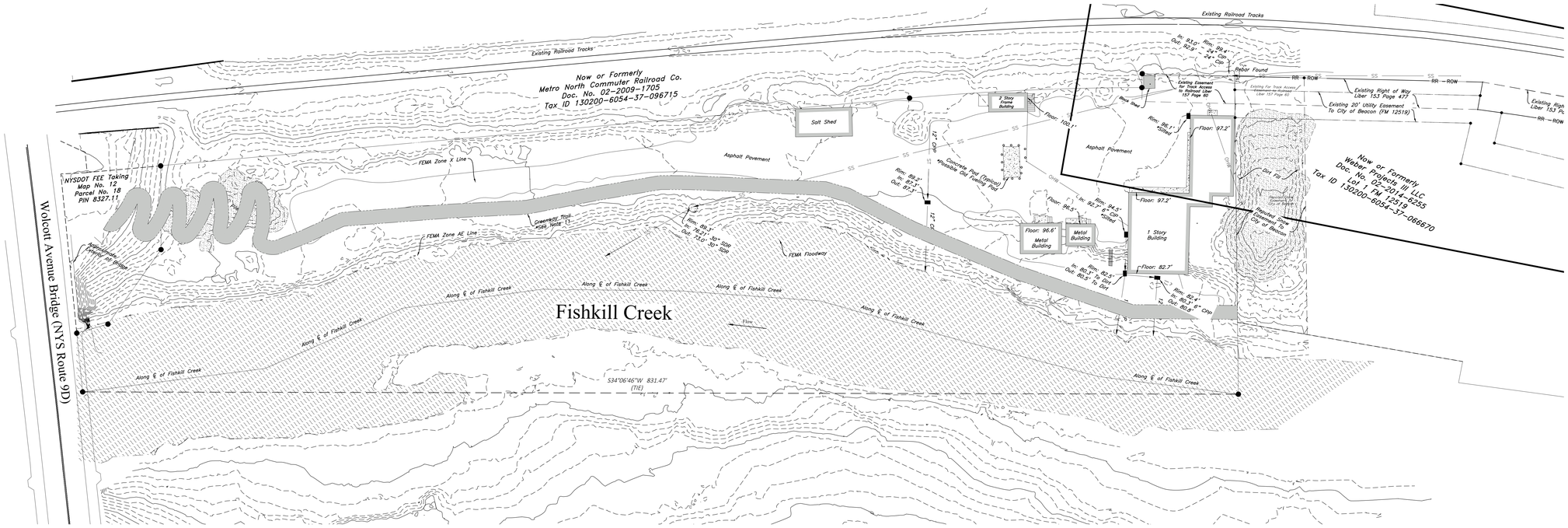
23 - 28 Creek Drive

Beacon, New York
Scale: As Noted
October 23, 2018



Demolition Plan

Scale: 1" = 30'



Existing Conditions Plan

Includes Lanc & Tully Greenway Trail Layout

Scale: 1" = 30'

REVISIONS:			
NO.	DATE	DESCRIPTION	BY

Site Plan Application

Sheet 2 of 11 - Existing Conditions & Demolition Plan

Owner:
Weber Projects III, LLC
11 Creek Drive
Beacon, New York 12508

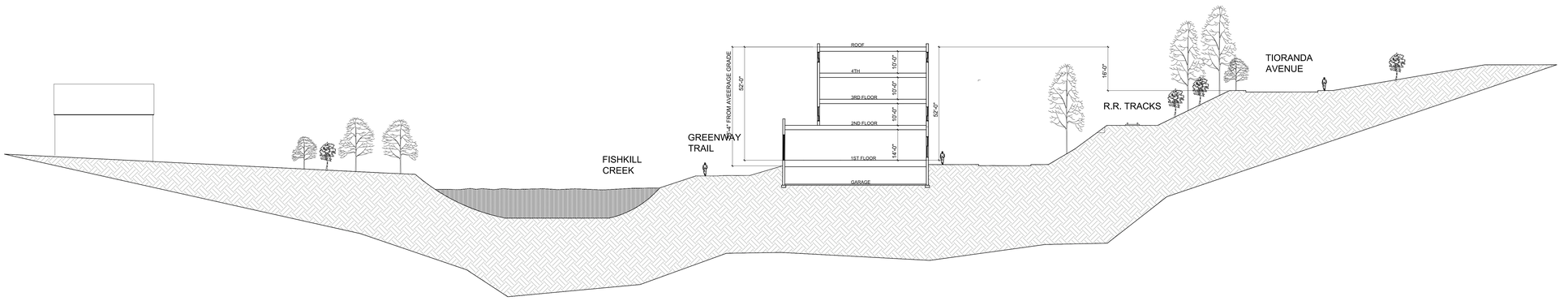
Architect:
Aryeh Siegel, Architect
84 Mason Circle
Beacon, New York 12508

Site / Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

Surveyor:
TEC Land Surveying, P.C.
15C Tioronda Avenue
Beacon, New York 12508

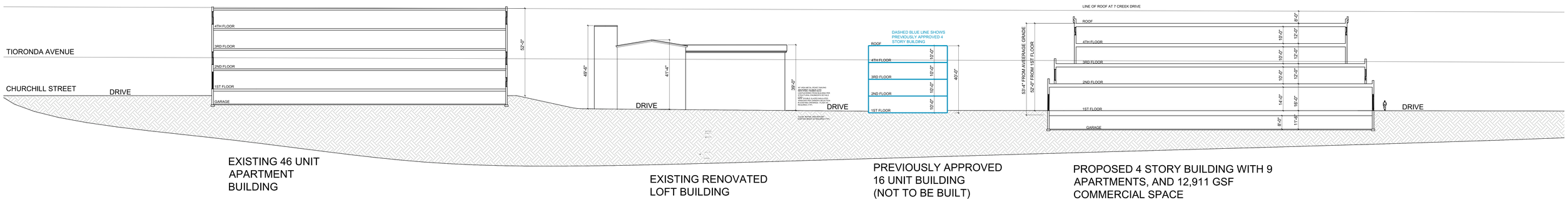
Landscape Designer:
Landscape Restorations
P.O. Box 286
Beacon, New York 12508

23 - 28 Creek Drive
Beacon, New York
Scale: 1" = 30'
October 23, 2018



Site Section: Cross

Scale: 1" = 20'



Site Section: Longitudinal

Scale: 1" = 20'

REVISIONS:			
NO.	DATE	DESCRIPTION	BY

Site Plan Application

Sheet 3 of X - Site Section Diagram

Owner:
Weber Projects III, LLC
11 Creek Drive
Beacon, New York 12508

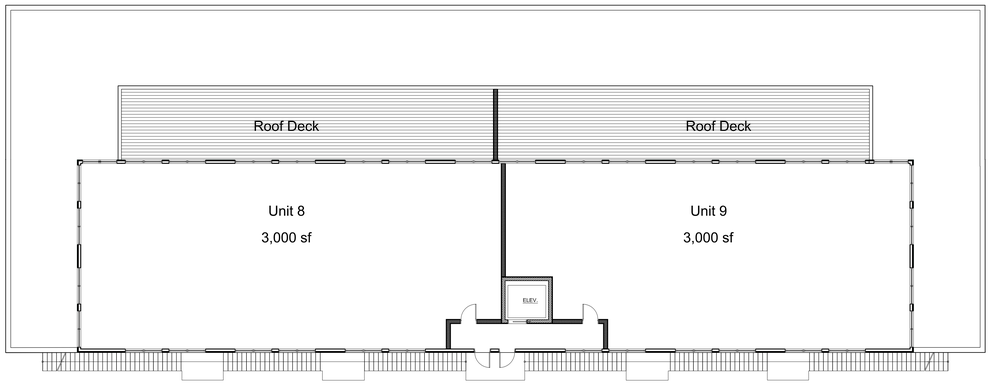
Architect:
Aryeh Siegel, Architect
84 Mason Circle
Beacon, New York 12508

Site / Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

Surveyor:
TEC Land Surveying, P.C.
15C Tioronda Avenue
Beacon, New York 12508

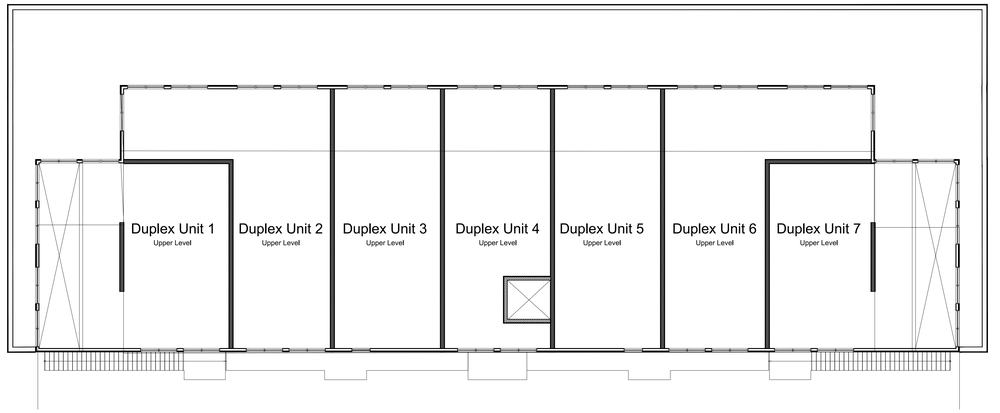
Landscape Designer:
Landscape Restorations
P.O. Box 286
Beacon, New York 12508

23 - 28 Creek Drive
Beacon, New York
Scale: 1" = 20'
October 23, 2018



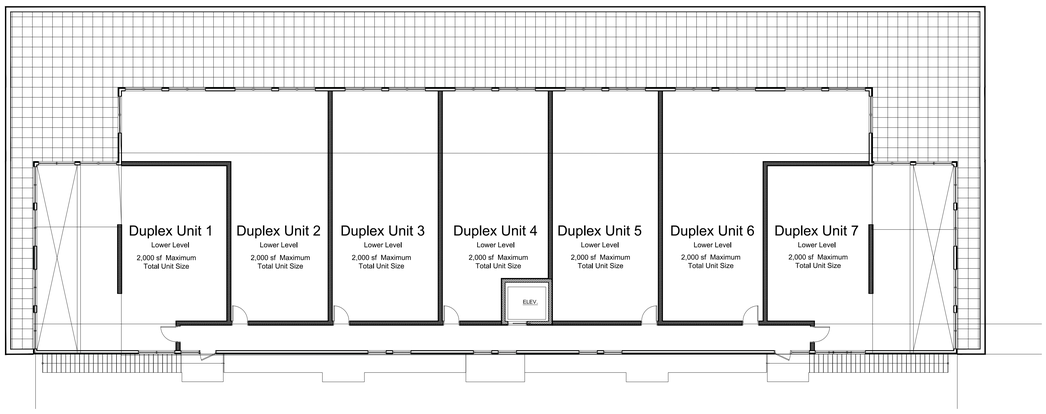
4th Floor Plan

Scale: 3/32" = 1'-0"



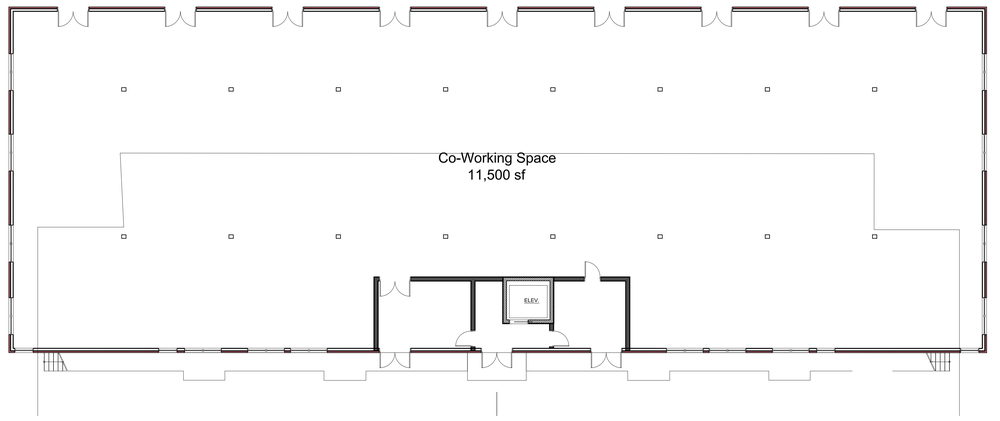
3rd Floor Plan

Scale: 3/32" = 1'-0"



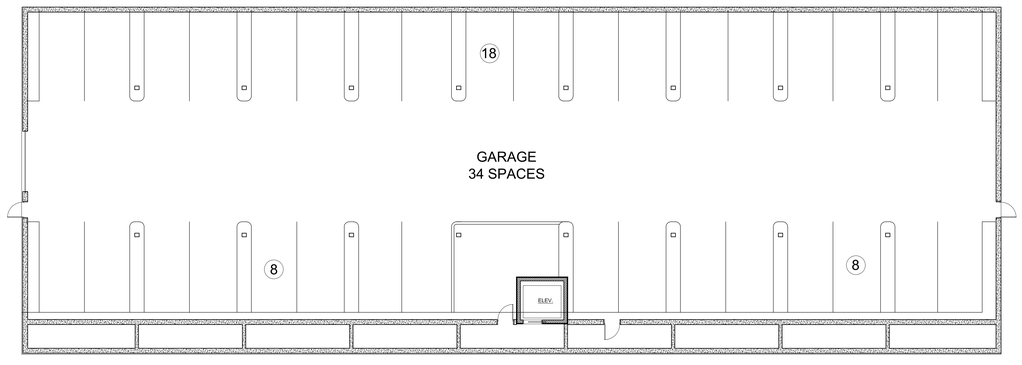
2nd Floor Plan

Scale: 3/32" = 1'-0"



1st Floor Plan

Scale: 3/32" = 1'-0"



Garage Plan

Scale: 3/32" = 1'-0"

REVISIONS:			
NO.	DATE	DESCRIPTION	BY

Site Plan Application

Sheet 5 of X - Building Plans

Owner:
Weber Projects III, LLC
11 Creek Drive
Beacon, New York 12508

Architect:
Aryeh Siegel, Architect
84 Mason Circle
Beacon, New York 12508

Site / Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

Surveyor:
TEC Land Surveying, P.C.
15C Tioronda Avenue
Beacon, New York 12508

Landscape Designer:
Landscape Restorations
P.O. Box 286
Beacon, New York 12508

23 - 28 Creek Drive
Beacon, New York
Scale: 3/32" = 1'-0"
October 23, 2018

REVISIONS:			
NO.	DATE	DESCRIPTION	BY

View from Tioronda Avenue

Not to Scale

Aerial View

Not to Scale

Site Plan Application

Sheet 6 of X - Renderings

23 - 28 Creek Drive

Beacon, New York
Scale: Not to Scale
October 23, 2018

Owner:
Weber Projects III, LLC
11 Creek Drive
Beacon, New York 12508

Architect:
Aryeh Siegel, Architect
84 Mason Circle
Beacon, New York 12508

Site / Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

Surveyor:
TEC Land Surveying, P.C.
15C Tioronda Avenue
Beacon, New York 12508

Landscape Designer:
Landscape Restorations
P.O. Box 286
Beacon, New York 12508

INSPECTION SCHEDULE & LONG TERM MAINTENANCE OF STORMWATER STRUCTURES

CATCH BASINS AND PIPING:

ALL CATCH BASINS SHALL BE INSPECTED AFTER EACH STORM EVENT FOR SEDIMENT ACCUMULATION, AND DEBRIS, AND REMOVE AS NECESSARY. WHEN SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN SUMP REACHES 1/2 OF THE SUMP DEPTH, IT SHALL BE REMOVED. ASSOCIATED PIPING SHALL BE INSPECTED ANNUALLY AND ACCUMULATED SEDIMENT SHALL BE REMOVED AS NEEDED.

HYDRODYNAMIC DEVICES:

THE VORTEX UNITS SHALL BE INSPECTED QUARTERLY DURING THE FIRST YEAR OF OPERATION. THE MANUFACTURER RECOMMENDS THAT THE CDS UNITS BE INSPECTED BI-ANNUALLY (ONCE IN THE SPRING AND ONCE IN THE FALL). THE STRUCTURE SHALL BE VISUALLY INSPECTED FOR BLOCKAGES OR OBSTRUCTIONS IN THE INLET OR SEPARATION SCREEN. THE INSPECTION SHOULD ALSO QUANTIFY ACCUMULATION OF HYDROCARBONS, SEDIMENT AND TRASH WITHIN THE SYSTEM. INSPECTIONS AND MAINTENANCE SHALL BE PERFORMED BY QUALIFIED PERSONNEL WITH ADEQUATE TRAINING IN THESE TYPES OF UNITS. THE UNITS SHALL BE CLEANED BY VACUUM TRUCK ONCE A YEAR (EXCEPT FOR THE FIRST YEAR WHERE MORE FREQUENT CLEANINGS MAY BE REQUIRED).

INFILTRATION BASIN:

THE INFILTRATION BASIN SHALL BE INSPECTED MONTHLY FOR SEDIMENT AND DEBRIS ACCUMULATION. INFLOW PIPES, OUTLET STRUCTURES AND SPILLWAYS SHOULD ALSO BE INSPECTED FOR SEDIMENT AND DEBRIS MONTHLY. ANY ACCUMULATED SEDIMENT OR DEBRIS SHOULD BE REMOVED AS NECESSARY. PLANTINGS SHALL BE INSPECTED MONTHLY FOR HEIGHT, FERTILIZER, QUANTITY AND UNAUTHORIZED INVASIVE OR INAPPROPRIATE SPECIES. AFTER STORM EVENTS, THE INFILTRATION BASIN DEWATERING DURATION SHOULD ALSO BE MONITORED. THE BASIN FLOOR SHALL BE MOWED AS REQUIRED; HOWEVER, THE GRASS HEIGHT SHALL NOT EXCEED 18". SEDIMENT SHALL BE CLEANED OUT OF THE INFILTRATION BASIN ANNUALLY.

BIORETENTION AREAS:

BIORETENTION AREAS SHALL BE INSPECTED MONTHLY FOR SEDIMENT AND DEBRIS ACCUMULATION. INFLOW PIPES, OUTLET STRUCTURES AND SPILLWAYS SHOULD ALSO BE INSPECTED FOR SEDIMENT AND DEBRIS MONTHLY. ANY ACCUMULATED SEDIMENT OR DEBRIS SHOULD BE REMOVED AS NECESSARY. PLANTINGS SHALL BE INSPECTED MONTHLY FOR HEIGHT, FERTILIZER, QUANTITY AND UNAUTHORIZED INVASIVE OR INAPPROPRIATE SPECIES. GRASS SHALL MOWED ONCE A YEAR. AFTER STORM EVENTS, THE BIORETENTION'S DEWATERING DURATION SHOULD ALSO BE MONITORED. IF IT TAKES LONGER THAN 24 HOURS TO DEWATER THE BIORETENTION AREA, THE VALVE ON THE UNDERDRAIN SHALL BE OPENED SLIGHTLY TO PROVIDE FULL DETATERING IN 24 HOURS. SEDIMENT SHALL BE CLEANED OUT OF THE BIORETENTION AREA ANNUALLY. REFER TO THE OPERATION AND MAINTENANCE PLAN FOR ADDITIONAL LONG TERM MAINTENANCE NOTES.

EXISTING UNDERGROUND UTILITY NOTES:

1. CONTRACTOR SHALL DIG TEST PITS TO VERIFY LOCATION, SIZE AND PIPE MATERIAL OF EXISTING UNDERGROUND UTILITIES. IF ANY EXISTING UTILITIES ARE NOT IN THE LOCATION WHERE THEY ARE SHOWN ON THE PLAN, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.

GENERAL CONSTRUCTION NOTES:

1. ALL OTHER UTILITIES (TELEPHONE, ELECTRIC, GAS, CABLE, ETC.) SHALL BE INCORPORATED PRIOR TO CONSTRUCTION. ALL SUCH UTILITY DESIGNS SHALL BE DEVELOPED IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANIES.

2. THE CONTRACTOR SHALL PERFORM A UTILITIES CALL-OUT PRIOR TO CONSTRUCTION TO VERIFY ALL UNDERGROUND UTILITY LOCATIONS BY CONTACTING UFPO @ 1-800-962-7962.

3. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND INVERTS OF ALL CATCH BASINS & STORM SEWER LINES, SANITARY MANHOLES & SEWER LINES, WATERLINES AND OTHER UNDERGROUND UTILITY LINES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT ASSUME THAT ALL LOCATIONS AS SHOWN ON THE PLAN ARE CORRECT. INVESTIGATIVE TEST PITS MAY BE REQUIRED TO VERIFY LOCATIONS.

4. PIPE CONNECTIONS TO ALL CATCH BASINS SHALL BE MADE WATERTIGHT, WITH PARTICULAR ATTENTION BEING PAID TO CONNECTIONS LOCATED WITHIN 10 FEET OF SEWER MAINS (AND SERVICE LATERALS).

POST CONSTRUCTION NOTES:

1. UPON COMPLETION OF CONSTRUCTION OF THE STORMWATER FACILITIES, AS-BUILT DRAWINGS OF ALL STORMWATER PRACTICES AND AN OPERATION AND MAINTENANCE PLAN MANUAL SHALL BE PROVIDED TO THE CITY OF BEACON.

SNOW STORAGE NOTES:

1. THE SITE OWNER WILL UTILIZE A LOADER TO MOVE SNOW TO THE AREAS DESIGNATED FOR SNOW STORAGE.

SITE CLEARING NOTES:

1. SITE CLEARING SHALL OCCUR BETWEEN OCTOBER 1ST THROUGH MARCH 31ST IN ACCORDANCE WITH NYSDEC REGULATIONS.

ROCK REMOVAL NOTES:

1. ROCK REMOVAL (IF NECESSARY) SHALL BE ACCOMPLISHED BY MECHANICAL METHODS AS MUCH AS POSSIBLE AND SHALL ONLY BE PERMITTED BETWEEN 8:00AM AND 5:00 PM ON ANY DAY WHICH ROCK REMOVAL IS PERMITTED.
2. ACCEPTABLE ROCK REMOVAL METHODS ARE RIPPING, HYDRAULIC HAMMER OR DRILLING HOLES WITH USE OF EXPANSIVE TOOLS AND/OR WEDGES.
3. IF MECHANICAL METHODS BECOME INEFFECTIVE DUE TO HARD ROCK, AND IT IS DETERMINED THAT BLASTING IS REQUIRED, IT SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF BEACON BUILDING DEPARTMENT. NO BLASTING SHALL COMMENCE UNTIL A BLASTING PROTOCOL IS SUBMITTED TO THE CITY OF BEACON BUILDING DEPARTMENT FOR REVIEW AND APPROVAL.
4. BLASTING PROTOCOL SHALL BE IN ACCORDANCE WITH §111 OF THE CITY OF BEACON CODE.

PRESSURE REDUCING VALVE AND BACKFLOW PREVENTION NOTES:

1. HYDRANT FLOW TESTS IN THE VICINITY OF THE PROJECT REVEALED STATIC PRESSURES RANGING FROM 88 PSI TO 100 PSI. THEREFORE PRESSURE REDUCING VALVES WILL BE REQUIRED AT ALL PROPOSED DOMESTIC WATER CONNECTIONS TO BUILDINGS.
2. PRESSURE REDUCING VALVES (PRV) SHALL BE FURNISHED BY MUELLER OR WATTS AND COORDINATED WITH THE MECHANICAL ENGINEERING CONSULTANT AS TO TYPE AND SIZE.
3. SPECIFICATIONS FOR THE PROPOSED PRV SHALL BE PROVIDED TO THE CITY OF BEACON BUILDING DEPARTMENT PRIOR TO INSTALLATION.
4. DOUBLE CHECK VALVES SHALL BE PROVIDED ON ALL SERVICE CONNECTIONS TO THE ON-SITE BUILDINGS.
5. DOUBLE CHECK VALVES SHALL BE WATTS SERIES 909 OR APPROVED EQUAL ON DOMESTIC CONNECTIONS AND COORDINATED WITH THE MECHANICAL ENGINEERING CONSULTANT AS TO TYPE AND SIZE.
6. SPECIFICATIONS FOR THE PROPOSED DOUBLE CHECK VALVES SHALL BE PROVIDED TO THE CITY OF BEACON PRIOR TO INSTALLATION.

RETAINING WALL NOTES:

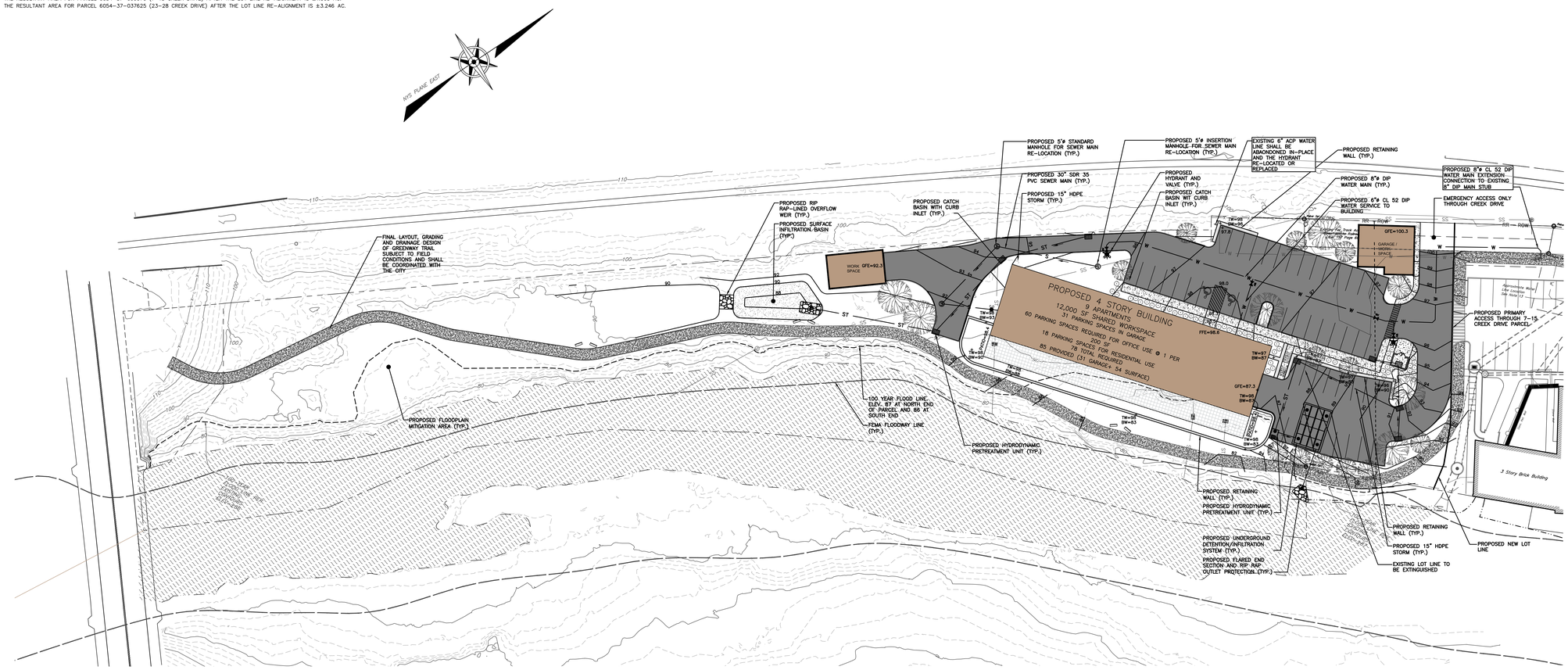
1. ALL RETAINING WALLS SHOWN ON THIS PLAN SHALL BE DESIGNED BY A NEW YORK STATE LICENSED ENGINEER AND PLANS SHALL BE SUBMITTED TO THE BEACON BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.

LOT LINE RE-ALIGNMENT NOTES:

1. PARCEL 6054-37-066670 (7-15 CREEK DRIVE) IS CONVEYING 19,176.89 SQFT, (0.440 AC.) TO THIS PARCEL 6054-37-037625 (23-28 CREEK DRIVE).
2. THE RESULTANT AREA FOR PARCEL 6054-37-066670 (7-15 CREEK DRIVE) AFTER THE LOT LINE RE-ALIGNMENT IS ±1.503 AC.
3. THE RESULTANT AREA FOR PARCEL 6054-37-037625 (23-28 CREEK DRIVE) AFTER THE LOT LINE RE-ALIGNMENT IS ±3.246 AC.

LEGEND:

- EXISTING ROOF LEADER LOCATION
- SEWER MANHOLE
- UNKNOWN MANHOLE
- GUY WIRE ANCHOR
- UTILITY POLE
- ELECTRIC BOX
- HYDRANT
- WATER VALVE
- ROUND DROP INLET
- ELECTRIC METER
- UTILITY POLE WITH LIGHT
- COMMUNICATION BOX
- OVERHEAD WIRES
- FENCE
- DROP INLET
- GAS METER
- LAMP
- UNKNOWN VALVE
- EXISTING WATER EDGE
- EXISTING PROPERTY LINE
- 100-YEAR FLOOD LINE
- 100-YEAR FLOODWAY LINE
- PROPOSED EASEMENT LINE
- PROPOSED CATCH BASIN WITH INLET PROTECTION (CB 3)
- PROPOSED CLEANOUT
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED SANITARY MANHOLE
- PROPOSED RETAINING WALL
- PROPOSED CULVERT (ST)
- PROPOSED UNDERDRAIN
- PROPOSED ROOF LEADER PIPE
- PROPOSED MINOR CONTOUR (92)
- PROPOSED MAJOR CONTOUR (90)
- PROPOSED SPOT ELEVATION (92.5)
- EXISTING CATCH BASIN
- EXISTING UTILITY POLE
- PROPOSED CLEANOUT (CO)
- PROPOSED SEWER SERVICE LINE (S)
- PROPOSED WATER SUPPLY LINE (W)
- PROPOSED FENCE
- IMPERVIOUS SURFACE
- PROPOSED RIP RAP
- UTILITY CROSSING LOCATION
- PROPOSED ROOF LEADER LOCATION (RL)
- PROPOSED WATER SERVICE LINE (WS)
- PROPOSED WATER SHUT-OFF VALVE



Grading & Utility Plan

Scale: 1" = 30'

DUTCHESS COUNTY DEPARTMENT OF BEHAVIORAL & COMMUNITY HEALTH

STANDARD NOTES FOR PROJECTS W/CENTRAL WATER & SEWER

THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:

"NEW YORK STATE DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS"; NYSDEC

"RECOMMENDED STANDARDS FOR SEWAGE TREATMENT WORKS, (TEN STATES)."

"RECOMMENDED STANDARDS FOR WATER WORKS, (TEN STATES)."

"NEW YORK STATE DEPARTMENT OF HEALTH AND DUTCHESS COUNTY ENVIRONMENTAL HEALTH SERVICES DIVISION POLICIES, PROCEDURES AND STANDARDS."

"DUTCHESS COUNTY AND NEW YORK STATE SANITARY CODES."

"DUTCHESS COUNTY ENVIRONMENTAL HEALTH SERVICES DIVISION CERTIFICATE OF APPROVAL LETTER."

THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL AND WATER SUPPLY FACILITIES.

UPON COMPLETION OF THE FACILITIES, THE FINISHED WORKS SHALL BE INSPECTED, TESTED, AND CERTIFIED COMPLETE TO THE DC EHSD BY THE NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SUPERVISING CONSTRUCTION. NO PART OF THE FACILITIES SHALL BE PLACED INTO SERVICE UNTIL ACCEPTED BY THE DC EHSD.

APPROVAL OF ANY PLAN(S) OR AMENDMENT THERETO SHALL BE VALID FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF APPROVAL. FOLLOWING THE EXPIRATION OF SAID APPROVAL, THE PLAN(S) SHALL BE RE-SUBMITTED TO THE COMMISSIONER OF HEALTH FOR CONSIDERATION FOR RE-APPROVAL. RE-SUBMISSION OR REVISED SUBMISSION OF PLANS AND/OR ASSOCIATED DOCUMENTS SHALL BE SUBJECT TO COMPLIANCE WITH THE TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES IN EFFECT AT THE TIME OF THE RE-SUBMISSION.

NO CELLAR, FOOTING, FLOOR, GARAGE, COOLER OR ROOF DRAINS SHALL BE DISCHARGED INTO THE SEWAGE COLLECTION SYSTEM.

ALL BUILDINGS SHALL BE CONSTRUCTED AT AN ELEVATION HIGH ENOUGH TO ENSURE GRAVITY FLOW TO THE SEWAGE COLLECTION SYSTEM.

ALL REQUIRED EROSION & SEDIMENT CONTROL AND STORMWATER POLLUTION PREVENTION WATER QUALITY & QUANTITY CONTROL STRUCTURES, PERMANENT AND TEMPORARY, ARE SHOWN ON THE PLANS.

THE DC EHSD SHALL BE NOTIFIED SIXTY DAYS PRIOR TO ANY CHANGE IN USE; USE CHANGES MAY REQUIRE RE-APPROVAL BY THE DC EHSD.

NO BUILDINGS ARE TO BE OCCUPIED AND THE NEW WATER SYSTEM SHALL NOT BE PLACED INTO SERVICE, UNTIL A "COMPLETED WORKS APPROVAL" IS ISSUED UNDER SECTION 5-1.22(D) OF PART 5 OF THE NEW YORK STATE SANITARY CODE (10NYCRR5).

NO BUILDINGS ARE TO BE OCCUPIED AND THE NEW WASTEWATER COLLECTION SYSTEM SHALL NOT BE PLACED INTO SERVICE UNTIL A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" IS ISSUED UNDER SECTION 19.7 OF ARTICLE 19 OF THE DUTCHESS COUNTY SANITARY CODE.

ALL SERVICE LINES ARE THE RESPONSIBILITY OF THE OWNER UP TO THE PROPERTY LINE. THE WATER AND SEWER COMPANIES SHALL BE RESPONSIBLE FOR ALL VALVES AND PIPES WHICH ARE NOT ON THE OWNER'S PROPERTY.

THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

REVISIONS:			
NO.	DATE	DESCRIPTION	BY

STATE OF NEW YORK — MICHAEL A. BODENDORF — LICENSED PROFESSIONAL ENGINEER

Site Plan Application

Sheet 7 of 11 - Grading & Utility Plan

Owner:
Weber Projects III, LLC
11 Creek Drive
Beacon, New York 12508

Architect:
Aryeh Siegel, Architect
84 Mason Circle
Beacon, New York 12508

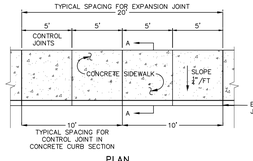
Site / Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

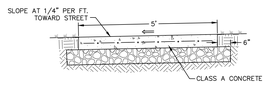
Surveyor:
TEC Land Surveying, P.C.
15C Tioronda Avenue
Beacon, New York 12508

Landscape Designer:
Landscape Restorations
P.O. Box 286
Beacon, New York 12508

23 - 28 Creek Drive
Beacon, New York
Scale: 1" = 30'
October 23, 2018

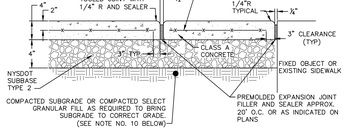
SITE DETAILS



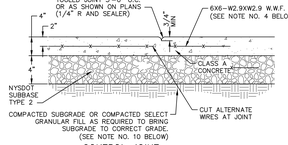


SECTION A–A

PLAN



EXPANSION JOINT

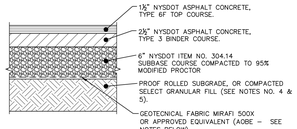


CONTROL JOINT

NOTES:

1. 10' SPACING OF CONTROL JOINTS SHALL BE USED FOR CAST IN PLACE CONCRETE CURBS.
2. MATERIAL AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 2, 2002, AND ALL ADDENDA THERETO; THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
3. ALL CONCRETE SHALL BE 3,500 PSI CLASS A CONCRETE. CONCRETE MATERIALS, PLACEMENT, AND CONSTRUCTION SHALL CONFORM WITH SECTION 500 OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
4. REINFORCING STEEL FOR CONCRETE SHALL CONFORM WITH SECTION 556 – REINFORCING STEEL FOR CONCRETE STRUCTURES OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND AS SPECIFICALLY CALLED OUT IN THE DRAWINGS.
5. ALL EXPOSED SURFACES SHALL HAVE A BROOM TEXTURED FINISH.
6. EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20' ON CENTER, OR AS INDICATED ON PLANS.
7. JOINTS SHALL NOT BE SAW CUT.
8. EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH "SUREBOND"/"SAFEBOND"SB–7000 INTENSIFIER BRIGHT PROTECTOR AND SIDEWALK SEALER, OR EQUAL. RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
9. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 OF THE ABOVE REFERENCED NYSDOT STANDARD.
10. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMATION WITH SECTION 203–EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
11. ALL WORK SHALL CONFORM WITH SECTION 608–SIDEWALK, DRIVEWAYS, AND BICYCLE PATHS OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.

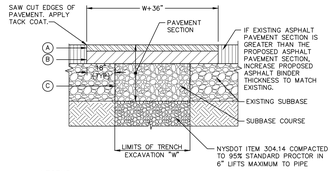
CONCRETE SIDEWALK DETAIL
NOT TO SCALE



NOTES:

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 2, 2002.
2. SUBGRADE SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS.
3. TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407–TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
4. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203–EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
5. IT IS EXPECTED THAT THE EXISTING SITE SUB–SOILS ARE SAND AND GRAVEL IN NATURE (CALIFORNIA BEARING RATIO RANGE BETWEEN 40 AND 80) . IF UNSUITABLE SOILS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR POSSIBLE MODIFICATIONS TO THE PAVEMENT DETAIL.

PAVEMENT SECTION DETAIL
NOT TO SCALE



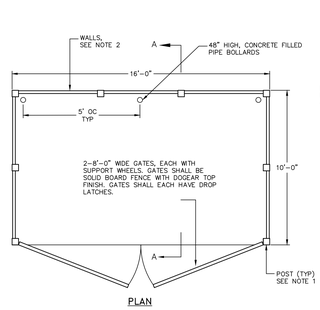
LEGEND

(A) 1–1/2" ASPHALT CONCRETE TOP COURSE– NYSDOT TYPE 6F
(B) 2 1/2" ASPHALT CONCRETE BINDER COURSE– NYSDOT TYPE 3
(C) 6" GRANULAR SUBBASE COURSE– NYSDOT ITEM 304.14

NOTES:

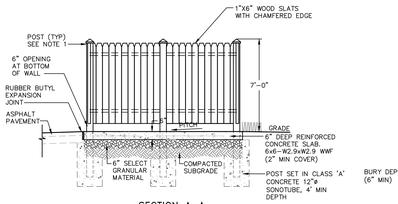
1. SAW CUT MIN. 18" BEYOND EXCAVATION WITH SMOOTH EDGES. 18" JOINT BETWEEN EXISTING AND NEW TOP COURSE TO BE MILLED. JOINT TO BE SEALED WITH POLYMER MODIFIED SEALER.
2. FURNISH, PLACE, AND COMPACT SUBBASE.
3. TACK COAT IN ACCORDANCE WITH NYSDOT STANDARD SPEC.
4. FURNISH AND PLACE ASPHALT CONCRETE PAVEMENT AS SPECIFIED.

PAVEMENT RESTORATION DETAIL
NOT TO SCALE



PLAN

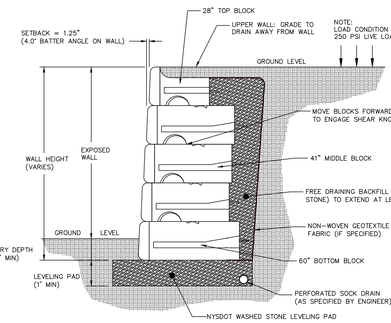
TRASH ENCLOSURE DETAILS
NOT TO SCALE



SECTION A–A

NOTES

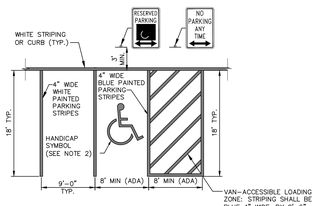
1. POSTS SHALL HAVE A DECORATIVE CAP, CONSISTENT WITH THE ARTS & CRAFTS STYLE, AS APPROVED BY OWNER. POST SPACING SHALL BE AS REQUIRED BY WALL CONSTRUCTION.
2. WALLS OF DUMPSTER ENCLOSURE SHALL BE A SOLID WOOD PRIVACY FENCING NATURAL STAIL OR PAINT TO COMPLEMENT BUILDING.



NOTES:

1. RETAINING WALL MANUFACTURED BY REDI–ROCK OR APPROVED EQUAL.
2. THIS DETAIL FOR SITE PLAN APPROVAL ONLY TO SHOW GENERAL WALL ASSEMBLY. REFER TO THE FINAL DESIGN DOCUMENTS RELATED TO THE RETAINING WALL AS PREPARED BY TALCOTT ENGINEERING DESIGN PLLC.

TYPICAL REDI–ROCK GRAVITY WALL
NOT TO SCALE



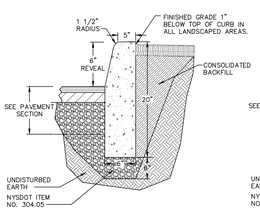
TYPICAL PARKING STRIPING

HANDICAP PARKING STRIPING

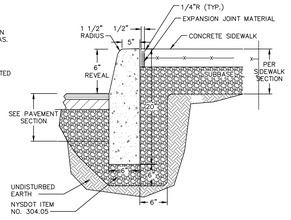
NOTES:

1. ALL DIMENSIONS SUBJECT TO CURRENT MUNICIPALITY ZONING AND SITE REGULATIONS.
2. PAINTED HANDICAP SYMBOL TO BE IN ACCORDANCE WITH NYSDOT AND ADA STANDARDS.
3. IF PARKING ABUTS A SIDEWALK, THEN THE REGULATORY SIGNS SHALL BE PLACED BEHIND THE SIDEWALK.

PARKING AND STRIPING DETAIL
NOT TO SCALE



ABUTTING GRASS OR LANDSCAPE

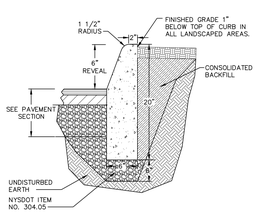


ABUTTING SIDEWALK

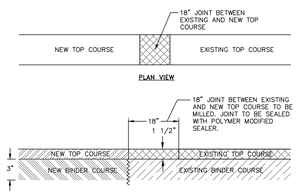
NOTES:

1. CONCRETE CURB SHALL BE 4,000 PSI CAST–IN–PLACE, AND IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
2. EXPANSION JOINTS OF 1/2" CELLULOSE OR SIMILAR MATERIAL SHALL BE PLACED AT 10 FOOT INTERVALS.
3. FOR MOUNTABLE CURBS ABUTTING SIDEWALK OR OTHER HARDSCAPE, REFER TO "ABUTTING SIDEWALK" DETAIL.

CAST–IN–PLACE CONCRETE CURB DETAIL
NOT TO SCALE



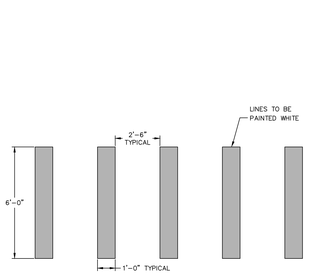
MOUNTABLE CURB
ABUTTING GRASS OR LANDSCAPE
NOT TO SCALE



NOTES:

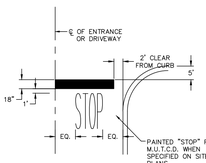
1. 3" BINDER COURSE AND 1¾" TOP COURSE TO BE USED FOR RESTORATION OF PAVEMENT WITHIN CITY ROADS.
2. EXCAVATIONS ARE TO BE SAW CUT SMOOTH, ALL EDGES TACK COATED, AND ALL SEAMS SEALED WITH A HOT POLYMER MODIFIED CRACK SEALANT.
3. IF EXISTING ASPHALT PAVEMENT DEPTH IS GREATER THAN THE PROPOSED ASPHALT PAVEMENT SECTION, INCREASE PROPOSED ASPHALT BINDER THICKNESS TO MATCH EXISTING.

MILLED KEYWAY DETAIL
NOT TO SCALE

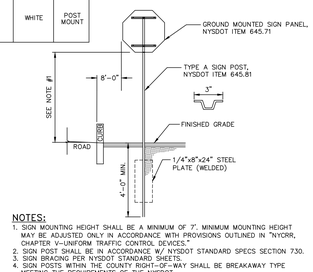


PAINTED CROSSWALK DETAIL
NOT TO SCALE

TEXT	APPROXIMTE SIZE OF SIGN	MUTCD NO.	COLOR		TYPE OF MOUNTING
			BACKGROUND	LEGEND	
STOP	30"x30"	R1–1	RED	WHITE	POST MOUNT



STOP BAR DETAIL
NOT TO SCALE

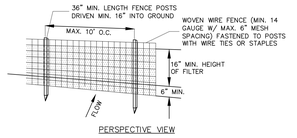


NOTES:

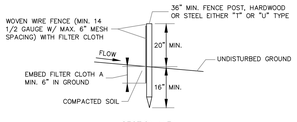
1. SIGN MOUNTING HEIGHT SHALL BE A MINIMUM OF 7'. MINIMUM MOUNTING HEIGHT MAY BE ADJUSTED ONLY IN ACCORDANCE WITH PROVISIONS OUTLINED IN "NYCRR, CHAPTER V–UNIFORM TRAFFIC CONTROL DEVICES."
2. SIGN POST SHALL BE IN ACCORDANCE W/ NYSDOT STANDARD SPECS SECTION 730.
3. SIGN BRACING PER NYSDOT STANDARD SHEETS.
4. SIGN POSTS WITHIN THE COUNTY RIGHT–OF–WAY SHALL BE BREAKAWAY TYPE MEETING THE REQUIREMENTS OF THE NYSDOT.

