



United City of Yorkville
800 Game Farm Road
Yorkville, Illinois 60560
Telephone: 630-553-4350
www.yorkville.il.us

AGENDA
PUBLIC WORKS COMMITTEE MEETING
Tuesday, December 18, 2018
6:00 p.m.
City Hall Conference Room
800 Game Farm Road, Yorkville, IL

Citizen Comments:

Minutes for Correction/Approval: October 16, 2018

New Business:

1. PW 2018-97 Snow Operations Report
2. PW 2018-98 Water Department Reports for July, August, and September 2018
3. PW 2018-99 Radio Purchases – RFP Update
4. PW 2018-100 Storm Water Basin Maintenance – Update
5. PW 2018-101 Cannonball Trail Safety Analysis
6. PW 2018-102 East Alley and Van Emmon

Old Business:

Additional Business:

2018/2019 City Council Goals – Public Works Committee		
Goal	Priority	Staff
“Road to Better Roads Funding”	5	Bart Olson, Eric Dhuse & Rob Fredrickson
“Water Planning”	6	Eric Dhuse & Brad Sanderson
“Municipal Building Needs & Planning”	7	Bart Olson, Eric Dhuse, Rob Fredrickson, Tim Evans & Erin Willrett
“Traffic Patrol”	9	Eric Dhuse & Rich Hart
“Whispering Meadows”	10	Bart Olson & Brad Sanderson
“Vehicle Replacement”	12	Bart Olson, Eric Dhuse, Rob Fredrickson, Rich Hart & Tim Evans
“Water Conservation Plan”	14	Eric Dhuse & Brad Sanderson
“Capital Improvement Plan”	16	Eric Dhuse, Rob Fredrickson & Brad Sanderson

UNITED CITY OF YORKVILLE
WORKSHEET
PUBLIC WORKS COMMITTEE
Tuesday, December 18, 2018
6:00 PM
CITY HALL CONFERENCE ROOM

CITIZEN COMMENTS:

MINUTES FOR CORRECTION/APPROVAL:

1. October 16, 2018

- ☐ Approved _____
- ☐ As presented
- ☐ With corrections

NEW BUSINESS:

1. PW 2018-97 Snow Operations Report

- ☐ Moved forward to CC _____ consent agenda? Y N
 - ☐ Approved by Committee _____
 - ☐ Bring back to Committee _____
 - ☐ Informational Item
 - ☐ Notes _____
-
-

2. PW 2018-98 Water Department Reports for July, August, and September 2018

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

3. PW 2018-99 Radio Purchases – RFP Update

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Notes _____

4. PW 2018-100 Stormwater Basin Maintenance – Update

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

5. PW 2018-101 Cannonball Trail Safety Analysis

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

6. PW 2018-102 East Alley and Van Emmon

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

ADDITIONAL BUSINESS:



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

Minutes

Tracking Number

Agenda Item Summary Memo

Title: Minutes of the Public Works Committee – October 16, 2018

Meeting and Date: Public Works Committee – December 18, 2018

Synopsis: _____

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Committee Approval

Submitted by: Minute Taker

Name

Department

Agenda Item Notes:

Have a question or comment about this agenda item?

Call us Monday-Friday, 8:00am to 4:30pm at 630-553-4350, email us at agendas@yorkville.il.us, post at www.facebook.com/CityofYorkville, tweet us at @CityofYorkville, and/or contact any of your elected officials at <http://www.yorkville.il.us/320/City-Council>

DRAFT

**UNITED CITY OF YORKVILLE
PUBLIC WORKS COMMITTEE
Tuesday, October 16, 2018, 6:00pm
Yorkville City Hall, Conference Room
800 Game Farm Road**

IN ATTENDANCE:

Committee Members

Chairman Joel Frieders Alderman Ken Koch
Alderman Jackie Milschewski

Absent: Alderman Seaver Tarulis

Other City Officials

City Administrator Bart Olson Engineer Brad Sanderson, EEI
Assistant City Administrator Erin Willrett Public Works Director Eric Dhuse
Alderman Chris Funkhouser (arr. 6:09pm)

Other Guests: None

The meeting was called to order at 6:03pm by Chairman Joel Frieders.

Citizen Comments: None

Previous Meeting Minutes: September 18, 2018
The minutes were approved as presented.

New Business:

1. PW 2018-86 Meeting Schedule for 2019

The committee was OK with the proposed schedule.