SINGLE POST SIGN DETAIL
NOT TO SCALE

EROSION AND SEDIMENT CONTROL DETAILS



PERSPECTIVE VIEW

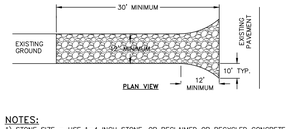


SECTION VIEW

NOTES:

1. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER–LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.
3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUAL.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

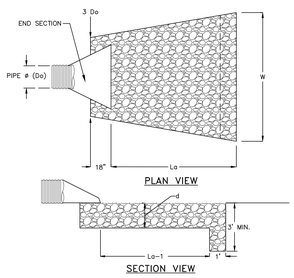
SILT FENCE DETAIL
NOT TO SCALE



NOTES:

1) STONE SIZE – USE 1–4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2) LENGTH – NOT LESS THAN 30 FEET FOR A SINGLE RESIDENCE LOT.
3) THICKNESS – NOT LESS THAN SIX (6) INCHES.
4) WIDTH – 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
5) GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6) SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7) MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8) WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9) PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

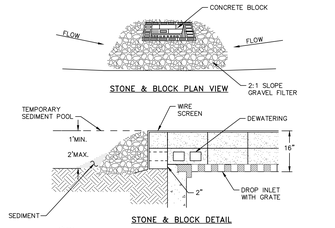
STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



NOTES:

1. SIZING INFORMATION TAKEN FROM FIGURE 5B.12 (PAGE 5B.25) AND/OR FIGURE 5B.13 (PAGE 5B.26) OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL," 2016 EDITION.
2. RIPRAP SHALL BE COMPOSED OF A WELL–GRADED MIXTURE OF STONE SIZE SO THAT 50% OF THE PIECES SHALL BE LARGER, BY WEIGHT, THAN THE SPECIFIED d50. THE LARGEST STONE SIZE SHALL BE 1.5 TIMES d50.
3. THE MINIMUM THICKNESS OF THE RIPRAP LAYER SHALL BE 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR d50 OF 15 INCHES OR LESS; AND 1.2 TIMES THE MAXIMUM STONE SIZE FOR d50 GREATER THAN 15 INCHES.
4. A LAYER OF FILTER FABRIC (THICKNESS 20–60 MILS, GRAB STRENGTH 90–120 LBS, SHALL CONFORM TO ASTM D–1777 AND ASTM D–1682) SHALL BE PLACED BETWEEN THE RIPRAP AND THE UNDERLYING SOIL SURFACE. FILTER FABRIC SHALL HAVE A MINIMUM 1' OVERLAP AT ALL SEEMS.

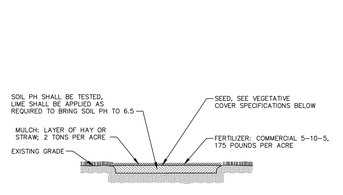
ROCK OUTLET PROTECTION DETAIL
NOT TO SCALE



NOTES:

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2–3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS. MAXIMUM DRAINAGE AREA 1 ACRE

CATCH BASIN INLET PROTECTION DETAIL
NOT TO SCALE



NOTES:

1. TOPSOIL, SEED, MULCH, AND FERTILIZE DISTURBED SOIL AREAS THAT WILL BE LEFT EXPOSED FOR 14 DAYS OR MORE.
2. SEED MIXTURE FOR USE ON LAWNS IN SUNNY AREAS:

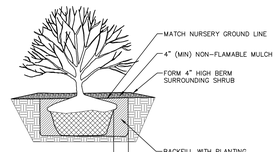
65% KENTUCKY BLUE GRASS BLEND	114 POUNDS PER ACRE
20% PERENNIAL RYEGRASS	35 POUNDS PER ACRE
15% FINE FESCUE	26 POUNDS PER ACRE
	175 POUNDS PER ACRE

3. SEED MIXTURE FOR USE IN SHADY AREAS:

80% BLEND OF SHADE TOLERANT KENTUCKY BLUEGRASS	138 POUNDS PER ACRE
20% FINE FESCUE	37 POUNDS PER ACRE
	175 POUNDS PER ACRE

4. SEED BETWEEN APRIL 1ST AND MAY 15TH OR AUGUST 15TH AND OCTOBER 15TH. SEEDING MAY OCCUR BETWEEN MAY 15TH AND AUGUST 15TH IF ADEQUATE IRRIGATION IS PROVIDED.
5. TOPSOIL SHALL HAVE AT LEAST 6% BY WEIGHT OF FINE TEXTURED STABLE ORGANIC MATERIAL, AND NO GREATER THAN 20%. TOPSOIL SHALL HAVE NOT LESS THAN 20% FINE TEXTURED MATERIAL (PASSING THE NO. 200 SIEVE) AND NOT MORE THAN 15% CLAY.

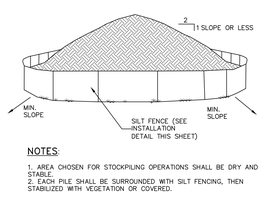
TOPSOIL, SEED AND MULCH DETAIL
NOT TO SCALE



NOTE

1. WATER PER NURSERY SPECIFICATIONS IMMEDIATELY FOLLOWING PLANTING.
2. DETAIL IS FOR BOTH BALL & BURLAPPED OR CONTAINERED SHRUBS.

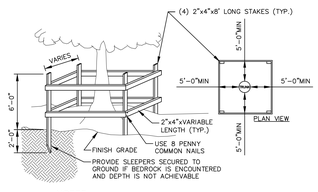
SHRUB PLANTING DETAIL
NOT TO SCALE



NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.

TEMPORARY SOIL STOCKPILE DETAIL
NOT TO SCALE



NOTES:

1. TREES TO REMAIN NOTED ON EXISTING CONDITIONS PLAN.
2. NOT ALL TREES TO REMAIN REQUIRE PROTECTION. TREE PROTECTION TO BE UTILIZED ON TREES WHERE CONSTRUCTION TRAFFIC WOULD COMPACT THE ROOT ZONE OF THE TREE.

TEMPORARY TREE PROTECTION DETAIL
NOT TO SCALE

REVISIONS:			
NO.	DATE	DESCRIPTION	BY

STATE OF NEW YORK · EUGENE A. BERGMAN · LICENSED PROFESSIONAL ENGINEER · 084465

Site Plan Application

Sheet 9 of 11 - Site & Erosion and Sediment Control Details

Owner:
Weber Projects III, LLC
11 Creek Drive
Beacon, New York 12508

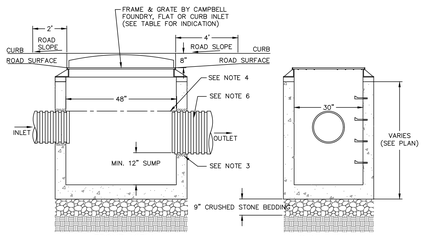
Architect:
Aryeh Siegel, Architect
84 Mason Circle
Beacon, New York 12508

Site / Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

Surveyor:
TEC Land Surveying, P.C.
15C Tioronda Avenue
Beacon, New York 12508

Landscape Designer:
Landscape Restorations
P.O. Box 286
Beacon, New York 12508

23 - 28 Creek Drive
Beacon, New York
Scale: 1" = 20'
October 23, 2018

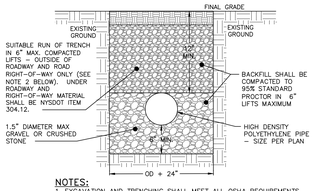


FRONT VIEW SIDE VIEW

NOTES:

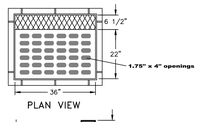
1. PRECAST CONCRETE CATCH BASIN WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE CATCH BASIN AND PARGED AROUND.
3. PIPES SHALL BE PARGED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATERTIGHT.
4. PROVIDE A MINIMUM 0.1' DROP BETWEEN INLET AND OUTLET INVERTS (MATCH CROWNS FOR PIPES WITH DIFFERENT SIZE) UNLESS OTHERWISE NOTED ON THE PLAN.
5. CATCH BASINS WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.
6. HDPE PIPE SHALL BE PROVIDED WITH WATERTIGHT CONNECTIONS. ADS MODEL N12 WT IB OR APPROVED EQUAL.

CATCH BASIN DETAIL
NOT TO SCALE



NOTES:
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.

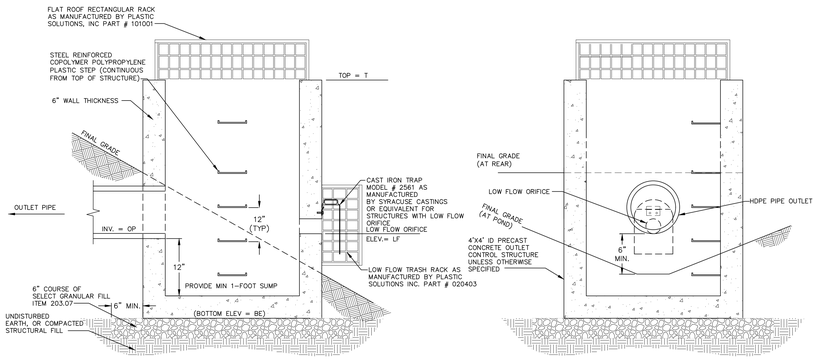
STORM LINE TRENCH DETAIL
NOT TO SCALE



PLAN VIEW SECTION VIEW

NOTES:
1. HEAVY DUTY RECTANGULAR STORMWATER INLET GRATE TO BE CAMPBELL FOUNDRY MODEL 2541, OR APPROVED EQUAL.
2. CATCH BASINS TO RECEIVE CURB INLETS ARE: CB 104, CB 301, CB 301A, CB 302, CB 303, CB 304, AND CB 305.

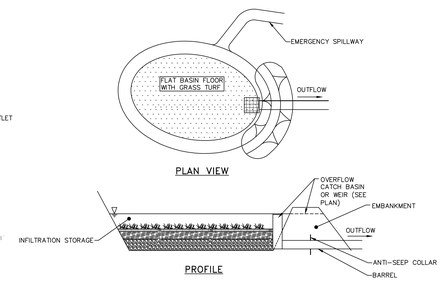
CAST IRON STORMWATER CURB INLET GRATE DETAIL
NOT TO SCALE



SIDE VIEW FRONT VIEW

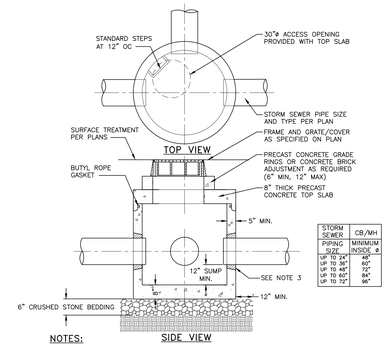
NOTES:
1. ALL TRASH RACKS SHALL HAVE UV PROTECTION MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D2565–99.
2. TRASH RACKS SHALL BE SECURED PER THE MANUFACTURER'S RECOMMENDATIONS.
3. WHERE HIGH FLOW ORIFICE EXTENDS TO TOP OF STRUCTURE, THE MAXIMUM ALLOWABLE GAP BETWEEN THE TRASH RACKS SHALL BE 4".

INFILTRATION OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE



NOTES:
1. THE INFILTRATION BASIN SHALL NOT SERVE AS A SEDIMENT TRAP DURING CONSTRUCTION AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY.
2. RELATIVELY LIGHT TRACKED EQUIPMENT IS RECOMMENDED FOR CONSTRUCTION PURPOSES TO AVOID COMPACTION OF THE BASIN FLOOR.
3. A HIGHLY POROUS SURFACE TEXTURE SHALL BE RETAINED ALONG THE BASIN FLOOR, ESPECIALLY WITHIN THE AREA IDENTIFIED AS BEING USED FOR INFILTRATION.
4. ESTABLISH DENSE VEGETATION ON THE BASIN SIDE SLOPES AND FLOOR TO PREVENT EROSION AND SLOUGHING AND TO PROVIDE A NATURAL MEANS OF MAINTAINING RELATIVELY HIGH INFILTRATION RATES. GRASSES OF THE FESCUE FAMILY (ALTAI FESCUE, WESTERN FESCUE OR RED FESCUE) ARE SPECIFIED ON THIS PLAN, PRIMARILY DUE TO THEIR ADAPTABILITY TO DRY SANDY SOILS, DROUGHT RESISTANCE, HARDINESS, AND ABILITY TO WITHSTAND BRIEF INUNDATIONS. FESCUE WILL ALSO ALLOW FOR LONG INTERVALS BETWEEN MOWINGS, WHICH SHALL OCCUR TWICE PER YEAR MINIMUM, TYPICALLY IN JUNE AND SEPTEMBER IS SATISFACTORY.
5. THE BERMS SHALL BE SUFFICIENTLY COMPACTED AND OF SUCH MATERIAL TO PREVENT SEEPAGE.

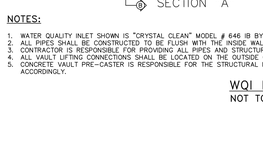
TYPICAL INFILTRATION BASIN DETAIL
NOT TO SCALE



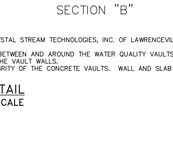
STORM SEWER	CB/MH
PIPING SIZE	MINIMUM INSIDE ø
UP TO 24"	48"
UP TO 36"	60"
UP TO 48"	72"
UP TO 60"	84"
UP TO 72"	96"

NOTES:
1. PRECAST CONCRETE MANHOLE WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE AND PARGED AROUND.
3. PIPES SHALL BE PARGED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. 4. CONCRETE STRUCTURE AND CASTING SHALL BE RATED FOR H20 TRAFFIC LOADING.
5. INLET FRAME SHALL BE FULLY SUPPORTED ON THE CONCRETE STRUCTURE FOR H20 LOADING.
6. MANHOLES WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.

STORMWATER MANHOLE DETAIL
NOT TO SCALE

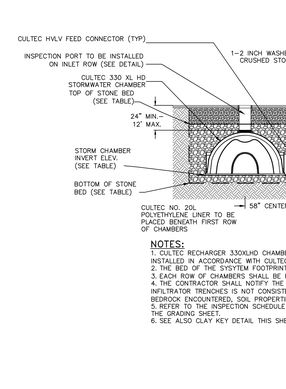


TOP VIEW (INTERNAL)

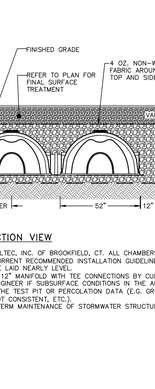


TOP VIEW (SLAB)

LEGEND
1. EXPANDED ALUMINUM BASKET W/ 1/4" MESH LINING, 1'-6" H x 2'-0" L x 4'-0" W, Upfit 3'-6 3/4" FROM SUMP
2. 2ND INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1 1/4" O.C., 4'-0" H.
3. SPILL PROTECTION RESERVOIR 5'-0" H. WITH A 1'-8" FRONT CUT.
4. 3/4"COCONUT FIBER FILTER IN ALUMINUM FRAME 1'-8" LONG.
5. 3/4"ALUMINUM PLATE, 9" H., 1'-11" WIDE.



SECTION "A"



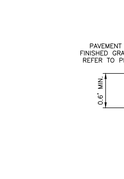
SECTION "B"

NOTES:
1. WATER QUALITY INLET SHOWN IS "CRYSTAL CLEAN" MODEL # 646 IB BY CRYSTAL STREAM TECHNOLOGIES, INC. OF LAWRENCEVILLE, GA., 1–800–648–6945.
2. ALL PIPES SHALL BE CONSTRUCTED TO BE FLUSH WITH THE INSIDE WALLS.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PIPES AND STRUCTURES BETWEEN AND AROUND THE WATER QUALITY VAULTS.
4. ALL VAULT LIFTING CONNECTIONS SHALL BE LOCATED ON THE OUTSIDE OF THE VAULT WALLS.
5. CONCRETE VAULT PRE–CASTER IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE CONCRETE VAULTS. WALL AND SLAB THICKNESSES SHALL BE ALTERED ACCORDINGLY.

WQI DETAIL
NOT TO SCALE

PLAN VIEW

SECTION VIEW 1



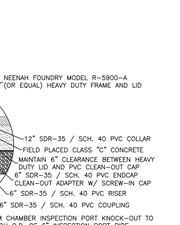
SECTION VIEW 2

DIMENSION TABLE:

B	C	E	F	X	BB	CC	FF
30"	24"	4"	22"	1"	41"	36"	34"

NOTES:
1. HEAVY DUTY RECTANGULAR STORMWATER INLET GRATE TO BE CAMPBELL FOUNDRY MODEL 3433, OR APPROVED EQUAL.

CAST IRON STORMWATER FLAT INLET GRATE DETAIL
NOT TO SCALE



SECTION VIEW

NOTES:
1. MINIMUM 1' DEPTH AND 1' WIDTH FOR ALL SWALES.
2. SWALE SHALL BE SEEDED WITH FAST GERMINATING RYE 15 TO 25 POUNDS PER 1,000 SQUARE FEET AND MULCHED.

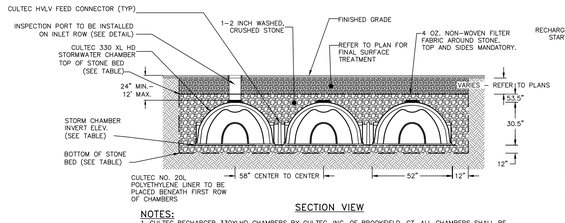
TEMPORARY GRASS LINED SWALE/DIKE DETAIL
NOT TO SCALE

NOTES:
1. YARD INLET BASINS SHALL BE PRE CAST REINFORCED CONCRETE SHALL HAVE A MINIMUM 28–DAY COMPRESSIVE STRENGTH OF 4,000 PSI AND SHALL BE IN CONFORMANCE WITH ASTM 478–68. WALLS AND BASE SHALL BE ONE PIECE CONSTRUCTION. YARD INLET BASIN SHOWN BY EXPANDED SUPPLY PRODUCTS (ESP), 3330 ROUTE 9, COLD SPRING, NY (845) 265–3771.
2. BACKFILL USING SELECT MATERIAL, COMPACTED IN 6" LIFTS.
3. SUMP SHALL BE 12".
4. FRAMES AND GRATES SHALL BE SET IN A FULL BED OF MORTAR.

PRE–CAST CONCRETE YARD INLET DETAIL
NOT TO SCALE

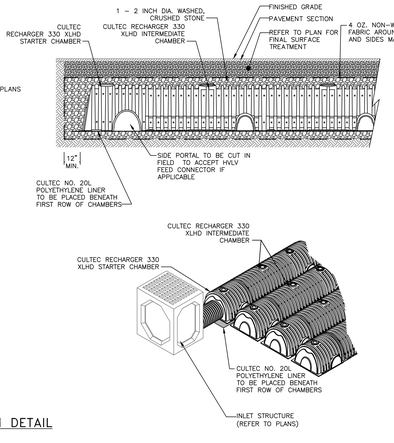
NOTES:
1. RIP RAP OUTLET PROTECTION SHALL BE 15" OF LIGHT STONE FILLING. STONE FILLING SIZE d50=6", RIVER ROCK MAY BE SUBSTITUTED FOR ANGULAR STONE.

EMERGENCY OVERFLOW WEIR DETAIL
NOT TO SCALE

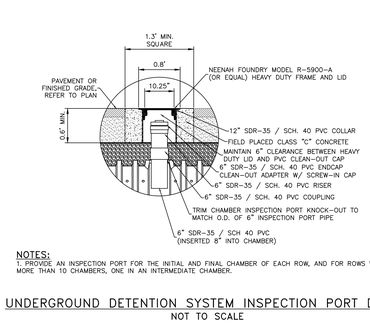


SECTION VIEW

NOTES:
1. CULTEC RECHARGER 330XLHD CHAMBERS BY CULTEC, INC. OF BROOKFIELD, CT. ALL CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH CULTEC INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
2. THE BED OF THE SYSYTEM FOOTPRINT SHALL BE LAID NEARLY LEVEL.
3. EACH ROW OF CHAMBERS SHALL BE FED VIA A 12" MANIFOLD WITH TEE CONNECTIONS BY CULTEC OR EQUAL.
4. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IF SUBSURFACE CONDITIONS IN THE AREAS OF THE INFILTRATOR TRENCHES IS NOT CONSISTENT WITH THE TEST PIT OR PERCOLATION DATA (E.G. GROUNDWATER OR BEDROCK ENCOUNTERED, SOIL PROPERTIES ARE NOT CONSISTENT, ETC.).
5. REFER TO THE INSPECTION SCHEDULE & LONG TERM MAINTENANCE OF STORMWATER STRUCTURES NOTES ON THE GRADING SHEET.
6. SEE ALSO CLAY KEY DETAIL THIS SHEET.



UNDERGROUND DETENTION SYSTEM DETAIL
NOT TO SCALE



NOTES:
1. PROVIDE AN INSPECTION PORT FOR THE INITIAL AND FINAL CHAMBER OF EACH ROW, AND FOR ROWS WITH MORE THAN 10 CHAMBERS, ONE IN AN INTERMEDIATE CHAMBER.

UNDERGROUND DETENTION SYSTEM INSPECTION PORT DETAIL
NOT TO SCALE

REVISIONS:			
NO.	DATE	DESCRIPTION	BY

STATE OF NEW YORK – WILLIAM A. REGENHARD – LICENSED PROFESSIONAL ENGINEER

Site Plan Application
Sheet 10 of 11 - Stormwater Details

Owner:
Weber Projects III, LLC
11 Creek Drive
Beacon, New York 12508

Architect:
Aryeh Siegel, Architect
84 Mason Circle
Beacon, New York 12508

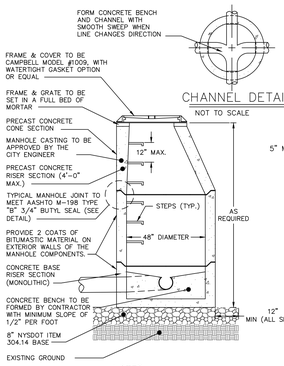
Site / Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

Surveyor:
TEC Land Surveying, P.C.
15C Tioronda Avenue
Beacon, New York 12508

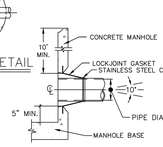
Landscape Designer:
Landscape Restorations
P.O. Box 286
Beacon, New York 12508

23 - 28 Creek Drive
Beacon, New York
Scale: 1" = 20'
October 23, 2018

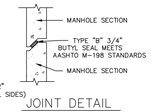
SEWER DETAILS



CHANNEL DETAIL
NOT TO SCALE



BOOT DETAIL
NOT TO SCALE

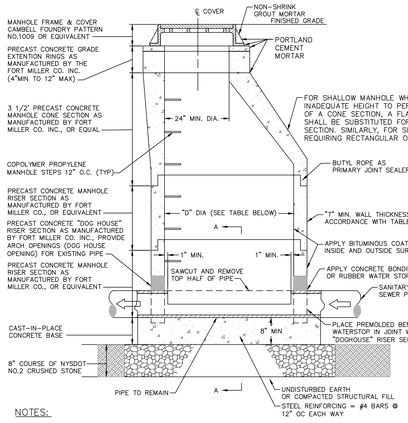


JOINT DETAIL
NOT TO SCALE

NOTES:

1. PIPE CONNECTION TO BE STANDARD "LOCKJOINT" BOOT 5" OFF BASE OF MANHOLE (SEE DETAIL).
2. CONCRETE STRENGTH OF MANHOLE COMPONENTS TO BE 4000 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C-478-86.
3. STEEL REINFORCMENT OF MANHOLE COMPONENTS TO MEET ASTM A615-A497 REQUIREMENTS.
4. LOADING OF MANHOLE COMPONENTS TO MEET H-20 REQUIREMENTS.
5. CONCRETE USED IN MANHOLE COMPONENTS TO CONTAIN 6% AIR ENTRAINMENT.
6. 4" MAXIMUM FROM MANHOLE TO PIPE JOINT.

PRE-CAST CONCRETE SANITARY MANHOLE DETAIL
NOT TO SCALE



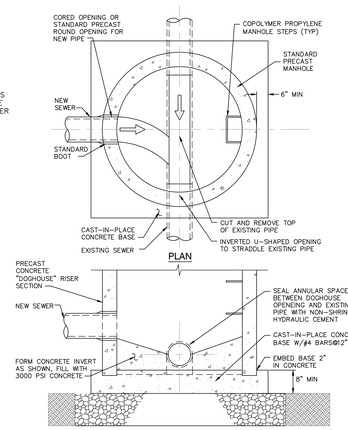
NOTES:

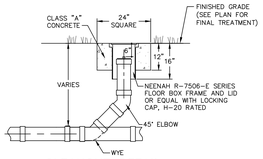
1. USE ONLY WET-CAST UNITS. DRY-CAST NOT ACCEPTABLE.
2. MANUFACTURER TO VERIFY REQUIRED "T" DIMENSION ASSOCIATED WITH DEPTH OF INDIVIDUAL MANHOLES.

TABLE

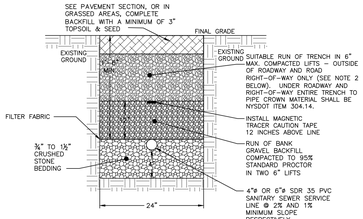
OUTLET SEWER PIPE SIZE	"D" DIA MIN	"T" WALL THICKNESS MIN
8" THRU 24"	4'-0"	5"
30"	5'-0"	6"

PRECAST CONCRETE INSERTION "DOGHOUSE" MANHOLE DETAIL
NOT TO SCALE





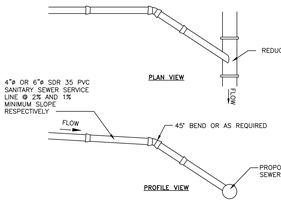
CLEANOUT DETAIL
NOT TO SCALE



NOTES:

1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.

SANITARY SEWER SERVICE LINE TRENCH DETAIL
NOT TO SCALE



NOTES:

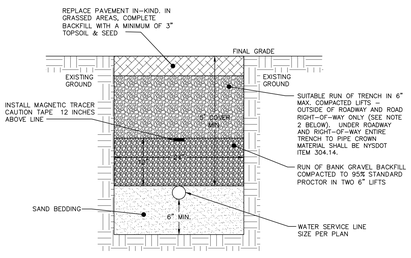
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.

SANITARY SEWER SERVICE CONNECTION DETAIL
NOT TO SCALE

SANITARY SEWER NOTES:

1. THE PROPOSED APARTMENTS ARE TO BE SERVED BY THE CITY OF BEACON MUNICIPAL SEWER SYSTEM. INSTALLATION OF ALL COMPONENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY CODE, CHAPTER 179.
2. REFER TO THE DUTCHESS COUNTY DEPARTMENT OF HEALTH STANDARD NOTES FOR ADDITIONAL PERTINENT INFORMATION.
3. THE DUTCHESS COUNTY DEPARTMENT OF HEALTH, CITY OF BEACON CHIEF SEWER OPERATOR, AND THE CERTIFYING PROFESSIONAL ENGINEER SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF THE SEWER MAIN INSTALLATION.
4. SEWER MAIN MATERIAL SHALL BE 8" DIAMETER SDR-35 OR SDR-26 PVC BELL AND SPIGOT GRAVITY SEWER PIPE, WITH GASTIGHT AND WATERTIGHT JOINTS.
5. SEWER MAIN SHALL BE LAID IN STRAIGHT ALIGNMENT. MANHOLES SHALL BE CONSTRUCTED AT ALL CHANGES IN SLOPE, ALIGNMENT OR AT INTERVALS NOT EXCEEDING 400 LINEAR FEET. STRAIGHT ALIGNMENT SHALL BE VERIFIED BY DEFLECTION TESTING.
6. THE SEWER MAIN SHALL BE INSTALLED AND TESTED FOR EXFILTRATION PRIOR TO BEING PERMITTED TO OPERATE. ALL NEW SANITARY SEWER GRAVITY LINES SHALL PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH ASTM C-828 AT A PRESSURE OF 3.5 PSI.
7. MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C-1244. IF PRESSURE DROP EXCEEDS THE SPECIFIED AMOUNT, THE NECESSARY REPAIRS OR REPLACEMENTS REQUIRED SHALL BE MADE TO REDUCE THE PRESSURE DROP TO WITHIN THE SPECIFIED LIMIT, AND THE TESTS SHALL BE REPEATED UNTIL THE REQUIREMENT IS MET.
8. SERVICE LATERALS SHALL BE 4" DIAMETER SDR-35 PVC WITH A MINIMUM SLOPE OF 2%, UNLESS OTHERWISE NOTED ON THE PLAN.
9. ALL SANITARY SEWER MAINS AND MANHOLES UP TO, BUT NOT INCLUDING, THE EXISTING MANHOLE SHALL BE OWNED, OPERATED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.

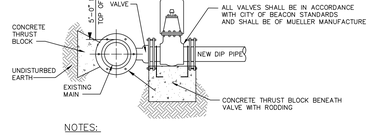
WATER DETAILS



NOTES:

1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, ENLOGATED PARTICLES, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.
3. IN AREAS WHERE 5' COVER REQUIREMENT CANNOT BE MET, THE CONTRACTOR SHALL PROVIDE PIPE INSULATION TO PREVENT FREEZING.

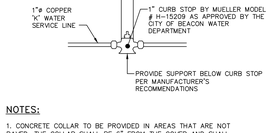
WATER SERVICE LINE TRENCH DETAIL
NOT TO SCALE



NOTES:

1. ALL VALVES SHALL OPEN BY TURNING LEFT (COUNTERCLOCKWISE) AND HAVE A 2-INCH SQUARE-OPERATING NUT PAINTED RED.
2. ALL VALVES SHALL BE M.J. RESILIENT WEDGE TYPE WITH "O" RING PACKING, DESIGNED FOR A WORKING PRESSURE OF 150 PSI AND BE IN FULL CONFORMANCE WITH AWWA C500.
3. TAPPING SLEEVE AND GATE VALVE SHOWN ARE MUELLER H-615, AND T-2630 RESPECTIVELY

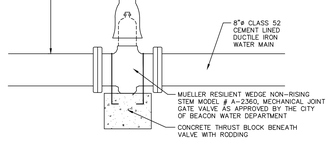
TAPPING SLEEVE DETAIL
NOT TO SCALE



NOTES:

1. CONCRETE COLLAR TO BE PROVIDED IN AREAS THAT ARE NOT PAVED. THE COLLAR SHALL BE 6" FROM THE COVER AND SHALL EXTEND 6" BELOW FINAL GRADE.
2. CURB STOP TO BE COMPRESSION TYPE BY MUELLER.
3. AREA AROUND CURB BOX TO BE BACKFILLED WITH GRAVELLY MATERIAL.

WATER SHUT-OFF VALVE DETAIL
NOT TO SCALE



NOTES:

1. CONCRETE COLLAR TO BE PROVIDED IN AREAS THAT ARE NOT PAVED. THE COLLAR SHALL BE 6" FROM THE COVER AND SHALL EXTEND 6" BELOW FINAL GRADE.

GATE VALVE DETAIL
NOT TO SCALE

WATERMAIN DISINFECTION & TESTING

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF BEACON WATER DEPARTMENT PRIOR TO TESTING AND SHALL ALSO COORDINATE HIS ACTIONS WITH THE CITY ENGINEER SO AS TO AVOID UNDUE DISTURBANCE OF THE WATER SUPPLY TO ANY EXISTING USERS.
2. THE CONTRACTOR SHALL INFORM THE DESIGN ENGINEER'S AND CITY ENGINEER'S OFFICE A MINIMUM OF 24 HOURS PRIOR TO TESTING SUCH THAT WITNESSING CAN TAKE PLACE AND PROPER CERTIFICATIONS CAN BE ISSUED.
3. ALL NEW,Y INSTALLED WATER MAINS SHALL BE FLUSHED AT A MINIMUM VELOCITY OF 2.5 FT/SECOND BEFORE AND AFTER DISINFECTION.
4. ALL WATER LINES SHALL BE DISINFECTED USING THE PROCEDURES DESCRIBED IN THE LATEST EDITION OF AWWA C651 SPECIFICATIONS FOR DISINFECTION OF WATER LINES (WITH THE EXCEPTION OF THE TABLET METHOD). WATER ENTERING THE NEW MAIN SHALL RECEIVE A DOSE OF CHLORINE FROM A CONSTANT RATE SUCH THAT THE WATER WILL HAVE NOT LESS THAN 25 MG/L FREE CHLORINE. CHLORINE APPLICATION SHALL NOT CEASE UNTIL THE ENTIRE MAIN IS FILLED WITH HEAVILY CHLORINATED WATER.
5. DISINFECTED WATER SHALL REMAIN IN THE NEWLY INSTALLED WATER LINE FOR A MINIMUM OF 24 HOURS. AFTER THIS RETENTION PERIOD, THE HEAVILY CHLORINATED WATER SHALL BE FLUSHED FROM THE MAIN UNTIL CHLORINE MEASUREMENTS SHOW A CONCENTRATION IN THE WATER LEAVING THE MAIN HAS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. AT SUCH TIME, BACTERIOLOGICAL SAMPLING FOR SUBMITTAL TO STATE HEALTH LABORATORIES SHALL BE PERFORMED BY THE CONTRACTOR.
6. WATER SAMPLES SHALL BE TESTED FOR TOTAL COLIFORM, TPC (HETEROTROPHIC PLATE COUNT), TURBIDITY & COLOR.
7. CONTRACTOR WILL CONTINUE FLUSHING AND DISINFECTION OPERATION UNTIL ACCEPTABLE BACTERIOLOGICAL RESULTS ARE OBTAINED. TWO (2) SUCCESSIVE SAMPLES ARE TO BE TAKEN AT TWENTY-FOUR (24) HOUR INTERVALS.
8. THE ENVIRONMENT INTO WHICH THE HEAVILY CHLORINATED WATER IS TO BE DISCHARGED SHALL BE INSPECTED, AND IF THERE IS ANY LIKELIHOOD THAT THE CHLORINATED DISCHARGE WILL CAUSE DAMAGE, THEN A REDUCING AGENT SHALL BE APPLIED TO THE WATER TO BE WASTED TO THOROUGHLY NEUTRALIZE THE CHLORINE RESIDUAL IN THE WATER. PERMITS MAY BE REQUIRED. THE CITY ENGINEER SHALL BE NOTIFIED PRIOR TO DISPOSAL OF HIGHLY CHLORINATED WATER.

WATER NOTES:

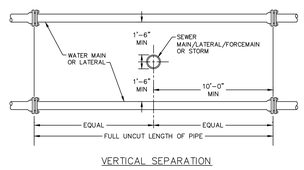
1. THE PROPOSED BUILDING IS TO BE SERVED BY THE CITY OF BEACON MUNICIPAL WATER SYSTEM. INSTALLATION OF ALL COMPONENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY CODE, CHAPTER 219.
2. REFER TO THE DUTCHESS COUNTY DEPARTMENT OF HEALTH STANDARD NOTES FOR ADDITIONAL PERTINENT INFORMATION.
3. THE WATER MAIN SHALL BE INSTALLED, PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C600 (SEE NOTES BELOW).
4. THE DUTCHESS COUNTY DEPARTMENT OF HEALTH, CITY OF BEACON WATER OPERATOR, AND THE CERTIFYING PROFESSIONAL ENGINEER SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF THE WATER MAIN INSTALLATION.
5. THE WATER MAIN SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C651 (SEE NOTES BELOW).
6. WATER MAIN MATERIAL SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON PIPE WITH MECHANICAL JOINTS AND SHALL MEET THE REQUIREMENTS OF AWA C150 AND ANSI A21.51.
7. MEGALUG RESTRAINING SYSTEMS SHALL BE USED AT ALL FITTINGS, VALVES AND HYDRANTS (SEE SCHEDULE ON SHEET 14).
8. GATE VALVES SHALL BE MUELLER RESILIENT WEDGE, NON-RISING STEM, MECHANICAL JOINT.
9. HYDRANTS SHALL BE A-423 MUELLER CENTURION, WITH A MUELLER GATE VALVE BEFORE THE HYDRANT.
10. SERVICE LINES SHALL BE 3/4" COPPER K, UNLESS OTHERWISE NOTED ON THE PLAN.
11. THE CONTRACTOR SHALL VERIFY THE EXISTING WATER MAIN MATERIAL AND BE PREPARED TO PROVIDE A SPECIAL COUPLING FOR CONNECTION OF THE PROPOSED DUCTILE IRON WATER MAIN.
12. A PRESSURE REDUCING VALVE SHALL BE INSTALLED FOR EACH NEW TOWNHOME, WATTS MODEL 25AUB-Z3 OR EQUAL AS APPROVED BY THE CITY OF BEACON WATER DEPARTMENT.
13. THE CITY OF BEACON SHALL OWN, OPERATE AND MAINTAIN THE WATER MAIN THROUGHOUT THE SITE, INCLUDING ALL APPURTENANCES.
14. THE HOA OR OWNER SHALL ANNUALLY EXERCISE ALL WATER VALVES.

WATER MAIN PRESSURE & LEAKAGE TESTING

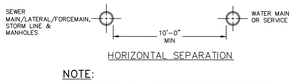
GENERAL: ALL PIPING SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF AWWA C600, EXCEPT AS ADDED OR AMENDED BELOW.
1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR ANY AND ALL REQUIRED PIPE TAPS FOR TESTING, AND AS NECESSARY FOR TESTING AS SPECIFIED. EQUIPMENT WILL BE SUCH THAT THE ENGINEER MAY INSTALL HIS OWN PRESSURE GAUGE.
2. A PRESSURE TEST AND LEAKAGE TEST ARE REQUIRED FOR ALL PIPE.
3. TESTING TO BE PERFORMED ONLY AFTER PARTIAL OR COMPLETE BACKFILL AND RESTRAINT BLOCKING (USING HIGH EARLY CEMENT) HAS HAD 36 HOURS TO CURE OR BLOCKING USING STANDARD CEMENT HAS HAD 7 DAYS TO CURE.
4. THE MAIN SHALL BE PARTIALLY BACKFILLED OR BRACED AGAINST MOVEMENT DURING THE TEST. ALL AIR MUST BE BLED OUT OF THE SECTION TO BE TESTED. IF NECESSARY, CONTRACTOR SHALL INSTALL CORPORATION STOPS AT THE HIGH POINTS, FOR BLOW-OFFS. AFTER ALL AIR HAS BEEN EXPELLED, THE CORPORATION COCKS SHALL BE CLOSED AND THE PRESSURE TEST APPLIED. AFTER EXAMINATION OF EXPOSED PARTS OF THE SYSTEM, THE TEST PRESSURE SHALL BE INCREASED TO 1 1/2 TIMES THE NORMAL PRESSURE, BASED UPON THE ELEVATION OF THE LOWEST POINT IN THE LINE OR SECTION UNDER THE TEST, BUT SUCH PRESSURE SHALL NOT BE LESS THAN 150 PSI NOR MORE THAN 200 PSI, AND EXPOSED PARTS AGAIN EXAMINED. THE MINIMUM DURATION OF THE LEAKAGE TEST SHALL BE TWO (2) HOURS.
5. ALLOWABLE SYSTEM LEAKAGE AS SPECIFIED IN THE REFERENCED STANDARDS. IF LEAKAGE IN SYSTEM IS GREATER THAN ALLOWABLE, CONTRACTOR WILL LOCATE AND REPAIR SYSTEM AT HIS EXPENSE AND RETEST, CONTINUE TO TEST AND REPAIR THE SYSTEM UNTIL LEAKAGE IS WITHIN ACCEPTABLE LIMITS.
6. NO DUCTILE IRON PIPE INSTALLATION WILL BE ACCEPTED IF THE LEAKAGE IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{SD\sqrt{P}}{148{,}000}$$

WHERE,
L = LEAKAGE IN GALLONS PER HOUR
S = LENGTH OF PIPE TESTED, IN FEET
D = NOMINAL DIAMETER OF PIPE IN INCHES
P = AVERAGE TEST PRESSURE DURING LEAKAGE TEST, IN PSI (GAUGE)



VERTICAL SEPARATION

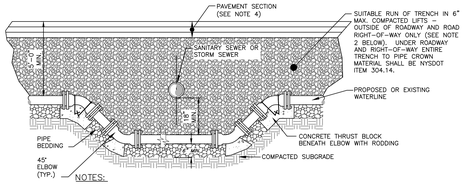


HORIZONTAL SEPARATION

NOTE:

1. NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE DUTCHESS COUNTY DEPARTMENT OF HEALTH AND THE CITY OF BEACON. CONCRETE ENCASEMENT OF WATERLINE OR OFFSETTING OF WATERLINE SHALL BE REQUIRED WHERE SEPARATION DISTANCES CANNOT BE MAINTAINED.

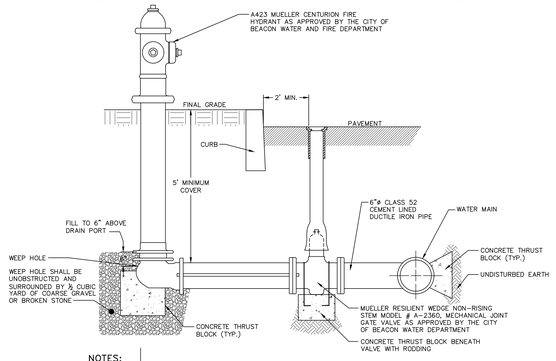
WATER LINE SEPARATION DETAIL
NOT TO SCALE



NOTES:

1. WHEN THE ELEVATION OF THE SANITARY OR STORM SEWER CAN NOT BE VARIED TO MEET THE ABOVE REQUIREMENTS, THE WATER SERVICE LINE OR MAIN SHALL BE RELOCATED TO PROVIDE THIS REQUIRED SEPARATION OR RECONSTRUCTED WITH MECHANICAL JOINT PIPE FOR A DISTANCE OF TEN (10) FEET ON EACH SIDE OF THE CROSSING. THE CENTERLINE OF WATERMAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH PIPE JOINTS WILL BE AS FAR AWAY FROM THE SEWER AS POSSIBLE.
2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, ENLOGATED PARTICLES, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.
3. THE RELOCATED WATER MAIN/SERVICE LINE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA, NYSDOH AND DCDOH STANDARDS.
4. PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH THE PAVEMENT RESTORATION DETAIL.
5. ALL REPLACED WATERMAIN SHALL BE 12"ø CLASS 52 DUCTILE IRON.

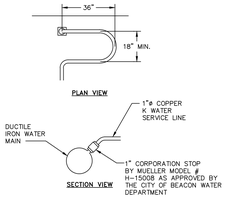
WATER LINE OFFSET DETAIL
NOT TO SCALE



NOTES:

1. THE GATE VALVE SHALL BE LOCATED THIRTY SIX (36) INCHES FROM THE HYDRANT CENTER LINE.
2. ½" STEEL TIE RODS TO BE PROVIDED BETWEEN THE GATE VALVE AND THE HYDRANT.

HYDRANT DETAIL
NOT TO SCALE



NOTES:

1. A MINIMUM 5' COVER SHALL BE PROVIDED ON THE WATER SERVICE LINE (CONDITIONED ON ACTUAL WATER MAIN DEPTH).
2. CORPORATION STOP TO BE COMPRESSION TYPE BY MUELLER.
3. WATER SERVICE LINE TO HAVE A 'GOOSENECK' NEAR CORPORATION STOP.
4. CORPORATION STOP TO BE INSTALLED IN THE UPPER HALF OF THE WATER MAIN AT AN ANGLE OF APPROXIMATELY 45° FROM HORIZONTAL.

WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

REVISIONS:			
NO.	DATE	DESCRIPTION	BY

Site Plan Application

Sheet 11 of 11 - Water & Sewer Details

Owner:
Weber Projects III, LLC
11 Creek Drive
Beacon, New York 12508

Architect:
Aryeh Siegel, Architect
84 Mason Circle
Beacon, New York 12508

Site / Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

Surveyor:
TEC Land Surveying, P.C.
15C Tioronda Avenue
Beacon, New York 12508

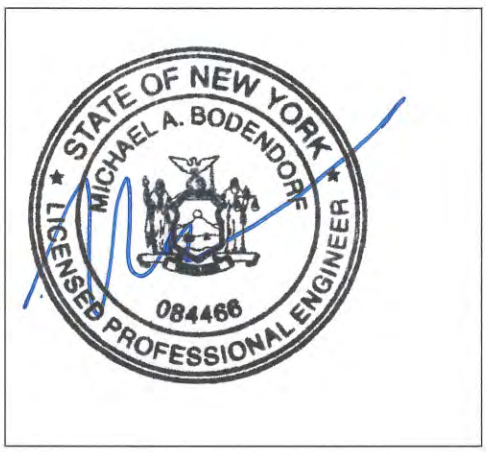
Landscape Designer:
Landscape Restorations
P.O. Box 286
Beacon, New York 12508

23 - 28 Creek Drive
Beacon, New York
Scale: 1" = 20'
October 23, 2018

Preliminary Stormwater Pollution Prevention Plan:
for
23-28 Creek Drive

Prepared for:
Weber Projects III, LLC
11 Creek Drive
Beacon, NY 12508

October 23, 2018



HUDSON
LAND DESIGN

Prepared by:
Hudson Land Design Professional Engineering, P.C.
174 Main Street
Beacon, NY 12508

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1.0 INTRODUCTION

1.1 Overview

This preliminary Stormwater Pollution Prevention Plan (SWPPP) has been developed in accordance with New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-15-002, which authorizes stormwater discharges to surface waters of the State from the following construction activities identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. Construction activities involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a larger common plan of development or sale that will ultimately disturb one or more acres of land; excluding routine maintenance activity that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;
2. Construction activities involving soil disturbances of less than one (1) acre where the Department has determined that a SPDES permit is required for stormwater discharges based on the potential for contribution to a violation of a water quality standard or for significant contribution of pollutants to surface waters of the State.
3. Construction activities located in the New York City, East of Hudson watershed, that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

This project qualifies for SPDES coverage under provision 1 as stated above.

The objectives of this SWPPP are as follows:

- To develop a sediment and erosion control plan in accordance with the most current version of the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, which implements best management practices to stabilize disturbed areas, protect off site areas and sensitive areas and minimize the transport of sediment.
- To demonstrate that the resulting stormwater runoff from the development exiting the site will not adversely impact offsite properties, stormwater conveyance systems or receiving water bodies, and that temporary and permanent stormwater systems and facilities are designed in accordance with the latest revision to the New York State Stormwater Management Design Manual (SDM), January 2015.
- To demonstrate that runoff reduction measures have been implemented into the design of the site.
- To demonstrate that the required runoff from the development is captured and treated through approved water quality measures.

Construction activities are not permitted to begin until such time that authorization is obtained under the General Permit. This project is located within a Municipal Separate Storm Sewer System (MS4) area. Authorization to commence construction activities may commence five (5) days

following receipt of the Notice of Intent (NOI) accompanied by the MS4 SWPPP Acceptance Form.

A copy of the General Permit, SWPPP, NOI, NOI acknowledgment letter, MS4 SWPPP acceptance form, inspection reports and accompanying plans shall be maintained on-site from the date of initiation of construction activities until final stabilization of all disturbed areas has been achieved and the Notice of Termination (NOT) has been submitted.

1.2 Land Disturbance

Per the General Permit, no more than five (5) acres of land disturbance may occur at any one time without written approval from the NYSDEC. At a minimum, the owner or operator must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:

a. The owner or operator shall have a qualified inspector conduct at least two (2) site inspections every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

b. In areas where soil disturbance activity has been temporarily or permanently ceased, temporary and/or permanent soil stabilization measures shall be installed and/or implemented within seven (7) days from the date the soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the most current version of the technical standard, New York State Standards and Specifications for Erosion and Sediment Control.

c. The owner or operator shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.

d. The owner or operator shall install any additional site specific practices needed to protect water quality.

Disturbance of more than five (5) acres at any one time is not anticipated for this project. Phasing of the construction activities is planned to limit the amount of disturbance at any one time.

2.0 PROJECT DESCRIPTION

2.1 Project Location

The project site is located along the south side of Creek Drive, in the City of Beacon, Dutchess County, New York. The Fishkill Creek marks the southeast border of the site. This project area is approximately 2.81 acres and consists of a former Department of Public Works facility with existing brick buildings and maintenance sheds.

2.2 Project Scope and Description

The project consists of the redevelopment of the existing Department of Public Works site on Creek Drive, Tax ID: 6054-37-037625. The existing buildings will be demolished and replaced with a proposed 4-story building comprised of 9 apartments, and a 13,771 sqft shared workspace. Parking will be provided by the construction of a garage on the northern side of the site and surface parking to the east of the proposed building. A lot line realignment is proposed for the subject

parcel, 0.44 acres of area will be added to the subject parcel from Parcel Tax ID: 6054-37-066670 to accommodate the northern parking area and entrance to underground parking. The subject parcel and Parcel 066670 will utilize the same ingress and egress off through the internal drive on parcel 066670.
The underlying soils and gravel areas have become compacted from continuous movement of vehicles and machinery throughout the site. The re-development of the site will entail soil restoration where impervious area is removed, specifically to the east of the proposed building. Restoration of the soil will result in a lower runoff curve number along with an overall reduction in impervious cover. The entire site will be landscaped appropriately for the use. In addition, the existing vegetated stream riparian area will remain undisturbed.

The proposed project at full build-out will disturb approximately 2.60 acres. The total drainage study area is 3.69 ac.

2.3 Surface Water Bodies

2.3.1 Wetlands

Federal wetlands are present along the Fishkill Creek according to the National Wetlands Inventory (NWI) mapper. The wetland is classified as R2UBH, typical of a lower perennial river. These areas appear to be restricted to the stream itself, which seems likely since the banks of the stream are generally steep. Typically, the United States Army Corps of Engineers (USACE) regulates Federal wetlands. No wetland permitting is sought, however, since there is no proposed disturbance to the wetlands.

The NYSDEC Environmental Resource Mapper does not indicate the presence of NYSDEC-regulated wetlands within or near the project location.

2.3.2 Streams

The Fishkill Creek runs in a north to south direction along the east property line, and is a fourth order stream. According to the NYSDEC Environmental Resource Mapper, the Stream Classification is C. Under New York State's Environmental Conservation Law (ECL), Title 5 of Article 15, certain waters of the State are protected on the basis of their classification. Streams and small water bodies located in the course of a stream that are designated as C(T) or higher (i.e., C (TS), B, or A) are collectively referred to as "protected streams". A Protection of Waters Permit is required to physically disturb the bed or banks of any stream with a classification standard of C(T) or higher. Therefore, the Fishkill Creek is not a protected stream as classified by the NYSDEC. However, the USACE regulates the Fishkill Creek to the mean water level. A permit will be required from the USACE for new stormwater outfalls and repair of existing outfalls adjacent to the creek.

2.3.3 Floodplains

Based upon a review of the National Flood Insurance Program Flood Insurance Rate Map panel 360227 0464 E and 36027 0577 E for the City of Beacon, New York, a small portion of the site is identified as area within the 100-year flood. An in-depth Flood Insurance Study (FIS) was prepared by the Federal Emergency Management Agency in 2012. The topographic survey datum is tied into the same datum used for the FIS. The determined floodplain line is shown on the plans.

The proposed construction activities do not discharge fill into the floodplain or floodway of the stream; however, the existing building and proposed building on the south side are located in the floodplain. That said, there are no anticipated measurable impacts to the 100-year floodplain within this area.

3.0 NOTICE OF INTENT

Prior to commencement of construction activities, the Owner/Operator shall submit a Notice of Intent (NOI) to the NYSDEC for authorization. The NYSDEC authorization schedule is as follows:

For construction activities that are not subject to the requirements of a regulated, traditional land use control MS4:

- Five (5) business days from the date the NYSDEC receives a complete NOI for construction activities with a SWPPP that has been prepared in conformance with the technical standards, or
- Sixty (60) business days from the date the NYSDEC receives a complete NOI for construction activities with a SWPPP that has not been prepared in conformance with the technical standards.

For construction activities that are subject to the requirements of a regulated, traditional land use control MS4:

- Five (5) business days from the date the NYSDEC receives a complete NOI and signed "MS4 SWPPP Acceptance" form.

The project area is under the control of a regulated MS4, therefore the NOI shall be submitted directly to the NYSDEC along with a signed MS4 SWPPP Acceptance Form. A completed NOI is included in Appendix A of this SWPPP.

4.0 SOILS

The hydrologic soil characteristics of the watershed areas were obtained from Soil Survey Mapping of Dutchess County, New York, and available Geographical Information Systems (GIS) and are as follows:

Symbol	Description	Hydrologic Soil Group
Ud	Udorthents, smoothed	A

SOIL PROPERTIES

Symbol	Water Table	Restrictive Layer	Bedrock	Erosion Hazard (k)
Ud	54"	78"	78"	0.20 - Slight

Supporting soils information is provided in Appendix B of this SWPPP.

5.0 RAINFALL

5.1 Overview

The rainfall data utilized in the analysis of the watershed was obtained from Technical Release 55 (Urban Hydrology for Small Watersheds). Supporting information will be provided in future revisions to this SWPPP. The storm events are as follows:

Storm Event	24-Hour Rainfall (in)
1 - year	2.61
10 - year	4.71
100 - year	8.37

Rainfall data is provided in Appendix C of this SWPPP.

5.2 Rainfall Event Sizing Criteria

The stream channel protection volume (Cpv) criteria, intended to protect stream banks from erosion, will be demonstrated by providing 24 hour extended detention of the Type III 1-year, 24-hour storm event, or by infiltrating the entire volume. When providing extended detention, the channel protection volume criterion is not required where the resulting diameter of the stormwater management basin orifice is less than three (3) inches with a trash rack. Cpv can be met by use of green infrastructure treatment practices described in greater detail in section 6 of this report.

The overbank flood control (Qp) criteria, intended to prevent an increase in frequency and magnitude of out of bank flooding generated by new development, will be demonstrated by attenuating the Type III 10-year, 24-hour peak discharge rate to pre-development conditions. The overbank flood criteria can be waived if the project site discharges to a tidal water or fifth order stream.

The extreme flood control (Qf) criteria, intended to prevent the increased risk of flood damage from large storm events, maintain the boundaries of pre-development conditions, and protect the physical integrity of stormwater management practices, will be demonstrated by attenuating the Type III 100-year, 24 hour peak discharge rate to pre-development conditions. The extreme flood control criteria can be waived if the project site discharges to a tidal water or fifth order stream. The use of on-site green infrastructure stormwater treatment practices can mitigate post-developed Qp and Qf rates and volumes.

The pre and post-development runoff rates will be compared utilizing the Type III 1-year (channel protection), 10-year (overbank flood control), and 100-year (extreme flood control) year, 24-hour storm events. Although not required, the pre versus post-development analysis will include the analysis of the Qp and Qf storm events.

The proposed drainage conveyance system will be designed utilizing the Type III, 25-year storm event.

6.0 STORMWATER ANALYSIS AND MANAGEMENT

6.1 Methodology

6.1.1 Hydrologic Analysis

The HydroCAD stormwater modeling system computer program by Applied Microcomputer Systems was used to analyze, design and document the complete drainage system. The program uses standard hydrograph generation and routing techniques based on the USDA-NRCS Technical Releases TR-20 and TR-55 to develop stormwater runoff rates and volumes.

The program determines the rate and volume of runoff based on inputs of the watershed area, and characteristics of the land including vegetative coverage, slope, soil type, and impervious area.

6.1.2 Stormwater Design Points

Design Points represent the location where the majority of runoff from an area exits the site. The same design points are identified in post-development conditions so that a comparison can be made between the pre-development and post-development conditions. One design point for the project was selected, as follows:

Stormwater Discharge Points	
SDP	**Description**
1	Fishkill Creek

6.2 Pre-Development Watershed Conditions

Subcatchment 1 is comprised of 2.07 acres of onsite area plus an additional 1.62 acres of offsite are that flows onto the site. Land cover consists primarily of impervious areas, meadow and wooded areas, a portion of Creek Drive and the unused train tracks. The subcatchment area contains predominantly soils in hydrologic soil group A. Runoff from the subcatchment travels via sheet flow and shallow concentrated flow to the SDP.

Detailed stormwater calculations and routing for the pre-development condition have been included in Appendix D.

The following table summarizes the pre-development watershed conditions:

Pre-Development Watershed Conditions					
Subcatchment	**Area (ac)**	**Cover**	**Average Curve #**	**Hydrologic Soil Group(s)**	**Time of Concentration**
1	3.69	Impervious, meadow, and wooded areas	51	A	6.0 minutes

6.3 Post-Development Watershed Conditions

The proposed development will result in a disturbance of approximately 2.60 total acres. The site is broken into three subcatchments, one of which does not require stormwater infrastructure for

treatment, while the other two will be treated by surface infiltration basin or an underground infiltration chamber system. The following is a description of the three subcatchments:

Subcatchment 10 is comprised of approximately 0.613 acres of offsite area and 1.146 acres of onsite area totaling 1.759 acres located in the southern portion of the site. Land cover consists mainly of wooded and grass areas and some gravel area for the Greenway Trail. The entire subcatchment area contains soils in hydrologic soil group A. Runoff from the subcatchment travels overland via sheet flow, shallow concentrated flow and to SDP1.

Subcatchment 11 is comprised of approximately 0.343 acres of offsite area and 0.605 acres of onsite area totaling 0.949 acres located in the middle portion of the site. Land cover consists mainly of impervious paved surfaces, wooded offsite area and some grass areas. The entire subcatchment area contains soils in hydrologic soil group A. Runoff from the subcatchment travels overland via sheet flow, shallow concentrated flow and pipe flow to the proposed infiltration basin. Overflow from the nfiltration basin will travel via shallow concentrated flow to SDP1.

Subcatchment 12 is comprised of approximately 0.133 acres of offsite area and 0.589 acres of onsite area totaling 0.723 acres located in the northern portion of the site. Land cover consists mainly of impervious paved surfaces, wooded offsite area and some grass areas. The entire subcatchment area contains soils in hydrologic soil group A. Runoff from the subcatchment travels overland via sheet flow, shallow concentrated flow and pipe flow to the proposed underground infiltration basin. Overflow from the underground infiltration basin will travel via shallow concentrated flow to SDP1

Detailed stormwater calculations and routing for the post-development condition have been included in Appendix E.

The following table summarizes the post-development watershed conditions:

Post-Development Watershed Conditions					
Subcatchment	**Area (ac)**	**Cover**	**Average Curve #**	**Hydrologic Soil Group(s)**	**Time of Concentration**
10	1.759	Woods, grass, gravel, and a small amount of impervious areas	41	A	6.0 minutes
11	1.206	Impervious, woods, grass and small amount of gravel area	63	A	6.0 minutes
12	0.723	Impervious, woods, and grass	79	A	6.0 minutes

6.4 Hydrologic Review

The stormwater runoff rates at each discharge point under pre-development and post-development conditions are summarized below.

SDP	**1 - Year**		**10 - Year**		**100 - Year**	
	Pre	**Post**	**Pre**	**Post**	**Pre**	**Post**
1	0.02	0.89	1.57	3.81	10.35	12.56

As shown above, post-development peak flow rates for all storms area greater than the pre-development peak flow rates. Future SWPPPP report submission will include in-depth stormwater

management design. The proposed surface and underground infiltration basins will be sized accordingly.

A downstream analysis has been conducted by using the 10% rule in accordance with §4.10 of the Stormwater Design Manual, where the stream watershed is analyzed at a point downstream from the site where the site represents 10% of the entire watershed area. The site watershed of 3.688 acres is 0.006 square miles which is less than 0.1% of the entire creek watershed of 192 square miles. The peak flows associated with the creek at the site are 2,270 cfs, 6,560 cfs and 12,500 cfs for the 1-year, 10-year and 100-year storm respectively.

It is worth noting that the peak flows associated with the site will occur at a much earlier time than the peak flow associated with the creek, so the peak flow from the site will "beat the peak" of the stream; thus, creating no impact to the creek.

Supporting hydrologic analyses for pre-development and post-development conditions are included in Appendices D and E, respectively. A "Stream Stats" analysis report of Fishkill Creek is included within Appendix E.

6.5 Quantity and Quality Sizing Criteria for Re-development Projects

For re-development projects, sizing criteria shall be computed in accordance with §9.3.2 of the NYSDEC SWDM. The project at full build out will result in no increase in impervious or changes to hydrology that increases the discharge rate from the site when compared to pre-development conditions. The re-development of the project will reduce the overall site runoff curve number by restoring the soils beneath the compacted gravel areas that are proposed to be landscaped to their natural state. Based upon the reduction in impervious surface, the re-development project meets the criteria for A. I (Qp and Qf) and A. II (Cpv) of §9.3.2, where Qp, Qf and Cpv are waived. The soil restoration techniques are described in further detail within section 6.10 of this report.

Stormwater management areas (infiltration) will be sized to provide runoff reduction for 25% minimum of the site's impervious area.

6.6 Stormwater Management System

The stormwater management system will consist of a series of catch basins and associated piping that will collect site runoff from impervious and pervious surfaces and convey it to infiltration practices prior to discharge to the Fishkill Creek. The proposed catch basins will be equipped with deep sumps to provide for capture of sediment from parking areas.

6.7 Green Infrastructure for Stormwater Management

The SDM encourages the use of green infrastructure (GI) practices for stormwater management. Green infrastructure approach for stormwater management reduces a site's impact on an aquatic ecosystem through the use of site planning techniques, runoff reduction techniques, and certain standard stormwater management practices. The objective is to replicate the pre-development hydrology by maintaining pre-construction infiltration, peak runoff flow, discharge volume, and minimizing concentrated runoff by use of runoff control techniques. When implemented, green infrastructure can reduce volume, peak flow, and flow duration, promote infiltration and evapotranspiration, improve groundwater recharge, reduce downstream flooding, and protect downstream water and wetlands.

6.7.1 Green Infrastructure Practices

Green infrastructure consists of implementing several techniques during the site planning process which are:

- Preservation of Natural Resources – Preservation of undisturbed areas; preservation of buffers; reduction of clearing and grading; locating development in less sensitive areas; open space design; soil restoration.
- Reduction of Impervious Cover – Roadway reduction; sidewalk reduction; driveway reduction; cul-de-sac reduction; building footprint reduction; parking reduction.
- Runoff Reduction Techniques – Conservation of natural areas; sheetflow to riparian buffers or filter strips; vegetated open swale; tree planting/tree box; disconnection of roof runoff; stream daylighting for redevelopment projects; bioretention areas; rain gardens; green roofs; stormwater planters; rain tank/cistern; pervious pavement.

During the planning process, the above techniques are implemented to the greatest extent possible to reduce runoff developed by the site. The following summarizes the GI techniques implemented on the site:

- Most of the site has been disturbed from previous development. Maintaining the stream riparian zone will help prevent stream bank erosion.
- Impervious cover has been reduced wherever possible and when the project is complete the total amount of impervious area will be just 0.02 acres less than pre-development conditions.

6.7.2 Five Step Process for Stormwater Site Planning and Selection Design

Stormwater management using GI is summarized in the five step process described below.

Step 1: Site Planning

The site design will incorporate the preservation of natural resources including protection of natural areas, avoidance of sensitive areas, minimizing grading and soil disturbance, minimizing impervious areas on roads, driveways and parking lots. The site layout will avoid wetlands, waterways, buffers, areas of highly erodible soils and critical areas. The site design will also maintain natural drainage design points.

Step 2: Determine Water Quality Volume (WQv)

The WQv will be calculated for the site prior to implementation of GI practices. The calculated WQv must be reduced by implementation of GI & SMP's.

Step 3: Runoff Reduction by Applying Green Infrastructure Techniques

Green infrastructure practices will be implemented wherever possible to reduce runoff from the site. GI for this site will consist of reduction of roadway widths, providing parking beneath buildings.

Step 4: Apply Standard SMP's to Address Remaining Wqv

Standard SMP's such as ponds, filtering practices or stormwater wetlands to meet additional water quality volume requirements. It is not anticipated that additional standard SMP's will be required for this project based upon the the reduction of impervious surfaces.

Step 5: Apply Volume and Peak Rate Control Practices (if needed)
Cpv, Qp and Qf must also be met, either by standard practices, or other accepted techniques such as meeting criteria set forth in the NYS SWDM §9.3.2, where Cpv, Qp and Qf are not required when impervious surfaces are reduced by more than 25% resulting in lower discharge rates to the SDP. Since post-developed impervious surface areas are slightly less than pre-developed conditions but not reduced by 25%, Cpv, Qp, and Qf shall be met by the implementation of SMP's.

6.8 Qualitative Practices

Qualitative practices are required since the re-development project meets the criteria set forth in the NYS SWDM §9.3.3. Two infiltration areas are proposed to manage and treat the runoff generated from the sites impervious areas.

6.9 Runoff Reduction Volume (RRv)

RRv is met with the use of individual treatment practices since the re-development project meets the criteria set forth in the NYS SWDM §9.3.3. Two infiltration areas are proposed to manage and treat the runoff generated from the sites impervious areas.

6.10 Soil Restoration

Soils within disturbed areas tend to over compact as a result of heavy construction traffic; thus limiting their infiltrative capacity. The existing soils and gravel areas around the site have been compacted by DPW vehicle storage and periodic movement of vehicles and machinery throughout the site. Under the GP 0-015-002 permit, soil restoration is required in disturbed areas that will be vegetated in order to recover the original properties and porosity of the soil, especially in areas that receive high construction traffic, or areas that have soils that are poorly drained.

Many runoff reduction practices need Soil Restoration measures applied over and adjacent to the practice to achieve runoff reduction performance. Some key benefits of soil restoration are less runoff, better water quality; healthier, aesthetically pleasing landscapes; increased porosity on redevelopment sites where impervious cover is converted to converted to pervious; decreases runoff volume generated and lowers the demand on runoff control structures; enhances direct groundwater recharge; promotes successful long-term re-vegetation by restoring soil organic matter, permeability, drainage and water holding capacity for healthy root system development of trees, shrubs and deep-rooted ground covers, minimizing lawn chemical requirements, plant drowning during wet periods, and burnout during dry periods.

Soil restoration is required on redevelopment projects in areas where existing impervious area will be converted to pervious area.

6.10.1 Soil Restoration Methods

- Topsoil Application – Applying 6" of topsoil in soils with an HSG of A & B and have only been stripped, cut or filled. Soils with HSG of C or D that have only been stripped require aeration in addition to topsoil.

- Aeration - Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.
- Tilling – Tilling includes the use of a cat-mounted ripper, tractor mounted disc, or tiller in order to expose the compacted soil devoid of oxygen to air an recreates temporary air space which allows for infiltration.
- Full Soil Restoration - Consists of Deep Ripping and De-Compaction, Compost Enhancement, and/or Deep Subsoiling. Deep Ripping includes the use of a cat mounted ripper, and is typically done at 12" to 24" depths. Compost Enhancement is done by using a deep subsoiler after topsoil has been applied. The goal is to alleviate the compaction that may have occurred during the placement of topsoil. This method mixes the topsoil and compost with subsoils.

Restoration techniques shall not be done until construction is complete and traffic will not travel through green areas. It is expected that deep ripping will be required in areas that the compacted gravel existed proposed to landscaped. These areas will be shown on the erosion and sediment control plan.

7.0 EROSION AND SEDIMENT CONTROL

7.1 Overview

The most sensitive stage of the development cycle is the period when vegetation is cleared and a site is graded. The potential impacts to on-site and off-site receiving waters and adjoining properties are particularly high at this stage. For example, trees and topsoil are removed, soils are exposed to erosion, and natural topography and drainage patterns are altered. Control of erosion and sediment during these periods is an essential function of this SWPPP and accompanying plans.

Effective and practical measures employed to minimize the erosion potential and prevent sediment from leaving the construction site and reaching streams or other water bodies have been recommended in accordance with:

- New York State Standards and Specifications for Erosion and Sediment Control, August 2005

In order to ensure the effectiveness of the measures recommended herein, routine inspections and documentation, along with procedures for monitoring the findings, maintenance, and corrective actions resulting from each inspection are outlined within this section of the SWPPP.

7.2 Temporary Erosion and Sediment Control Measures

The following temporary measures have been incorporated into the erosion and sediment control plans for the site construction activities. These measures are also detailed on the site plans.

7.2.1 Silt Fence

A silt fence is a temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts, entrenched, and supported with woven wire fence. Silt fences are installed on the contours across a slope and used to trap sediment by intercepting and detaining

sediment laden runoff from disturbed areas in order to promote sedimentation on the uphill side of the fence.

Silt fences are suitable for perimeter and interior control, placed below areas where runoff may occur in the form of sheet flow. It should not be placed in channels or areas where flow is concentrated. In addition to interior and perimeter control a silt fence can be applied in the following applications:

- Below the toe or down slope of exposed and erodible slopes.
- Along streams and channels banks.
- Around temporary spoil area and stockpiles.

7.2.2 Stabilized Construction Entrance

A stabilized construction entrance consists of a pad of aggregate overlaying a geotextile fabric located at a point where construction vehicles enter or exit a site to reduce or eliminate the tracking of sediment onto public right of ways, street, alleys or parking areas, thereby preventing the transportation of sediment into local stormwater collection systems. Efficiency is greatly increased when a washing area is included as part of a stabilized construction entrance.

Stabilized construction entrances shall be a minimum of fifty (50) feet long and twelve (12) feet wide, but not less than the full width of points where vehicles enter and exit the site. Where there is only one access point to the site, the stabilized construction entrance shall be a minimum of twenty-four (24) feet wide. Stabilized construction entrances shall be a minimum of six (6) inches in depth consisting of one (1) to four (4) inch stone, or reclaimed or recycled equivalent.

7.2.3 Check Dams

Check dams shall be placed in channels to reduce scour and erosion by reducing flow velocity and promoting sediment settlement. Check dams shall be spaced in the channel so that the crest of the downstream dam is at the elevation of the toe of the upstream dam. Check dams, consisting of a well-graded stone two (2) – nine (9) inches in size (NYSDOT – Light Stone) shall maintain a height of two (2) feet with side slopes of 2:1 extending beyond the bank of the channel by a minimum of one and a half (1.5) feet. Check dams shall be anchored in the channel by a cutoff trench of one and a half (1.5) feet in width by a half (0.5) foot in depth.

7.2.4 Inlet Protection

Inlet protection consists of a filtering measure placed around or upstream of a storm drain used to trap sediment by temporary ponding runoff before it enters the storm drain. Inlet protection is not considered to be a primary means of sediment control and should be used with an overall integrated sediment control program. There are four types of storm drain inlet protection consisting of: excavated drop inlet protection, fabric drop inlet protection, stone and block drop inlet protection and curb drop inlet protection.

Inlet protection shall be implemented for all inlets that could potentially be impacted by sediment laden runoff.

7.2.5 Temporary Channels

Temporary channels in the form of diversion swales or berms may be used to intercept and direct runoff under the following applications:

- Above disturbed areas in order to direct and prevent clean runoff from flowing over disturbed areas until the area is permanently stabilized.
- Below disturbed areas to convey sediment laden runoff to sediment traps.
- Across disturbed slopes to reduce slope lengths.

Where used to convey sediment laden runoff, temporary channels shall be equipped with check dams.

7.2.6 Water Bars

Water bars are temporary earth barriers constructed across construction roads used to intercept and divert roadway runoff toward temporary sediment traps or channels, prevent runoff from concentrating, and minimize the potential of gullies from forming. Spacing of water bars is dependent upon the road slope, and shall be installed in accordance with the schedule depicted on the Erosion and Sediment Control detail sheet.

7.2.7 Straw Bale Barriers

Straw bale barriers are used to intercept and contain sediment from disturbed areas of limited size in order to prevent sediment from exiting the site. Bales should be placed in a single row lengthwise along the contour, with ends abutting one another. Straw bales shall be bound and installed so that the bindings are oriented around the sides. Straw bales shall be entrenched a minimum of four (4) inches, backfilled, and anchored using either two stakes or rebar driven through the straw bales to a depth of one and a half (1.5) to two (2) feet below grade.

Straw bales shall be used where no other measure is feasible. They shall not be used where there is a concentration of flow within a channel or other area.

The useful life of a straw bale barrier is three (3) months.

7.2.8 Temporary Soil Stockpiles

Stockpiling of soil is a method of preserving soil and topsoil for regrading and vegetating disturbed areas. Stockpiles shall be located away from environmentally sensitive areas (i.e. wetlands and associated buffers, streams, water bodies) and shall be protected with a peripheral silt fence. Slopes of stockpiles shall not exceed 2:1. Temporary stabilization measures shall be completed within fourteen (14) days of stockpile formation.

7.2.9 Dust Control

Dust control measures reduce the surface and air transport of dust, thereby preventing pollutants from mixing into stormwater. Dust control measures for the construction activities associated within this project consist of windbreaks, minimization of soil disturbance (preserving buffer areas of vegetation where practical), mulching, temporary and permanent vegetation cover, barriers (i.e. geotextile on driving surfaces) and water spraying.

Construction activities shall be scheduled to minimize the amount of area disturbed at any one time.

7.2.10 Temporary Soil Stabilization Practices

Stabilization practices reduce the potential for soil detachment by shielding the soil surface from the impact of rainfall and reducing overland flow velocity.

The Contractor shall initiate stabilization measures as soon as possible in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. This requirement does not apply where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions.

Temporary stabilization practices may include:

7.2.10.1 Mulching

Mulching is a temporary soil stabilization practice. Mulching prevents erosion by protecting soil from raindrop impact and by reducing the velocity of overland flow. Mulching also retains moisture within the soil surface and prevents germination. Where mulching consists of wood chips or shavings, it shall be applied at a rate of 500-900 lbs per 1000 s.f. Where mulching consists of straw, it shall be applied at a rate of 90-100 lbs. per 1000 s.f. All temporary grass areas shall receive a standard application of mulch consisting of straw, unless the area is hydro-seeded.

7.2.10.2 Temporary Seeding

Temporary seeding provides additional benefits over other stabilization practices by creating a vegetation system holding soil particles in place with root systems and maintaining the soils capacity to absorb runoff. Temporary vegetation shall be placed in accordance with project plans. Irrigation shall be used when the soil is dry or when summer plantings are done.

7.2.10.3 Temporary Erosion Control Blanket

A temporary erosion control blanket is a degradable erosion control blanket used to hold seed and soil in place until vegetation is established in disturbed areas. Temporary erosion control blankets insulate and conserve seed moisture thus reducing evaporation and increasing germination rates, and protect seeds from birds. Temporary erosion control blankets may consist of straw blankets, excelsior blankets (curled wood excelsior), coconut fiber blankets, or wood fiber blankets (reprocessed wood fibers which do not possess or contain any growth or germination inhibiting factors).

7.3 Permanent Erosion and Sediment Control Measures

The following permanent measures have been incorporated into the erosion and sediment control plans for the site construction activities.

7.3.1 Outlet Protection

Outlet protection is used to reduce stormwater velocity and dissipate the energy of flow exiting a culvert before discharging into receiving channels. Rip-rap treatment extends between the point

where flows exit the culvert and where the velocity and/or energy from runoff is dissipated to a degree where there is minimal erosion downstream of the discharge point.

A geotextile fabric shall be placed beneath the rip-rap to prevent soil movement into and through the rip-rap.

7.3.2 Permanent Soil Stabilization Practices

Stabilization practices reduce the potential for soil detachment by shielding the soil surface from the impact of rainfall and reducing overland flow velocity.

The Contractor shall initiate stabilization measures as soon as possible in portions of the site where construction activities have permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has permanently ceased.

Permanent stabilization practices may include:

7.3.2.1 Sod

Where exposed soils have the potential to generate off-site sediment loading, sod can provide a immediate form of stabilization and extra protection to a disturbed area. Where applied, sod shall be blue grass or a bluegrass/red fescue mixture or a perennial ryegrass and machine cut with a uniform soil thickness of ¾ inch, plus or minus ¼ inch. Sod shall be used at the discretion of the Owner, unless specifically required by the plans.

7.3.2.2 Permanent Vegetation

Permanent vegetation shall be used to provide a protective cover for exposed areas that have received final grading. Permanent stabilization shall be applied where topsoil has been placed or returned and incorporated into the soil surface. When used, this process shall be followed with the application of straw mulch to protect soil from erosion and seed from drying out. Irrigation shall be used when the soil is dry or when summer plantings are done. Permanent vegetation shall be placed in accordance with project plans.

7.3.2.3 Hydroseeding

Hydroseeding is the hydraulic application of seed and fertilizer onto prepared seed beds. When used, this process shall be followed with the application of straw mulch to protect soil from erosion and seed from drying out. Irrigation shall be used when the soil is dry or when summer plantings are done. Hydroseeding shall be used at the discretion of the Contractor, unless specifically required by the plans.

7.3.2.4 Permanent Erosion Control Blankets

Permanent erosion control blankets are comprised of synthetic materials that form a high strength mat that helps prevent soil erosion in channels and on steep slopes. Stems and roots become intertwined within the matrix, thus reinforcing the vegetation and anchoring the mat. Permanent erosion control blankets insulate and conserve seed moisture thus reducing evaporation and increasing germination rates, and protect seeds from birds. When used within channels, permanent erosion control blankets can aid in the establishment of vegetation and increase the maximum permissible velocity of the given channel by reinforcing the soil and vegetation to resist the forces of erosion during runoff events.

7.4 Erosion and Sediment Control Sequencing Schedule

Implementation schedules for the installation of erosion and sediment control measures prior to and during the course of construction will depend greatly on the actual construction schedule and the varying field conditions that may warrant temporary construction stops and/or work commencing in other locations. The plans include an anticipated construction sequence schedule, of which temporary and permanent erosion and sediment control practices will be required and inspected.

7.5 Maintenance Schedules

Maintenance of the erosion and sediment controls incorporated into this project shall be performed on a regular basis to assure continued effectiveness. This includes repairs and replacement to all erosion and sediment control practices, including cleanout of all sediment retaining measures. Those measures found to be ineffective during routine inspections shall be repaired or replaced and cleaned out (where applicable) before the next anticipated storm event or within 24-hours of being notified, whichever comes first. A more detailed description of the maintenance procedures for the site specific erosion and sediment control practices has been provided on the plan set.

7.6 Construction Staging Areas

Construction staging areas are areas designated within construction sites where most equipment and materials are stored. The locations of the construction staging areas for this project have been shown on the plan set.

7.7 Site Assessments, Inspections and Reporting

Regular inspections of the construction site shall be performed by a qualified professional who is familiar with all aspects of the SWPPP and the implemented control practices. Inspections are intended to identify areas where the pollutant control measures at the site are ineffective and have the potential to allow pollutants to enter water bodies or adjoining properties.

7.7.1 Prior to Construction

Prior to the commencement of construction, a qualified professional shall conduct an inspection of the site and certify in an inspection report that the appropriate erosion and sediment control measures have been installed as indicated by the project plan set and SWPPP. This certification shall be forwarded to the Owner's Representative and Contractor for filing in the construction log book.

A copy of the "Pre-Construction Site Assessment Checklist" has been provided in Appendix J.

7.7.2 During Construction

Following the commencement of construction, a qualified professional shall perform inspections of site construction activities in accordance with the SPDES General Permit. Inspections shall occur every seven (7) calendar days. Refer to Section 1.2 of this SWPPP for additional inspection requirements associated with disturbance of greater than five (5) acres at any time.

For project areas where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the qualified inspector shall conduct a site inspection at least once every thirty (30) calendar days. The

owner or operator shall notify the Regional Office stormwater contact person in writing prior to reducing the frequency of inspections.

For project areas where soil disturbance activities have been shut down with partial project completion, the qualified inspector can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The owner or operator shall notify the Regional Office stormwater contact person in writing prior to the shutdown.

The inspections shall include observation of installed and maintained erosion and sediment control measures for consistency with project specifications and documentation of items to be corrected and recommendations for mitigating concerns. The following information, at minimum, shall be recorded during each inspection:

- Date and time of inspection;
- Name and title of person(s) performing inspection;
- A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;
- A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;
- A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody;
- Identification of all erosion and sediment control practices that need repair or maintenance;
- Identification of all erosion and sediment control practices that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;
- Description and sketch of areas that are disturbed at the time of the inspection and areas that have been stabilized (temporary and/or final) since the last inspection;
- Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;
- Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of

rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water (where applicable);

- Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of the sediment storage volume;

- Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);

- Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The qualified inspector shall attach paper color copies of the digital photographs to the inspection report being maintained on site within seven (7) calendar days of the date of the inspection. The qualified inspector shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The qualified inspector shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection

- A brief description of any erosion and sediment control practice repairs, maintenance or installations made as a result of previous inspection; and

- All deficiencies that are identified with the implementation of the SWPPP.

Summary reports shall be forwarded to the Owner's Representative and Contractor. Reports shall be incorporated into the construction log book. Within one business day of the completion of an inspection, the qualified inspector shall notify the owner or operator and appropriate contractor or subcontractor of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.

A copy of the "Construction" inspection report has been provided in Appendix P.

7.7.3 Quarterly Report

The Owner shall prepare a written summary of its status with respect to compliance with the SPDES General Permit at a minimum frequency of every three months during which coverage under the permit exists. The summary should address the status of achieving each component of the SWPPP. The report shall include the overall performance of the stormwater facilities, average, minimum and maximum depths of sediment within the stormwater facilities, the physical condition of all drainage structures, maintenance reports from the previous year, and any recommendations for any repairs, modifications or adjustments to the stormwater facilities.

7.7.4 End of Term

Termination of coverage under SPDES General Permit is accomplished by filing a Notice of Termination with the NYSDEC. Prior to the filing of the Notice of Termination (NOT), the Owner shall have a qualified professional perform a final site inspection. The qualified professional shall certify that the site has undergone final stabilization using either vegetative or structural stabilization methods, that all temporary erosion and sediment control structures have been removed, and that all permanent erosion control and stormwater facilities have been installed and are operational in conformance with the SWPPP by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The owner or operator shall then submit the completed NOT form to the NYSDEC. "Final stabilization" means that all soil disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (80) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextile) have been employed on all unpaved areas and area not covered by permanent structures.

A NOT is provided in Appendix Q.

7.8 Construction Log Book

The construction log book shall be maintained on-site from the date of initiation of construction activities to the date of final stabilization and shall be made available to the permitting authority upon request. The construction log book shall contain a record of all inspections; preparer's, qualified professional's, owner's/operator's, contractor's, and sub-contractor's (if applicable) certifications; and weekly and quarterly reports.

7.9 Long Term Landscape Inspection and Maintenance of Stormwater System

7.9.1 Deep Sump Catch Basins and Piping

All catch basins shall be inspected after each storm event for sediment accumulation, and debris, and remove as necessary. When sediment accumulation within the catch basin sump reaches 1/2 of the sump depth, it shall be removed. Associated piping shall be inspected annually and accumulated sediment shall be removed as needed.

8.0 GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES

The following good housekeeping and material management practices shall be followed to reduce the risk of spills or exposure of materials to stormwater runoff.

8.1 Waste Materials

All waste material, including but not limited to trash and construction debris, generated during construction shall be collected and stored in a proper receptacle in accordance with Federal, State, County and Local regulations. No waste material shall be buried on-site. All collected waste material shall be hauled to an approved waste disposal facility.

8.2 Chemical

Chemicals used on-site shall be kept in small quantities and stored in closed water tight containers undercover in a neat and orderly manner and kept out of direct contact with stormwater. Chemical products shall not be mixed with one another unless recommended by manufacturer.

All on-site personnel shall have access to material safety data sheets (MSDS) and National Institute for Occupational Safety and Health (NIOSH) Guide to Chemical Hazards (latest edition) for all chemicals stored and used on-site.

Manufacturer's and/or Federal, State, County and Local guidelines for proper use and disposal shall be followed. Any spills or contamination of runoff with chemicals shall be contained, collected, cleaned up immediately and disposed of in accordance with Federal, State, County and Local regulations.

8.3 Fuels and Oil

All on-site vehicles, tools, and construction equipment shall be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. On-site vehicle and equipment refueling shall be conducted at a location away from access to surface waters and runoff. Any on-site storage tanks shall have a means of secondary containment. Oil products shall be kept in their original containers with original manufacturer's label. In the event of a spill, it shall be contained, cleaned up immediately and the material, including any contaminated soil, shall be disposed of in accordance with Federal, State, County and Local regulations.

Fuel and oil spills in excess of reportable quantities shall be reported to the NYSDEC as soon as the discharge is discovered.

8.4 Fertilizers

Fertilizers used on-site shall be stored in closed water tight containers undercover in a neat orderly manner and kept out of direct contact with stormwater. Manufacturer's and/or Federal, State, County and Local guidelines for proper use and disposal shall be followed. Any spills or contamination of runoff with fertilizers shall be contained, collected, cleaned up immediately, and disposed of in accordance with Federal, State, County and Local regulations.

8.5 Paint

Paints used on-site shall be stored in closed, water tight containers undercover in a neat and orderly manner and kept out of direct contact with stormwater. Manufacturer's and/or Federal, State, County and Local guidelines for proper use and disposal shall be followed. Any spills or contamination of runoff with paint shall be contained, collected, cleaned up immediately, and disposed of in accordance with Federal, State, County and Local regulations.

8.6 Sanitary Waste Facilities

Should portable units be located on-site, they shall placed in upland areas away from direct contact with surface waters. They shall be serviced and cleaned on a weekly basis by a licensed portable toilet and septic disposal service. Any spills occurring during service shall be cleaned up immediately and disposed of in accordance with Federal, State, County, and Local regulations.

8.7 Container Disposal

All of a product shall be used up before disposal of the container. Empty containers that may contain chemical residue shall be disposed of in accordance with Federal, State, County and Local regulations.

8.8 Concrete and Asphalt Trucks

Concrete and asphalt trucks shall not be allowed to wash out or discharge surplus material on-site.

8.9 Site Supervisor

It shall be the responsibility of the Contractor's Site Supervisor to inspect daily and ensure the proper use, storage and disposal of all on-site materials.

9.0 SWPPP AMENDMENT

The SWPPP shall be updated by a licensed professional engineer whenever any of the following apply:

1) There is a significant change in design, construction, operation or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP.
2) The SWPPP proves to be ineffective in:
    - Eliminating or significantly minimizing pollutants from sources identified in the SWPPP required by the SPDES Permit; or
    - Achieving the general objective of controlling pollutants in stormwater discharges from permitted construction activity.
3) Identify any new contractor or subcontractor that will implement any measure of the SWPPP.
4) NYSDEC notifies the Permittee that the SWPPP does not meet one or more of the minimum requirements of the SPDES Permit. Within seven (7) days of such notification or as provided for by the NYSDEC, the Permittee shall make amendments to the SWPPP and submit to the NYSDEC a written certification that the requested changes have been made.

Since this project is subject to the requirements of a regulated, traditional land use control MS4, the owner or operator shall notify the MS4 in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP. Unless otherwise notified by the MS4, the owner or operator shall have the SWPPP amendments or modifications reviewed and accepted by the MS4 prior to commencing construction of the post-construction stormwater management practice.

10.0 CONTRACTOR CERTIFICATIONS

All contractors and subcontractors that have any responsibility to install, inspect or maintain erosion or sediment control measures shall sign a copy of the certification statement included in Appendix L before undertaking any construction activity at the site identified in the SWPPP.

11.0 OWNER/OPERATOR CERTIFICATION

The Owner/Operator must review and sign the owner/operator certification statement included in Appendix N.

12.0 CONCLUSIONS

This SWPPP demonstrates that the proposed project generally meets the requirements of SPDES GP-0-015-002, as follows:

- An erosion and sediment control plan in accordance with the latest revision to the New York State Standards and Specifications for Erosion and Sediment Control, January 2015, has been developed for the project and is included in the site plan set.
- Hydrologic and Hydraulic calculations for all storm events modeled will demonstrate that the resulting stormwater runoff from the development, exiting the site will not adversely impact offsite properties, stormwater conveyance systems or receiving water bodies. Temporary and permanent stormwater systems and facilities are designed in accordance with the latest revision to the New York State Stormwater Management Design Manual, January 2015.
- The project has been designed to capture and treat 90% of the average annual stormwater runoff from the development through approved water quality measures in all available areas.
- The green infrastructure practices capture a minimum of 25% of the required runoff reduction volume (RRv).

APPENDIX A

NOTICE OF INTENT AND MS4 ACCEPTANCE

4364234792

NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR _____
(for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-10-001

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-
RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)

Owner/Operator Contact Person Last Name (NOT CONSULTANT)

Owner/Operator Contact Person First Name

Owner/Operator Mailing Address

City

State Zip -

Phone (Owner/Operator) - -

Fax (Owner/Operator) - -

Email (Owner/Operator)

FED TAX ID - (not required for individuals)

Project Site Information

Project/Site Name

Street Address (NOT P.O. BOX)

Side of Street
○ **North** ○ **South** ○ **East** ○ **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)

State N Y Zip - County DEC Region

Name of Nearest Cross Street

Distance to Nearest Cross Street (Feet)

Project In Relation to Cross Street
○ **North** ○ **South** ○ **East** ○ **West**

Tax Map Numbers
Section-Block-Parcel

Tax Map Numbers

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting)

Y Coordinates (Northing) 4

2. What is the nature of this construction project?

○ **New Construction**

○ **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use

- ○ FOREST
- ○ PASTURE/OPEN LAND
- ○ CULTIVATED LAND
- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ○ COMMERCIAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY
- ○ PARKING LOT
- ○ OTHER

Post-Development Future Land Use

- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION — Number of Lots
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ○ COMMERCIAL
- ○ MUNICIPAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY (water, sewer, gas, etc.)
- ○ PARKING LOT
- ○ CLEARING/GRADING ONLY
- ○ DEMOLITION, NO REDEVELOPMENT
- ○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
- ○ OTHER

***Note**: for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	**Total Area To Be Disturbed**	**Existing Impervious Area To Be Disturbed**	**Future Impervious Area Within Disturbed Area**
.	.	.	.

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ○ **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	**B**	**C**	**D**
%	%	%	%

7. Is this a phased project? ○ **Yes** ○ **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date / / - **End Date** / /

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ○ Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-10-001? ○ **Yes** ○ **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-10-001? ○ **Yes** ○ **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ○ **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ **Yes** ○ **No**
If Yes, what is the acreage to be disturbed?

.

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ○ **No**

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ○ **Yes** ○ **No** ○ **Unknown**

16. What is the name of the municipality/entity that owns the separate storm sewer system?

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ **Yes** ○ **No** ○ **Unknown**

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ **Yes** ○ **No**

19. Is this property owned by a state authority, state agency, federal government or local government? ○ **Yes** ○ **No**

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ **Yes** ○ **No**

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ○ **Yes** ○ **No**

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ○ **Yes** ○ **No**
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ○ **Yes** ○ **No**

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ○ **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer

Contact Name (Last, Space, First)

Mailing Address

City

State Zip -

Phone - -

Fax - -

Email

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-10-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name **MI**

Last Name

Signature

Date / /

25. Has a construction sequence schedule for the planned management practices been prepared? ○ Yes ○ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ○ Silt Fence
- ○ Stabilized Construction Entrance
- ○ Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ○ Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ○ Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ○ Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ○ **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ○ **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ○ **Roadway Reduction**
- ○ **Sidewalk Reduction**
- ○ **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ○ **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ○ All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).