2. PW 2018-87 Capital Improvement Projects Update

Mr. Sanderson said this is a standard update. He commented that there are additional parking spots behind the former Mongolian restaurant. No further discussion or action.

3. PW 2018-88 Bond/LOC Reduction Quarterly Update

The remaining balance for Casey's is the one-year maintenance value and is 10% of the original public improvement estimate, said Mr. Sanderson.

4. PW 2018-89 2018 Sanitary Sewer Lining – Change Order No. 2

This is the balancing and final change order resulting in a reduction or more than \$9,700 since the project came in under estimate. This moves to the consent agenda.

5. PW 2018-90 Yorkville Christian School – Grant of Easement

The school needs an easement for public utility and drainage purposes and ingress/egress for the development. Acceptance is recommended. The Ashley Road entrance is for emergencies only at this time and there is a time limit in which to build a new entrance.

6. PW2018-91 Cedarhurst – Grant of Easement

A small section of an easement was overlooked that includes a fire hydrant and water main. Mr. Sanderson recommended acceptance. Alderman Frieders asked if the easements would eventually all be in one document, however, they will not. This item moves to the consent agenda.

7. PW 2018-92 Grande Reserve – Grant of Easement

Mr. Sanderson said this easement is needed for the connection of two existing bike trails. The developer has approved the language and the document is waiting for city approval. This moves to consent agenda.

8. PW 2018-93 Prestwick Unit 1 Backup SSA

This is the first step to create the SSA in the event the subdivision fails to build out and if maintenance of improvements is not done. Mr. Olson said the existing property owner consents to the SSA before lots are sold and it was a component of the Annexation Agreement. This moves to the consent agenda.

9. PW 2018-94 Pavement Management – 5 Year Plan

Mr. Sanderson said the city entered into a contract with IMS in April to re-drive the streets to determine their condition and re-score them by looking at the surface and the base. He and Mr. Dhuse will formulate a plan based on the results. He said much work was done since 2012/2013 and 46 miles were repaved with 24 miles of that total in subdivisions. Bar graph summaries were compiled for specific areas. A 5-year plan was also compiled based on a yearly \$700,000 budget. He said Mill Rd. is one of the worst streets and will be repaired by the developer. Baseline Rd. was backed out of the plan and a decision will need to be made on closure or repair. Corneils Rd. had some repair last year and it is hoped ComEd can help fund part of the western portion.

Mr. Olson said this is the time of year the city starts to look at the next year's plan and recommended finalization of the plan by next month. Alderman Koch asked if staff would review the roads instead of relying just on the machine tests. Mr. Sanderson also said adjustments can be made and they try to group the projects together for the benefit of the paver and to save money.

Mr. Dhuse replied that if entire areas are in need of repair, they would bump those to the foreground. Currently, 26 miles are considered to be in poor or fair condition. The committee discussed various areas of the city and their respective road conditions. This matter will be brought back to committee for further discussion.

10. PW 2018-95 Capital Improvement Plan – 5 Year Plan

Mr. Sanderson said the agenda packet contains a draft capital improvement plan including a list of annual projects to be done. The format was modified and more details added. This will be part of the budget process.

Mr. Olson discussed the water wells, Road to Better Roads program and Rt. 47 improvements. Alderman Koch asked about retrofitting of the utility meters. Mr. Olson replied that old meters spin slower and if they are replaced, he said it would be revenue-neutral in a short time. Also discussed was painting the water tower, water studies with Oswego which are budgeted, water mains and sanitary sewer lining. Mr. Olson said he will ask for a vote or to adopt the plan under the consent agenda.

11. PW 2018-96 Budget Amendment for Radio Purchases

Mr. Olson said the city wishes to purchase 22 radios for Public Works for improved efficiency and planning during snowplowing and other operations. Various models were examined and the costs would be split among several departments. The radios can reach throughout the city and in the planning area with repeaters. The radios also have GPS capability. Also discussed was tracking ability to improve efficiencies. Mr. Olson said a budget amendment is preferred if the costs come in under \$25,000 and it can be approved at staff level or go to the Council for a vote. The committee was OK with a budget amendment and it moves to the consent agenda.

Old Business: None

Additional Business:

Alderman Frieders questioned how far south Sycamore Rd. would be repaired. Mr. Dhuse said he ask for it to be repaired as far as possible and the island will be removed.