- ○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

			.			
			.			**acre-feet**

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area(acres)
RR Techniques (Area Reduction)			
○ Conservation of Natural Areas (RR-1) ...	___.___	and/or	___.___
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)	___.___	and/or	___.___
○ Tree Planting/Tree Pit (RR-3)	___.___	and/or	___.___
○ Disconnection of Rooftop Runoff (RR-4)..	___.___	and/or	___.___
RR Techniques (Volume Reduction)			
○ Vegetated Swale (RR-5)			___.___
○ Rain Garden (RR-6)			___.___
○ Stormwater Planter (RR-7)			___.___
○ Rain Barrel/Cistern (RR-8)			___.___
○ Porous Pavement (RR-9)			___.___
○ Green Roof (RR-10)			___.___
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			___.___
○ Infiltration Basin (I-2)			___.___
○ Dry Well (I-3)			___.___
○ Underground Infiltration System (I-4)			___.___
○ Bioretention (F-5)			___.___
○ Dry Swale (O-1)			___.___
Standard SMPs			
○ Micropool Extended Detention (P-1)			___.___
○ Wet Pond (P-2)			___.___
○ Wet Extended Detention (P-3)			___.___
○ Multiple Pond System (P-4)			___.___
○ Pocket Pond (P-5)			___.___
○ Surface Sand Filter (F-1)			___.___
○ Underground Sand Filter (F-2)			___.___
○ Perimeter Sand Filter (F-3)			___.___
○ Organic Filter (F-4)			___.___
○ Shallow Wetland (W-1)			___.___
○ Extended Detention Wetland (W-2)			___.___
○ Pond/Wetland System (W-3)			___.___
○ Pocket Wetland (W-4)			___.___
○ Wet Swale (O-2)			___.___

Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area(acres)
○ Hydrodynamic	
○ Wet Vault	
○ Media Filter	
○ Other _____	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

_____ **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ○ **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

_____ **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

○ **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). [ ][ ][ ].[ ][ ][ ]

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ○ **Yes** ○ **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

[ ][ ][ ].[ ][ ][ ] **acre-feet**

CPv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

[ ][ ][ ].[ ][ ][ ] **CFS**

Post-development

[ ][ ][ ].[ ][ ][ ] **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

[ ][ ][ ].[ ][ ][ ] **CFS**

Post-development

[ ][ ][ ].[ ][ ][ ] **CFS**

37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ○ **Yes** ○ **No**

If Yes, Identify the entity responsible for the long term Operation and Maintenance

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ][ ]
- ○ Other [ ]
- ○ None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ○ **No**
If Yes, Indicate Size of Impact. [ ][ ][ ][ ][ ].[ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ○ **Yes** ○ **No**
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ○ **Yes** ○ **No**

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. [N][Y][R][ ][ ][ ][ ][ ][ ]

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name **MI**

Print Last Name

Owner/Operator Signature

Date / /

NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information	
1. Owner/Operator Name:	Weber Projects III, LLC
2. Contact Person:	Rodney Weber
3. Street Address:	1 Churchill Street
4. City/State/Zip:	Beacon, NY 12508
II. Project Site Information	
5. Project/Site Name:	23-28 Creek Drive
6. Street Address:	23-28 Creek Drive
7. City/State/Zip:	Beacon, NY 12508
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	Michael A. Bodendorf, P.E.
9. Title/Position:	Professional Engineer
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4:	City of Beacon
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Contact Person:	
14. Street Address:	
15. City/State/Zip:	
16. Telephone Number:	

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)

APPENDIX B

SOILS DATA

Hydrologic Soil Group—Dutchess County, New York
(23-28 Creek Drive)

Map Scale: 1:1,590 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 20 40 80 120

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Soil Rating Lines

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Soil Rating Points

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Water Features

Streams and Canals

Transportation

Rails
Interstate Highways
US Routes
Major Roads
Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dutchess County, New York
Survey Area Data: Version 15, Sep 2, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 7, 2013—Feb 26, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ud	Udorthents, smoothed	A	3.6	100.0%
W	Water		0.0	0.0%
Totals for Area of Interest			**3.6**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

APPENDIX C

RAINFALL DATA, NYSDEC ERM, FLOOD MAP AND WETLAND MAP

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Smoothing	Yes
State	New York
Location	
Longitude	73.966 degrees West
Latitude	41.500 degrees North
Elevation	0 feet
Date/Time	Mon, 22 Oct 2018 17:12:12 -0400

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.33	0.50	0.62	0.82	1.02	1.27	**1yr**	0.88	1.20	1.45	1.77	2.15	2.61	2.96	**1yr**	2.31	2.85	3.29	3.96	4.59	**1yr**
2yr	0.39	0.60	0.74	0.98	1.23	1.53	**2yr**	1.06	1.43	1.75	2.15	2.61	3.17	3.57	**2yr**	2.80	3.44	3.94	4.64	5.29	**2yr**
5yr	0.46	0.71	0.89	1.19	1.52	1.92	**5yr**	1.32	1.76	2.20	2.70	3.29	3.97	4.53	**5yr**	3.51	4.35	5.01	5.79	6.54	**5yr**
10yr	0.51	0.80	1.02	1.38	1.79	2.27	**10yr**	1.55	2.07	2.62	3.22	3.91	4.71	5.42	**10yr**	4.17	5.21	6.01	6.84	7.69	**10yr**
25yr	0.60	0.95	1.21	1.67	2.23	2.85	**25yr**	1.92	2.56	3.30	4.06	4.94	5.92	6.87	**25yr**	5.24	6.61	7.65	8.53	9.53	**25yr**
50yr	0.68	1.09	1.39	1.95	2.62	3.38	**50yr**	2.26	3.00	3.93	4.84	5.87	7.04	8.23	**50yr**	6.23	7.91	9.19	10.09	11.21	**50yr**
100yr	0.77	1.24	1.60	2.27	3.10	4.03	**100yr**	2.68	3.53	4.68	5.78	7.00	8.37	9.86	**100yr**	7.41	9.48	11.04	11.94	13.20	**100yr**
200yr	0.87	1.43	1.85	2.65	3.67	4.79	**200yr**	3.16	4.15	5.58	6.90	8.35	9.96	11.82	**200yr**	8.81	11.37	13.28	14.13	15.55	**200yr**
500yr	1.05	1.73	2.25	3.27	4.59	6.03	**500yr**	3.96	5.15	7.04	8.71	10.54	12.55	15.03	**500yr**	11.10	14.46	16.96	17.67	19.33	**500yr**

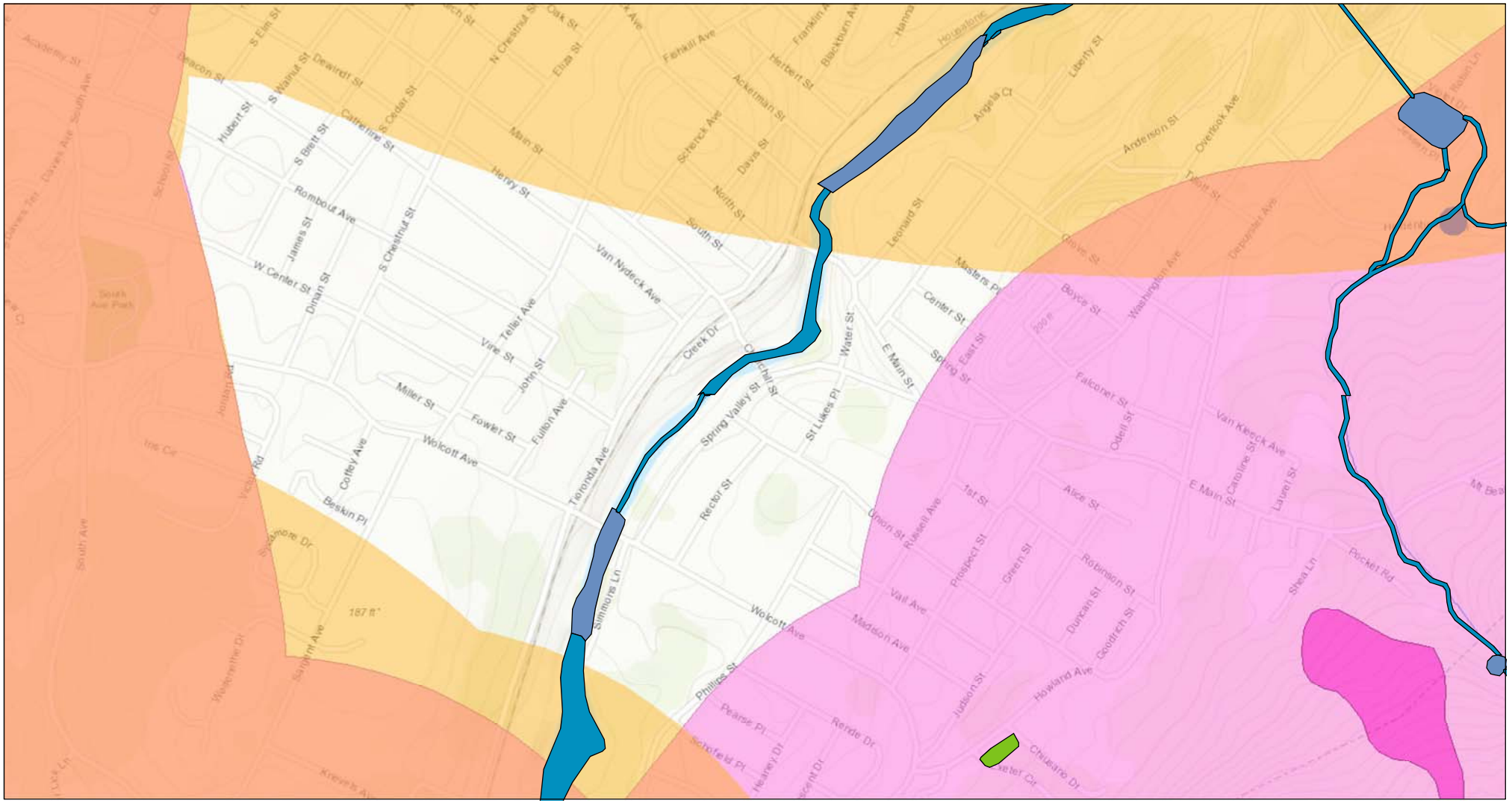
Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.28	0.44	0.53	0.72	0.88	1.09	**1yr**	0.76	1.06	1.25	1.60	2.01	2.08	2.36	**1yr**	1.84	2.27	2.59	3.32	4.16	**1yr**
2yr	0.37	0.58	0.71	0.96	1.19	1.42	**2yr**	1.03	1.39	1.61	2.06	2.59	3.08	3.46	**2yr**	2.72	3.33	3.79	4.49	5.14	**2yr**
5yr	0.42	0.65	0.81	1.11	1.41	1.66	**5yr**	1.22	1.62	1.88	2.42	3.01	3.67	4.18	**5yr**	3.25	4.02	4.59	5.31	6.09	**5yr**
10yr	0.47	0.72	0.90	1.25	1.62	1.85	**10yr**	1.40	1.81	2.12	2.72	3.38	4.16	4.83	**10yr**	3.69	4.65	5.28	6.02	6.92	**10yr**
25yr	0.54	0.82	1.03	1.46	1.93	2.14	**25yr**	1.66	2.09	2.46	3.06	3.94	4.89	5.85	**25yr**	4.33	5.63	6.36	7.10	8.19	**25yr**
50yr	0.60	0.92	1.15	1.65	2.22	2.38	**50yr**	1.91	2.33	2.77	3.42	4.44	5.54	6.77	**50yr**	4.91	6.51	7.32	8.05	9.33	**50yr**
100yr	0.68	1.03	1.29	1.87	2.56	2.68	**100yr**	2.21	2.62	3.13	3.81	5.02	6.24	7.85	**100yr**	5.53	7.55	8.43	9.11	10.63	**100yr**
200yr	0.77	1.16	1.47	2.13	2.98	2.99	**200yr**	2.57	2.93	3.54	4.28	5.67	6.99	9.12	**200yr**	6.19	8.77	9.72	10.30	12.13	**200yr**
500yr	0.92	1.37	1.76	2.56	3.65	3.49	**500yr**	3.15	3.41	4.19	4.99	6.70	8.13	11.14	**500yr**	7.20	10.72	11.73	12.10	14.45	**500yr**

Upper Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.36	0.56	0.68	0.92	1.13	1.36	**1yr**	0.97	1.33	1.53	1.97	2.43	2.82	3.20	**1yr**	2.49	3.08	3.57	4.25	4.93	**1yr**
2yr	0.40	0.62	0.77	1.04	1.28	1.54	**2yr**	1.10	1.51	1.74	2.25	2.80	3.34	3.71	**2yr**	2.95	3.56	4.10	4.82	5.47	**2yr**
5yr	0.49	0.76	0.94	1.29	1.64	1.96	**5yr**	1.42	1.91	2.26	2.89	3.66	4.26	4.88	**5yr**	3.77	4.70	5.41	6.28	7.01	**5yr**
10yr	0.58	0.89	1.11	1.55	2.00	2.37	**10yr**	1.72	2.31	2.74	3.53	4.49	5.21	6.01	**10yr**	4.61	5.78	6.70	7.69	8.48	**10yr**
25yr	0.72	1.10	1.37	1.95	2.57	3.05	**25yr**	2.22	2.98	3.57	4.73	5.88	6.79	7.92	**25yr**	6.01	7.62	8.92	10.04	10.93	**25yr**
50yr	0.85	1.29	1.61	2.32	3.12	3.70	**50yr**	2.69	3.62	4.35	5.83	7.21	8.32	9.76	**50yr**	7.37	9.39	11.09	12.30	13.24	**50yr**
100yr	1.01	1.52	1.91	2.75	3.78	4.50	**100yr**	3.26	4.40	5.30	7.20	8.83	10.20	12.02	**100yr**	9.03	11.56	13.78	15.10	16.05	**100yr**
200yr	1.19	1.79	2.26	3.28	4.57	5.45	**200yr**	3.94	5.33	6.47	8.86	10.82	12.52	14.82	**200yr**	11.08	14.25	17.15	18.53	19.46	**200yr**
500yr	1.49	2.22	2.85	4.14	5.89	7.05	**500yr**	5.08	6.89	8.41	11.70	14.17	16.44	19.52	**500yr**	14.55	18.77	22.91	24.33	25.10	**500yr**

23-28 Creek Drive



October 23, 2018

1:9,028

0 0.1 0.2 0.4 mi

0 0.175 0.35 0.7 km

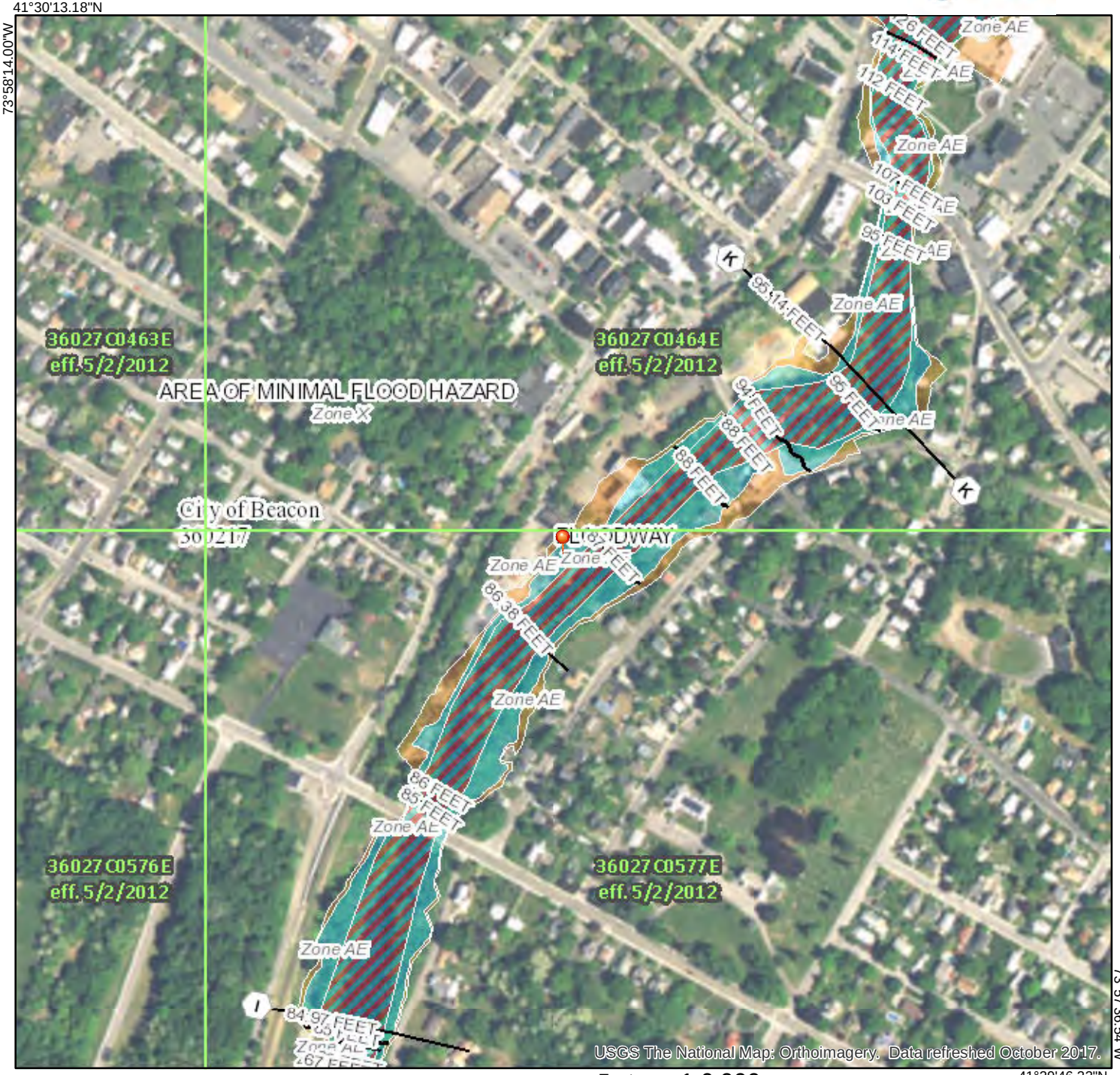
Author: HLD
Not a legal document

National Flood Hazard Layer FIRMette

FEMA

41°30'13.18"N

73°58'14.00"W



41°29'46.23"N

73°57'36.54"W

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/23/2018 at 9:53:29 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

U.S. Fish and Wildlife Service
National Wetlands Inventory

23-28 CREEK ROAD

October 22, 2018

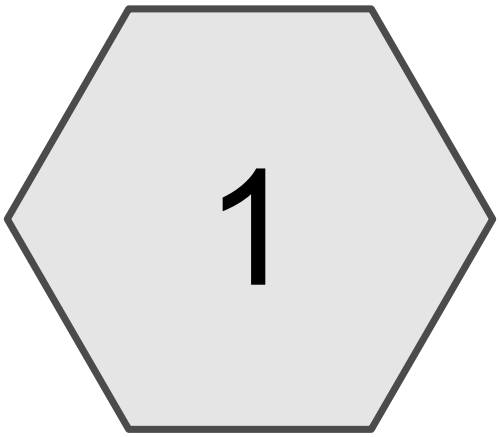
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

APPENDIX D

PRE-DEVELOPMENT HYDROCAD MODEL



SUBCATCHMENT 1

Subcat Reach Pond Link

Routing Diagram for PRE
Prepared by Hudson Land Design, P.C. , Printed 10/23/2018

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.234	30	Meadow, non-grazed, HSG A (1)
1.117	98	Paved parking, HSG A (1)
1.337	30	Woods, Good, HSG A (1)

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
3.688	HSG A	1
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.000	Other	

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
1.234	0.000	0.000	0.000	0.000	1.234	Meadow, non-grazed	1
1.117	0.000	0.000	0.000	0.000	1.117	Paved parking	1
1.337	0.000	0.000	0.000	0.000	1.337	Woods, Good	1

Summary for Subcatchment 1: SUBCATCHMENT 1

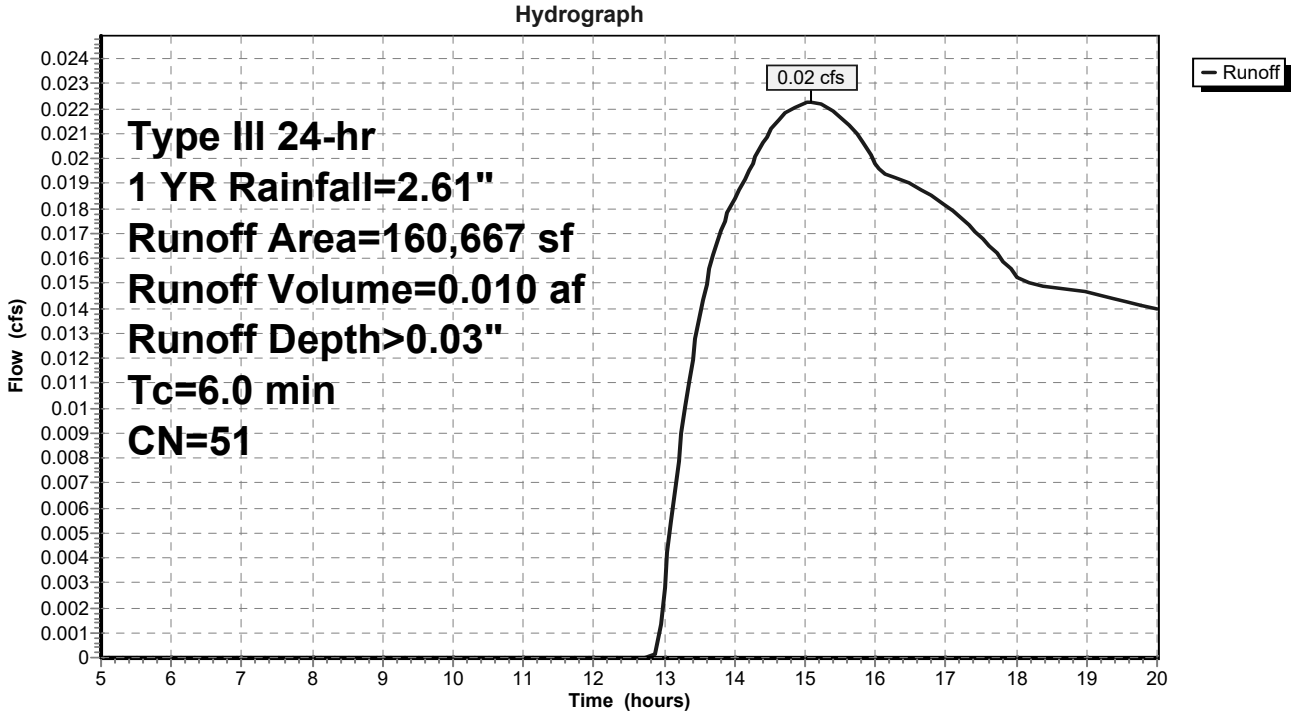
Runoff = 0.02 cfs @ 15.08 hrs, Volume= 0.010 af, Depth> 0.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 1 YR Rainfall=2.61"

Area (sf)	CN	Description
48,660	98	Paved parking, HSG A
58,238	30	Woods, Good, HSG A
53,769	30	Meadow, non-grazed, HSG A
160,667	51	Weighted Average
112,007		69.71% Pervious Area
48,660		30.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, S1**

Subcatchment 1: SUBCATCHMENT 1



Summary for Subcatchment 1: SUBCATCHMENT 1

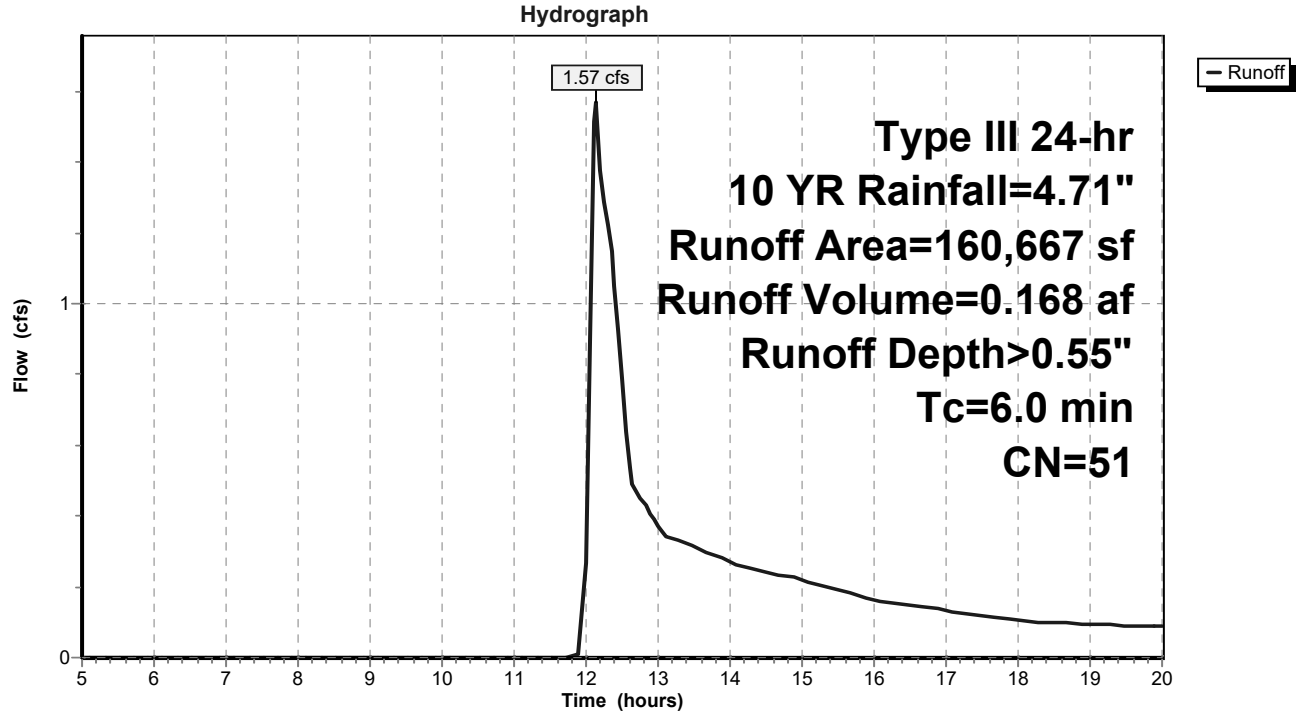
Runoff = 1.57 cfs @ 12.13 hrs, Volume= 0.168 af, Depth> 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 YR Rainfall=4.71"

Area (sf)	CN	Description
48,660	98	Paved parking, HSG A
58,238	30	Woods, Good, HSG A
53,769	30	Meadow, non-grazed, HSG A
160,667	51	Weighted Average
112,007		69.71% Pervious Area
48,660		30.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, S1**

Subcatchment 1: SUBCATCHMENT 1



Summary for Subcatchment 1: SUBCATCHMENT 1

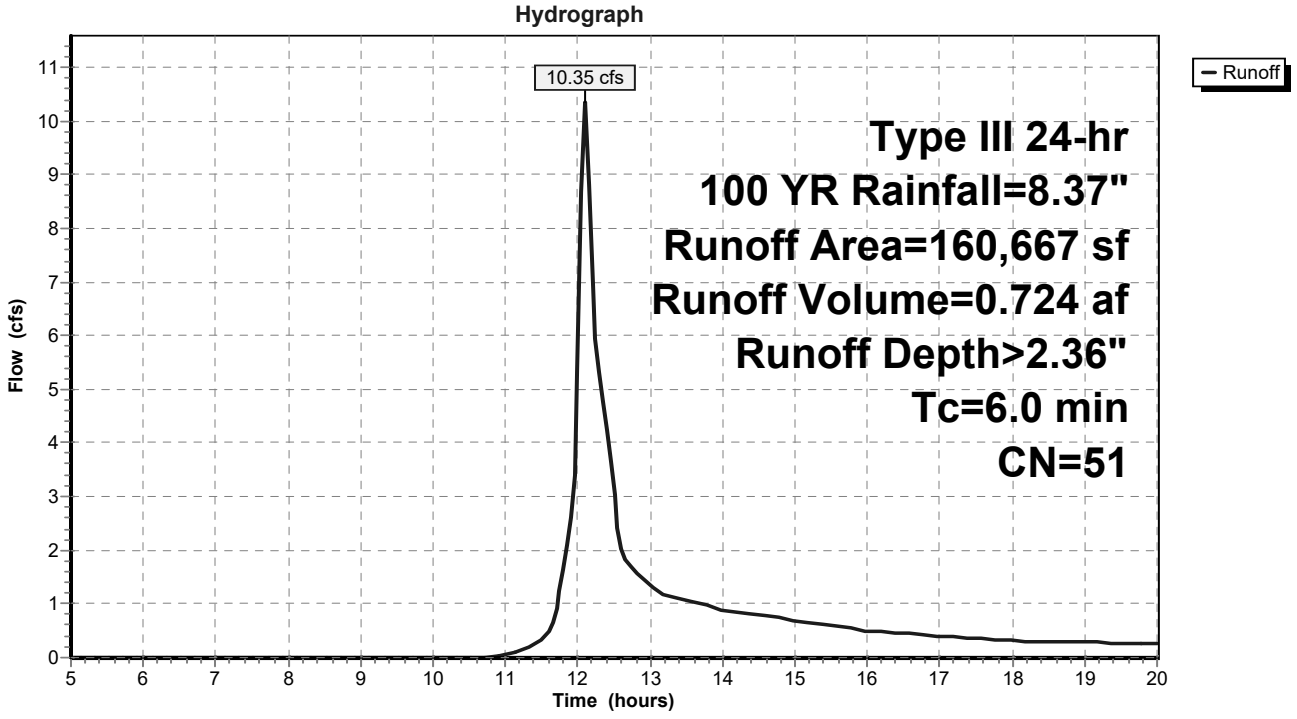
Runoff = 10.35 cfs @ 12.10 hrs, Volume= 0.724 af, Depth> 2.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 YR Rainfall=8.37"

Area (sf)	CN	Description
48,660	98	Paved parking, HSG A
58,238	30	Woods, Good, HSG A
53,769	30	Meadow, non-grazed, HSG A
160,667	51	Weighted Average
112,007		69.71% Pervious Area
48,660		30.29% Impervious Area

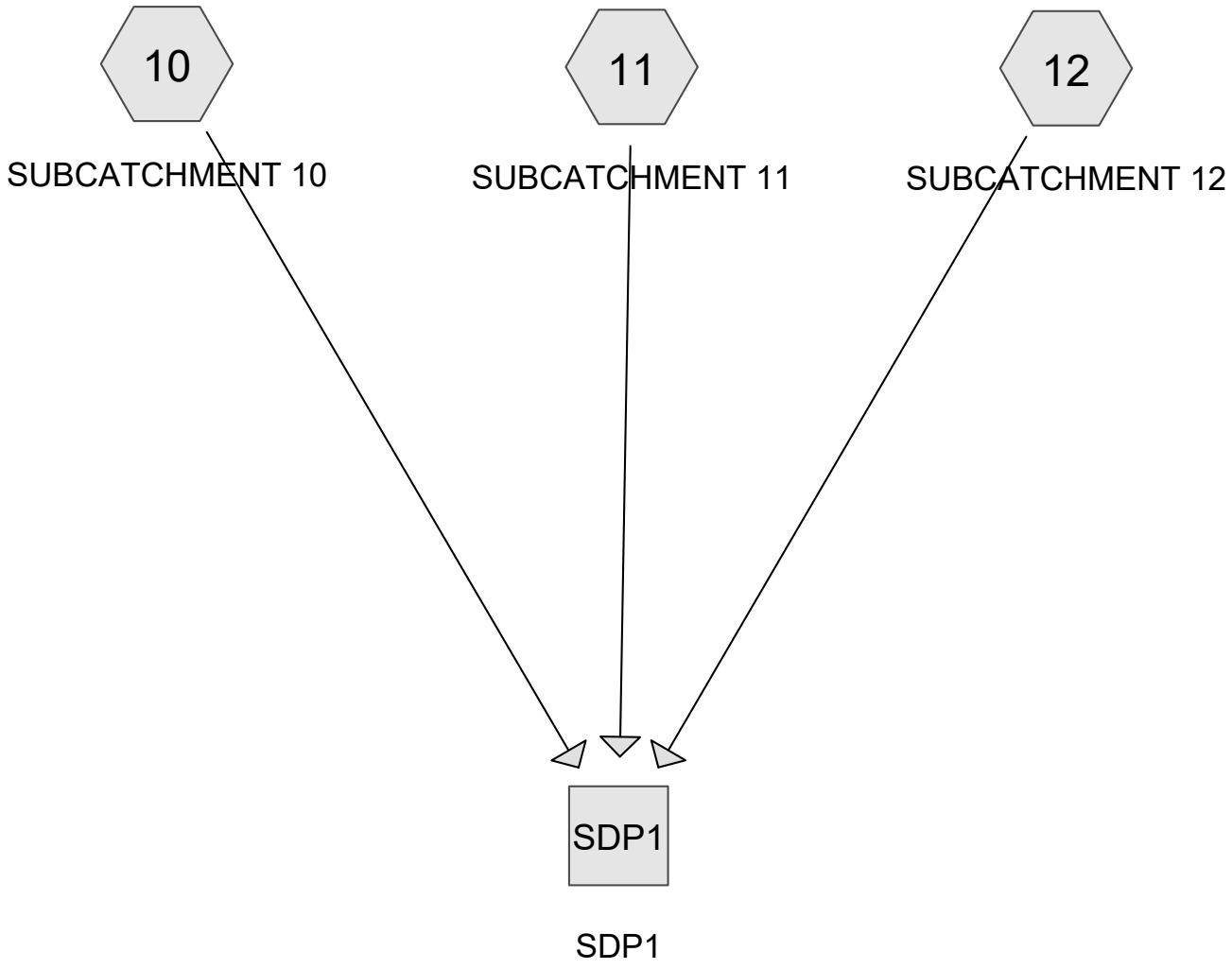
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, S1**

Subcatchment 1: SUBCATCHMENT 1



APPENDIX E

POST-DEVELOPMENT HYDROCAD MODEL



Subcat Reach Pond Link

Routing Diagram for POST
Prepared by Hudson Land Design, P.C. , Printed 10/23/2018

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.136	39	>75% Grass cover, Good, HSG A (10, 11, 12)
0.189	96	Gravel surface, HSG A (10, 11)
1.047	98	Paved parking, HSG A (10, 11, 12)
1.317	30	Woods, Good, HSG A (10, 11, 12)

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
3.688	HSG A	10, 11, 12
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.000	Other	

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
1.136	0.000	0.000	0.000	0.000	1.136	>75% Grass cover, Good	10, 11, 12
0.189	0.000	0.000	0.000	0.000	0.189	Gravel surface	10, 11
1.047	0.000	0.000	0.000	0.000	1.047	Paved parking	10, 11, 12
1.317	0.000	0.000	0.000	0.000	1.317	Woods, Good	10, 11, 12

Summary for Subcatchment 10: SUBCATCHMENT 10

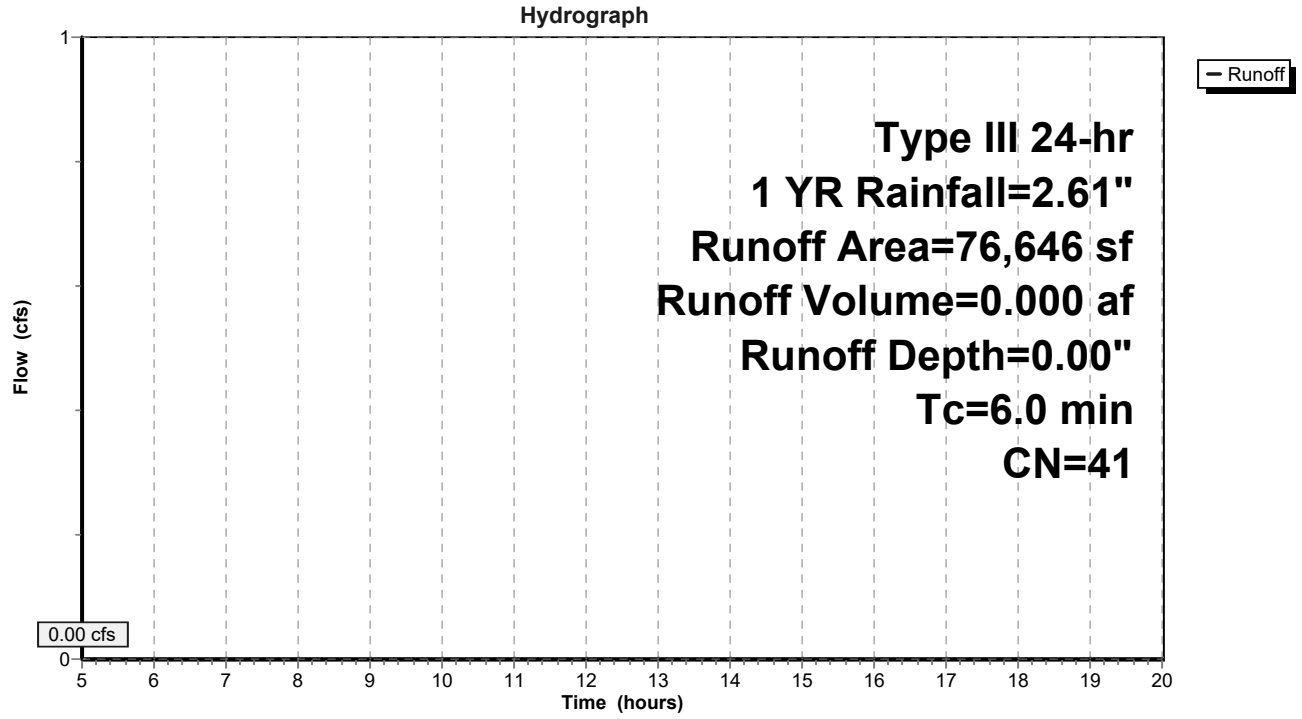
Runoff = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 1 YR Rainfall=2.61"

Area (sf)	CN	Description
740	98	Paved parking, HSG A
37,514	30	Woods, Good, HSG A
30,748	39	>75% Grass cover, Good, HSG A
7,644	96	Gravel surface, HSG A
76,646	41	Weighted Average
75,906		99.03% Pervious Area
740		0.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, s1**

Subcatchment 10: SUBCATCHMENT 10



Summary for Subcatchment 11: SUBCATCHMENT 11

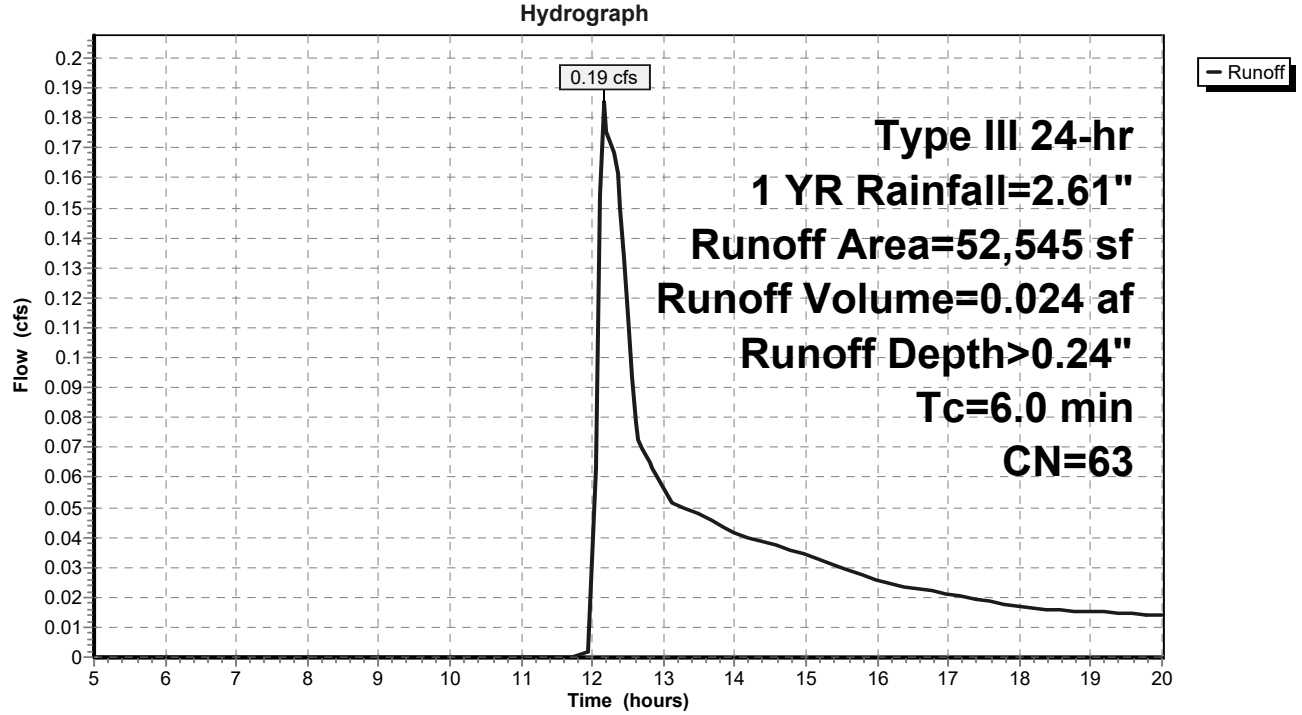
Runoff = 0.19 cfs @ 12.16 hrs, Volume= 0.024 af, Depth> 0.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 1 YR Rainfall=2.61"

Area (sf)	CN	Description
22,913	98	Paved parking, HSG A
14,078	30	Woods, Good, HSG A
14,970	39	>75% Grass cover, Good, HSG A
584	96	Gravel surface, HSG A
52,545	63	Weighted Average
29,632		56.39% Pervious Area
22,913		43.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, S1**

Subcatchment 11: SUBCATCHMENT 11



Summary for Subcatchment 12: SUBCATCHMENT 12

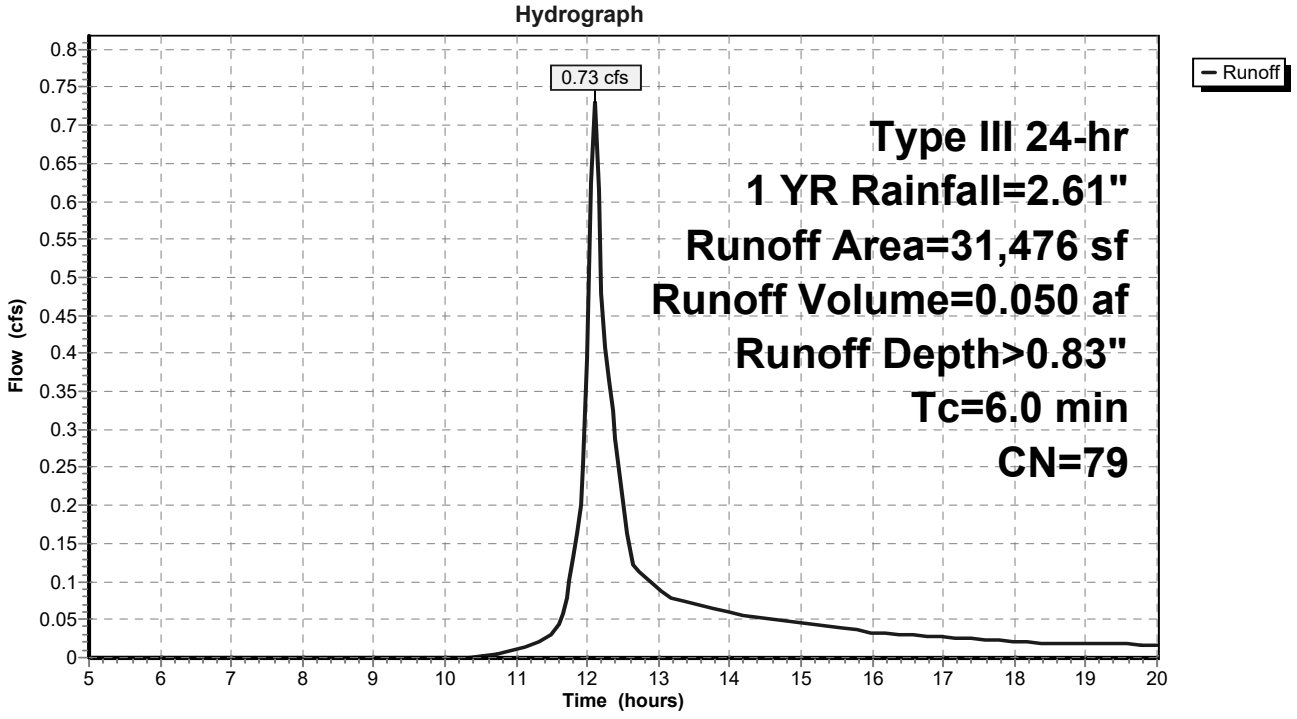
Runoff = 0.73 cfs @ 12.10 hrs, Volume= 0.050 af, Depth> 0.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 1 YR Rainfall=2.61"

Area (sf)	CN	Description
21,963	98	Paved parking, HSG A
5,758	30	Woods, Good, HSG A
3,755	39	>75% Grass cover, Good, HSG A
31,476	79	Weighted Average
9,513		30.22% Pervious Area
21,963		69.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, S1**

Subcatchment 12: SUBCATCHMENT 12

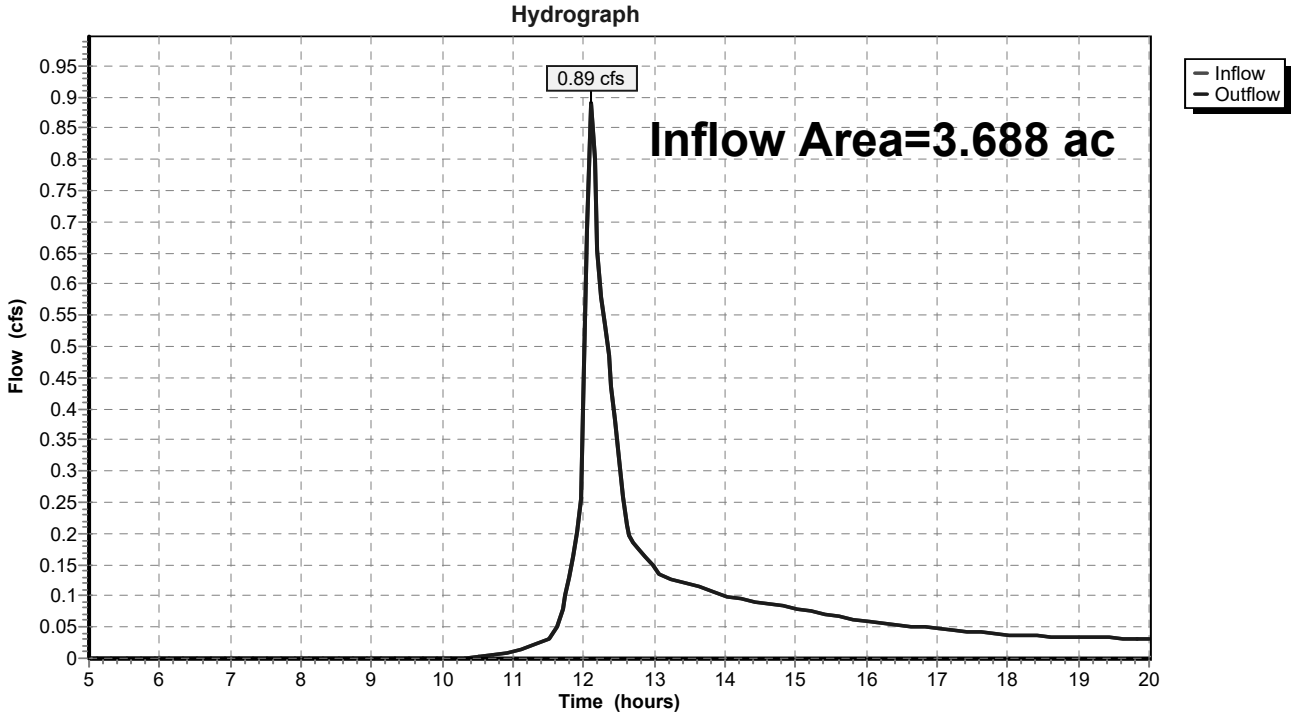


Summary for Reach SDP1: SDP1

Inflow Area = 3.688 ac, 28.39% Impervious, Inflow Depth > 0.24" for 1 YR event
Inflow = 0.89 cfs @ 12.11 hrs, Volume= 0.075 af
Outflow = 0.89 cfs @ 12.11 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach SDP1: SDP1



Summary for Subcatchment 10: SUBCATCHMENT 10

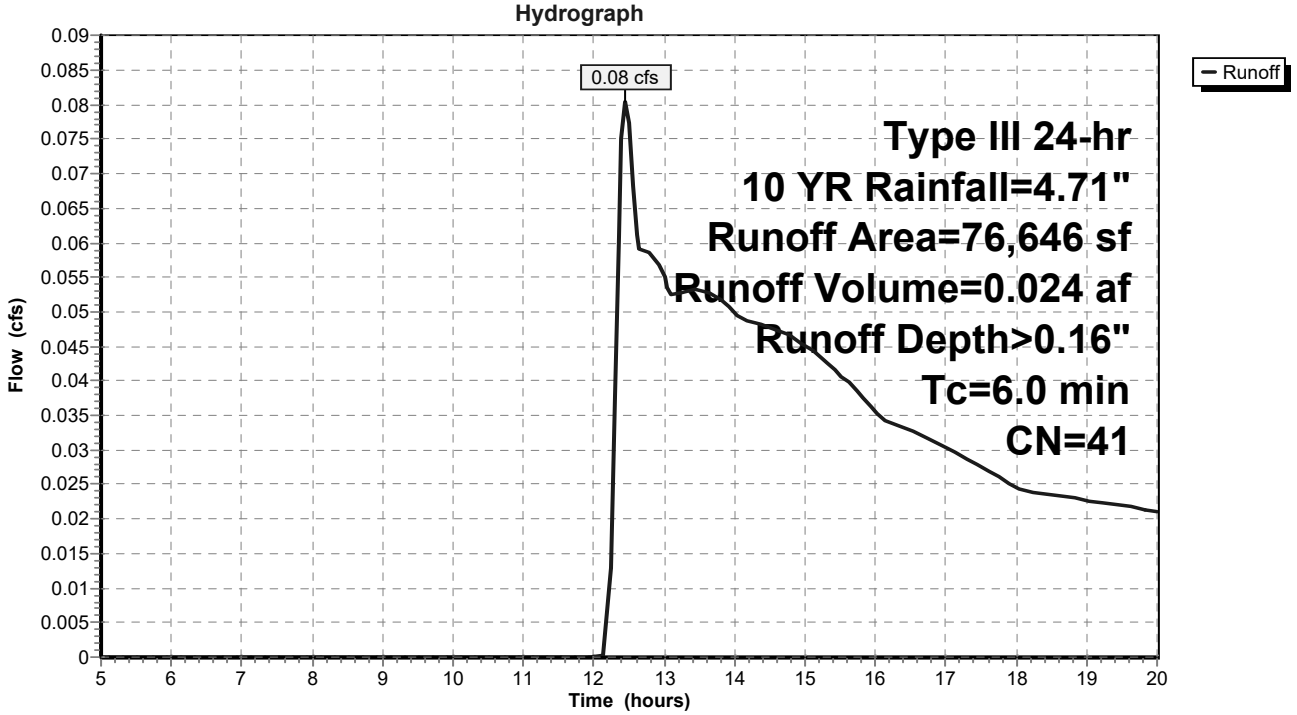
Runoff = 0.08 cfs @ 12.46 hrs, Volume= 0.024 af, Depth> 0.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 YR Rainfall=4.71"

Area (sf)	CN	Description
740	98	Paved parking, HSG A
37,514	30	Woods, Good, HSG A
30,748	39	>75% Grass cover, Good, HSG A
7,644	96	Gravel surface, HSG A
76,646	41	Weighted Average
75,906		99.03% Pervious Area
740		0.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, s1**

Subcatchment 10: SUBCATCHMENT 10



Summary for Subcatchment 11: SUBCATCHMENT 11

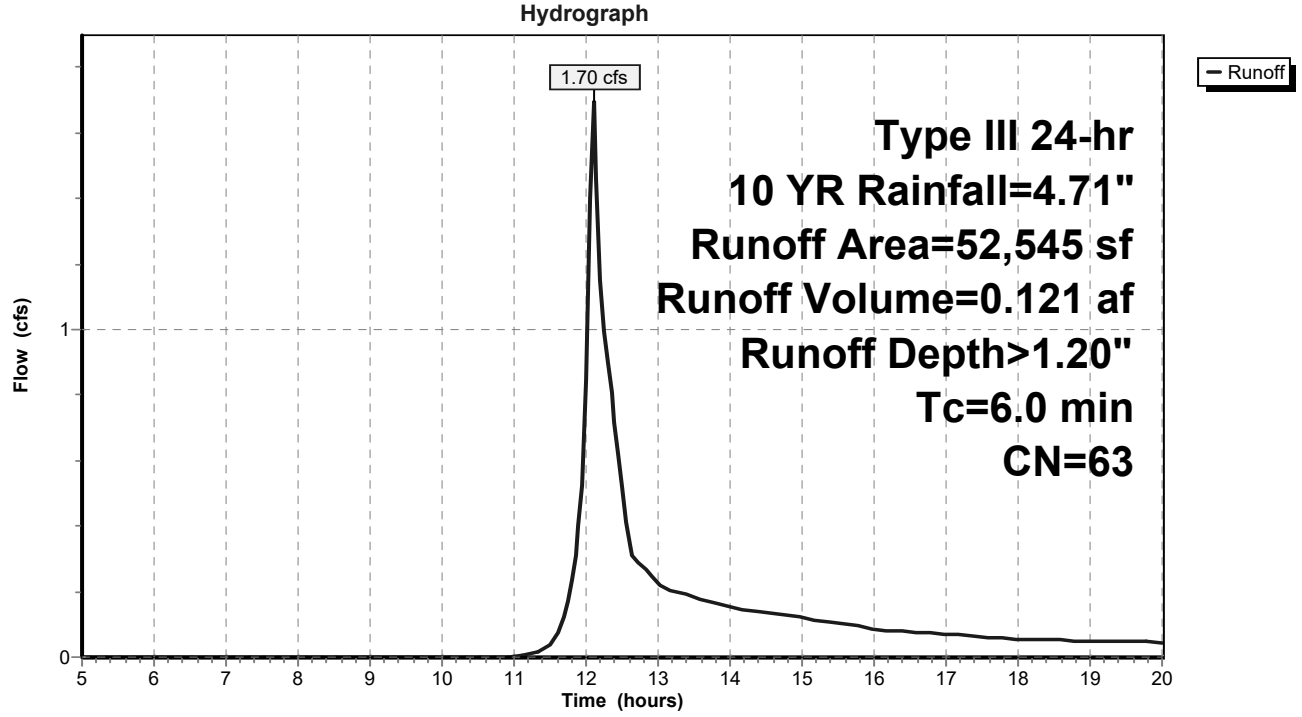
Runoff = 1.70 cfs @ 12.10 hrs, Volume= 0.121 af, Depth> 1.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 YR Rainfall=4.71"

Area (sf)	CN	Description
22,913	98	Paved parking, HSG A
14,078	30	Woods, Good, HSG A
14,970	39	>75% Grass cover, Good, HSG A
584	96	Gravel surface, HSG A
52,545	63	Weighted Average
29,632		56.39% Pervious Area
22,913		43.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, S1**

Subcatchment 11: SUBCATCHMENT 11



Summary for Subcatchment 12: SUBCATCHMENT 12

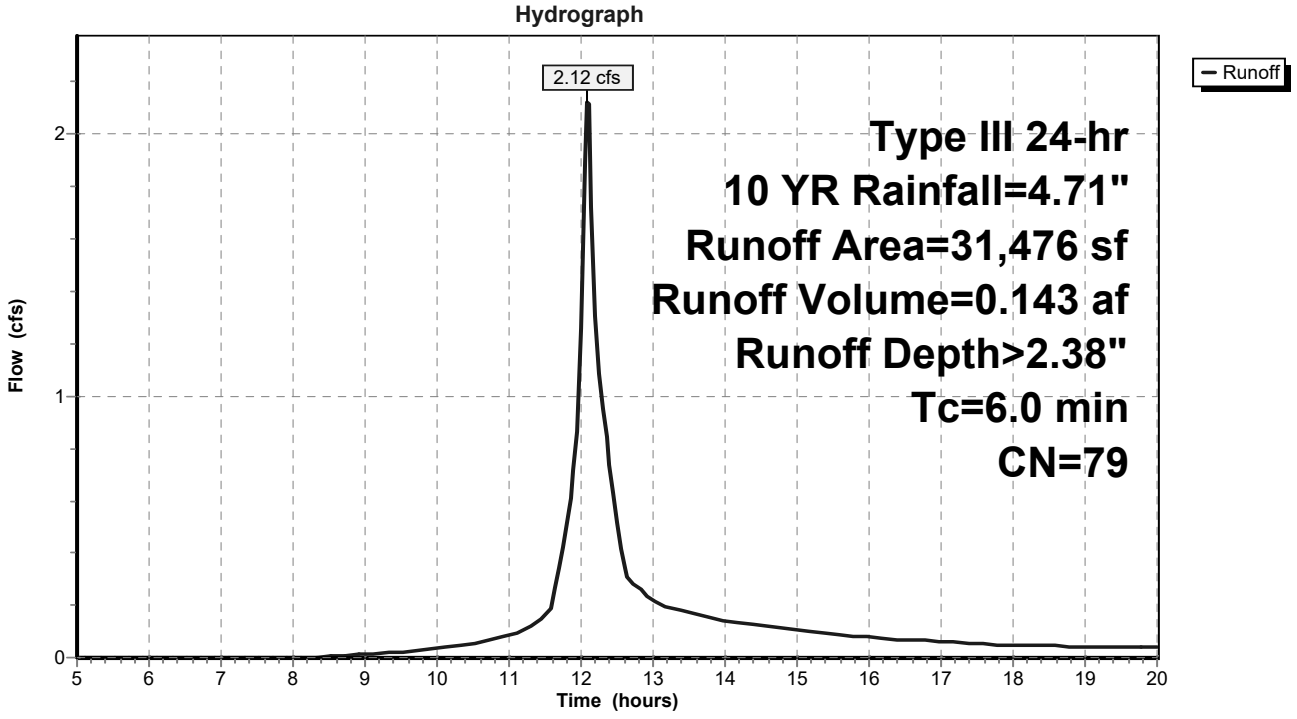
Runoff = 2.12 cfs @ 12.09 hrs, Volume= 0.143 af, Depth> 2.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 YR Rainfall=4.71"

Area (sf)	CN	Description
21,963	98	Paved parking, HSG A
5,758	30	Woods, Good, HSG A
3,755	39	>75% Grass cover, Good, HSG A
31,476	79	Weighted Average
9,513		30.22% Pervious Area
21,963		69.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, S1**

Subcatchment 12: SUBCATCHMENT 12

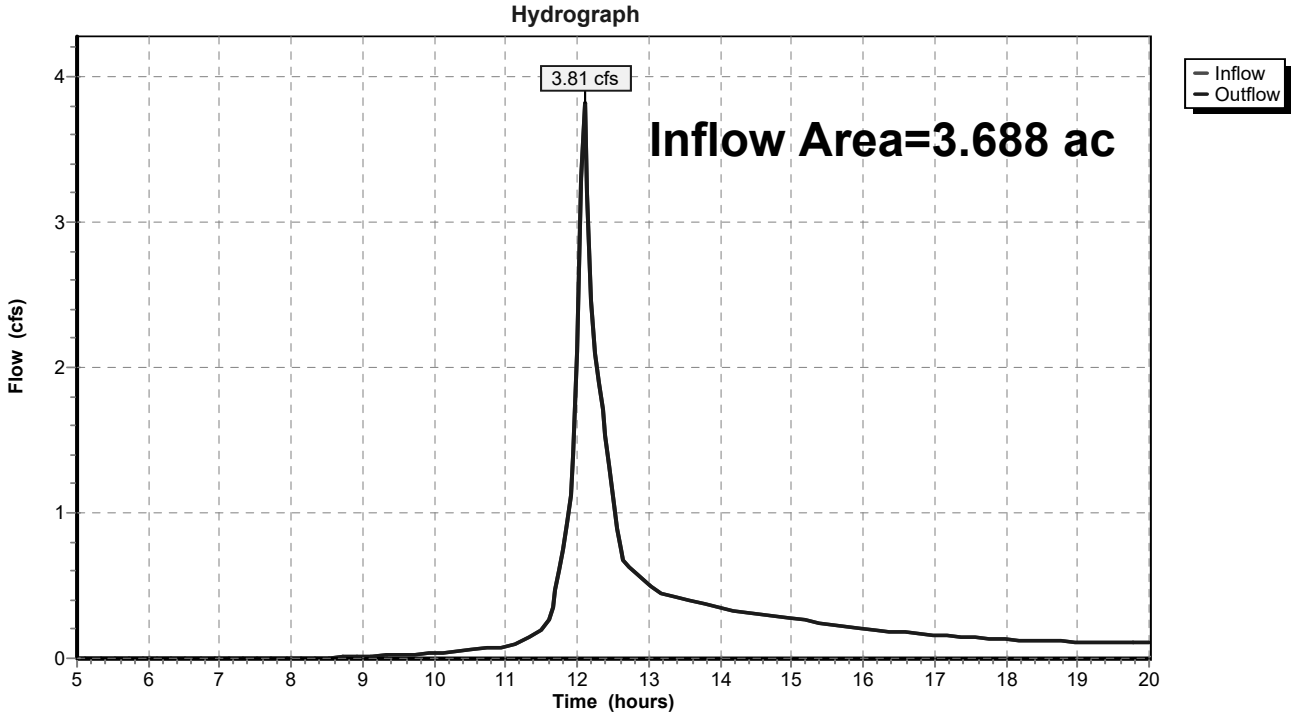


Summary for Reach SDP1: SDP1

Inflow Area = 3.688 ac, 28.39% Impervious, Inflow Depth > 0.94" for 10 YR event
Inflow = 3.81 cfs @ 12.10 hrs, Volume= 0.288 af
Outflow = 3.81 cfs @ 12.10 hrs, Volume= 0.288 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach SDP1: SDP1



Summary for Subcatchment 10: SUBCATCHMENT 10

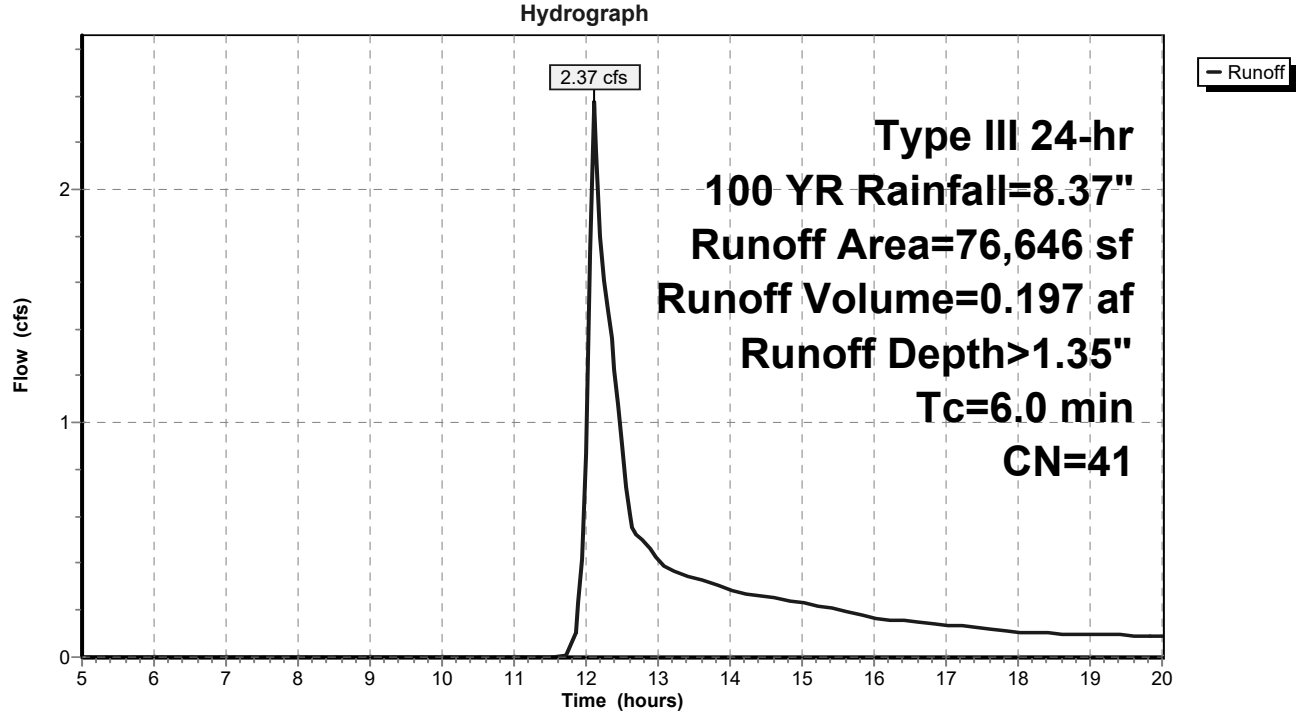
Runoff = 2.37 cfs @ 12.11 hrs, Volume= 0.197 af, Depth> 1.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 YR Rainfall=8.37"

Area (sf)	CN	Description
740	98	Paved parking, HSG A
37,514	30	Woods, Good, HSG A
30,748	39	>75% Grass cover, Good, HSG A
7,644	96	Gravel surface, HSG A
76,646	41	Weighted Average
75,906		99.03% Pervious Area
740		0.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, s1**

Subcatchment 10: SUBCATCHMENT 10



Summary for Subcatchment 11: SUBCATCHMENT 11

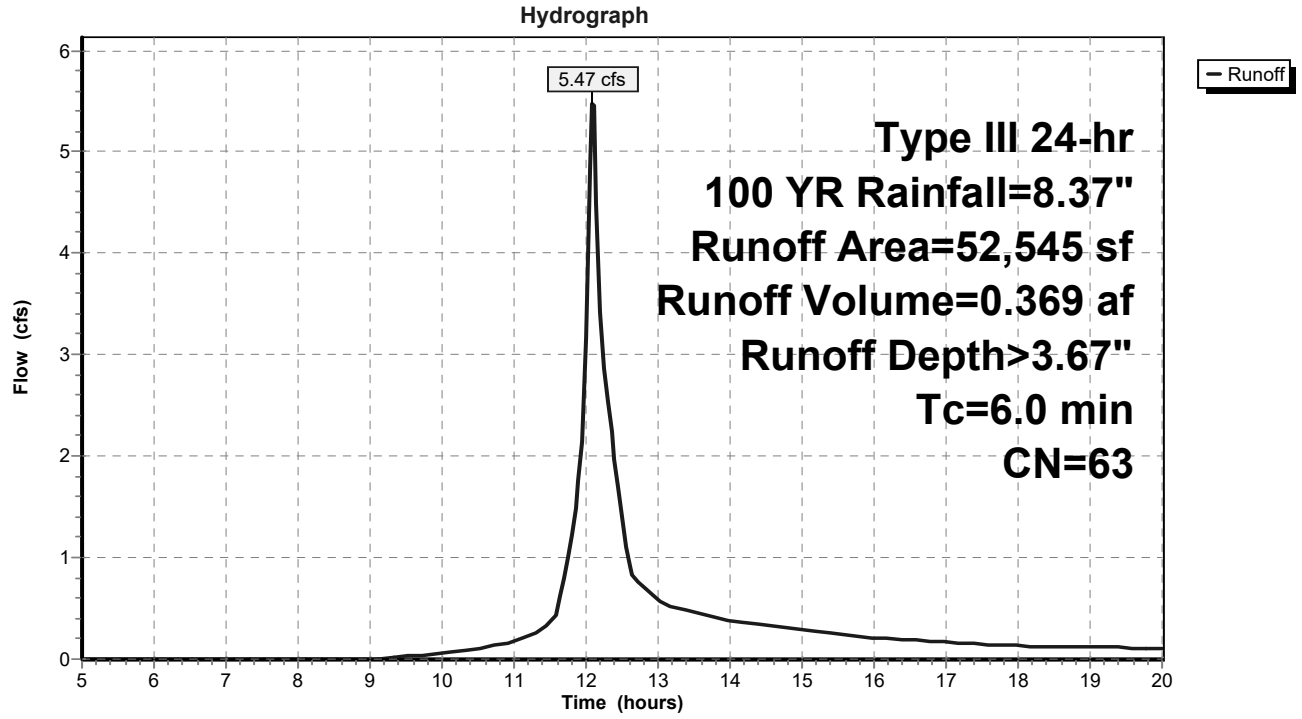
Runoff = 5.47 cfs @ 12.09 hrs, Volume= 0.369 af, Depth> 3.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 YR Rainfall=8.37"

Area (sf)	CN	Description
22,913	98	Paved parking, HSG A
14,078	30	Woods, Good, HSG A
14,970	39	>75% Grass cover, Good, HSG A
584	96	Gravel surface, HSG A
52,545	63	Weighted Average
29,632		56.39% Pervious Area
22,913		43.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, S1**

Subcatchment 11: SUBCATCHMENT 11



Summary for Subcatchment 12: SUBCATCHMENT 12

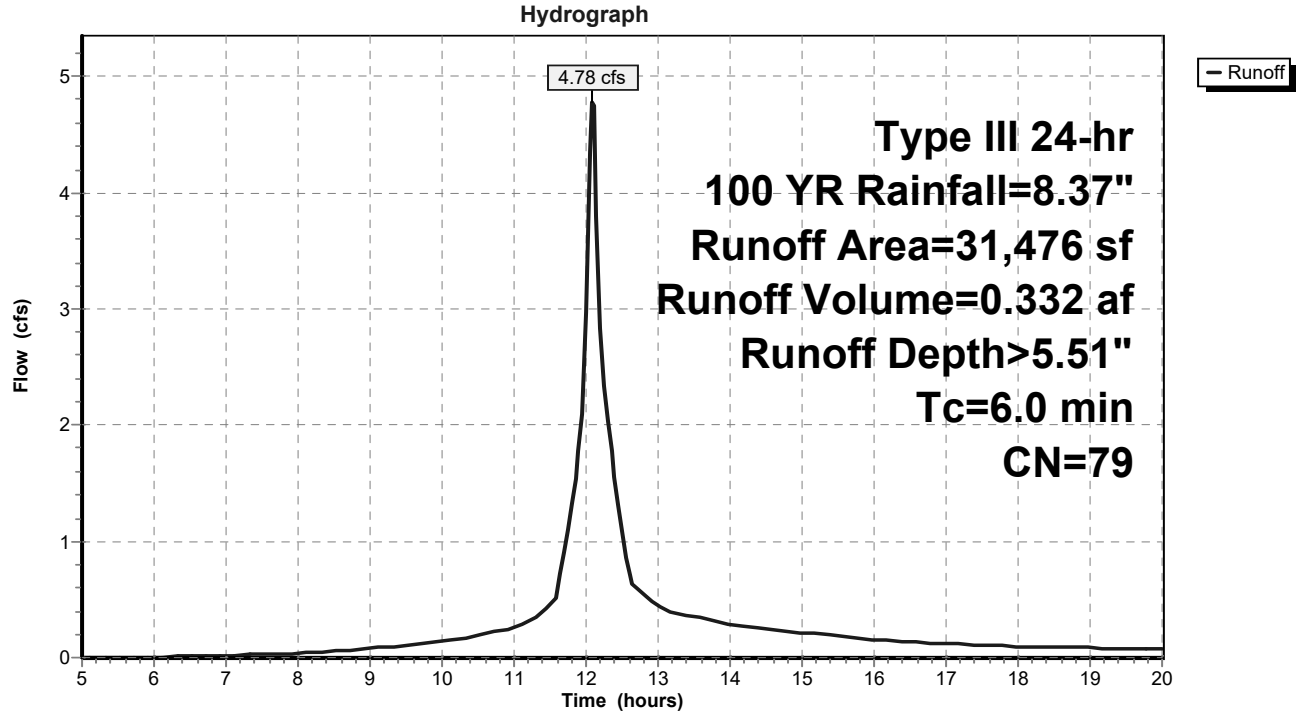
Runoff = 4.78 cfs @ 12.09 hrs, Volume= 0.332 af, Depth> 5.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 YR Rainfall=8.37"

Area (sf)	CN	Description
21,963	98	Paved parking, HSG A
5,758	30	Woods, Good, HSG A
3,755	39	>75% Grass cover, Good, HSG A
31,476	79	Weighted Average
9,513		30.22% Pervious Area
21,963		69.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, S1**

Subcatchment 12: SUBCATCHMENT 12

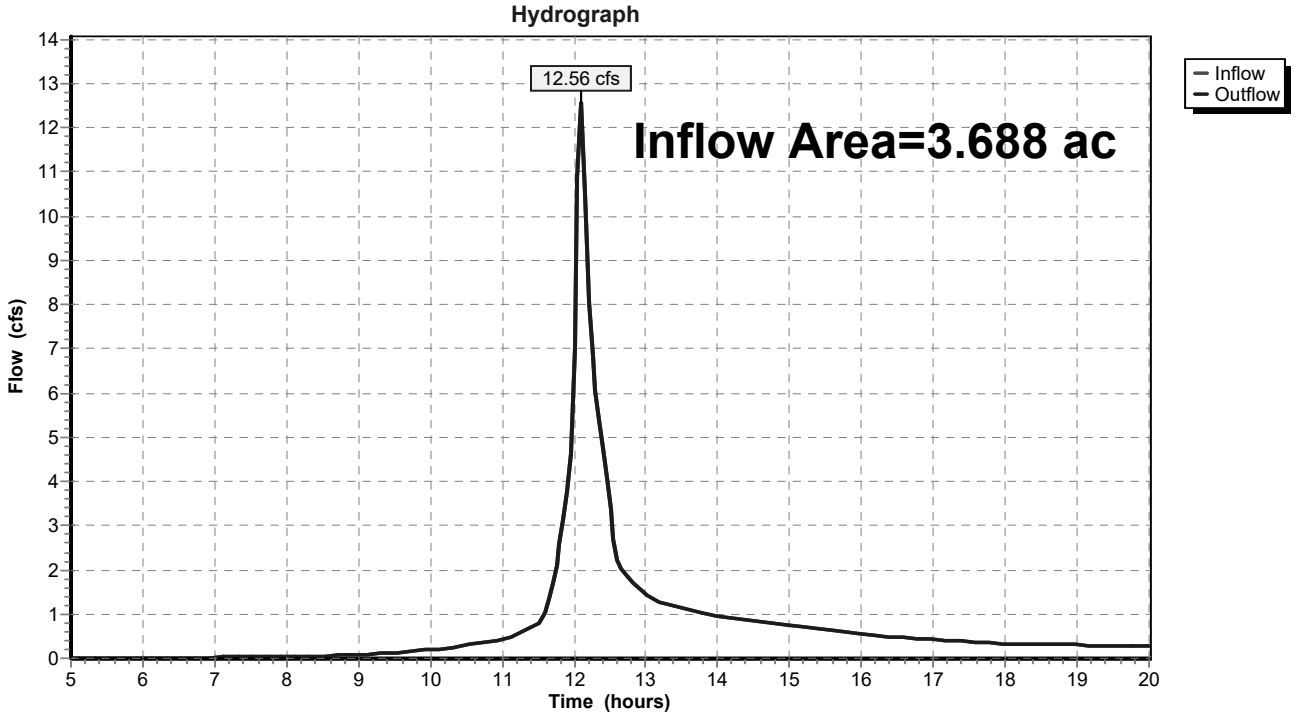


Summary for Reach SDP1: SDP1

Inflow Area = 3.688 ac, 28.39% Impervious, Inflow Depth > 2.92" for 100 YR event
Inflow = 12.56 cfs @ 12.10 hrs, Volume= 0.898 af
Outflow = 12.56 cfs @ 12.10 hrs, Volume= 0.898 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach SDP1: SDP1



APPENDIX F

STORMWATER MANAGEMENT PRACTICE DESIGN

Version 1.8
Last Updated: 11/09/2015

Total Water Quality Volume Calculation
WQv(acre-feet) = [(P)(Rv)(A)] /12

Is this project subject to Chapter 10 of the NYS Design Manual (i.e. WQv is equal to post-development 1 year runoff volume)?.....	

Design Point:	SDP 1	
P=	1.35	*inch*

Breakdown of Subcatchments

Catchment Number	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	Description
1	1.76	0.02	1%	0.06	506	
2	1.21	0.53	43%	0.44	2,616	
3	0.72	0.50	70%	0.68	2,400	
4						
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	3.69	1.05	28%	0.31	**5,522**	**Subtotal 1**
Total	3.69	1.05	28%	0.31	**5,522**	**Initial WQv**

Identify Runoff Reduction Techniques By Area

Technique	Total Contributing Area *(Acre)*	Contributing Impervious Area *(Acre)*	Notes
Conservation of Natural Areas	0.00	0.00	*minimum 10,000 sf*
Riparian Buffers	0.00	0.00	*maximum contributing length 75 feet to 150 feet*
Filter Strips	0.00	0.00	
Tree Planting	0.00	0.00	*Up to 100 sf directly connected impervious area may be subtracted per tree*
Total	**0.00**	**0.00**	

Recalculate WQv after application of Area Reduction Techniques

	Total Area *(Acres)*	Impervious Area *(Acres)*	Percent Impervious *%*	Runoff Coefficient Rv	WQv *(ft^3)*
"<<Initial WQv"	3.69	1.05	28%	0.31	5,522
Subtract Area	0.00	0.00			
WQv adjusted after Area Reductions	**3.69**	**1.05**	28%	0.31	5,522
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	3.69	1.05	28%	0.31	**5,522**
WQv reduced by Area Reduction techniques					0

Version 1.8
Last Updated: 11/09/2015

Total Water Quality Volume Calculation
WQv(acre-feet) = [(P)(Rv)(A)] /12

0.13	**af**

0.13	**af**
0.00	**af**

APPENDIX G

PRE-CONSTRUCTION SITE ASSESSMENT CHECKLIST

I. PRE-CONSTRUCTION MEETING DOCUMENTS
Project Name _____
Permit No. _____ Date of Authorization _____
Name of Operator _____
Prime Contractor _____

a. Preamble to Site Assessment and Inspections
The Following Information To Be Read By All Person's Involved in The Construction of Stormwater Related Activities:

The Operator agrees to have a qualified professional[1] conduct an assessment of the site prior to the commencement of construction[2] and certify in this inspection report that the appropriate erosion and sediment controls described in the SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

Prior to the commencement of construction, the Operator shall certify in this site logbook that the SWPPP has been prepared in accordance with the State's standards and meets all Federal, State and local erosion and sediment control requirements.

When construction starts, site inspections shall be conducted by the qualified professional at least every 7 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater (Construction Duration Inspections). The Operator shall maintain a record of all inspection reports in this site logbook. The site logbook shall be maintained on site and be made available to the permitting authorities upon request. The Operator shall post at the site, in a publicly accessible location, a summary of the site inspection activities on a monthly basis (Monthly Summary Report).

The operator shall also prepare a written summary of compliance with this general permit at a minimum frequency of every three months (Operator's Compliance Response Form), while coverage exists. The summary should address the status of achieving each component of the SWPPP.

Prior to filing the Notice of Termination or the end of permit term, the Operator shall have a qualified professional perform a final site inspection. The qualified professional shall certify that the site has undergone final stabilization[3] using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed. In addition, the Operator must identify and certify that all permanent structures described in the SWPPP have been constructed and provide the owner(s) with an operation and maintenance plan that ensures the structure(s) continuously functions as designed.

1 "Qualified Professional means a person knowledgeable in the principles and practice of erosion and sediment controls, such as a Certified Professional in Erosion and Sediment Control (CPESC), soil scientist, licensed engineer or someone working under the direction and supervision of a licensed engineer (person must have experience in the principles and practices of erosion and sediment control).

2 "Commencement of construction" means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.

3 "Final stabilization" means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (80) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

b. Operators Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Further, I hereby certify that the SWPPP meets all Federal, State, and local erosion and sediment control requirements. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name (please print): _____

Title _____ **Date:** _____

Address: _____

Phone: _____ **Email:** _____

Signature: _____

c. Qualified Professional's Credentials & Certification

"I hereby certify that I meet the criteria set forth in the General Permit to conduct site inspections for this project and that the appropriate erosion and sediment controls described in the SWPPP and as described in the following Pre-construction Site Assessment Checklist have been adequately installed or implemented, ensuring the overall preparedness of this site for the commencement of construction."

Name (please print): _____

Title _____ **Date:** _____

Address: _____

Phone: _____ **Email:** _____

Signature: _____

d. Pre-construction Site Assessment Checklist
(NOTE: Provide comments below as necessary)

1. Notice of Intent, SWPPP, and Contractors Certification:

Yes No NA

[ ] [ ] [ ] Has a Notice of Intent been filed with the NYS Department of Conservation?
[ ] [ ] [ ] Is the SWPPP on-site? Where?_____
[ ] [ ] [ ] Is the Plan current? What is the latest revision date?_____
[ ] [ ] [ ] Is a copy of the NOI (with brief description) onsite? Where?_____
[ ] [ ] [ ] Have all contractors involved with stormwater related activities signed a contractor's certification?

2. Resource Protection

Yes No NA

[ ] [ ] [ ] Are construction limits clearly flagged or fenced?
[ ] [ ] [ ] Important trees and associated rooting zones, on-site septic system absorption fields, existing vegetated areas suitable for filter strips, especially in perimeter areas, have been flagged for protection.
[ ] [ ] [ ] Creek crossings installed prior to land-disturbing activity, including clearing and blasting.

3. Surface Water Protection

Yes No NA

[ ] [ ] [ ] Clean stormwater runoff has been diverted from areas to be disturbed.
[ ] [ ] [ ] Bodies of water located either on site or in the vicinity of the site have been identified and protected.
[ ] [ ] [ ] Appropriate practices to protect on-site or downstream surface water are installed.
[ ] [ ] [ ] Are clearing and grading operations divided into areas <5 acres?

4. Stabilized Construction Entrance

Yes No NA

[ ] [ ] [ ] A temporary construction entrance to capture mud and debris from construction vehicles before they enter the public highway has been installed.
[ ] [ ] [ ] Other access areas (entrances, construction routes, equipment parking areas) are stabilized immediately as work takes place with gravel or other cover.
[ ] [ ] [ ] Sediment tracked onto public streets is removed or cleaned on a regular basis.

5. Perimeter Sediment Controls

Yes No NA

[ ] [ ] [ ] Silt fence material and installation comply with the standard drawing and specifications.
[ ] [ ] [ ] Silt fences are installed at appropriate spacing intervals
[ ] [ ] [ ] Sediment/detention basin was installed as first land disturbing activity.
[ ] [ ] [ ] Sediment traps and barriers are installed.

6. Pollution Prevention for Waste and Hazardous Materials

Yes No NA

[ ] [ ] [ ] The Operator or designated representative has been assigned to implement the spill prevention avoidance and response plan.
[ ] [ ] [ ] The plan is contained in the SWPPP on page _____
[ ] [ ] [ ] Appropriate materials to control spills are onsite. Where? _____

APPENDIX H

INFILTRATION BASIN INSPECTION CHECKLIST

Infiltration Basin Construction Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Pre-Construction		
Runoff diverted		
Soil permeability tested		
Groundwater / bedrock depth		
2. Excavation		
Size and location		
Side slopes stable		
Excavation does not compact subsoils		
3. Embankment		
Barrel		
Anti-seep collar or Filter diaphragm		
Fill material		

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
4. Final Excavation		
Drainage area stabilized		
Sediment removed from facility		
Basin floor tilled		
Facility stabilized		
5. Final Inspection		
Pretreatment facility in place		
Inlets / outlets		
Contributing watershed stabilized before flow is routed to the factility		

Comments:

Actions to be Taken:

Open Channel System Construction Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. Pre-Construction		
Pre-construction meeting		
Runoff diverted		
Facility location staked out		
2. Excavation		
Size and location		
Side slope stable		
Soil permeability		
Groundwater / bedrock		
Lateral slopes completely level		
Longitudinal slopes within design range		
Excavation does not compact subsoils		
3. Check dams		
Dimensions		
Spacing		
Materials		

CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
4. Structural Components		
Underdrain installed correctly		
Inflow installed correctly		
Pretreatment devices installed		
5. Vegetation		
Complies with planting specifications		
Topsoil adequate in composition and placement		
Adequate erosion control measures in place		
6. Final inspection		
Dimensions		
Check dams		
Proper outlet		
Effective stand of vegetation and stabilization		
Contributing watershed stabilized before flow is routed to the factility		

Comments:

Actions to be Taken:

APPENDIX I

CONTRACTOR AND SUBCONTRACTOR CERTIFICATIONS

CERTIFICATION STATEMENT

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings."

Contractor:

Name:_____

Signature:_____

Title:_____

Company Name:_____

Company Address:_____

_____

_____

_____

Company Phone Number:_____

Site Address:_____

_____

_____

_____

Specific SWPPP Responsibilities:

_____

_____

_____

_____

_____

Date of Certification: _____

Name and Title of Trained Contractor for SWPPP Implementation:_____

_____

CERTIFICATION STATEMENT

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings."

Sub-Contractor:

Name:_____

Signature:_____

Title:_____

Company Name:_____

Company Address:_____

_____

_____

_____

Company Phone Number:_____

Site Address:_____

_____

_____

_____

Specific SWPPP Responsibilities:

_____

_____

_____

_____

_____

Date of Certification: _____

Name and Title of Trained Contractor for SWPPP Implementation:_____

_____

APPENDIX J

QUALIFIED PROFESSIONAL'S CERTIFICATION

QUALIFIED PROFESSIONAL'S CERTIFICATION

" I hereby certify that I meet the criteria set forth in the General Permit to conduct site inspections for this project and that the appropriate erosion and sediment controls described in the SWPPP and as described in the Pre-Construction Site Assessment Checklist have been adequately installed or implemented, ensuring the overall preparedness of this site for the commencement of construction."

Name (Print):_____

Title:_____

Date:_____

Company Name:_____

Company Address:_____

_____

_____

_____

Company Phone Number:_____

Company Email:_____

Signature:_____

APPENDIX K

OWNER / OPERATOR CERTIFICATION

CERTIFICATION STATEMENT

" I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I also certify under penalty of law that that this document and the corresponding documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Further, I am acknowledging that this SWPPP has been developed and will be implemented as the first element of construction and agree to comply with all the terms and conditions of the general permit for which the NOI is being submitted."

Name (Print):_____

Title:_____

Date:_____

Company Name:_____

Company Address:_____

_____

_____

_____

Company Phone Number:_____

Company Email:_____

Signature:_____

APPENDIX L

POST DEVELOPMENT MAINTENANCE AND INSPECTION CHECKLIST

Infiltration Trench Operation, Maintenance, and Management Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. Debris Cleanout (Monthly)		
Trench surface clear of debris		
Inflow pipes clear of debris		
Overflow spillway clear of debris		
Inlet area clear of debris		
2. Sediment Traps or Forebays (Annual)		
Obviously trapping sediment		
Greater than 50% of storage volume remaining		
3. Dewatering (Monthly)		
Trench dewaters between storms		
4. Sediment Cleanout of Trench (Annual)		
No evidence of sedimentation in trench		
Sediment accumulation doesn't yet require cleanout		
5. Inlets (Annual)		

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
Good condition		
No evidence of erosion		
6. Outlet/Overflow Spillway (Annual)		
Good condition, no need for repair		
No evidence of erosion		
7. Aggregate Repairs (Annual)		
Surface of aggregate clean		
Top layer of stone does not need replacement		
Trench does not need rehabilitation		

Comments:

Actions to be Taken:

Open Channel Operation, Maintenance, and Management Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

MAINTENANCE ITEM	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Debris Cleanout (Monthly)		
Contributing areas clean of debris		
2. Check Dams or Energy Dissipators (Annual, After Major Storms)		
No evidence of flow going around structures		
No evidence of erosion at downstream toe		
Soil permeability		
Groundwater / bedrock		
3. Vegetation (Monthly)		
Mowing done when needed		
Minimum mowing depth not exceeded		
No evidence of erosion		
Fertilized per specification		
4. Dewatering (Monthly)		
Dewaters between storms		

MAINTENANCE ITEM	SATISFACTORY/ UNSATISFACTORY	COMMENTS
5. Sediment deposition (Annual)		
Clean of sediment		
6. Outlet/Overflow Spillway (Annual)		
Good condition, no need for repairs		
No evidence of erosion		

Comments:

Actions to be Taken:

APPENDIX M

CONSTRUCTION INSPECTION REPORT

II. CONSTRUCTION DURATION INSPECTIONS

a. Directions:
Inspection Forms will be filled out during the entire construction phase of the project.
Required Elements:

(1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;

(2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;

(3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;

(4) Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of sediment storage volume (for example, 10 percent, 20 percent, 50 percent);

(5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass
water; and

(6) Immediately report to the Operator any deficiencies that are identified with the implementation of the SWPPP.

SITE PLAN/SKETCH

_____ _____

Inspector (print name) **Date of Inspection**

_____ _____

Qualified Professional (print name) **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
[ ] [ ] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
[ ] [ ] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease?
[ ] [ ] [ ] All disturbance is within the limits of the approved plans.
[ ] [ ] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
[ ] [ ] [ ] Is construction site litter and debris appropriately managed?
[ ] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
[ ] [ ] [ ] Is construction impacting the adjacent property?
[ ] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
[ ] [ ] [ ] Maximum diameter pipes necessary to span creek without dredging are installed.
[ ] [ ] [ ] Installed non-woven geotextile fabric beneath approaches.
[ ] [ ] [ ] Is fill composed of aggregate (no earth or soil)?
[ ] [ ] [ ] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
[ ] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
[ ] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.
[ ] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.
[ ] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [ ] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
[ ] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [ ] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[ ] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
[ ] [ ] [ ] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [ ] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [ ] Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
[ ] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[ ] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
[ ] [ ] [ ] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [ ] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
[ ] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.
[ ] [ ] [ ] Installed per standards and specifications?
[ ] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?
[ ] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
[ ] [ ] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[ ] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[ ] [ ] [ ] Fabric buried 6 inches minimum.
[ ] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

[ ] [ ] [ ] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [ ] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [ ] Drainage area is 1acre or less.
[ ] [ ] [ ] Excavated area is 900 cubic feet.
[ ] [ ] [ ] Excavated side slopes should be 2:1.
[ ] [ ] [ ] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [ ] Posts 3-foot maximum spacing between posts.
[ ] [ ] [ ] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

[ ] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[ ] [ ] [ ] Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes No NA

[ ] [ ] [ ] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [ ] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [ ] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

III. Monthly Summary of Site Inspection Activities

Name of Permitted Facility:	Today's Date:	Reporting Month:
Location:	Permit Identification #:	
Name and Telephone Number of Site Inspector:		

Date of Inspection	Regular / Rainfall based Inspection	Name of Inspector	Items of Concern

Owner/Operator Certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law."

_____ _____

Signature of Permittee or Duly Authorized Representative Name of Permittee or Duly Authorized Representative Date

Duly authorized representatives must have written authorization, submitted to DEC, to sign any permit documents.

APPENDIX N
NOTICE OF TERMINATION

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505
(NOTE: Submit completed form to address above)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity

Please indicate your permit identification number: NYR ___ ___ ___ ___ ___ ___

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person: | 4a.Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. □ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. ***Date final stabilization completed** (month/year): _____

9b. □ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR ___ ___ ___ ___ ___ ___
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. □ Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? □ yes □ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? □ yes □ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

_____

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? □ yes □ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

□ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.

□ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).

□ For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.

□ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____ (acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? □ yes □ no

(If Yes, complete section VI - "MS4 Acceptance" statement

V. Additional Information/Explanation:

(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:	
Title/Position:	
Signature:	Date:

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

VII. Qualified Inspector Certification - Final Stabilization:

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

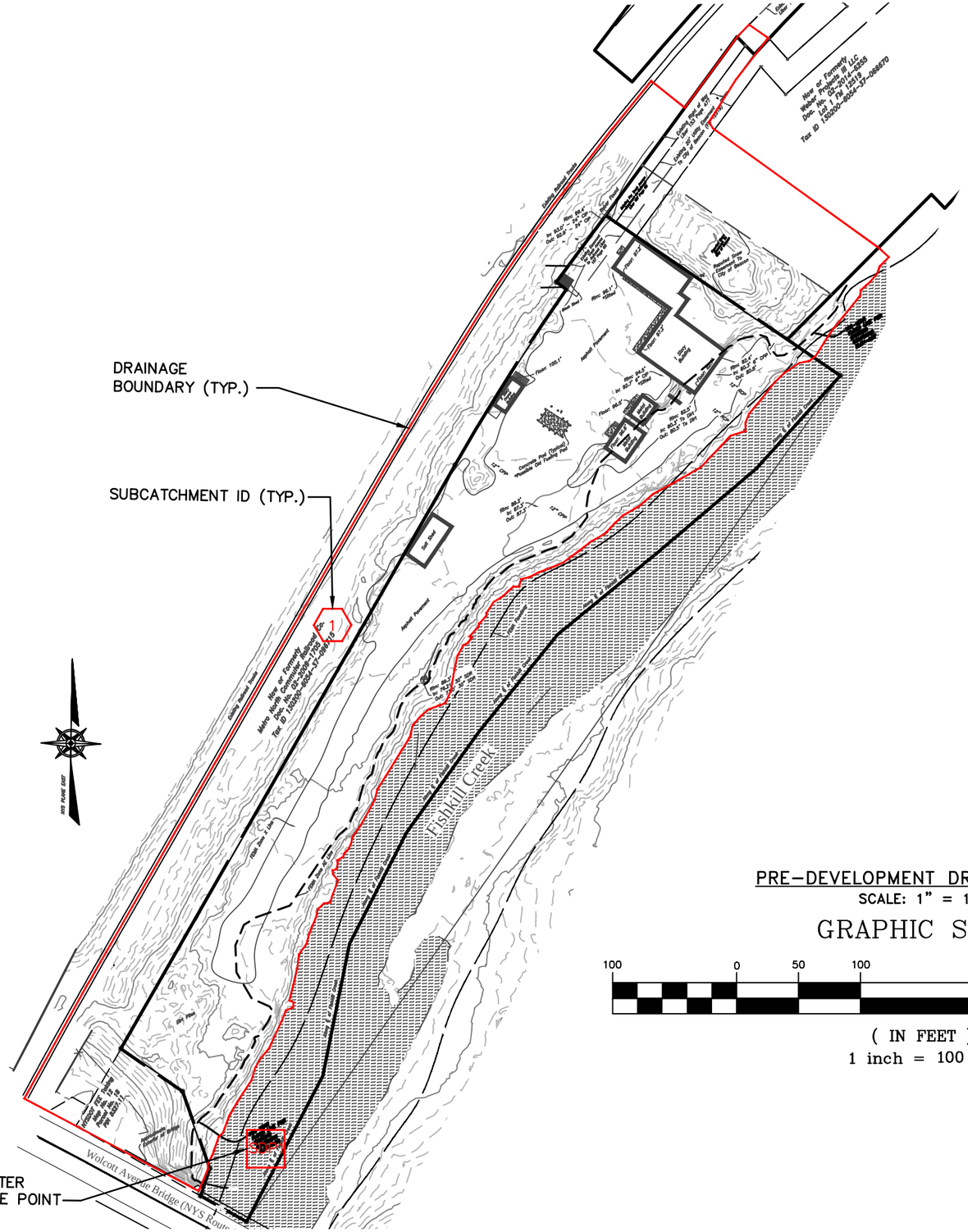
Printed Name:	
Title/Position:	
Signature:	Date:

IX. Owner or Operator Certification

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

(NYS DEC Notice of Termination - January 2015)



LEGEND:

DRAINAGE BOUNDARY

SUBCATCHMENT ID — 1

DESIGN POINT — SDP1

PRE-DRAINAGE
SUBCATCHMENT 1
TOTAL AREA = 160,667 SQFT

IMPERVIOUS = 48,660 SQFT
WOODS A = 58,238 SQFT
MEADOW A = 53,769 SQFT

TIME OF CONCENTRATION, Tc:
1. DIRECT ENTRY = 6 MINUTES

PRE-DEVELOPMENT DRAINAGE PLAN
SCALE: 1" = 100'

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

DRAWN BY: AG	CHECKED BY: DGK	JOB NO.: 2018:043	
REVISIONS:			
NO.	DATE	DESCRIPTION	BY

PRE-DEVELOPMENT DRAINAGE PLAN

23-28 CREEK DRIVE

CREEK DRIVE
CITY OF BEACON
DUTCHESS COUNTY, NEW YORK
TAX ID:
SCALE: 1" = 100'
OCTOBER 22, 2018

HUDSON LAND DESIGN
PROFESSIONAL ENGINEERING P.C.
174 MAIN STREET
BEACON, NEW YORK 12508
PH: 845-440-6926 F: 845-440-6637

SEAL

JON D. BODENDORF, P.E.
NYS LICENSE NO. 076245
DANIEL G. KOEHLER, P.E.
NYS LICENSE NO. 082716

SHEET: 1 OF 1

LEGEND:

DRAINAGE BOUNDARY

SUBCATCHMENT ID 1

DESIGN POINT SDP1

POST-DRAINAGE
SUBCATCHMENT 10
TOTAL AREA = 76,646 SQFT

IMPERVIOUS = 740 SQFT
WOODS A = 37,514 SQFT
GRASS A = 30,748 SQFT
GRAVEL A = 7,644 SQFT

TIME OF CONCENTRATION, Tc:
1. DIRECT ENTRY = 6 MINUTES

POST-DRAINAGE
SUBCATCHMENT 11
TOTAL AREA = 52,545 SQFT

IMPERVIOUS = 22,913 SQFT
WOODS A = 14,078 SQFT
GRASS A = 14,970 SQFT
GRAVEL A = 584 SQFT

TIME OF CONCENTRATION, Tc;
1. DIRECT ENTRY = 6 MINUTES

POST-DRAINAGE
SUBCATCHMENT 12
TOTAL AREA = 31,476 SQFT

IMPERVIOUS = 21,963 SQFT
WOODS A =5,758 SQFT
GRASS A = 3,755 SQFT

TIME OF CONCENTRATION, Tc;
1. DIRECT ENTRY = 6 MINUTES

POST-DEVELOPMENT DRAINAGE PLAN

SCALE: 1" = 100'

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

DRAWN BY: AG	CHECKED BY: DGK	JOB NO.: 2018:043	
REVISIONS:			
NO.	DATE	DESCRIPTION	BY

POST-DEVELOPMENT DRAINAGE PLAN

23-28 CREEK DRIVE

CREEK DRIVE
CITY OF BEACON
DUTCHESS COUNTY, NEW YORK
TAX ID:
SCALE: 1" = 100'
OCTOBER 22, 2018

HUDSON LAND DESIGN
PROFESSIONAL ENGINEERING P.C.
174 MAIN STREET
BEACON, NEW YORK 12508
PH: 845-440-6926 F: 845-440-6637

SEAL

JON D. BODENDORF, P.E.
NYS LICENSE NO. 076245
DANIEL G. KOEHLER, P.E.
NYS LICENSE NO. 082716

SHEET: 1 OF 1

City of Beacon Workshop Agenda
11/26/2018

Title:

Tioronda Bridge Feasibility Study

Subject:

Background:

ATTACHMENTS:

Description	Type
Tioronda Bridge Feasibility Study	Backup Material

TIORONDA BRIDGE
BEACON, NEW YORK

1980s

2018

Feasibility Study For Adaptive Reuse Of Bridge Parts

Dr. Francis E. Griggs, Jr., Dist. M. ASCE

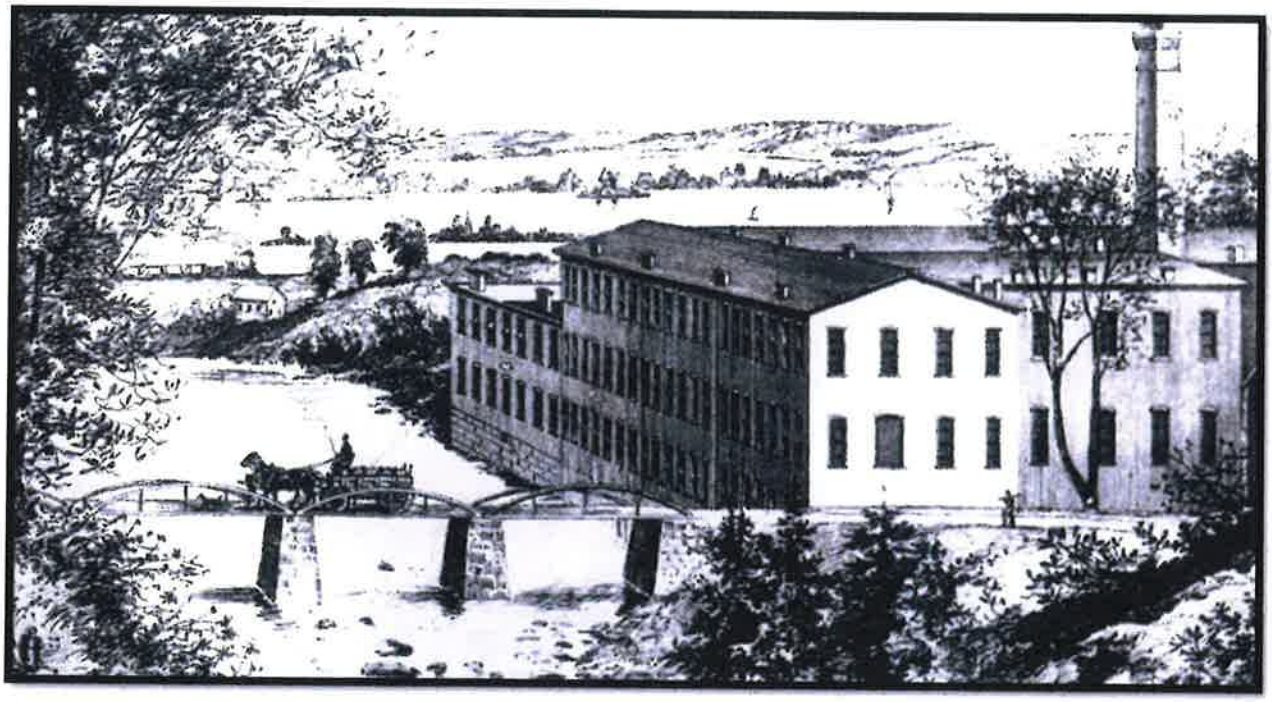
October 2018

Table of Contents

Introduction

The purpose of this study is to advise the City of Beacon on the feasibility of salvaging and reconstructing the Tioronda Bridge parts stored at the Transfer Station into either a one span-two arch pedestrian bridge or failing that as a single arch to be used in a historical display.

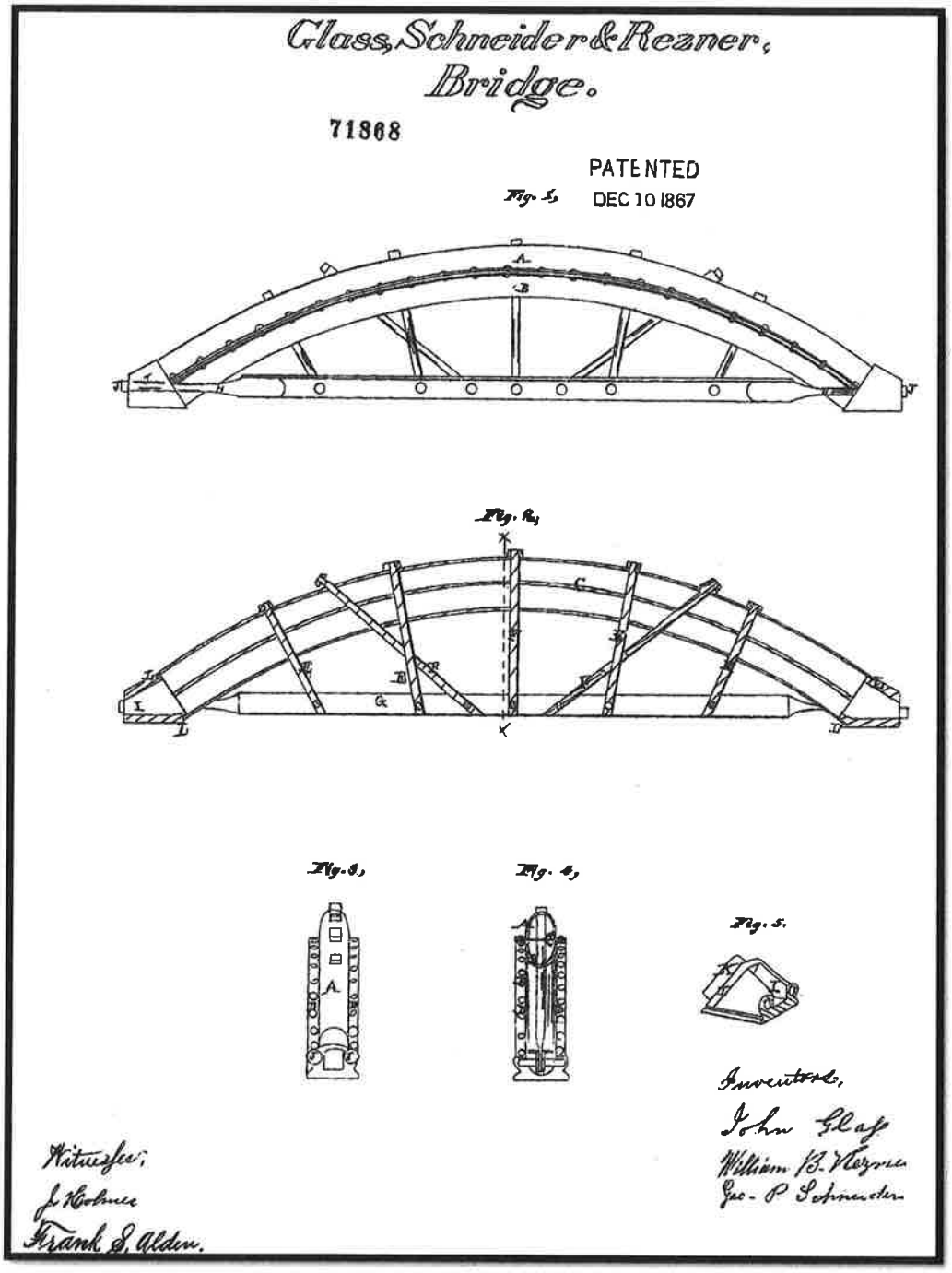
The Tioronda Bridge built in 1872 by the Ohio Bridge Company survived in its original location carrying South Avenue across the Fishkill Creek for 134 years. It received a new deck in 1955 at which time the wrought iron arches ceased to carry any vehicular loadings. It was placed on the National Register of Historic Places by the National Park Service in 1976 and was closed to all vehicular traffic in 1985. It was documented by HAER in 1987. Due to deteriorating piers the bridge superstructure was removed in 2006 with the understanding that it would be saved and possibly re-erected at another site. From photographic evidence the bridge was handled with care during the lift and its initial storage. After that it was apparently moved several times ending up in a field adjacent to the Transfer Station against a chain link fence. From the manner in which the arches were stored it appears little care was taken during the latter move.



Early Bridge Engraving

Miscellaneous information on bridge

Rezner, et. al. Patent, Drawings and Model



Glass, Schneider & Rezner Bridge
1867, Patent #71,868

W. B. REZNER.

Improvement in Arch-Bridges.

No. 128,509. Patented July 2, 1872.

Fig. 1.

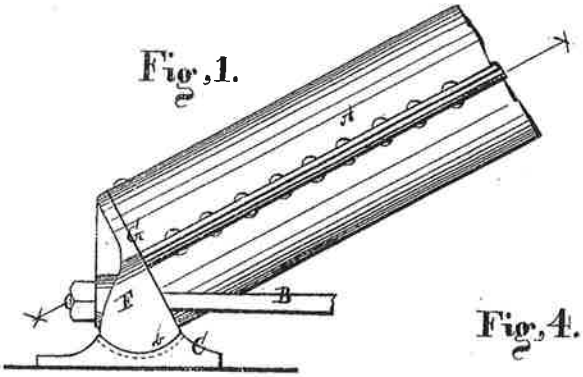


Fig. 4.

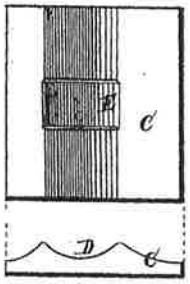


Fig. 2.

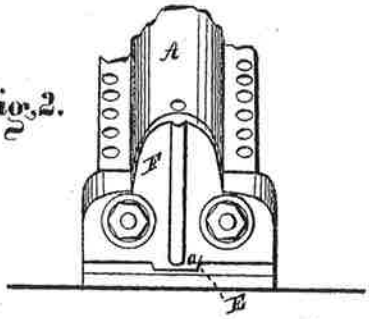
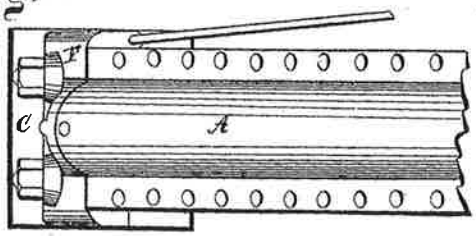


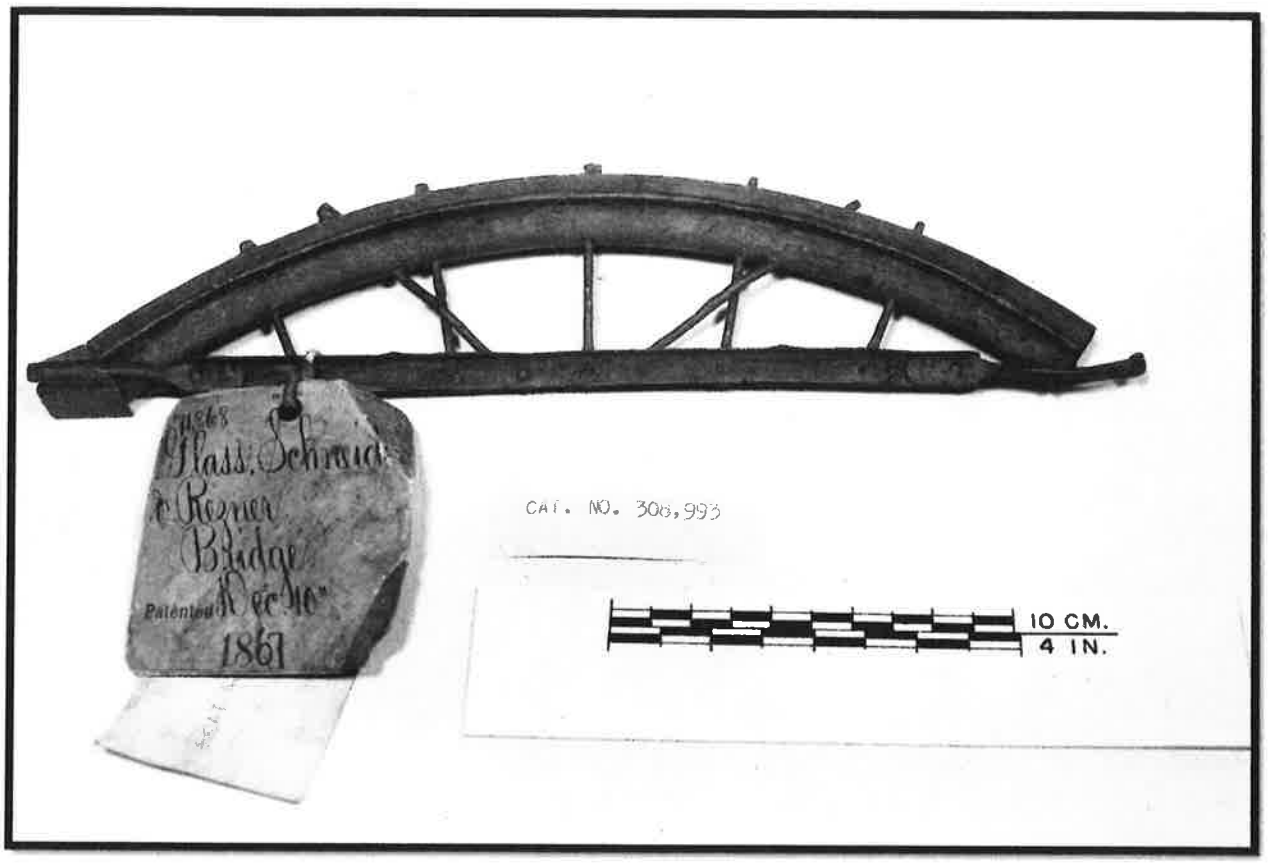
Fig. 3.



Witnesses.
G. E. Fryett.
A. S. Cornell.

Inventor.
Wm. B. Rezner.
Per Burridge & Co
Attys

Improvement in Arch-Bridges
1872, Patent #128,509



Patent Model 1867
#71,868

They made two claims that their bridge was an improvement on previous patents. They were,

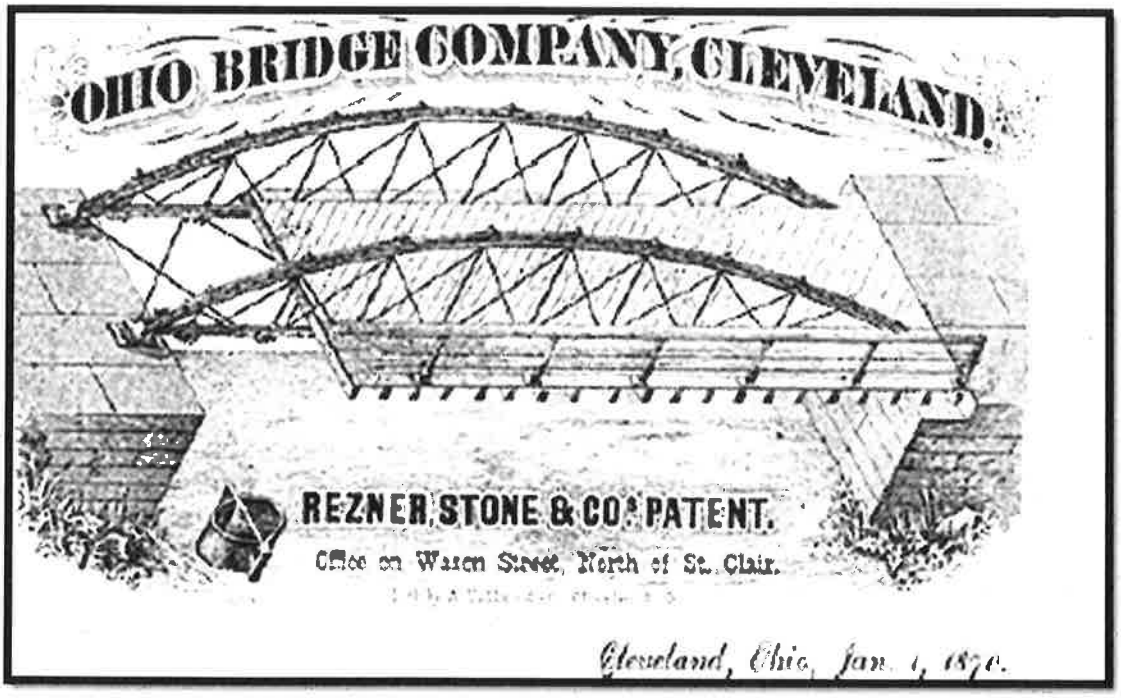
1. The tubular flanged sections AB, as arranged in combination with the diaphragm C, for purpose and in the manner substantially as set forth.
2. The tubular arch, as constructed with sections ABC, in combination with the foot-block I, provided with a flange or boss, K, when arranged in the manner as and for the purpose set forth.

The claimed the diaphragm was to, "resist the lateral strain upon the tubes." Their web members, verticals and diagonals, were not pinned to the upper and lower chords so the structure cannot be considered a true truss. Their design was for a tied arch similar to that of William H. H. Moseley (patented 1857 and rebuilt on Campus of Merrimack College) and Joseph Henzey (patented 1869 and rebuilt on campus of Central Penn College). Both of these were rebuilt by the author.

There are three other bridges built to the same patent currently extant. The first is the 50' span Potawatomi Park Bridge (formerly on the Gangloff-Sayler farmstead) in Jasper County, Indiana across the Iroquois River. It was restored in 2012 and a photo-documentation can be found online at Historic Bridges.org. A full history of the bridge was written by James L. Cooper and is available on line at the same site.

The other is the 127' span White Bowstring Arch Truss Bridge in Poland, Ohio over the Yellow Creek. Built in 1877 by the Wrought Iron Bridge Company of Canton, Ohio to Rezner's Patent. Its photo-documentation can also be found online at Historic Bridges.org. In addition, HAER documented the bridge, HAER No. Oh-39, in 1986. The Ohio Bridge Company had merged with the larger Wrought Iron Bridge Company around 1874.

The Hoyt Street Bridge near Beatrice in Gage County, Nebraska across the Big Blue River has been abandoned in place. It was originally built as the Blue Springs Bridge in 1870 and moved to the current site in 1890.



Ohio Bridge Company Advertisement Jan. 1, 1870

The Bridgehunter.com website lists 12 bridges built to the patent with only the first two bridges mentioned above still extant and carrying pedestrians only. The Hoyt Street Bridge has been abandoned in place.

Extracts from Nomination of Bridge to the National Register of Historic Places, 1976 (Raymond W. Smith and William P. Chamberlin)

Describe the Present and original (if known) Physical Appearance

The Tioronda Bridge carries South Avenue over Fishkill Creek in the southwestern portion of the City of Beacon. Occupying less than one acre, the bridge is surrounded by saplings and undergrowth on the stream bank. Light industry occupies several brick buildings on the Fishkill's west bank, slightly south of the bridge. The Tioronda Bridge is a manufactured three-span vehicular bridge constructed of iron and situated on the site where it was originally erected. The overall length of the bridge is 110 feet. Each span is nominally thirty-four feet in length measured from the outer ends of the truss bearing shoes, and sixteen feet wide measured from center to center of opposite trusses. The end abutment and two midstream piers are of random natural stone laid in random ashlar fashion.

The upper chords (bowstring) of each truss are formed from a continuous arched tube constructed from two flanged semi-oval iron plates riveted together at the flanges. They enclose an iron diaphragm, which lies along the minor (horizontal) axis of the tube. This arched tube and the details of its construction are the distinctive feature of this bridge and the principal claim of its patent. The lower chord is formed of two parallel ½ by 6-inch continuous wrought iron bars that once supported the original floor beams. The ends of the lower chords are connected to the end of the arch by threaded rods which pass through and bear upon cast iron foot blocks or shoes, against which the ends of the arch also abut.

The bridge trusses now serve only as guide rails since the original deck and floor beams have been replaced by five parallel I-beam stringers which bear on the original abutments and piers, and which now totally support traffic. Each truss is braced laterally by a single 2 ½ by 2 ½ cruciform strut extending diagonally (approximately 30^0 from the vertical) from the outer flange of the upper chord at mid-span to an extension of the original floor beams now cut and bolted to the web of the outer I-beam stringer.

The present deck is built of 3 ½ by 11-inch timber planks supported by wooden stringers which bear on the upper flanges of the I-beams. The roadway is defined by 4 by 5 ½ inch timber curbs bolted to the deck through a 4 by 1 1/2 inch timber cap plate.

Statement of Significance

The Tioronda Bridge is an important transportation landmark erected sometime between 1869 and 1873. This early iron truss bridge incorporates the arched or "bowstring" design features common during the pioneering decades of American iron bridge technology. Built by the Ohio Bridge Company of Cleveland, the Tioronda Bridge is a rare surviving example of an iron patent bridge manufactured by one of the small firms which flourished briefly in the period immediately following the Civil War. The Tioronda Bridge contributed to the industrial growth and physical expansion of what became the City of Beacon.

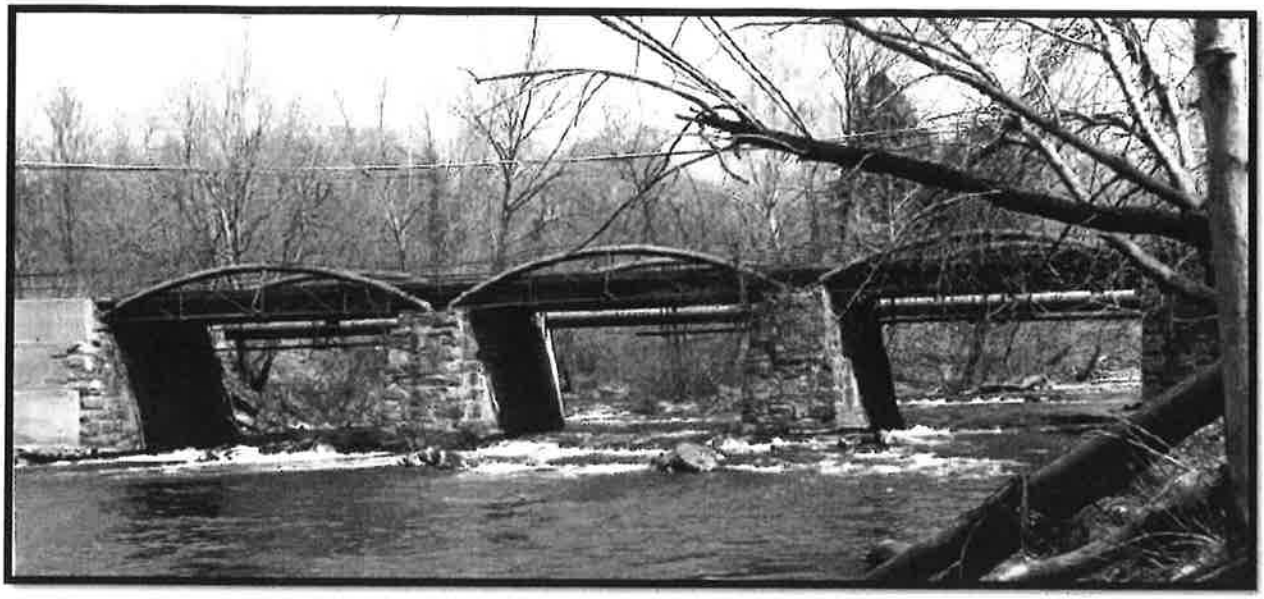
American bridge-building technology was characterized by the use of iron as its principal

structural material for a period of approximately forty years between 1850 and 1890. During this time, iron was a transitional material between wood, which had less strength and durability, and steel, which ultimately was produced with greater elasticity and uniformity. Literally hundreds of patents for iron bridges and their components were granted. Many of these bridges, however, were never built and others were either unique or built in limited numbers by short-lived firms. Most of the iron vehicular bridges that have survived were built according to several basic patents controlled by the large dominant manufacturers of the last quarter of the nineteenth century.

The Tioronda Bridge is based upon patent No. 71,868 issued in 1867 to John Glass, George P. Schneider, and William B. Rezner of Cleveland, Ohio. Until the Tioronda Bridge was identified in the spring of 1973, this bridge design was known only from its patent model, now in the collection of the Smithsonian Institution. One other example of the bridge has subsequently been identified: a ninety-three-foot, eleven-panel, single span over Sandy Creek in Allegheny County, Pennsylvania.

William Rezner was a Cleveland physician in his early forties when he collaborated with foundry man John Glass and machinist George Schneider on their 1867 patent. In 1869, Rezner entered into the partnership with local businessman Frank D. Stone to manufacture and sell iron bridges under the name of the Ohio Bridge Company. John Glass became a financial patron of the new enterprise during the business market value of $86,000. In 1873, however the firm suddenly ceased its operations and dissolved, a possible victim of the economic depression which began that year. Dr. Rezner soon thereafter returned to practicing medicine while Stone established a mattress manufacturing enterprise and Glass entered the real estate business...

The Tioronda Bridge is an important structure in the history of American transportation and technology because it is among the oldest vehicular iron bridges surviving in New York State; because it is one of the few surviving products of the post-Civil War "boom" in iron truss bridge construction; and because it is one of the few nineteenth century iron bridges for which a patent model survives.



Historic American Engineering Record - Documentation –HAER No. NY-168, 1987

DESCRIPTON OF THE BRIDGE

The Tioronda Bridge, carrying South Avenue across Fishkill Creek in the City of Beacon, New York, was erected in early 1872. This bridge is a rare surviving example of the iron "bowstring" truss bridge patented by John Glass, George P. Schneider, and William B. Rezner on December 10, 1867 (No. 71,868). The bridge also utilizes a distinctive, adjustable cast iron skewback (foot block) patented by William B. Rezner on July 2, 1872 (No. 128,509). Each abutment and pier supports a cast iron plate with a concave top. Set into this plate is a triangular-shaped, cast iron block with a convex shaped bottom and a sloping side abutting the end of the "bowstring" arch. A wide rib on the face of the sloping side projects into the hollow arch tube. The skew back was designed to hold the tubular iron arch in place and transmit compressive force from the arch to the abutments and piers.

The Tioronda Bridge consists of three arch spans with an overall length of 110 feet and sits approximately 16 feet 6 inches above the waters of Fishkill Creek. Each span is a slightly different length, measuring (from south to north), 35 feet 8 inches, 37 feet 10 inches, and 32 feet 8 inches. The two abutments and two piers are all rubble stone with ashlar coursing. Piers measure 6 feet wide and 23 feet 6 inches long at the top and taper outward at the base. The Tioronda Bridge was built by the Ohio Bridge Company of Cleveland, a company formed by Glass, Schneider, and Rezner in 1869. The Ohio Bridge Company, one of the many small bridge building companies to appear and briefly prosper in the years after the Civil War, ceased to exist after the "financial panic" of the last few months of 1873.

ORIGINS OF THE TIORONDA BRIDGE

The Tioronda Bridge is located within the City of Beacon. Beacon was formed in 1913 as a result of the merger of the hamlets of Matteawan and Fishkill Landing, originally hamlets within the Town of Fishkill. Tioronda, also known as Byrnsville, was a smaller settlement upstream from the mouth of the Fishkill Creek, approximately one mile south of Fishkill Landing. Tioronda was also part of the Town of Fishkill and the site of grist, saw, and cotton mills and in the late 1800's the home of the Tioronda Hat Works. Fishkill was a prosperous and industrially active town with railroad and highway transportation routes running both east and west as well as north and south. The Tioronda bridge no doubt was important in linking the activities of these adjacent water-powered mills and manufacturing sites with the Town of Fishkill's railroad transportation lines and other manufacturing establishments.

On December 26, 1871 the Town of Fishkill Board of Supervisors passed a resolution approving the expenditure of $2,700 for a new iron bridge across Fishkill Creek at Tioronda. Two days later Edward H. Goring, the Fishkill representative to the Dutchess County Board of Supervisors, requested and obtained the permission of the Board of Supervisors for the town to borrow $2,700 to build the bridge. The bridge bonds were to pay seven percent annual interest and be repaid in full by March 1, 1873.

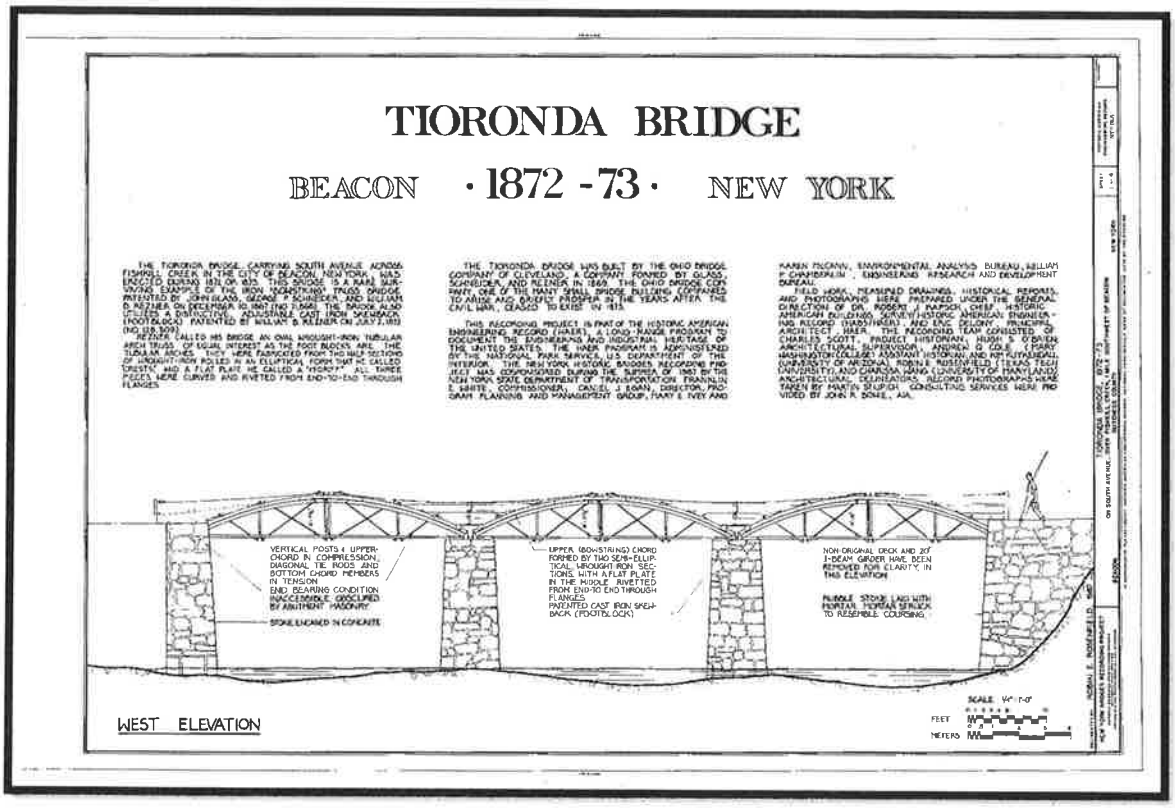
With permission to borrow the funds granted in December 1871 it is likely that construction of the bridge proceeded as soon as weather permitted in 1872. The use of the skewback patented by Rezner in July 1872 adds weight to this assumption. Most likely, the skewback was introduced and utilized prior to the patent approval, making the installation of the skewback in the Tioronda Bridge a very early application of Rezner's patented design.

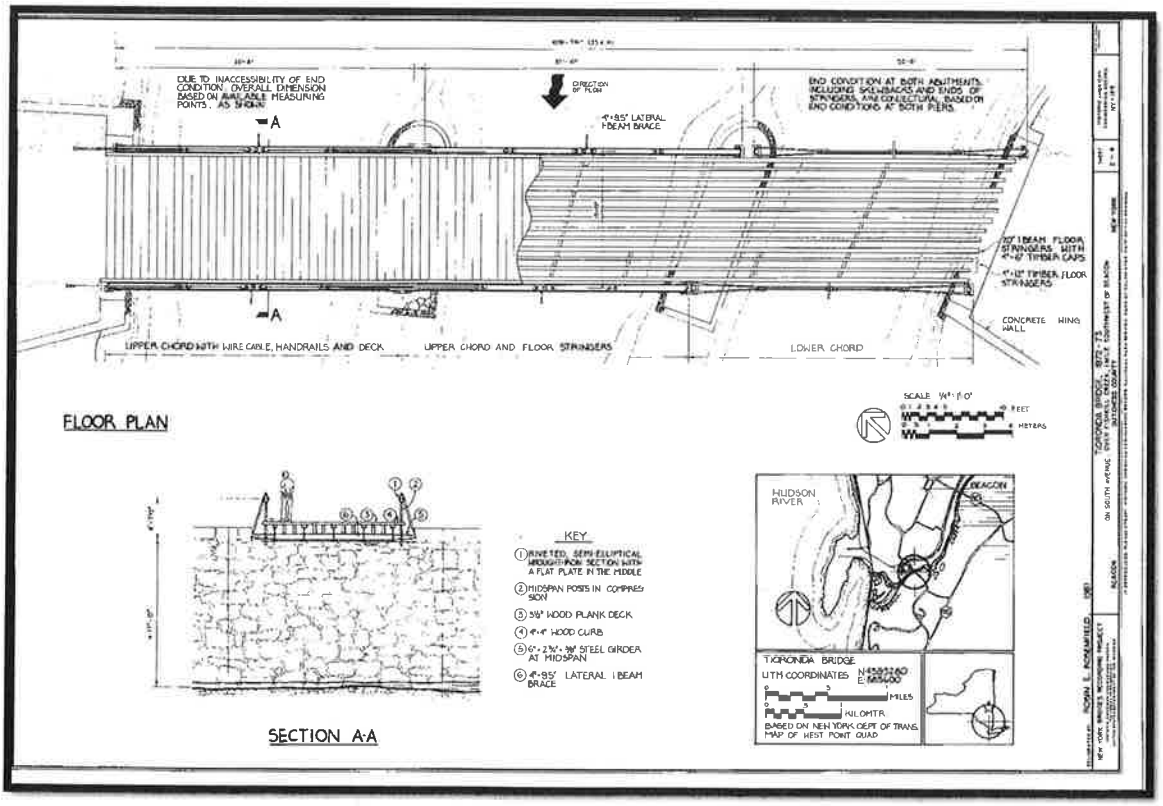
In 1871 the Town of Fishkill recorded a payment of $588.98 to Daniel Green for "Tioronda (sic) Bridge," possibly for the construction of the two stone abutments and two stone piers upon which the bridge was erected. During this time period bridge building companies required that the abutments and piers be built by the town under a separate contract with a local mason. In 1872, the Ohio Bridge Company was awarded a contract to build an iron truss swing bridge across Wappingers Falls, also in the Town of Fishkill. This contract required the county to "furnish and have ready the substructure [abutments and center pier] of the bridge."

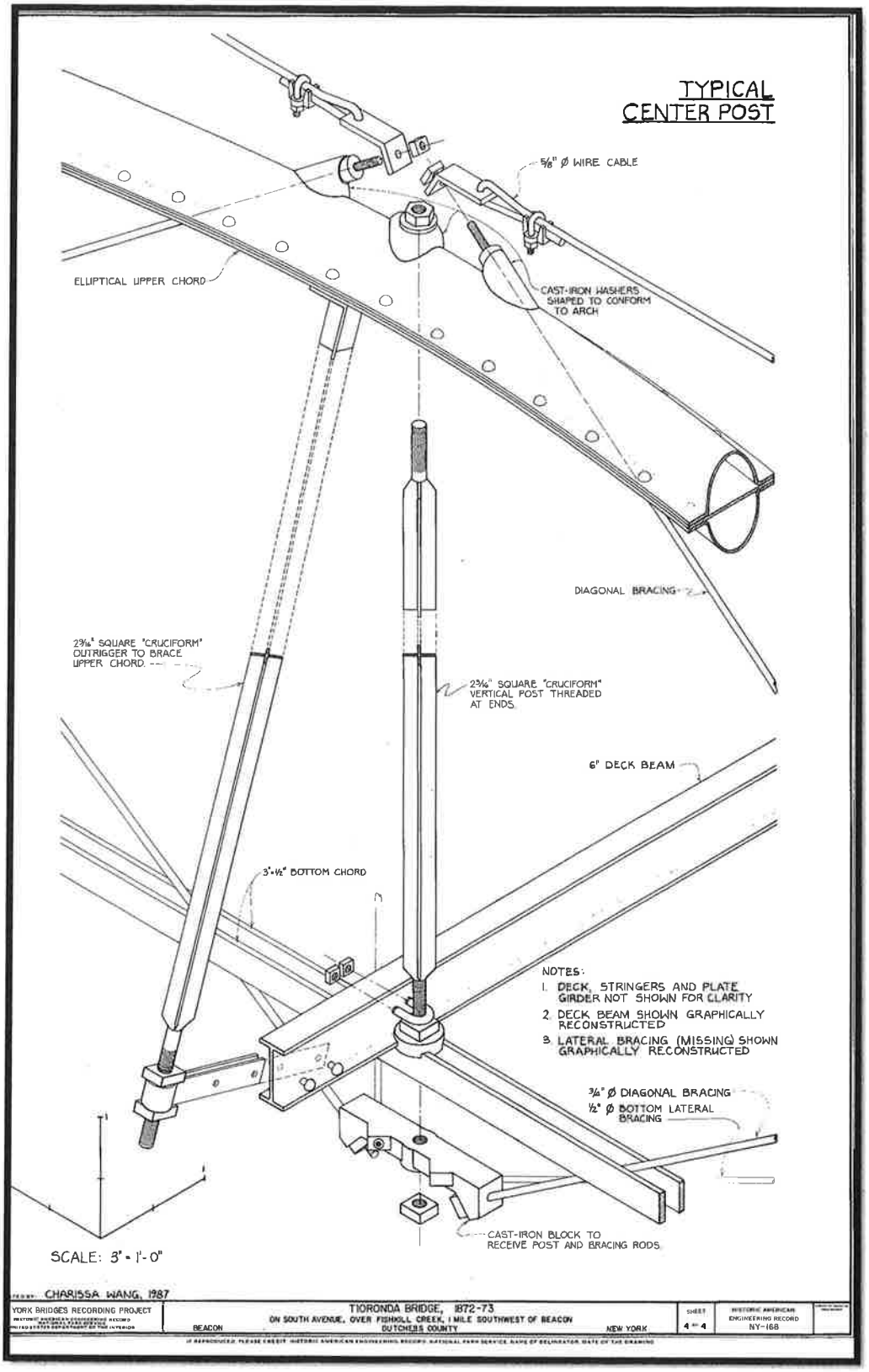
The Ohio Bridge Company was represented by Henry C. Haskell. Haskell operated the Albany Iron and Machine Works and advertised his company as the manufacturer of "steam engines and boilers, bridge and roof bolts... iron work of all kinds, railings, balconies, verandas, iron bridges, wrought iron beams, doors and shutters" and also "Reyner, (sic) Stone & Co.'s [most likely is an erroneous reference to Rezner, Glass, and Schneider] patent improved Wrought Iron Tubular Arch Truss Bridge."