Mr. Dhuse commented that the island at McHugh and Rt. 34 will remain and there has been no semi complaints in that area.

There was no further business and the meeting was adjourned at 7:00pm

Minutes respectfully transcribed by
Marlys Young, Minute Taker



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input checked="" type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #1

Tracking Number

PW 2018-97

Agenda Item Summary Memo

Title: Snow Operations December 2018

Meeting and Date: Public Works Committee – December 18, 2018

Synopsis: Overview of winter operations in the months of November and December

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: None

Council Action Requested: None

Submitted by: Eric Dhuse Public Works
Name Department

Agenda Item Notes:



Memorandum

To: Public Works Committee
From: Eric Dhuse, Director of Public Works
CC: Bart Olson, Administrator
Date: December 10, 2018
Subject: December Snow Report

Summary

Winter operations started early this year compared to the last few years. This could not have come at a more difficult time for PW, we were in the middle of leaf pickup when the first snow hit on November 15th. Since that time, we have performed winter snow and ice control operations 3 additional times. I have outlined the operations below.

1. November 15 – salted only, no plowing. Snow came fast and furious for a short time then tapered to flurries. Accumulation on grass areas only, none on pavement.
2. November 26 – The early blizzard hits us with much less force than others in the area. Our crew of 13 hit the streets late on Nov. 25 and worked a full 16 hour day to complete operations. At times, roads were slick but for the most part we were able to keep the streets in very passable shape.
3. November 29 – Salting operation only in advance of possible freezing precipitation. 4 trucks were used during normal business hours.
4. December 5 – 3 trucks spot salted right at 7:00am to melt spotty freezing areas from freezing drizzle overnight.

Truck Status

Our crews have been incredible so far this season. At this time, we are 4 employees down due to retirements and medical issues. In addition to a personnel shortage, we have been plagued with mechanical issues on our plowing fleet. Please find below a brief report of each of our large trucks that perform winter operations.

1. Y9 – 2008 tandem axle dump truck. This truck was able to complete all winter operations so far. At this time, we have to repair a slow air leak that is allowing the tailgate to open unexpectedly, and a hole that has rusted through on the box.
2. Y10 – 2004 single axle dump truck. This truck was able to complete all winter operations so far. No mechanical issues at this time.
3. Y11 – 2016 tandem axle dump truck. This truck was able to complete all but 1 winter operation so far this year. Small mechanical issue with the oil filter that has now been repaired.

4. Y13 – 2008 single axle dump truck. This truck was down until the last salting application. We had to have a new hydraulic tank built for this truck and replace most hydraulic lines. We were able to perform some of the work in house, but we did have a local business make the tank for us. At this time, there is a small hydraulic leak on the site gauge of the hydraulic tank. We are in the process of getting this repaired.
5. Y22- 2006 tandem axle dump truck. This truck has not been used yet this year. We have been waiting for a new dump box to get installed. We received it back from the shop on 12/7. The goal this week is to work on getting our new slide in unit in and operational. We have a vendor rep coming out to assist us with this install.
6. Y23 – 2006 single axle dump truck. This truck has been able to perform all winter operations this year. Unfortunately, we had to override the monitoring system to get it to spread salt, so we do not have accurate data for this truck.
7. Y27 – 2007 single axle dump truck. This truck was in the shop to have the head replaced on the engine. This is a very long and involved process that took weeks to complete. We were able to get it back in time for the last winter operation on 12/5, but the auger sensor was bad on this unit as well, so we have no accurate data.
8. Y28 – 2007 single axle dump truck. This truck was able to perform all winter operations this year except the first one. This is our leaf truck, it was hooked to the leaf vac during the first salting operation. This too has a bad control box that we had to override, therefore the data is not 100% accurate.

We currently have 3 control boxes/auger sensors on order, as soon as they arrive we will install them to more accurately track our usage.

Salt and Brine Usage

Our salt usage table is below. With all of the malfunctions and breakdowns, the data is not accurate. I have recorded what our information our trucks were able to give us, but I also had to perform an estimate to get close to the amount of salt that we have actually used. In addition, our brine operation has not been put to use yet this year. Between trying to build trucks, brine pump break down and all of the mechanical issues we have had with our trucks, we have not been able to use the brine system yet. It is my hope that we can get our operation up and running by the end of next week to be able to use brine and calcium chloride as part of our winter operations.