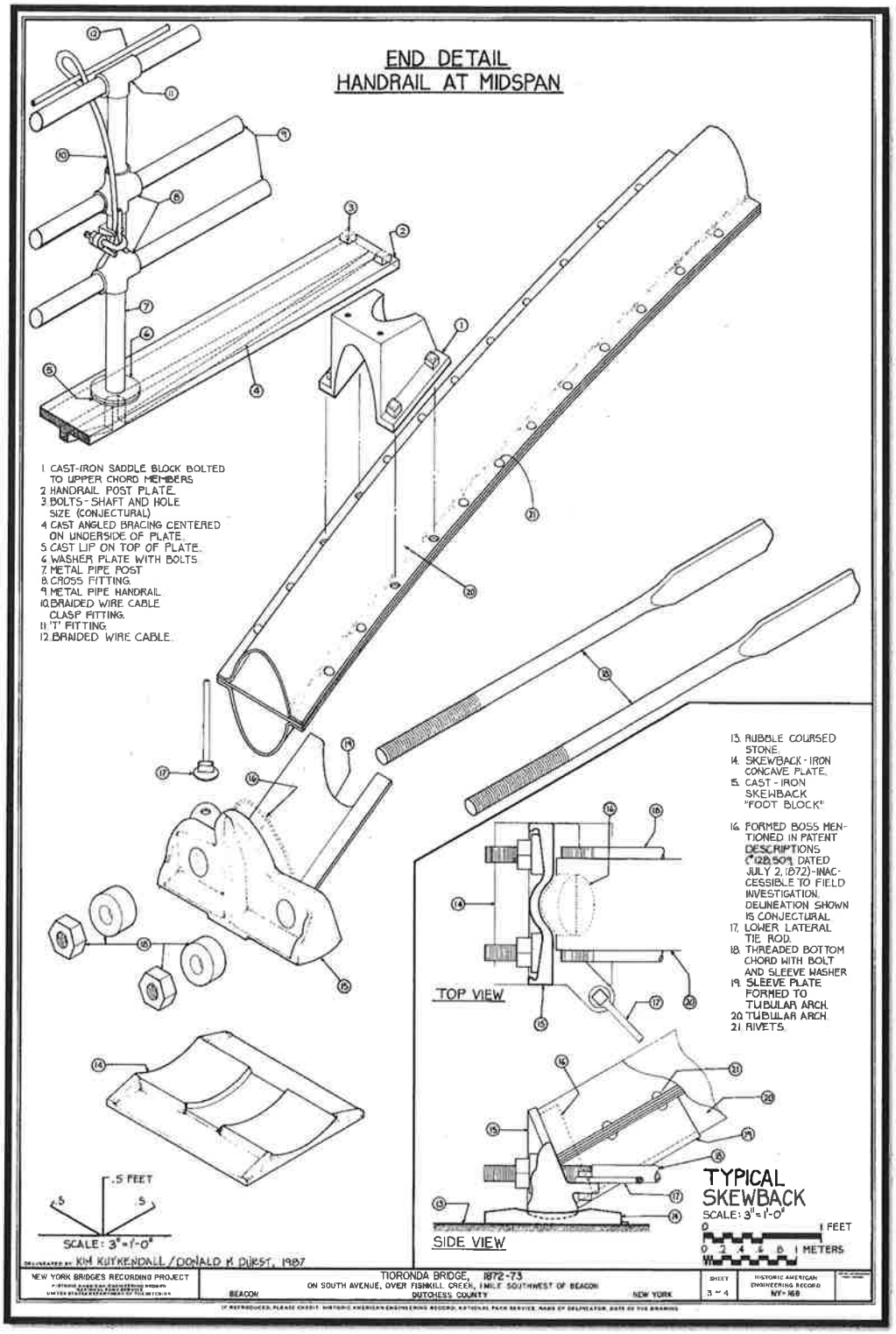
With Haskell as the agent of the Ohio Bridge Company in 1871, it is possible that the iron for the Tioronda Bridge was fabricated by the Albany Iron and Machine Works at its 50-56 Liberty Street foundry.

HAER DRAWINGS

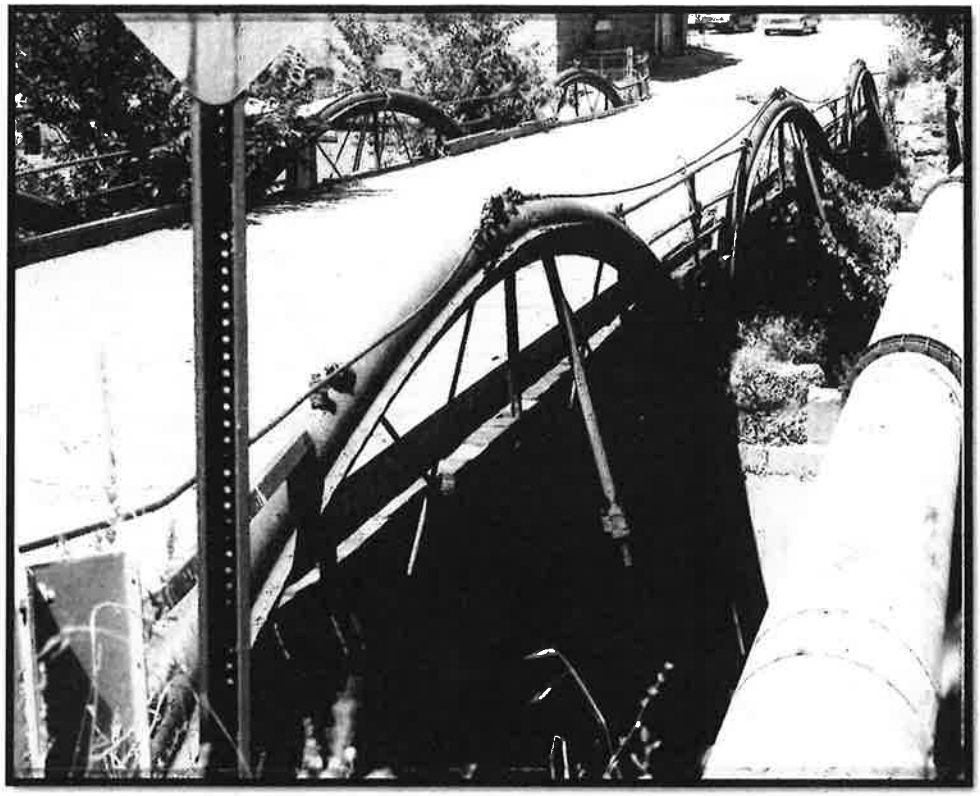


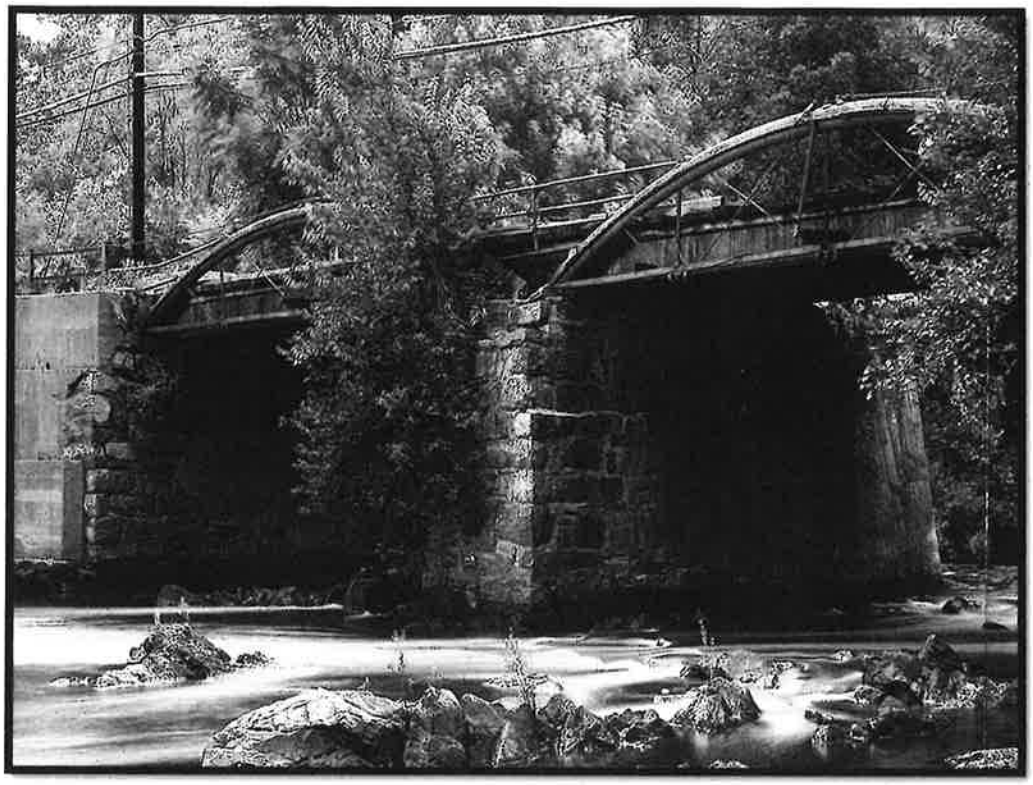



TYPICAL
CENTER POST
5/8" Ø WIRE CABLE
ELLIPTICAL UPPER CHORD
CAST-IRON WASHERS SHAPED TO CONFORM TO ARCH
DIAGONAL BRACING
2 3/16" SQUARE "CRUCIFORM" OUTRIGGER TO BRACE UPPER CHORD.
2 3/16" SQUARE "CRUCIFORM" VERTICAL POST THREADED AT ENDS.
6" DECK BEAM
3"x 1/2" BOTTOM CHORD
NOTES:
1. DECK, STRINGERS AND PLATE GIRDER NOT SHOWN FOR CLARITY
2. DECK BEAM SHOWN GRAPHICALLY RECONSTRUCTED
3. LATERAL BRACING (MISSING) SHOWN GRAPHICALLY RECONSTRUCTED
3/4" Ø DIAGONAL BRACING
1/2" Ø BOTTOM LATERAL BRACING
CAST-IRON BLOCK TO RECEIVE POST AND BRACING RODS.
SCALE: 3" = 1'-0"
DRAWN BY: CHARISSA WANG, 1987
YORK BRIDGES RECORDING PROJECT
TIORONDA BRIDGE, 1872-73
ON SOUTH AVENUE, OVER FISHKILL CREEK, 1 MILE SOUTHWEST OF BEACON
BEACON
DUTCHESS COUNTY
NEW YORK
SHEET 4 OF 4
HISTORIC AMERICAN ENGINEERING RECORD
NY-168

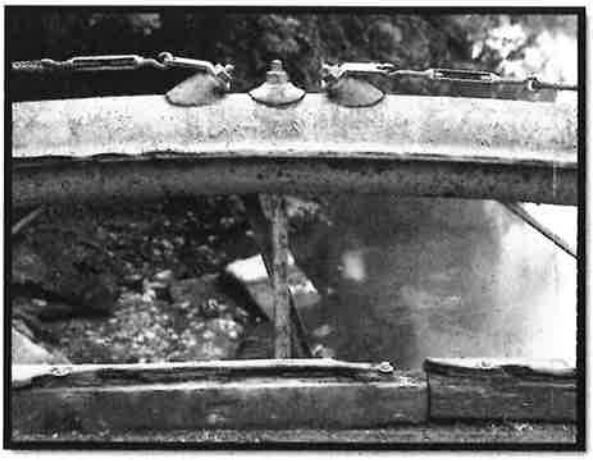

END DETAIL
HANDRAIL AT MIDSPAN
1. CAST-IRON SADDLE BLOCK BOLTED TO UPPER CHORD MEMBERS
2. HANDRAIL POST PLATE.
3. BOLTS - SHAFT AND HOLE SIZE (CONJECTURAL)
4. CAST ANGLED BRACING CENTERED ON UNDERSIDE OF PLATE.
5. CAST LIP ON TOP OF PLATE.
6. WASHER PLATE WITH BOLTS
7. METAL PIPE POST
8. CROSS FITTING.
9. METAL PIPE HANDRAIL.
10. BRAIDED WIRE CABLE CLASP FITTING.
11. 'T' FITTING.
12. BRAIDED WIRE CABLE.
13. RUBBLE COURSED STONE.
14. SKEWBACK - IRON CONCAVE PLATE.
15. CAST - IRON SKEWBACK "FOOT BLOCK"
16. FORMED BOSS MENTIONED IN PATENT DESCRIPTIONS ("220,504, DATED JULY 2, 1872) - INACCESSIBLE TO FIELD INVESTIGATION. DELINEATION SHOWN IS CONJECTURAL.
17. LOWER LATERAL TIE ROD.
18. THREADED BOTTOM CHORD WITH BOLT AND SLEEVE WASHER
19. SLEEVE PLATE FORMED TO TUBULAR ARCH.
20. TUBULAR ARCH
21. RIVETS.
TOP VIEW
SIDE VIEW
.5 FEET
.5
.5
SCALE: 3"=1'-0"
TYPICAL SKEWBACK
SCALE: 3"=1'-0"
0 1 FEET
0 2 4 6 METERS
DELINEATED BY KIM KUYKENDALL / DONALD M. DUEST, 1987
NEW YORK BRIDGES RECORDING PROJECT
TIORONDA BRIDGE, 1872-73
ON SOUTH AVENUE, OVER FISHKILL CREEK, 1 MILE SOUTHWEST OF BEACON
BEACON
DUTCHESS COUNTY
NEW YORK
SHEET 3 - 4
HISTORIC AMERICAN ENGINEERING RECORD NY-168

HAER PHOTOGRAPHS (typical)



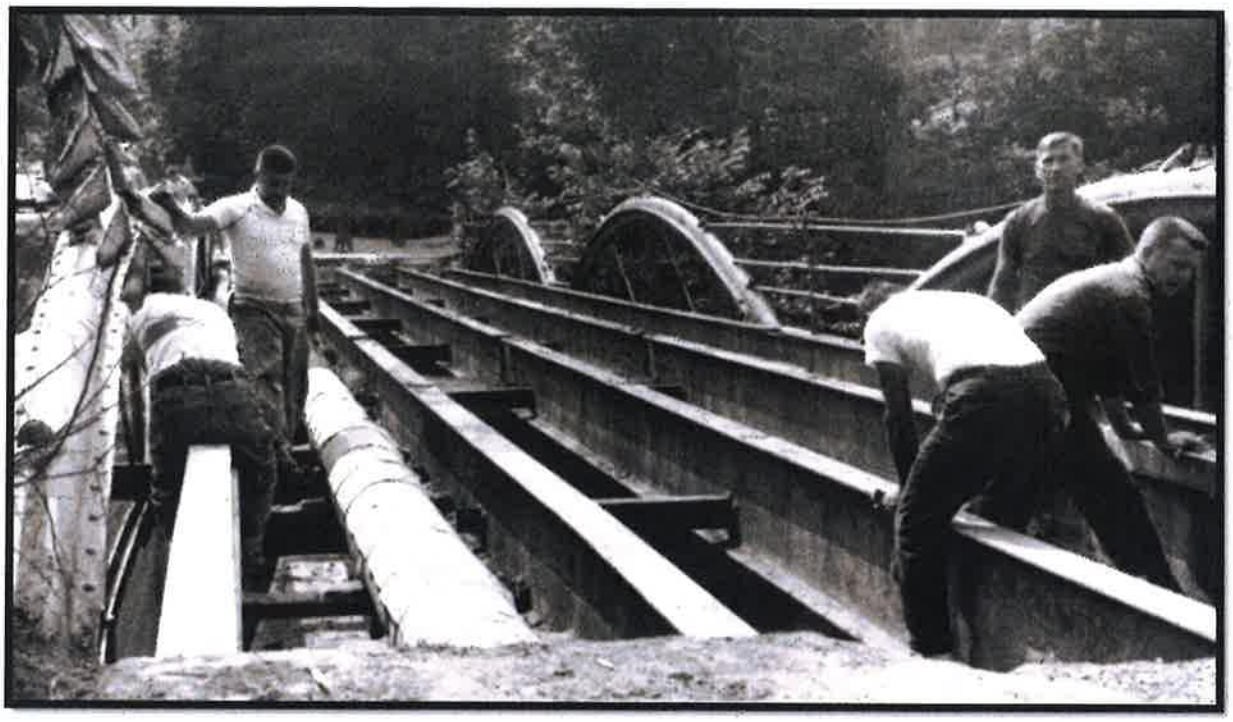


Bridge Seat detail on midstream pier



Detail of top chord diagonals &vertical

Replacing Deck in 1955 With Five Steel Stringers



Removing Bridge from Site and Storage 2006

Removing Center Arch

Removing Last Arch

Arches in temporary storage, out of doors at Welding Studio.

Three arches in temporary storage in seeming good condition.

Arches in storage near Transfer Station.
before growth of weeds, etc.

Arches in Storage near Transfer Station,
after growth of weeds, etc.

General Notes

The bridge suffered its greatest corrosion at its ends setting on the abutments. At this location the wrought iron was buried in dirt and debris. This along with water accelerates the corrosion of the wrought iron. The cast iron bridge seats at this location, while in the same environment, did not suffer any corrosion. Less corrosion is found at the ends of the arches setting on the piers, as they were not buried in soil, etc.

Typical corrosion at abutments L0 top tube and some bottom tube section and plate gone. Arch #4

Corrosion showing top and bottom semi-ellipse and middle plate gone

Rust Bulge

Rust bulge is common in wrought iron (and steel) bridges when two or more plates are riveted together. The moisture and water that collects in these areas promotes corrosion. As the iron

corrodes it increases in volume pushing the plates apart between the rivets. If the expansion is great enough it pops the heads of the rivets off. (see below)

Rust bulge, rivets popped, Arch 1 joint U3, note missing portion of cruciform vertical

Looking up tube section at L0 for arch #2. Diagonal U1-L1 shown in background

Looking back up the tube it appears that the plate section may have corroded on the right side due to rust bulge for some distance. It will not be possible to determine the extent of this corrosion until the pack rust in the rust bulges is removed. Since the tube is closed it is not possible therefore, by visual means, to determine how much corrosion has taken place along the tube, especially on the plate riveted between the two rolled wrought iron semi-elliptical segments. Hammer blows indicate that the metal is still sound over most of the length of the tubes. This is the most problematic issue in the restoration of the arches.

That the tubes retain some of their strength was evident when the arches were picked up at two points about 10 ft. apart and there was no deflection of the ends.

Some corrosion has also taken place where the cruciform verticals and diagonal rods pass through the top tube. In addition, all threads on these members are corroded making them unusable.

End view of bridge seat and corroded threads from lower tension straps.

Bolts or rivets?

It is recommended that bolts be used initially to replace all removed rivets. After all restoration is completed a riveting specialist can be contracted to replace all of the bolts in one visit.

Top Chord splice couplings

The top chord tube sections are connected by splice plates as shown below.

Splice coupling - note coupling riveted to one end of tube in shop and bolted through drilled and tapped hole on adjacent tube section in the field. Note also that plate has completely corroded between the flange of the top and bottom tube sections. Image from arch #6.

Note existing splice connection on top tube and lower tube members. Some riveted some bolted. Also note rust bulge, rivets popped and probable plate corrosion. Arch #1

Inspection, Wednesday October 10, 2018

I arrived at the site at 8:45AM expecting that the arches would have been laid out as requested

Arches as of 9:00AM

At that time two workers at the Transfer Station came over and I told them that the arches should have been laid out. They were very helpful and called their boss who instructed the men, who had previously placed the arches against the fence several years ago, to spread them out as requested. Using a backhoe with canvas slings between 9:30 and 10:30 they spread all the arches out as shown below. They had no blocking so they set them directly on the ground which complicated the visual inspection.

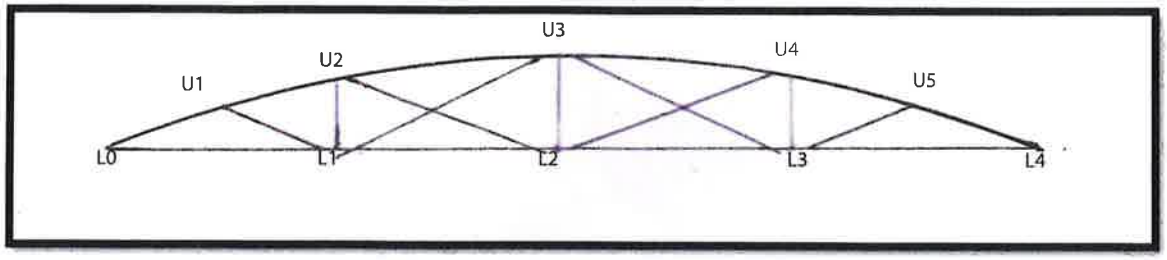
Lifting first arch from pile

All six arches laid out on the ground

I started the inspection on arch #1 while the crew was lifting and setting the other five arches. The crew was very careful lifting and setting the arches so that no further damage was inflicted on them. The results of the visual inspection follow. It should be understood that I could only inspect and measure those parts of the arches that were visually accessible.

Arches 1, 2, 3 and miscellaneous pieces

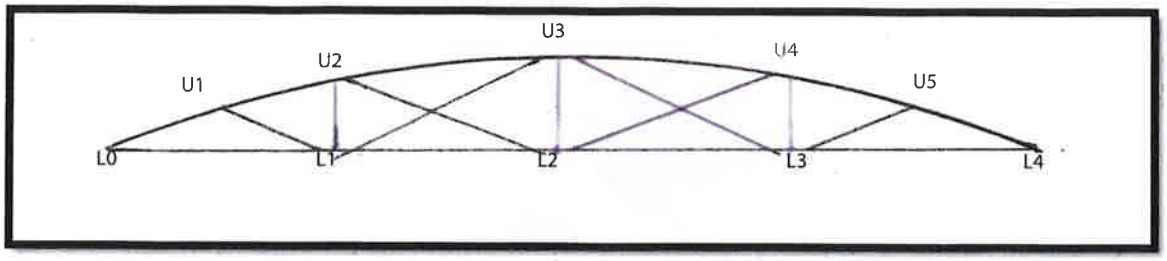
Arch # 1 (number one painted in red at ends and center

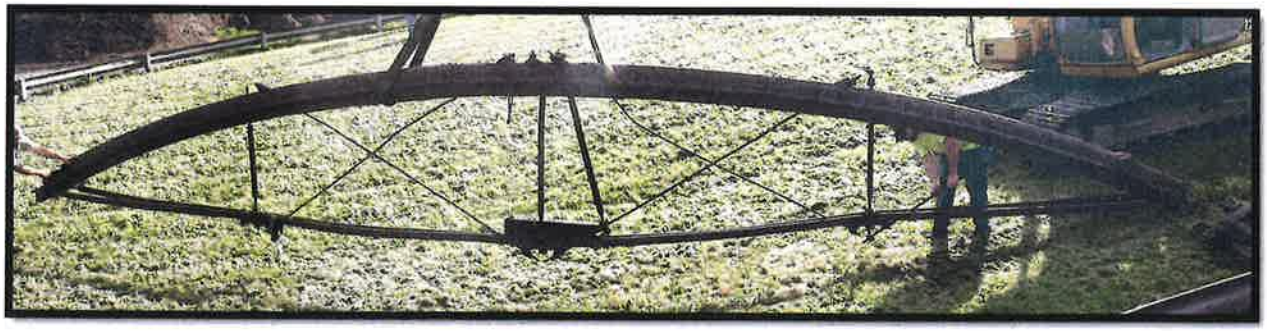


(note image flipped 180 degrees, e.g. right is left.)

Length not determinable due to ends missing
Radius of arch (centerline of tube) 37' 6" (measured chord and middle ordinate)
All diagonals bent, threads bad
Missing end of tube left and right L0, L4
Lower tension bars broken in two places, little section loss
Missing bearing plates both ends
All cruciform verticals okay, threads bad
Threads at ends of lower tension chord poor
Rust bulge common with several rivets popped along tube.
All top chord washers in place
Lower casting connecting diagonals, on right L3, cracked.

Arch #2 (number 2 painted in red at ends and center





Length = 36' 6"
Radius of arch (centerline of tube) 37' 6"
All crossed diagonals bent
Left end L0 of tube partially corroded completely through top segment and plate
Lower tension bars in tact, some section loss at middle lower chord point
End shoes okay, missing bearing plates both ends
Two end cruciform verticals okay, center broken at top
Threads at ends of lower tension chord and top and bottom ends of diagonals and verticals poor
Rust bulge common with several rivets popped along tube.
Missing three top chord washers
Section loss at ends of diagonals

Lower casting connecting diagonals on right L3 cracked.

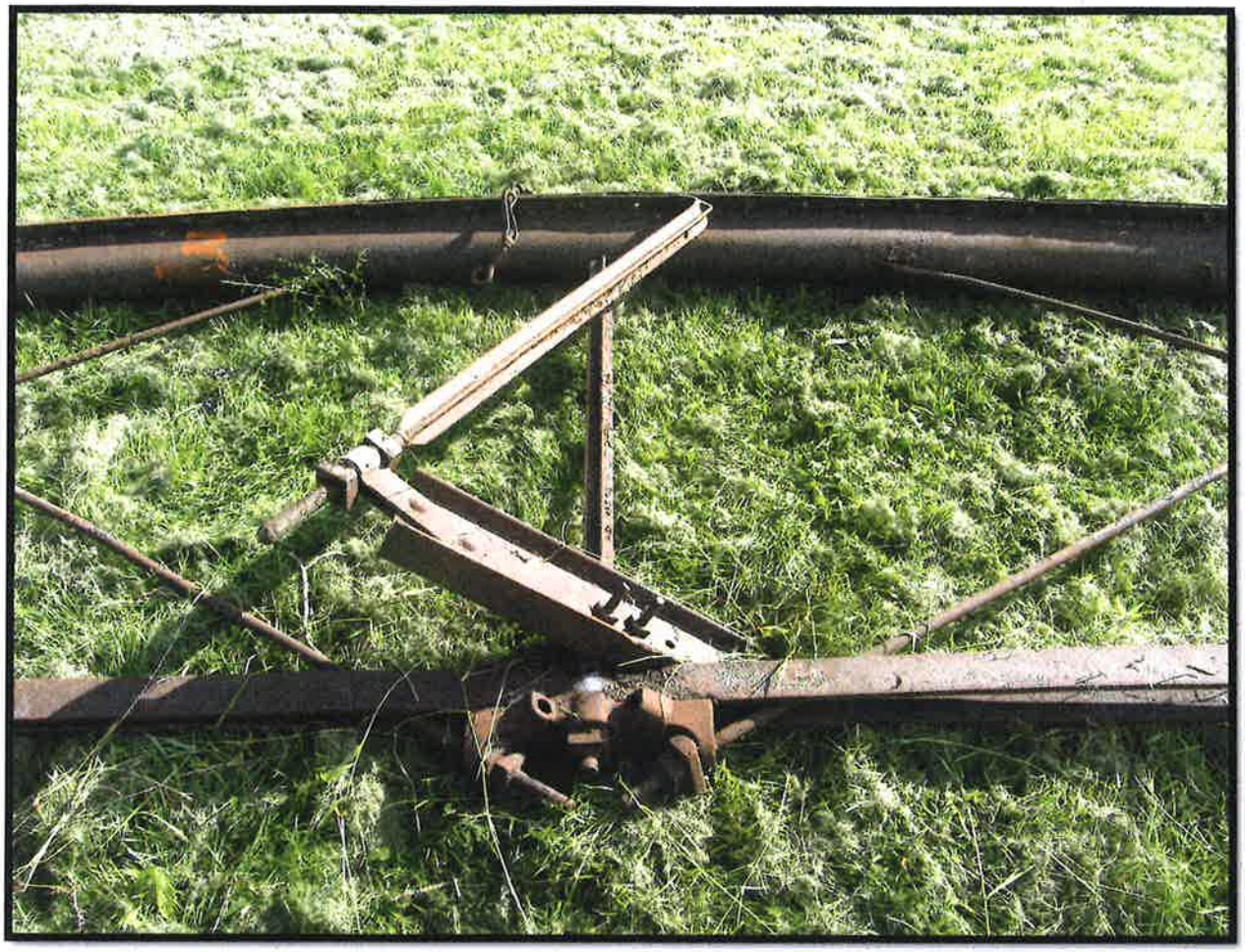
Joint L4

Joint L0, top shot

Joint L0 under

Joint L0, side shot

Joint L0, side shot



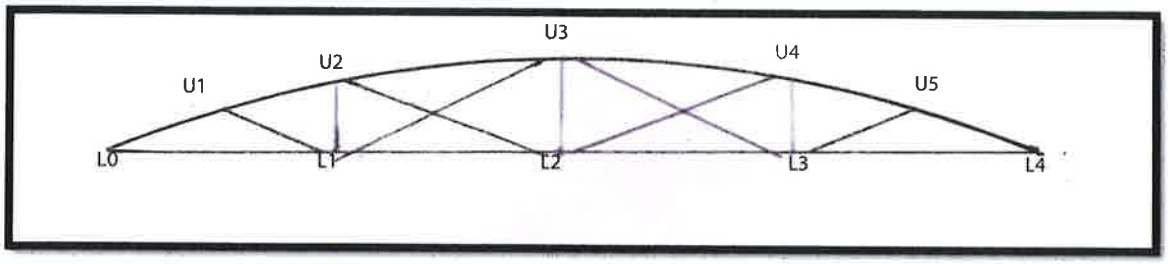
Center vertical, with cruciform brace, etc. L2, U3

Tentative steps required to restore Arch #2 - these are called tentative steps, as they all cannot be confirmed until engineer is on site with the contractor doing the work.

1. Remove all rust bulge and inspect the three members of iron used to fabricate the tube. (note this is the critical step to determine if and how the arch can be rehabilitated. If the middle flat plate is corroded such that it is detached from the upper and lower tube sections full restoration would be very expensive) If the middle plate is intact, or deemed in the field to sufficiently intact, use heat and hammering (without damaging metal) to close up space that has been deflected upwards and replace any popped rivets with bolts.
2. At the ends of all diagonal threaded bars cut off approximately 1'-0" of bar and weld on new threaded steel bar. Typically bridge companies would increase the diameter of bars on the ends so that the net section after the threads were cut would be equal to or slightly greater than the rest of the bar. I don't think this would be necessary in this case so I would use the diagonal bars from cannibalized arches and thread them. On cruciform verticals and ends of lower chord tension bars cut off approximately 1'-0" and use new threaded steel bars of same diameter. Use new square nuts to adjust members. Replace these member using existing cast iron washers and new nuts.
3. Straighten diagonals and lower chord tension bars.

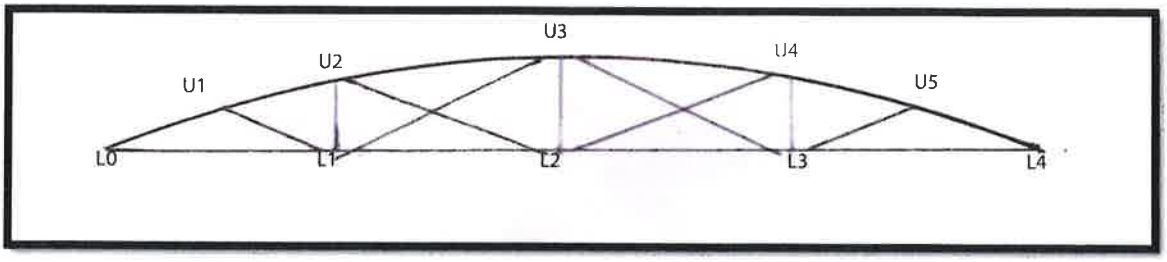
4. At L0 remove rivets (by chipping or torch) and cut out (making sure cut is radial) approximately 5' (to be determined in the field) of corroded top tube and plate. Remove a corresponding length from arch #6 (or other appropriate arch). Add new plate to replace corroded plate. Remove splice coupling from arch #6. Connect this plate to the end of the existing plate using a method to be determined when the splice point is determined. Connect splice coupling to existing top tube member with bolts into drilled and tapped holes. Place top chord tube member onto plate lining up existing rivet holes if possible or drilling new ones as required. Connect top chord tube member to splice coupling using bolts into drilled and tapped holes. Note rivet spacing near the end of the member is closer than on the rest of the tube.
5. Any portion of the tension chord that has suffered section loss should be investigated on site to determine the best way of restoring the member to full capacity.
6. Adjust cruciform brace as required.
7. Machine two new base plates to match those shown on the HAER drawings.
8. Apply three coats of paint.

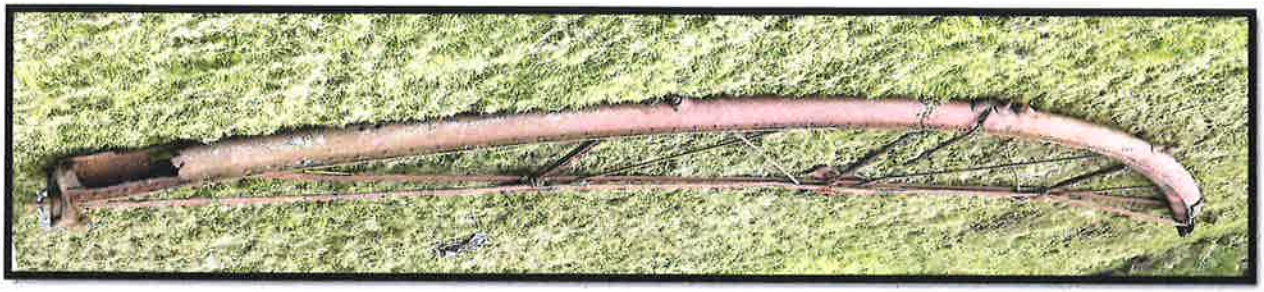
Arch #3 (number 3 painted in red at ends and center



Length = not known due missing ends of tube
Radius of arch (centerline of tube) 37' 6"
All crossed diagonals bent
Left end L0 and right end L4 of tube missing
Lower tension bars missing two members at left end and right end, shoes okay but not connected,
Missing bearing plates both ends.
Cruciform verticals okay, threads bad
Threads at ends of lower tension chord and top ends of diagonals and verticals poor
Rust bulge common with several rivets popped along tube.
Missing four top chord washers

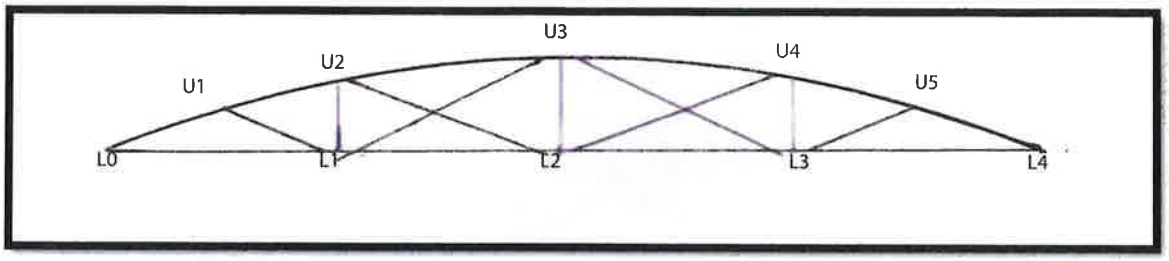
Arch #4 (number 4 painted in red at ends and center





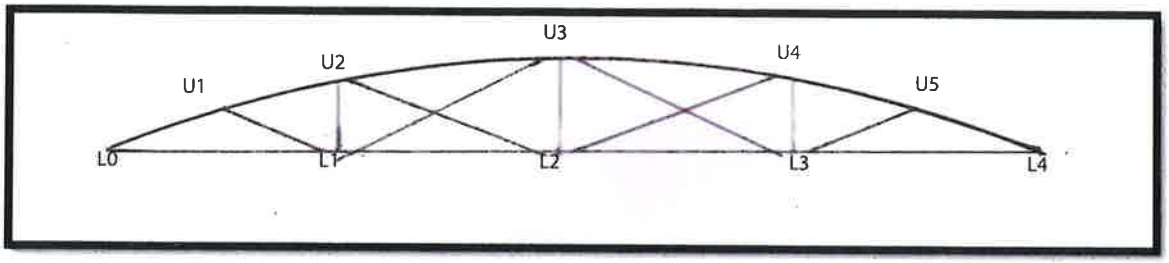
Length = 32'10" (measured half length and doubled)
Radius of arch (centerline of tube) 37' 6"
All crossed diagonals bent
Left end of tube and bridge seat off, right end badly corroded (top and plate). (Note image flipped 180 degrees)
Lower tension bars okay, missing bearing plates both ends
Cruciform verticals okay, threads bad.
Threads at ends of lower tension chord and top ends of diagonals and verticals poor
Rust bulge common with several rivets popped along tube.
Missing four top chord washers

Arch #5 (number 5 painted in red at ends and center)



Length = 31' 8"
Radius of arch (centerline of tube) 37' 6"
All crossed diagonals bent
Left end of tube badly corroded
End shoes okay, missing bearing plates both ends
Cruciform verticals okay except threads
Threads at ends of lower tension chord and top ends of diagonals and verticals poor
Rust bulge common with several rivets popped along tube.
Missing two top chord washers

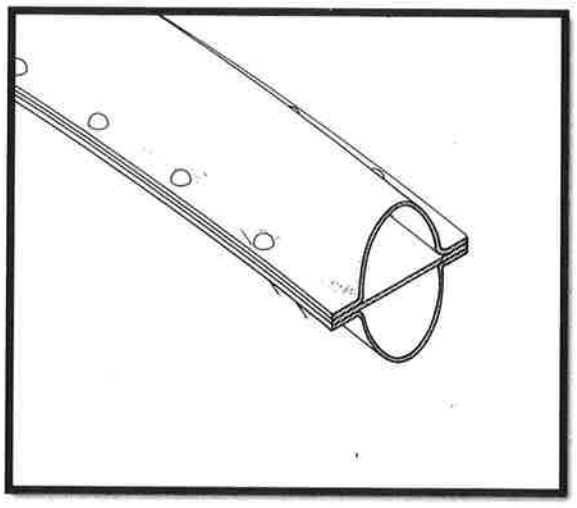
Arch #6 (number 6 painted in red at approximate ends and center



Length = not known due to missing ends
Radius of arch (centerline of tube) 37' 6"
Tube broken in half with missing ends
No end shoes, missing bearing plates both ends
Cruciform verticals missing,
Rust bulge common with several rivets popped along tube.

Conclusion

Based upon the visual inspection of all six arches, arch #2 and arch #4 appear to be the best candidates for restoration. I would recommend starting with arch #2 and if the methods adopted work out well move to arch #4. As mentioned in General Notes the greatest impediment to a complete restoration is the possible separation of the flanges of the top and bottom tube sections from the flat plate connecting them. (See below) It will not be possible to determine the extent of this corrosion and separation until the rust bulges are removed. If this separation is prevalent the cost to rebuild the arches to their original geometry would be excessive requiring the removal of all the rivets along the flanges and the insertion of an entirely new plate along the entire length, as well as a possible build up of the flanges of the top and bottom sections, and finally a re-riveting of the entire length of the members making up the arch.



Tube section showing semi-elliptical sections and flat plate

The function of the flat plate is to give lateral stiffness to the elliptical tube as well as, to a lesser degree, to give increased section to resist compression stresses along the arch. It is believed by the writer that the tube sections alone would be adequate to resist the dead load stresses of the member if used for display purposes only. It would in the writer's opinion, rule out the arches carrying the live load associated with a pedestrian bridge, as it would be difficult for any engineer to actually assign a reasonable cross section of a restored tube given the unknown thickness of the tube along its length due to corrosion. And like a chain being only as strong as its weakest link, a tube is only as good as its weakest point (or lowest cross section). The other four arches are not candidates for restoration given the extent of their deterioration.

The diagonals, verticals and lower tension chord can be restored to original dimensions and, with new threaded ends welded to original members, adjusted as required. The restored arches will have the appearance of the original arches. Structurally they will be different in that the plate between the tube sections may not be continuous.

Since the live load any restored arch can safely carry is unknown, or not calculable, the writer believes the only feasible solution is to restore one, possibly two arches, for display purposes, without a continuous plate connecting the tubular sections. One suggestion would be to place one arch near the South Avenue bridge site, assuming a new bridge will be placed at this location, with an interpretive panel explaining the history and significance of the original bridge.

City of Beacon Workshop Agenda
11/26/2018

Title:

Municipal IDs

Subject:

Background:

ATTACHMENTS:

Description	Type
LL Muni IDs	Local Law
Muni IDs_Middletown	Backup Material
Muni IDs_Roselle	Backup Material
Muni IDs_Poughkeepsie	Backup Material
PK Muni vs NYS ID	Backup Material

DRAFT LOCAL LAW NO. ____ OF 2018

CITY COUNCIL
CITY OF BEACON

PROPOSED LOCAL LAW TO CREATE CHAPTER 42 OF THE CODE OF THE CITY OF BEACON

A LOCAL LAW to create Chapter 42 of the Code of the City of Beacon to establish a Municipal Identification Program in the City of Beacon.

BE IT ENACTED by the City Council of the City of Beacon as follows:

Section 1. Chapter 42 of the Code of the City of Beacon entitled "Municipal Identification Program" is hereby created as follows:

§ 42-1 Legislative findings, intent and purpose.

A. The City Council finds that many residents of the City of Beacon often times do not have access to various forms of identification and thus have difficulty obtaining services, such as bank accounts, access to health care services, as well as access to public/government buildings. This barrier leaves thousands of individuals- including immigrants, homeless people, transgender people, senior citizens, young people, and those who have been formerly incarcerated- without access to critical services. It is the intent of the City Council to build the City of Beacon's standing as a welcoming and inclusive center for all residents, without regard to a person's race, national origin, religion, sex, sexual orientation, gender identity, disability, immigration, housing, or financial status.

B. Residents' lack of access to acceptable forms of identification also raises public safety concerns for the City. Residents without access to bank accounts often carry large amounts of money on their person or store it in their home making them targets for crime. In addition, residents who cannot produce proof of identity are often reluctant to report crimes to the police that they suffer or witness. Studies show that immigrant populations in particular are victimized by crime at rates similar to or greater than the general population but immigrant populations report crime at lower rates than the general population. This under-reporting of crime poses a serious public safety problem and erodes the ability of law enforcement to function effectively in the City.

C. A City of Beacon identification card would serve to reduce the impact of the above mentioned conditions, improve public safety, and enable all City of Beacon residents to participate more fully in and become an integral part of the community. A City of Beacon identification card would encourage crime reporting and witness cooperation, both key elements in building a safer community. Such cards would also potentially enable more City residents to open bank accounts, access parks or other public facilities, and receive resident discounts at local businesses, events, and arts institutions. The cards would also benefit children and youth who become lost and normally possess no identification or emergency contact information and elderly citizens who no longer drive and therefore no longer possess a valid driver's license. Accordingly, it is in the best interests of its residents for the City to issue its own municipal identification card.

D. By authorizing the creation of this program, the City Council does not intend to expand identification requirements for access to basic services or exercise of constitutional rights. The program should not be used as a proxy to require individuals to produce government-issued identification to access services and benefits where such identification is not presently required, such as registering to vote or casting a ballot.

§ 42-2 Definitions.

BEACON ID CARD

An identification card issued by the City of Beacon that shall, at a minimum, display the cardholder's photograph, name, date of birth, address, ID card number, and card expiration date. Such identification card shall be designed in a manner to deter fraud which may include; bar codes, serial numbers, watermarks, City Seal, or other security measures used to protect against fraud. Additionally, the card does not bestow eligibility for state or federal financial benefits, therefore significantly reducing the incentive to fraudulently obtaining an ID card.

CITY

The City of Beacon or any department, agency, board, or commission thereof.

RESIDENT

A person who can establish that he or she is a current resident of the City of Beacon pursuant to **§ 42-5**.

§ 42-3 Beacon ID Card program.

The City Clerk shall act as the custodian of all records and applications. The City shall work with such groups as Nobody Leaves Mid-Hudson to implement the Beacon ID Card program.

§ 42-4 Issuance of Beacon ID Cards.

A. The Beacon ID Card shall be available to any resident of the City over the age of 14, regardless of his or her race, color, creed, age, national origin, alienage or citizenship status, gender identity, sexual orientation, disability, marital status, partnership status, any lawful source of income, housing status, status as a victim of domestic violence or status as a victim of sex offenses or stalking, or conviction or arrest record, provided that such resident is able to meet the requirements for establishing his or her identity and residency as set forth in this chapter.

B. The City shall establish an application fee for municipal identification cards of $10 for adults and $5 for people under the age of 18 or over the age of 62.

C. The Beacon ID Card shall be valid for a period of 2 years from the date of issuance, and thereafter must be renewed for a fee of $5.00 in order to keep the ID Card active. Only residents with a valid, active Beacon ID Card shall be eligible to receive Beacon ID Card benefits.

§ 42-5 Beacon ID Card eligibility.

A. Eligibility: In order to obtain a Beacon ID Card an applicant must complete an application and provide documentation in order to establish proof of identity and proof of residency within the city as follows:

(1) Proof of Identity: In order to establish identity, an applicant shall be required to attain 4 points of identification by producing at least one of the following documents from LIST ONE (4 points), current or expired not more than 5 years prior to the date of the Beacon ID Card application OR one document from LIST TWO (3 points) along with one document from LIST THREE (1 point).

(a) **List One** (4 point documents): U.S. or foreign passport; U.S. state driver's license; U.S. state identification card; U.S. permanent resident card; a consular identification card; a photo identification card with name, address, date of birth, and expiration date issued by another country to its citizens or nationals as an alternative to a passport for re-entry to the issuing country; a national identification card with photo, name, address, date of birth, and expiration date; a foreign driver's license; U.S. or foreign military identification card; a current visa issued by a government agency.

(b) **List Two** (3 point documents): U.S. Permanent Resident (Green Card); U.S. Citizenship and Naturalization Certificate; U.S. Federal Government or Tribal-issued photo ID; State Veterans ID with photo.

(c) **List Three** (1 point document): Social Security Card; EBT Card; High School or College Diploma; ITIN (Individual Taxpayer Identification Number) card or authorization letter (must be accompanied by an ID with a photograph); Voter Registration Card.

(2) Proof of Residency: In order to establish residency, an applicant shall be required to produce at least one of the following items which must show the applicant's name and residential address located within the city and must be dated no more than sixty days prior to the date such document is presented, unless otherwise indicated below:

(a) A utility bill;

(b) A current residential property lease;

(c) A local property tax statement dated within one year of the date it is submitted;

(d) A local real property mortgage payment receipt;

(e) A bank account statement;

(f) Proof that the applicant has a minor child currently enrolled in a school located within the city;

(g) An employment pay stub;

(h) A jury summons or court order issued by a federal or state court;

(i) A federal or state income tax or refund statement dated within one year of the date it is submitted;

(j) An insurance bill (homeowner, renter, health, life, or automobile insurance);

(k) Written verification issued by a homeless shelter located within municipality that confirms at least fifteen days residency;

(l) Written verification issued by a hospital, health clinic or social services agency located within the City confirming at least fifteen days residency.

§ 42- 6 Confidentiality of Beacon ID Card application information and data.

A. The City will retain originals or copies of records provided by an applicant to prove identity or residency for a Beacon ID Card.

B. The City will retain the name, date of birth, card number, and expiration date for all IDs, giving the City the ability to prevent duplicates.

C. The City shall not disclose information about Beacon ID Card applicants to any public or private entity or individual, including federal, state, or city immigration or law enforcement entities, unless disclosure is required by law.

§ 42-7 Access to services.

A. The City's municipal agencies and offices, and appropriate municipal employees, including law enforcement officers, may accept the Beacon ID Card as proof of identity and residency, excluding in cases where acceptance of the Beacon ID Card is precluded by state or federal law.

B. The City may seek to promote and expand the benefits associated with the Beacon ID Card and may take reasonable efforts to promote the acceptance of the Beacon ID Card by banks and other public and private institutions located within the City.

C. The City's municipal agencies and offices may not require the possession of a Beacon ID Card where identification is not already required in order to obtain city services. Provided, however, that the City's municipal agencies and offices may require the possession of a Beacon ID Card to obtain benefits or privileges offered exclusively to those who possess a Beacon ID Card as an incentive to apply for the municipal identity card.

D. The City will train appropriate municipal personnel, municipal offices, and law enforcement officers to ensure that the Beacon ID Card is effectively accepted per its intended use as is outlined in this chapter.

§ 42-8 Language assistance services.

The City may, consistent with all federal, state and local laws, provide language assistance to applicants for the municipal identity cards to facilitate access thereto. The City may identify and implement measures, including but not limited to staff training, community outreach, and language assistance tools, to address the needs of limited English proficient individuals in the successful administration of the Beacon ID Card program.

§ 42-9 Violations.

A. It is a violation of this chapter for any person or entity to undertake any of the following acts. A fine of no more than $100 may be imposed for each violation.

(1) To knowingly present false information in the course of applying for a Beacon ID Card.

(2) To alter, copy, or replicate a Beacon ID Card without the authority of the City.

(3) To use a Beacon ID Card issued to another person, with the intent to cause a third person or entity to believe the holder of the card is the person to whom the card was issued.

Section 2. Numbering for Codification

It is the intention of the City and it is hereby enacted that the provisions of this Local Law shall be included in the Code of the City; that the sections and subsections of this Local Law may be re-numbered or re-lettered by the Codifier to accomplish such intention; that the Codifier shall make no substantive changes to this Local Law; that the word "Local Law" shall be changed to "Chapter," "Section" or other appropriate word as required for codification; and that any such rearranging of the numbering and editing shall not affect the validity of this Local Law or the provisions of the Code affected thereby.

Section 3. Severability

The provisions of this Local Law are separable and if any provision, clause, sentence, subsection, word or part thereof is held illegal, invalid or unconstitutional, or inapplicable to any person or circumstance, such illegality, invalidity or unconstitutionality, or inapplicability shall not affect or impair any of the remaining provisions, clauses, sentences, subsections, words or parts of this Local Law or their petition to other persons or circumstances. It is hereby declared to be the legislative intent that this Local law would have been adopted if such illegal, invalid or unconstitutional provision, clause, sentence, subsection, word or part had not been included therein, and if such person or circumstance to which the Local Law or part hereof is held inapplicable had been specifically exempt there from.

Section 4. Effective Date

This local law shall take effect immediately upon filing with the Office of the Secretary of State. The Beacon ID Card program shall be implemented within 6 months of the passage of chapter.

CITY OF MIDDLETOWN, NEW YORK
COMMON COUNCIL
RECORD OF VOTE

THE FOLLOWING WAS PRESENTED

By Ald.

Sec'd by Ald.

Date of Adoption 11-05-18

Index No:

NAMES	AYES	NOES	ABSTAIN	ABSENT
Ald. Ramkissoon				
Ald. Tobin				
Ald. Kleiner				
Ald. Johnson				
Ald. Jean-Francois				
Ald. Burr				
Ald. Green				
Ald. Masi				
Pres. Rodrigues				
TOTAL				

Whereas, the Communications Committee of the Common Council of the City of Middletown has been exploring the possibility of creating a municipal identification card program for residents of the City of Middletown, and

Whereas, the Committee has recommended that the Common Council adopt a municipal identification card program for residents of the City of Middletown based on similar programs that have been adopted in other communities.

Now, therefore, be it resolved and ordained by the Common Council of the City of Middletown that there is to be added to the Code of the City of Middletown a new Chapter 325, entitled "City of Middletown Identification Card Program," to read in its entirety as follows:

CHAPTER 325 CITY OF MIDDLETOWN IDENTIFICATION CARD PROGRAM

Section 325-1 Purpose of this Chapter

The purpose of this Chapter 325 is to establish an identification card program for residents of the City of Middletown. At the present time, there are certain services and venues (such as the City's dog park) that are open only to persons who can establish their Middletown residency. While the possession of a

valid New York driver's license, for example, is one way to establish one's residency in the City, not all persons who are residents of the City may be able to obtain traditional forms of photographic identification cards such as a driver's license. The intent of the program and this Chapter, therefore, is to assist those who are residents of the City but who may not be able to obtain traditional forms of identification to obtain photographic identification through the City's identification card program. It also the intent of the program and this Chapter that the establishment of a City of Middletown identification card program will help foster community pride and economic activity by giving residents of the City a sense of unity through the identification card program and thus encourage residents to patronize local business establishments that may provide incentives to those who enroll in and use the City of Middletown identification card.

Section 325-2 Identification Card Program Established

A. The City of Middletown hereby establishes a City of Middletown Identification Card Program which shall be issued to individuals who can prove their identity and residency in accordance with the terms of this Chapter. The Office of the City Clerk (hereinafter referred to as the "City Clerk's Office") shall be designated as the department to administer the City of Middletown Identification Card Program.

B. The City Clerk's Office shall issue such policies and procedures necessary to effectuate the purposes of this Chapter, including, but not necessarily limited to, an application form and procedure. The City Clerk's Office shall also make the applications available online.

Section 325-3 Definitions.

"Resident" shall mean a person who can establish that he or she is a current resident of the City of Middletown.

"City of Middletown Municipal Identification ("CMID") Card" or "Middletown Identification Card" shall mean an identification card issued by the City of Middletown.

"City," unless otherwise identified, shall solely mean the City of Middletown.

Section 325-4 Issuance of City Identification Cards; Display; Term; Fee.

A. The City of Middletown Identification Card shall be available to any resident of the City of Middletown, provided that such resident is able to provide the requirements for establishing his or her identity and residency as set forth in this Chapter and of any applicable policies and procedures established by the City Clerk's Office.

B. The Middletown Identification Card will display, at a minimum, the card holder's photograph, name, date of birth, height, address, signature, issuance date, expiration date, and card number.

C. The identification card will be designed in a manner to deter fraud, which may include: bar codes, serial numbers, watermarks, the City seal, and/or other security measures to deter fraud.

D. The City of Middletown Identification card will be valid for four (4) years from the date of issuance. Residents age fourteen (14) or over may apply for a card. Relocation out of the City invalidates the City of Middletown Identification Card which should then be returned to the City for destruction.

E. The fee for the issuance of the City of Middletown Identification Card will be $15.00 for adults and $7.00 for children under the age of 18, veterans, the disabled and senior citizens (over age 62). The fees for renewal of the card shall be the same. The fee for any change of information shall be $5.00. The City Clerk may waive such fees in his/her discretion based upon the information presented with any application.

Section 325-5 Proof of Residency and Identity.

A. In order to obtain a City of Middletown Identification Card, an applicant must establish his or her identity and residency within the City of Middletown. The City of Middletown Identification Card Program shall use the following point system to determine if applicants are able to prove identity and residency in the City of Middletown. 6 points of proof are required: 4 identification plus 2 residency points. All documents must be original or certified copies, and bear the required state and/or municipal seals.

<u>Proof of Identity and/or Residency</u>

4-Point Documents for *both* Identity and Residency

U.S. State Driver's License or Learner's Permit (photo ID required)
U.S. State Identification Card
Jury Summons or Court Order Issued by Federal, State or City Court (must reflect identity and address)

<u>Proof of Identity</u>

4-Point Documents.

U.S. or Foreign Passport
U.S. or Foreign Military ID card

U.S. or Foreign Birth Certificate
U.S. Permanent Resident (Green Card)
Consular ID with photograph
Visa or U.S. Work Permit (must be current)
National Identification card (must have photo, name, address, date of birth and expiration date)
Foreign Driver's License
A Photo Identification Card with name, address, date of birth, and expiration date issued by another country to its citizens or nationals as an alternative to a passport for re-entry to the issuing country

3-Point Documents

U.S. Citizenship and Naturalization Certificate
U.S. Boaters License
Temporary Protected Status (TPS) card with photo
State Veterans ID with photo
U.S. Federal Government or Tribal-issued photo ID

2-Point Documents

NY Auto Registration (must be valid)

1-Point Documents.

ITIN card (must be accompanied by an ID with a photograph)
Written verification issued by a social services agency or homeless shelter
Social Security card
Electronic Benefit Transfer (EBT) card
High school or college diploma
Voter registration card
Unemployment Photo ID Card

<u>Proof of Residency</u>

2-Point Documents (all must be dated within the past year)

Utility bill with name and address
Notarized residential lease
Automobile insurance card
Local property tax statement
Federal or State income tax or refund statement
Mortgage payment receipt

1-Point Documents.

Proof of a minor enrolled in Middletown public or private school based upon a City address
Insurance bill other than automobile (dated within the past year)
Bank statement (dated within the past year)
Employment pay stub (dated within 60 days)

B. Unless otherwise indicated in Subsection A, above, the City Clerk's Office shall accept expired documents unless the date of expiration is more than five (5) years prior to the date of the subject application.

C. The City Clerk's Office is authorized to accept any other reasonable documentation and assign such documentation a single point. If the individual is a minor, proof must be furnished on behalf of said minor by the individual's parents or legal guardian or by a court of competent jurisdiction. Residency may be established, in the reasoned discretion of the City Clerk's Office, in the absence of a fixed address.

D. Contesting determination of City Clerk's Office. Any person aggrieved by any determination of the City Clerk's Office made pursuant to this Chapter may contest such determination by commencing an action as provided in Article 78 of the Civil Practice Law and Rules within 30 days of receipt of such determination.

Section 325-6 Confidentiality.

A. The records relating to the application and issuance of the City of Middletown Identification Cards shall be maintained in accordance with law.

B. The City of Middletown will make best efforts to protect the confidentiality of all Middletown Identification Card applicants to the maximum extent allowable by Federal and State law. The City of Middletown shall not disclose personal information obtained from an applicant for a City of Middletown Identification Card to any individual, public, or private entity, unless:

(1) So-Ordered by a court of competent jurisdiction whose decisions are binding upon the City of Middletown, or

(2) Authorized in writing by the individual to whom such information pertains, or when such individual is a minor or is otherwise not legally competent, by such individual's parent or legal guardian, or

(3) Requested by a City of Middletown department for the limited purpose of administering the program or determining or facilitating the applicant's eligibility for additional benefits or services or care and

provided that such disclosure is made in accordance with all applicable Federal and State privacy laws and regulations.

C. The City Clerk's Office will not retain original or copies of documents provided by an applicant to prove identity or residency when applying for a Middletown Identification Card; nor will the Office retain any listing of such documents. Any documentation provided by the applicant during the application process will be immediately returned to the applicant after the Middletown Identification Card is printed. A statement will be included on the application form indicating that the City Clerk's Office has reviewed the applicable documentation submitted by the applicant, and such official in the City Clerk's Office will initial the application showing that the qualifying documentation has been submitted, but not retained, in connection with the application. The application itself shall not be retained by the Clerk's Office, but shall be returned to the applicant,

Section 325-7 Access to Services; Use of Card.

A. All City departments, agencies and offices, and all City employees, including law enforcement officers, will accept the City of Middletown Identification Card as proof of identity and residency and for access to City services and benefits, unless such acceptance is prohibited by or in conflict with State or Federal Law. The City of Middletown will take reasonable efforts to publicize the benefits associated with the City of Middletown Identification Cards.

B. The City of Middletown departments, agencies and offices will not require the possession of a City of Middletown Identification Card where identification is not required to obtain City services.

C. No City of Middletown departments, agencies or offices will discriminate against or draw any inference about any aspects or characteristics of an individual based upon the fact that the individual holds or presents a City of Middletown Identification Card issued under this chapter.

Section 325-8 Disclaimer.

The City of Middletown is providing the Middletown Identification Card for identification and access to services provided by the City of Middletown, its institutions and businesses. The City does not act as guarantor or warrantor either of the information provided by the applicant for the Middletown Identification Card or against any acts, criminal or otherwise, committed by the individual(s) while possessing or using the Middletown Identification Card. The City does not waive any of its protections afforded under Federal, State or local statutory law or under Federal or State case law by processing or issuing the Middletown Identification Card.

Section 325-9 Language Issues

The City Clerk's Office shall, consistent with all Federal, State and local laws, use reasonable efforts to provide language assistance to applicants for the Middletown Identification Card to facilitate access thereto. The City Clerk's Office shall use reasonable efforts to interpret foreign documents, but it is the ultimate responsibility of the applicant to provide translations for documents.

Section 325-10 Effective Date

This ordinance shall take effect on February 1, 2019.

BOROUGH OF ROSELLE

ORDINANCE NUMBER 2524-15

AN ORDINANCE AMENDING THE REVISED GENERAL ORDINANCES OF THE BOROUGH OF ROSELLE CREATING A BOROUGH OF ROSELLE IDENTIFICATION CARD PROGRAM FOR RESIDENTS OF THE BOROUGH OF ROSELLE

WHEREAS, the Mayor and Borough Council recognize that many residents within the Borough of Roselle often times do not have access to various forms of identification and thus have difficulty obtaining services such as banking accounts, access to health care services, as well as public/government buildings; and

WHEREAS, there are also many undocumented immigrant residents who are unable to produce acceptable documentation and thus, as a result thereof, have great difficulty in obtaining services: and

WHEREAS, it has also been documented in New Haven, Connecticut, that there was a dramatic decrease in robberies/armed robberies against undocumented immigrant workers after the implementation of city identification cards in New Haven, Connecticut; and

WHEREAS, the availability of Borough identification cards will be helpful to displaced youth in addition to many residents and immigrants; and

WHEREAS, the Mayor in conjunction with the Municipal Council of the Borough of Roselle believe the availability of Borough identification cards will be positive and productive for so many residents of the Borough of Roselle.

NOW, THEREFORE, BE IT ORDAINED BY THE MUNICIPAL COUNCIL OF THE BOROUGH OF ROSELLE, NEW JERSEY, THAT:

Section 1. The Revised General Ordinances of the Borough of Roselle, New Jersey, as amended and supplemented, shall include the following:

Borough of Roselle Identification Card Program.

The Borough of Roselle hereby establishes a Borough of Roselle Identification Card Program, which shall be issued to individuals who can prove their identity and residency, in accordance with the terms of this ordinance, which shall be liberally interpreted.

BOROUGH OF ROSELLE

ORDINANCE NUMBER 2524-15

AN ORDINANCE AMENDING THE REVISED GENERAL ORDINANCES OF THE BOROUGH OF ROSELLE CREATING A BOROUGH OF ROSELLE IDENTIFICATION CARD PROGRAM FOR RESIDENTS OF THE BOROUGH OF ROSELLE

I. Administering Department

a. The Roselle Borough Library (hereafter referred to as the Administering Department) shall be designated as the department to administer the Borough of Roselle Identification Card Program.

b. The Borough's Administration Department shall issue such policies and procedures necessary to effectuate the purposes of this ordinance; including, the designation of access sites where applications for such cards shall be made available for pick-up and submission. The Department of Administration shall also make the applications available online.

II. Definitions

"**Borough of Roselle Municipal Identification (I.D.) Card**" or "**Roselle Identification Card**" shall mean an identification card issued by the Borough of Roselle that shall, at a minimum, display the card holder's photograph, name, date of birth, address, signature, issuance and expiration date. Such card shall also, at the cardholder's option; display the cardholder's self-designated gender. Such identification card shall be designed in a manner to deter fraud.

"Administrator" shall mean the Borough Administrator or his designee.

"Department of Administration" shall mean the Borough's Department of Administration, including the Borough Administrator or designee and the Assistant Borough Administrator or designee.

"**Resident**" shall mean a person who can establish that he or she is a current resident of the Borough of Roselle.

"**Borough**" unless otherwise identified shall solely mean Borough of Roselle.

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"**Care of Organization**" shall mean a Borough Agency, hospital, private or public shelter, non-profit organization, or religious institution in Roselle, New Jersey serving homeless individuals or survivors of domestic violence.

"**Care Address**" shall mean the authorized use of address by Borough Agency, hospital, private or public shelter, or religious institution in Roselle, New Jersey serving homeless individuals or survivors of domestic violence.

"**Care Address Letter**" A letter from a Borough Agency, hospital or non-profit organization, private or public shelter, or religious institution in Roselle, New Jersey authorizing use of address. Letter must indicate applicant has received services from the entity for the past fifteen (15) days and may use entity's address for mailing purposes (dated within fifteen (15) days). Address on card will be "Care Of" the organization.

III. Issuance of Roselle Identification Cards; Display; Term; Fee

a) The Borough of Roselle Identification Card shall be available to any resident of the Borough of Roselle regardless of his or her race, color, creed, age, national origin, alienage, or citizenship status, gender, sexual orientation, disability, marital status, partnership status, any lawful source of income, housing status, status as a victim of domestic violence or status as a victim of sex offenses or stalking, or conviction or arrest record, provided that such resident is able to meet the requirements for establishing his or her identity and residency as set forth in this ordinance and of any applicable policies and procedures established by the Department of Administration.

b) The Roselle Identification Card shall display at minimum the applicant's full name, photograph, address, date of birth, signature, card issue and expiration dates. The administering agency shall, through policy and procedure it establishes as required by this ordinance, create guidelines to protect the addresses of victims of domestic violence or alternate requirements for applicants who lack a permanent address. Such card shall also, at the cardholder's option; display the cardholder's self-designated gender. Such identification card shall be designed in a manner to deter fraud which may include: bar codes, serial numbers, watermarks, Borough Seal, and other security protections to deter fraud.

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c) The Borough of Roselle Identification Card is valid for two (2) years from date of issuance. Residents age fourteen (14) or over may apply for a card. Relocation out of the Borough invalidates the Borough of Roselle Identification Card and shall be returned to the Borough for destruction.

d) The fee for the issuance of the Borough of Roselle Identification Card shall be $15.00 for adults and $7.00 for children, veterans, disabled and senior citizens. Renewal of cards shall be $15.00 and change of information shall be $7.00. The Borough Administrator may adopt rules permitting residents who cannot afford to pay such fee(s) to make a hardship application and to be granted a full or partial waiver of the fee. The Borough Administrator may file for a hardship exception waiver during application's intake process. In order for an applicant to be granted a hardship waiver, the applicant must demonstrate and have proof of one of the following circumstances:

i. Applicant is currently homeless; or

ii. Applicant has proof of eviction within the last three (3) months; or

iii. Applicant has recently experienced reported domestic violence; or

iv. Applicant has proof of substantial debt caused by medical expenses within the last twelve (12) months; or

v. Applicant is currently unemployed; or

vi. Applicant has filed for bankruptcy within the last six (6) months; or

vii. Applicant currently receives one of the following: Supplemental Nutrition Assistance Program, or SSI, or TANF, or food stamps. The applicant should provide proof in the form of a letter, notice or other official document containing the name of the agency granting the benefit, the name of the recipient of the benefit and the name of the benefit received; or

viii. Applicant's current household income is at or below 150% of the federal poverty level.

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IV. **Proof of Residency and Identity**

In order to obtain a Borough of Roselle Identification Card an applicant must establish their identity and residency within the Borough of Roselle as follows:

a) **Proof Of Identity.** The Roselle Identification Card Program will use a point system to determine if applicants are able to prove identity and residency in Roselle, New Jersey. In order to establish identity, an applicant shall be required to produce one or more of the following documents: a U.S. or foreign passport, a U.S. driver's license; a U.S. state identification card; a U.S. permanent resident card; a consular identification card; a photo identification card with name, address, date of birth, and expiration date issued by another country to its citizens or nationals as an alternative to a passport for re-entry to the issuing country; a certified copy of U.S. or foreign birth certificate; a Social Security Card; a national identification card with photo, name, address, date of birth, and expiration date; a foreign driver's license; a U.S. or foreign military I.D. card; a current visa issued by a government agency; a U.S. Individual Taxpayer Identification Number (ITIN) authorization letter; an Electronic Benefit Transfer (EBT) card; or any other documentation that the (administering agency) deems acceptable. If the individual is a minor, proof must be furnished on behalf of said minor by the individual's parents or legal guardian or by a court of competent jurisdiction. The administering agency shall, through the policy and procedure established, create a point system to ensure uniformity and non-biased requirements by which individuals may establish identity and residency. The Department of Administration, through its policies and procedures, shall determine the weight to be given to each type of document provided in this paragraph, and require that at a minimum applicant produce more than one document to establish identity.

b) **Proof of Residency.** In order to establish residency, an applicant must present one of more of the following items showing both the applicant's name and residential address located within the Borough; a utility bill; a local property tax statement or mortgage payment receipt; a bank account statement; proof that the applicant has a minor child currently enrolled in a school located within the Borough; an employment pay stub; a jury summons or court order issued by a

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state or federal court; a federal or state income tax or refund statement; an insurance bill (homeowner's, renter's, health, life or automobile insurance); written Care Address Letter confirming residency; and any other document the Department of Administration determines is acceptable which shall be set forth in the policies and procedures it promulgates. The Department of Administration shall create through its policies and procedures alternative methods to establish residency, notwithstanding the lack of fixed address. The Administrator may consider a care address acceptable for the homeless and domestic violence applicants.

V. All Borough of Roselle departments shall accept the Roselle Municipal Identification Card as proof of identity and residence for access to Borough services and benefits unless such acceptance is prohibited by federal or state law or unless the department or authority has reason to suspect fraud by the purported cardholder. The Borough of Roselle shall take reasonable efforts to promote the acceptance of the card by banks and other public and private institutions located within the Borough and publicize the benefits associated with the Roselle Identification Cards.

VI. **Confidentiality**

The records relating to the application and issuance of the Borough of Roselle Identification Cards shall be maintained in accordance with law. The Borough of Roselle shall make best efforts to protect the confidentiality of all municipal card applicants to the maximum extent allowable by federal and state law. The Borough of Roselle shall not disclose personal information obtained from an applicant for a Roselle Municipal Identification Card to any individual, public or private entity, unless required by a court of competent jurisdiction, or authorized in writing by the individual to whom such information pertains, or when such individual is a legal minor or is otherwise not legally competent, by such individual's parent or legal guardian; when so ordered by a court of competent jurisdiction; to a requesting Borough Department for the limited purpose of administering the program determining or facilitating the applicant's eligibility for additional benefits or services or care and provided that such disclosure is made in accordance with all applicable federal and state privacy laws and regulations.

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The Borough of Roselle administering agency shall not retain original or copies of documents provided by an applicant to prove identity or residency when applying for a Roselle Municipal Identification Card.

VII. **Disclaimer**

The Borough of Roselle is providing the Roselle Identification Card for identification and access to services provided by the Borough of Roselle. The Borough does not act as guarantor or warrantor of either of the information provided by the applicant for the Roselle Identification Card or of/against acts, criminal or otherwise committed by the individual(s) while possessing or using the Roselle Identification Card. The Borough does not waive any of its protections afforded under Federal, state or local laws, including but not limited to the immunities under the New Jersey Torts Claims Act, N.J.S.A. 59:1-1 et seq., by processing or issuing the Roselle Identification Card.

VIII. **Reporting**

The Administering Department shall submit a report to the Mayor and the Borough of Roselle Municipal Council on the status of the Roselle Identification Card Program on a quarterly basis or at the request of the Mayor and/or Municipal Council.

IX. **Violations and Penalties**

Altering or intentionally damaging the Roselle Municipal Identification Card, using another person's Roselle Municipal Identification Card, or allowing the cardholder's Roselle Municipal Identification Card to be used by another person may result in confiscation of the card and is in violation of N.J.S.A. 2C: 28-7. Submission of false documents to obtain a Roselle Municipal Identification Card is a violation of N.J.S.A. 2C:21-2.1(c) and making false statements to obtain a Roselle Municipal Identification Card is a violation of N.J.S.A. 2C:21-4 and punishable by law.

Except as otherwise expressly provided for Section 1, Part IX, any person who violates any provision of this ordinance shall, upon conviction thereof, be punished

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by one or more of the following penalties: (1) a fine not exceeding $1,000.00; (2) imprisonment for any term not exceeding ninety (90) days; or (3) a period of community services not exceeding ninety (90) days. Separate offenses shall be deemed committed on each day during or on which a violation occurs or continues.

Section 2. If any portion of this ordinance shall be deemed unenforceable by a court of competent jurisdiction, the remainder of the ordinance shall remain in full force and effect.

Section 3. This Ordinance shall take effect in the manner prescribed by law.

Recorded Vote on Second Reading Ordinance No. 2524-15

	Motion	Second	Ayes	Nays	Abstain	Absent
Councilman Atkins	x		x			
Councilwoman Shaw			x			
Councilwoman Staten			x			
Councilman Hayman			x			
Councilman Bishop			x			
Councilman Aubourg		x	x			

✓ Approved on Second Reading and Final Adoption

Christine Dansereau, Mayor — Date: Oct. 21, 2015

Lydia Agbejimi, Deputy Municipal Clerk — Date: Oct. 21, 2015

LOCAL LAW NO. 4 OF 2018

A LOCAL LAW TO ESTABLISH A MUNICIPAL IDENTIFICATION PROGRAM IN THE CITY OF POUGHKEEPSIE

SPONSORED BY COUNCILMEMBER SALEM & COUNCILMEMBER CHERRY

BE IT ENACTED, by the Common Council of the City of Poughkeepsie of the County of Dutchess as follows:

SECTION 1. LEGISLATIVE FINDINGS; INTENT & PURPOSE; AUTHORITY

A. The legislature finds that many residents of The City of Poughkeepsie are unable to obtain government-issued identification that is required to fully participate in The City of Poughkeepsie's rich society. This barrier leaves thousands of individuals — including immigrants, homeless people, transgender people, senior citizens, young people, and those who have been formerly incarcerated — without access to critical services, benefits, cultural, educational, and civic opportunities. It is the intent of the legislature to build The City of Poughkeepsie's standing as a welcoming and inclusive center for all residents, without regard to a person's race, national origin, religion, sex, sexual orientation, gender identity, disability, immigration, housing, or financial status. Further, it is the intent of the legislature that the municipal identification card should affirm the resident status of all City of Poughkeepsie residents.

B. Residents' lack of access to acceptable forms of identification also raises public safety concerns for the City. Residents without access to bank accounts often carry large amounts of money on their person or store it in their home making them targets for crime. In addition, residents who cannot produce proof of identity are often reluctant to report crimes to the police that they suffer or witness. Studies show that immigrant populations in particular are victimized by crime at rates similar to or greater than the general population but they report crime at lower rates than the general population. This under-reporting of crime poses a serious public safety problem and erodes the ability of law enforcement to function effectively in the City.

C. A City of Poughkeepsie identification card would serve to reduce the impact of the above mentioned conditions, improve public safety, and enable all City of Poughkeepsie residents to participate more fully in and become an integral part of the life of the community. A municipal identification card would encourage crime reporting and witness cooperation, both key elements in building a safer community. Such cards would also potentially enable more City residents to; open bank accounts, access parks or other public facilities, and receive resident discounts at local businesses, events, and arts institutions. The card could have multiple use options, for example functioning as a public transportation pass, library card, resident golf card, and parking meter card all in one. The cards

would also benefit children and youth who become lost and normally possess no identification or emergency contact information and elderly citizens who no longer drive and therefore no longer possess a valid driver's license. Accordingly, it is in the best interests of its residents for the City to issue its own municipal identification card.

D. By authorizing the creation of this program, the legislature does not intend to expand identification requirements for access to basic services or exercise of constitutional rights. The program should not be used as a proxy to require individuals to produce government-issued identification to access services and benefits where such identification is not presently required, such as registering to vote, casting a ballot, or accessing government buildings.

E. The legislature further recognizes that transgender and gender non-conforming individuals may have particular challenges in obtaining identification cards that reflect their gender identity, due to stigma and burdensome administrative policies for changing gender on other identification documents. This increases the likelihood they will experience discrimination in seeking employment or housing, or even prevent them from participating in cultural or civic life and so it is our intention to make the program affirming to transgender and gender non-conforming residents by not requiring a gender selection.

F. Finally, the legislature seeks to preserve the safety and privacy of all City of Poughkeepsie residents. It is the intent of the legislature that all completed applications and personal data gathered during the application process should be destroyed, besides the applicant's photograph, name, and date of birth, which should be maintained confidentially.

SECTION 2. DEFINITIONS

A. The "Poughkeepsie ID card" shall mean an identification card issued by The City of Poughkeepsie that shall, at a minimum, display the cardholder's photograph, name, date of birth, address, ID card number, and card expiration date. Such identification card shall be designed in a manner to deter fraud which may include; bar codes, serial numbers, watermarks, City Seal, or other security measures used to protect against fraud. Additionally, the card does not bestow eligibility for state or federal financial benefits, therefore significantly reducing the incentive to fraudulently obtaining an ID card.

B. "City" shall be in reference to the City of Poughkeepsie or any department, agency, board, or commission thereof.

C. "Resident" shall mean a person who can establish that he or she is a current resident of The City of Poughkeepsie pursuant to Section 5 of this Act.

SECTION 3. MUNICIPAL IDENTITY CARD PROGRAM

The City of Poughkeepsie Chamberlain's Office shall administer the municipal identity card program and shall promulgate all rules necessary as set by the Common Council to effectuate the purposes of this subchapter. Such office shall make applications for such card available for pick-up and submission at any agency or office where there is substantial contact with the public and shall also make applications available online.

SECTION 4. ISSUANCE OF MUNICIPAL IDENTITY CARDS

A. The Poughkeepsie ID Card shall be available to any resident of The City of Poughkeepsie over the age of 14, regardless of his or her race, color, creed, age, national origin, alienage or citizenship status, gender identity, sexual orientation, disability, marital status, partnership status, any lawful source of income, housing status, status as a victim of domestic violence or status as a victim of sex offenses or stalking, or conviction or arrest record, provided that such resident is able to meet the requirements for establishing his or her identity and residency as set forth in this legislation.

B. The City of Poughkeepsie shall establish an application fee for municipal identification cards of $10 for adults and $5 for people under the age of 18 or over the age of 62. For those who cannot afford to pay set fee, the City of Poughkeepsie will allow for a hardship waiver if witnessed and authenticated documentation can be produced thereby establishing difficulty to pay.

C. The Poughkeepsie ID Card shall be valid for a period of 4 years from the date of issuance, and thereafter must be renewed in order to remain active and receive benefit with a renewal fee of $5.00.

D. The Poughkeepsie ID Card program shall be implemented within 6 months of the passage of Legislation.

SECTION 5. MUNICIPAL IDENTITY CARD ELIGIBILITY

A. Eligibility: In order to obtain a Poughkeepsie ID card an applicant must complete an application and provide documentation in order to establish proof of identity and proof of residency within the city as follows:

(1) **Proof of Identity**: In order to establish identity, an applicant shall be required to attain 4 points of identification by producing at least one of the following documents from LIST ONE (4 points), current or expired not more than 5 years prior to the date of the The City of Poughkeepsie ID card application OR one document from LIST TWO (3 points) along with one document from LIST THREE (1 point).

LIST ONE (4 point documents):
U.S. or foreign passport; U.S. state driver's license; U.S. state identification card; U.S. permanent resident card; a consular identification card; a photo identification card with name, address, date of birth, and expiration date issued by another country to its citizens or nationals as an alternative to a passport for re-entry to the issuing country; a national identification card with photo, name, address, date of birth, and expiration date; a foreign driver's license; U.S. or foreign military identification card; a current visa issued by a government agency.

LIST TWO (3 point documents):
U.S. Permanent Resident (Green Card); U.S. Citizenship and Naturalization Certificate; U.S. Federal Government or Tribal-issued photo ID; State Veterans ID with photo.

LIST THREE (1 point document):
Social Security Card; EBT Card; High School or College Diploma; ITIN (Individual Taxpayer Identification Number) card or authorization letter (must be accompanied by an ID with a photograph); Voter Registration Card.

(2) **Proof of Residency**: In order to establish residency, an applicant shall be required to produce at least one of the following items of which must show the applicant's name and residential address located within the city and must be dated no more than sixty days prior to the date such document is presented, unless otherwise indicated below:

a utility bill; a current residential property lease; a local property tax statement dated within one year of the date it is submitted; a local real property mortgage payment receipt; a bank account statement; proof that the applicant has a minor child currently enrolled in a school located within the city; an employment pay stub; a jury summons or court order issued by a federal or state court; a federal or state income tax or refund statement dated within one year of the date it is submitted; an insurance bill (homeowner, renter, health, life, or automobile insurance); written verification issued by a homeless shelter located within municipality that confirms at least fifteen days residency; written verification issued by a hospital, health clinic or social services agency located within the City of Poughkeepsie confirming at least fifteen days residency.

SECTION 6. APPEALS PROCESS

A. Hearing: Any refusal to issue a Poughkeepsie ID card or to renew a Poughkeepsie ID card made hereunder shall be by written notice issued by the City Clerk, or his/her designee, to the applicant. Said notice shall include a statement that the applicant is entitled to demand a hearing, provided that such demand is made in writing to the City Clerk, and such hearing shall be conducted within 30 days

after the applicant or licensee's request is received by the City Clerk or his/her designee.

B. Decision: Upon receipt of a demand for a hearing, the City Clerk shall transmit such request to the City Administrator, who shall appoint a hearing officer to make a report and recommendation to the City Administrator within thirty (30) days of the date of the hearing. The City Administrator shall have the final authority to uphold, reverse or modify the decision of the City Clerk, after consideration of the hearing officer's report and recommendation.

C. Demand for hearing: Any demand for a hearing must be made in writing, within 10 days after mailing notice of the refusal of the City Clerk to issue a Poughkeepsie ID card.

SECTION 7. CONFIDENTIALITY OF MUNICIPAL ID CARD APPLICATION INFORMATION & DATA.

A. The City of Poughkeepsie shall not retain originals or copies of records provided by an applicant to prove identity or residency for a Poughkeepsie ID card.

B. The City will retain the name, date of birth, card number, and expiration date for all IDs, giving the City the ability to prevent duplicates.

C. The City of Poughkeepsie shall not disclose information about Poughkeepsie ID card applicants to any public or private entity or individual, including federal, state, or city immigration or law enforcement entities. In the event of litigation, The City of Poughkeepsie shall defend against the disclosure of such information to the maximum extent possible under the law. This protection shall extend to the Poughkeepsie ID card application forms, information contained on those forms or obtained through the Poughkeepsie ID card application process, to the lists of individuals who hold or have applied for the Poughkeepsie ID card, and to the fact of any individual's participation in the Poughkeepsie ID card program.

SECTION 8. ACCESS TO SERVICES

A. All municipal agencies and offices, and all municipal employees, including law enforcement officers, shall accept the Poughkeepsie ID card as proof of identity and residency, excluding in cases where acceptance of the Poughkeepsie ID card is precluded by state or federal law.

B. The City of Poughkeepsie shall seek to promote and expand the benefits associated with the Poughkeepsie ID card and shall take reasonable efforts to promote the acceptance of the card by banks and other public and private institutions located within the City.

C. The City of Poughkeepsie agencies and officers shall not require the possession of a Poughkeepsie ID card where identification is not already required in order to obtain city services. Provided, however, that agencies may require the possession of a Poughkeepsie ID card to obtain benefits or privileges offered exclusively to those who possess a Poughkeepsie ID card as an incentive to apply for a municipal identity card.

D. The City of Poughkeepsie will administer and maintain reasonable and appropriate training for all municipal personnel, municipal offices, and law enforcement officers to ensure that the Poughkeepsie ID card is effectively accepted per intended use as is outlined in this legislation.

SECTION 9. LANGUAGE ASSISTANCE SERVICES

The City of Poughkeepsie shall, consistent with all federal, state and local laws, provide language assistance to applicants for the municipal identity cards to facilitate access thereto. The Common Council of the City of Poughkeepsie shall identify and implement measures, including but not limited to staff training, community outreach, and language assistance tools, to address the needs of limited English proficient individuals in the successful administration of the Poughkeepsie ID card program.

SECTION 10: COUNTERFEIT AND FRAUDULENT CARDS

It is a violation of The City of Poughkeepsie ID code under this section for any person or entity to undertake any of the following acts. A fine of no more than $100 may be imposed for each violation.

A. To knowingly present false information in the course of applying for a Poughkeepsie ID card.

B. To alter, copy, or replicate a Poughkeepsie ID card without the authority of the The City of Poughkeepsie.

C. To use a Poughkeepsie ID card issued to another person, with the intent to cause a third person or entity to believe the holder of the card is the person to whom the card was issued.

SECTION 11: EFFECTIVE DATE

This Local Law shall be effective upon its filing with the Secretary of State.

SECTION 12: SEVERABILITY

The invalidity or unenforceability of any section, subsection, paragraph, sentence, clause, provision, or phrase of the aforementioned sections, as declared by the valid judgment of any court of competent jurisdiction to be unconstitutional, shall not affect

the validity or enforceability of any other section, subsection, paragraph, sentence, clause, provision, or phrase, which shall remain in full force and effect.

SECTION 13: NUMBERING

It is the intention of the Common Council and it is hereby ordained that the provisions of this ordinance shall become and be made a part of the Code of Ordinances of the city of Poughkeepsie, New York, and the sections of this ordinance may be renumbered to accomplish such intention.

Poughkeepsie Municipal ID
Points needed = 4 (Calculated 4 or 3+1) + Proof of Residency

Points	Type of I.D.	
4	• U.S. or foreign passport • U.S. state driver's license • U.S. state identification card • U.S. permanent resident card • a consular identification card • a photo identification card with name, address, date of birth, and expiration date issued by another country to its citizens or nationals as an alternative to a passport for re-entry to the issuing country • a national identification card with photo, name, address, date of birth, and expiration date • a foreign driver's license • U.S. or foreign military identification card • a current visa issued by a government agency. **All forms listed above must be current or expired not more than 5 years*	
3 + 1	3	1
	• U.S. Permanent Resident (Green Card) • U.S. Citizenship and Naturalization Certificate • U.S. Federal Government or Tribal-issued photo ID • State Veterans ID with photo	• Social Security Card • EBT Card • High School or College Diploma • ITIN (Individual Taxpayer Identification Number) card or authorization letter (must be accompanied by an ID with a photograph) • Voter Registration Card

Proof of Residency

- a utility bill
- a current residential property lease
- a local property tax statement dated within one year of the date it is submitted
- a local real property mortgage payment receipt
- a bank account statement
- proof that the applicant has a minor child currently enrolled in a school located within the city
- an employment pay stub; a jury summons or court order issued by a federal or state court
- a federal or state income tax or refund statement dated within one year of the date it is submitted
- an insurance bill (homeowner, renter, health, life, or automobile insurance)
- written verification issued by a homeless shelter located within municipality that confirms at least fifteen days residency
- written verification issued by a hospital, health clinic or social services agency located within the City of Poughkeepsie confirming at least fifteen days residency.

New York State Non-Drivers ID
Points needed = 6 + Proof of Date of Birth
Bold = Proves D.o.B.

Points	Type of I.D.
6	• **NY State Photo Driver License, Permit or Non-Driver ID Card** **Must be current or expired for less than 2 years*
4	• **U.S. Passport or Passport Card (non-expired)** • Statement of Identity and/or Residence (MV-45) You can only use this if you are under age 21. • Statement of Identity and/or Residence for Applicants Represented by Government or Government-Approved Facilities (MV-45A) • Statement of Identity for Applicants who can be Considered a Disenfranchised Homeless Youth (MV-45B)
3	• **U.S. Military Photo ID Card** • **Certificate of Citizenship (N-560, N-561 or N-645)** • **Certificate of Naturalization (N-550, N-570 or N-578)** • **Valid Employment Authorization Card (I-688B or I-766) with photo, issued by DHS** • **Permanent Resident Card (I-551)** • **Reentry Permit (I-327)** • **Refugee Travel Document (I-571)** • **Foreign Passport with a valid I-551 stamp or with a statement on the Visa** • **Foreign Passport with a Visa and a valid I-94 issued by DHS Must be in English or translated by an embassy. There are special requirements if your I-94 has a status code.** • NY State Benefit/Medicaid Card with photo
2	• NY State Benefit/Medicaid Card without photo • NY State Interim License/Permit/Non-Driver ID without photo • NY State or NYC Pistol Permit • NY State Professional License • NY State Registration Document (vehicle or boat only) • NY State Certificate of Title • Photo Driver License/Permit/Non-Driver ID card issued by another U.S. State, jurisdiction, Canadian Province or territory (must be current or expired no longer than 2 years) • St. Regis Mohawk Tribal Photo ID Card • **Canadian Birth Certificate with St. Regis Mohawk Tribal Photo ID Card** • U.S. Military Dependent ID Card • U.S. College Photo ID Card and Transcript • U.S. High School ID Card with Report Card • U.S. Marriage or Divorce Record OR Court Issued Name Change Decree • U.S. Social Security Card
1	• U.S. Computer Printed Pay Stub (must have your name) • U.S. Employee ID Card • U.S. High School Diploma OR GED • U.S. Supermarket Check Cashing Card with signature and pre-printed name • U.S. Union Card • U.S. Health Insurance Card/Prescription Card • U.S. Life Insurance Policy or Current Statement (in effect at least 2 years) • U.S. Utility Bill (must include your name and address) • Veterans Universal Access Photo ID Card • Federal or NY State Income Tax W-2 Form Only one of these items, if issued by the same financial institution, can be accepted • U.S. bank statement • U.S. cancelled check (must have your pre-printed name) • U.S. cash card (ATM) (must have your signature & pre-printed name) • Major U.S. credit card (must be valid)
0	• **U.S. or U.S. Territory Birth Certificate (original or certified) that shows your first and last name** • **Tribal Birth Certificate from a Federally recognized tribe proving birth in the** • **U.S., U.S. DOS Consular Report of Birth Abroad (original or certified**

City of Beacon Workshop Agenda
11/26/2018

Title:

Budget Amendments

Subject:

Background:

ATTACHMENTS:

Description	Type
Budget Amendments_12.3.18	Cover Memo/Letter

Council Budget Amendments
December 3, 2018 Meeting

1. Amend the 2018 General Fund Police Budget to use surpluses anticipated for 2018 for the purchase of a Patrol SUV. This purchase was originally requested in the 2019 budget but was removed to remain at tax cap and with the belief that it could be purchased with funds available in 2018. Below is the proposed budget amendment:

Transfer to:		
A -03-3120-250000-	PURCHASE EQUIPMENT	$ 54,000
Transfer from:		
A -01-1990-400004-	CONTINGENCY-RETIREMENT	$ 34,000
Increase to:		
A -03-3120-174000-	PARKING TICKETS	$ 20,000

2. Amend the 2018 General Fund Highway Budget to account for the utilization of the Highway staff for portions of milling and paving streets. This has been historically more expensive because it usually is contracted out. It is fully reimbursable by funds from NYS Consolidated Highway Improvement Program (CHIPS). Below is the proposed budget amendment:

Increase to:		
A -05-5110-105000-	OVERTIME	$ 5,062
Increase to:		
A -05-5110-350100-	STATE AID 9D CHIPS	$ 5,062

3. Amend the 2018 General Fund Fire Budget for the anticipation of overtime to finish out the 2018 year. Increases were due to the retirement and resignation of two firefighters during 2018 and having to fill their shifts using overtime. Below is the proposed budget amendment:

Transfer to:		
A -03-3410-105101-	OVERTIME	$ 21,000
Transfer from:		
A -01-1990-400004-	CONTINGENCY-RETIREMENT	$ 21,000

4. Amend the 2018 General Fund Serial Bond Budget for the first payment of interest on the 2018 issued Serial Bond. In the Spring of 2018 the City decided to issue long term debt a year earlier than originally anticipated rather than roll the short-term debt over due to rising interest rates. The City also decided to make the first interest payment in 2018 rather than 2019. Both decisions saved the City significantly in interest costs over the term on the bond. The City will pay for the additional costs from premiums received from the sale of previous issues of short-term debt. Below is the proposed budget amendment:

Council Budget Amendments
December 3, 2018 Meeting

Increase:			
A -10-9710-705700-	2018 BOND INTEREST	$	232,632
G -10-9710-705700-	2018 BOND INTEREST		54,515
	Total	$	287,147

Increase:			
A -11-9950-503100	INTERFUND TRANSFER REVENUE	$	232,632
G -11-9950-503100	INTERFUND TRANSFER REVENUE		54,515
	Total	$	287,147

Respectfully submitted,
Susan K. Tucker CPA

City of Beacon Workshop Agenda
11/26/2018

Title:

Adoption of proposed 2019 Budget - December 3, 2018

Subject:

Background:

City of Beacon Workshop Agenda
11/26/2018

Title:

A public hearing December 3, 2018 to receive public comment on a proposed local law to repeal Chapter 135 and to amend Chapter 1, Article I, Section 3 of the Code of the City of Beacon to remove reference to Housing Standards in the City Code

Subject:

Background:

City of Beacon Workshop Agenda
11/26/2018

Title:

A public hearing December 3, 2018 to receive public comment on an application to amend a Special Use Permit for the project known as "The Roundhouse" on East Main Street

Subject:

Background:

City of Beacon Workshop Agenda
11/26/2018

Title:

Executive Session: Personnel

Subject:

Background:

ATTACHMENTS:

Description	Type
Exec Session_pers	Backup Material