Snow Operations Salt and Brine Data										
Snow Event Date	11/15/2018	12/5/2018								
Date of Recording	12/6/2018									
Recorder	ED									
Route	Truck ID	Total Miles Driven	Average MPH	Lbs of Salt Used	Tons of Salt Used	Lbs of Salt/Mi.	Gallons of Brine Used	Gal Brine/Ton Salt	Salt Miles	Brine Miles
1	9	240.70	11.00	23872	11.94	414.44	0.00	0.00	57.60	0.00
2	27	86.00	8.30	0	0.00	#DIV/0!	0.00	#DIV/0!	0.00	0.00
3	13	295.00	11.40	41495	20.75	377.57	0.00	0.00	109.90	0.00
4	23	41.30	18.10	7092	3.55	407.59	0.00	0.00	17.40	0.00
5	10	246.00	10.50	55311	27.66	406.10	0.00	0.00	136.20	0.00
6	28	85.40	9.10	13817	6.91	427.77	0.00	0.00	32.30	0.00
7	22	0.00	0.00	0	0.00	#DIV/0!	0.00	#DIV/0!	0.00	0.00
8	11	225.00	9.10	30849	15.42	427.86	0.00	0.00	72.10	0.00
EVENT TOTALS		1219	9.69	172436	86	#DIV/0!	0	#DIV/0!	426	0
			Avg.			Avg.		Avg.		
For salt usage: I am using Y10 as my average truck. If we use 20.75 ton x 8 routes = ~166 tons of salt used so far this year.										

Recommendation

I would request that this be placed on the December 18th Public Works Committee for discussion. If you have any questions or need further information, please let me know.



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input checked="" type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #2

Tracking Number

PW 2018-98

Agenda Item Summary Memo

Title: Water Department Reports for July, August, and September 2018

Meeting and Date: Public Works Committee – December 18, 2018

Synopsis: Monthly water reports.

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Approval

Submitted by: Eric Dhuse Public Works
Name Department

Agenda Item Notes:



United City of Yorkville

WATER DEPARTMENT REPORT

JULY 2018
MONTH / YEAR

WELLS

NO	WELL DEPTH (FEET)	PUMP DEPTH (FEET)	WATER ABOVE PUMP (FEET)	THIS MONTH'S PUMPAGE (GALLONS)
3				Abandoned
4	1386	664	384	24,899,000
7	1527	1125	563	10,284,000
8	1375	840	490	23,602,000
9	1353	867	522	7,691,000
TOTAL TREATED				62,114,000

CURRENT MONTH'S PUMPAGE IS 9,309,000 GALLONS **MORE THAN LAST MONTH**

4,893,000 GALLONS **MORE THAN LAST YEAR**

DAILY AVERAGE PUMPED: 2,144,000 GALLONS

DAILY MAXIMUM PUMPED: 2,779,000 GALLONS

DAILY AVERAGE PER CAPITA USE: 111.32 GALLONS

WATER TREATMENT:

CHLORINE: 1,652 LBS. FED

CALCULATED CONCENTRATION: 3.19 MG/L

FLUORIDE 197 LBS. FED

CALCULATED CONCENTRATION: 0.10 MG/L

POLYPHOSPHATE: 1,810 LBS. FED

CALCULATED CONCENTRATION: 1.12 MG/L

WATER QUALITY:

BACTERIOLOGICAL SAMPLES ANALYZED BY ILLINOIS ENVIRONMENTAL PROTECTION AGENCY:

 SATISFACTORY 0 UNSATISFACTORY (EXPLAIN)

FLUORIDE: SAMPLES TAKEN

CONCENTRATION: MG/L

MAINTENANCE:

NUMBER OF METERS REPLACED:
MXU'S:

NUMBER OF LEAKS OR BREAKS REPAIRED:
BATTERIES REPLACED:

NEW CUSTOMERS:

RESIDENTIAL:

COMMERCIAL:

INDUSTRIAL/GOVERNMENTAL:

COMMENTS:



United City of Yorkville

WATER DEPARTMENT REPORT

AUGUST 2018
MONTH / YEAR

WELLS

NO	WELL DEPTH (FEET)	PUMP DEPTH (FEET)	WATER ABOVE PUMP (FEET)	THIS MONTH'S PUMPAGE (GALLONS)
3				Abandoned
4	1386	664	384	26,633,000
7	1527	1125	563	10,925,000
8	1375	840	490	15,271,000
9	1353	867	522	11,936,000
TOTAL TREATED				59,915,000

CURRENT MONTH'S PUMPAGE IS 7,454,000 GALLONS **MORE THAN LAST MONTH**

6,995,000 GALLONS **MORE THAN LAST YEAR**

DAILY AVERAGE PUMPED: 2,085,000 GALLONS

DAILY MAXIMUM PUMPED: 3,199,000 GALLONS

DAILY AVERAGE PER CAPITA USE: 107.37 GALLONS

WATER TREATMENT:

CHLORINE: 1,551 LBS. FED

CALCULATED CONCENTRATION: 3.10 MG/L

FLUORIDE 152 LBS. FED

CALCULATED CONCENTRATION: 0.08 MG/L

POLYPHOSPHATE: 1,815 LBS. FED

CALCULATED CONCENTRATION: 1.16 MG/L

WATER QUALITY:

BACTERIOLOGICAL SAMPLES ANALYZED BY ILLINOIS ENVIRONMENTAL PROTECTION AGENCY:

 SATISFACTORY 0 UNSATISFACTORY (EXPLAIN)

FLUORIDE: SAMPLES TAKEN

CONCENTRATION: MG/L

MAINTENANCE:

NUMBER OF METERS REPLACED:
MXU'S:

NUMBER OF LEAKS OR BREAKS REPAIRED:
BATTERIES REPLACED:

NEW CUSTOMERS:

RESIDENTIAL:

COMMERCIAL:

INDUSTRIAL/GOVERNMENTAL:

COMMENTS:



United City of Yorkville

WATER DEPARTMENT REPORT

SEPTEMBER 2018
MONTH / YEAR

WELLS

NO	WELL DEPTH (FEET)	PUMP DEPTH (FEET)	WATER ABOVE PUMP (FEET)	THIS MONTH'S PUMPAGE (GALLONS)
3				Abandoned
4	1386	664	384	20,586,000
7	1527	1125	563	9,661,000
8	1375	840	490	13,059,000
9	1353	867	522	12,492,000
TOTAL TREATED				51,550,600

CURRENT MONTH'S PUMPAGE IS 8,966,500 GALLONS **LESS THAN LAST MONTH**

2,685,500 GALLONS **LESS THAN LAST YEAR**

DAILY AVERAGE PUMPED: 1,860,000 GALLONS

DAILY MAXIMUM PUMPED: 4,061,000 GALLONS

DAILY AVERAGE PER CAPITA USE: 95.46 GALLONS

WATER TREATMENT:

CHLORINE: 1,655 LBS. FED

CALCULATED CONCENTRATION: 3.85 MG/L

FLUORIDE 262 LBS. FED

CALCULATED CONCENTRATION: 0.14 MG/L

POLYPHOSPHATE: 1,386 LBS. FED

CALCULATED CONCENTRATION: 1.03 MG/L

WATER QUALITY:

BACTERIOLOGICAL SAMPLES ANALYZED BY ILLINOIS ENVIRONMENTAL PROTECTION AGENCY:

 SATISFACTORY 0 UNSATISFACTORY (EXPLAIN)

FLUORIDE: SAMPLES TAKEN

CONCENTRATION: MG/L

MAINTENANCE:

NUMBER OF METERS REPLACED:
MXU'S:

NUMBER OF LEAKS OR BREAKS REPAIRED:
BATTERIES REPLACED:

NEW CUSTOMERS:

RESIDENTIAL:

COMMERCIAL:

INDUSTRIAL/GOVERNMENTAL:

COMMENTS:



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input checked="" type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input checked="" type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #3

Tracking Number

PW 2018-99

Agenda Item Summary Memo

Title: Radio Purchases – RFP Update

Meeting and Date: Public Works Committee – December 18, 2018

Synopsis: See attached memo.

Council Action Previously Taken:

Date of Action: N/A Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Approval

Submitted by: Carri Parker Administration
Name Department

Agenda Item Notes:



Memorandum

To: Public Works Committee
From: Eric Dhuse, Director of Public Works
Carri Parker, Purchasing Manager
CC: Bart Olson, City Administrator
Erin Willrett, Assistant City Administrator
Date: December 18, 2018
Subject: Portable GPS-Enabled Radio Purchase Request for Proposal

Summary

Discussion of the Request for Proposal (RFP) for the purchase of (22) portable GPS-enabled radios and software maintenance based on the preliminary results from the RFP on Tuesday, December 18, 2018.

Background

In past years, the Public Works Department had a vehicle-based radio system. When the system went obsolete and radio frequencies were reallocated, the Public Works employees began using a variety of phone and internet based hand-held technologies. Currently, Public Works employees are utilizing their cell phones to relay information to and from plow routes during snowplow operations and regular day-to-day responsibilities. This is highly ineffective and the need for this equipment is needed more than ever due to the vast array of events occurring throughout the City.

The purchase of this equipment did require a budget amendment, which was approved by the Committee on October 11, 2018 and by the City Council on October 24, 2018.

The RFP was released on November 8, 2018 with a closing date of December 18, 2018 at 9:00 am. The RFP is to solicit bids from different companies for a GPS-based radio system for use during Public Works and Parks operations. Due to the RFP opening being on the same day of this meeting, the results of the RFP opening will be presented verbally and an updated memo, bid tab and agreement will all be provided at the Committee meeting.

Recommendation

Staff requests the Committee approve the RFP received by the recommended vendor and will move to seek approval from the City Council on January 8, 2019.

Attachments that will be Available at the Meeting

- Updated Memo
- Professional Services Agreement
- Bid Tab



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #4

Tracking Number

PW 2018-100

Agenda Item Summary Memo

Title: Storm Water Basin Inspections

Meeting and Date: Public Works Committee – December 18, 2018

Synopsis: Status Update

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: _____

Council Action Requested: Informational

Submitted by: Brad Sanderson Engineering
Name Department

Agenda Item Notes:

Have a question or comment about this agenda item?

Call us Monday-Friday, 8:00am to 4:30pm at 630-553-4350, email us at agendas@yorkville.il.us, post at www.facebook.com/CityofYorkville, tweet us at @CityofYorkville, and/or contact any of your elected officials at http://www.yorkville.il.us/gov_officials.php



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Erin Willrett, Assistant City Administrator
Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, Deputy City Clerk

Date: December 5, 2018
Subject: Storm Water Management Basin Inspections

The purpose of this memo is to update the committee on the status of the basin inspections that were conducted in 2018 as well as the planned inspections for 2019.

The basins that were inspected in 2018 are noted in the attached exhibit. Detailed letters and inspection reports were issued on August 10, 2018 and an example is attached for your information. Following the issuance of the letters, several of the basin owners contacted our office regarding obtaining a better understanding of what was being required. Generally, the basin owners are understanding and being cooperative.

Several basin owners did not acknowledge the receipt of our initial letter therefore we issued a second letter on November 20, 2018. We requested follow-up by no later than December 31, 2018. See attached example of the follow-up letter.

As we move into 2019, we will continue to monitor actions from the inspections that were conducted in 2018. We will work with Public Works and the Community Development departments if there are basin owners that are non-responsive and will address accordingly. In addition, we plan to inspect the areas noted in the attached exhibit in the spring.

If you have any questions or require additional information, please let us know.

2018 STORMWATER MANAGEMENT FACILITY INSPECTION - NORTHWEST QUADRANT
UNITED CITY OF YORKVILLE, ILLINOIS

Parcel Number	Basin ID	Basin Location	Owner	Contact Name	Inspection Notification Letter Issue Date	Inspection Report Issue Date	Second Notice Issue Date	Third Notice Letter Issue Date	Comments
02-08-400-004	NW-02-08-40	Westbury Village (10153 Corneils Road)	Chicago WB Investors LLC	Fred Davis	3/5/2018	8/10/2018			BASIN NOT ACCEPTED
02-16-153-003	NW-02-16-10	Yorkville Business Center (East of 204 Boombah Avenue)	Yorkville Business Center Association	Julie Schlichting	3/5/2018	8/10/2018	11/20/2018		EEI SPOKE WITH JULIE ON 11/29/2018 AND SHE WILL SEND A LETTER REGARDING THE BASINS
02-16-151-007	NW-02-16-10	Yorkville Business Center (East of 204 Boombah Avenue)	Wesley Property Corporation	Julie Schlichting	3/5/2018	8/10/2018	11/20/2018		EEI SPOKE WITH JULIE ON 11/29/2018 AND SHE WILL SEND A LETTER REGARDING THE BASINS
02-21-101-018	NW-02-16-30	Aurora Specialty Textile Group, Inc.(2705 Bridge Street)	Aurora Specialty Textile Group	Kevin Shroba	3/5/2018	8/10/2018	11/20/2018		EEI SPOKE WITH KEVIN ON 11/29/2018. THE BASIN MAINTAINED ANNUALLY - ENVIRONMENTAL CONTRACTOR IS TO A PROVIDE SCHEDULE AND MAINTENANCE REPORT
02-17-202-001	NW-02-17-20	Caledonia Subdivision (South of Corneils Road)	Caledonia of Yorkville Homeowners Association	Steven Walczak	3/5/2018	8/10/2018			EEI MET WITH STEVEN ON 10/13/2018
02-17-400-014	NW-02-17-40	Caledonia Subdivision (South of Shadow Wood Drive)	Yorkville Business Center Association	Julie Schlichting	3/5/2018	8/10/2018	11/20/2018		EEI SPOKE WITH JULIE ON 11/29/2018 AND SHE WILL SEND A LETTER REGARDING THE BASINS
02-17-450-001	NW-02-17-40	Whispering Meadows - Unit 4	Whispering Meadows HOA	Charles Frietag	3/5/2018	8/10/2018			BASIN NOT ACCEPTED
02-19-200-010	NW-02-19-20	Kylyn's Ridge - Unit 2	Kylyn's Ridge HOA	Robert Delo	3/5/2018	8/10/2018	11/20/2018		
02-20-174-001	NW-02-20-10	Whispering Meadows - Unit 1	Whispering Meadows HOA	Charles Frietag	3/5/2018	8/10/2018			BASIN NOT ACCEPTED
02-20-176-006	NW-02-20-10	Kylyn's Ridge Unit 1	Kylyn's Ridge HOA	Robert Delo	3/5/2018	8/10/2018	11/20/2018		
02-20-353-002	NW-02-20-30	800 Blackberry Shore Lane (Kendall Marketplace)	Kendall Holdings I, LLC	Gavin Smith	3/5/2018	8/10/2018			STORM BASIN MAINTENANCE IN PROGRESS
02-19-481-001	NW-02-20-30	Kendall Marketplace - Residential	Abby Properties LLC	Brenda Silerio	NEW	8/10/2018			BASIN NOT ACCEPTED
02-20-401-002	NW-02-20-40	Cannonball Estates - Unit 1	Kylyn's Ridge HOA	Dirk Feldott	3/5/2018	8/10/2018			HOA SENT LETTER TO EEI ON 11/8/20018, STATING THAT DUE TO FINANCIAL REASONS THEY HOPE TO BEGIN WORK ON THE BASIN IN SPRING 2019
02-20-453-028	NW-02-20-40	Countryside Center - Unit 2 (321 W Kendall Rd)	United City of Yorkville	Eric Dhuse	3/5/2018	8/10/2018			N/A
02-20-177-001	NW-02-21-10	Kylyn's Ridge - Unit 1 (884 Canyon Trail)	Kylyn's Ridge HOA	Robert Delo	3/5/2018	8/10/2018	11/20/2018		
02-21-352-028	NW-02-21-30	York Meadow Apartments	TJ Adam Apartment Homes		3/5/2018	8/10/2018	11/20/2018		
02-21-352-028	NW-02-21-30	York Meadows Apartments (310 E Kendall Drive)	TJ Adam Apartment Homes		3/5/2018	8/10/2018	11/20/2018		
02-21-352-028	NW-02-21-30	York Meadows Apartments (318 E Kendall Drive)	TJ Adam Apartment Homes		3/5/2018	8/10/2018	11/20/2018		
02-28-154-023	NW-02-28-10	152 W Veterans Pkwy (IL Route 34 - Behind Walgreens)	Amalgamated Bank Chicago		3/5/2018	8/10/2018	11/20/2018		
02-28-104-020	NW-02-28-10	Countryside Center - Unit 1 (26 W. Countryside Parkway)	Old Second National Bank	Keith McIntosh	3/5/2018	8/10/2018			COMPLIANT
02-29-100-006	NW-02-29-10	Kendall County Government Campus (807 John Street)	Kendall County	Jim Smiley	3/5/2018	8/10/2018			EEI MET WITH KENDALL COUNTY ON 10/5/2018 - BASIN MAINTENANCE CURRENTLY IN PROGRESS
02-29-132-001	NW-02-29-10	Blackberry Woods (South of 1203 Patrick Court)	Blackberry Woods HOA		3/5/2018	8/10/2018			BASIN NOT ACCEPTED
02-29-202-006	NW-02-29-20	Countyside Center - (Behind 407 W Kendall Drive)	United City of Yorkville	Eric Dhuse	3/5/2018	8/10/2018			
02-29-202-006	NW-02-29-20	Countyside Center - (Behind 407 W Kendall Drive)	United City of Yorkville	Eric Dhuse	3/5/2018	8/10/2018			
02-29-301-014	NW-02-29-30	Blackberry Woods (Behind 878 Purcell Street)	Blackberry Woods HOA		3/5/2018	8/10/2018			BASIN NOT ACCEPTED
02-30-117-011	NW-02-30-10	Fox Hill Unit 7 (East of 1951 Rena Lane)	HOA	Steven Walczak	3/5/2018	8/10/2018			WORK CANNOT BEGIN UNTIL ABBY PROPERTIES REPAIRS BASIN DUE TO TOWNHOME CONSTRUCTION
02-30-117-038	NW-02-30-10	Fox Hill Unit 7 (South of 1376 Carolyn Court)	HOA	Steven Walczak	3/5/2018	8/10/2018			EEI MET WITH STEVEN ON 10/13/2018 - SCHEDULE TO BE PROVIDED
02-30-101-001	NW-02-30-10	Fox Hill Unit 1 (Northwest of 1619 Cottonwood Trail)	Paul Dresden		3/5/2018				UNABLE TO CONTACT
02-30-101-001	NW-02-30-10	Fox Hill Unit 1 (Northwest of Park)	Paul Dresden		3/5/2018				UNABLE TO CONTACT
02-30-100-012	NW-02-30-10	Fox Hill Unit 1 (West of 1307 Willow Way)	Paul Dresden		3/5/2018				UNABLE TO CONTACT
02-30-105-001	NW-02-30-10	Oaks Townhome (South of 1547 Cottonwood Trail)	The Oaks of Fox Hill		3/5/2018				UNABLE TO CONTACT
02-30-203-011	NW-02-30-20	Fox Hill Unit 6 (East of 1448 Sycamore Rd - State Farm)	Castle Bank %Yorkville Exchange	Jeana Pizzuto (Inland Group)	3/5/2018	8/10/2018			JEANA CONTACTED EEI ON 10/4/2018 - A SCHEDULE WAS PROVIDED
02-30-216-081	NW-02-30-20	Fox Hill Unit 5 (Southeast 1351 Chestnut Lane)	Townhomes of Fox Hill		3/5/2018				UNABLE TO CONTACT
02-30-200-019	NW-02-30-20	Rush Copley Healthcare Center (1100 W. Veterans Pkwy)	Copley Ventures Inc	Paul Passi (Cemcon)	3/5/2018	8/10/2018			STORM BASIN MAINTENANCE IN PROGRESS
02-30-200-019	NW-02-30-20	Rush Copley Healthcare Center (1100 W. Veterans Pkwy)	Copley Ventures Inc	Paul Passi (Cemcon)	3/5/2018	8/10/2018			STORM BASIN MAINTENANCE IN PROGRESS
02-30-200-019	NW-02-30-20	Rush Copley Healthcare Center (1100 W. Veterans Pkwy)	Copley Ventures Inc	Paul Passi (Cemcon)	3/5/2018	8/10/2018			STORM BASIN MAINTENANCE IN PROGRESS
02-30-200-019	NW-02-30-20	Rush Copley Healthcare Center (1100 W. Veterans Pkwy)	Copley Ventures Inc	Paul Passi (Cemcon)	NEW	8/10/2018			COMPLIANT



United City of Yorkville

800 Game Farm Road
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August 10, 2018

Copley Ventures Inc.
2000 Ogden Avenue
Aurora, Illinois 60504

Re: Stormwater Management Facility Inspection – 02-30-200-019

To Whom It May Concern:

On May 30, 2018, Engineering Enterprises, Inc. (EEI) completed an inspection of the detention basins in your ownership located at Rush Copley Healthcare Center. State and local regulations require inspections of stormwater management facilities to ensure the proper functioning of these facilities. This inspection focused on key structural components and maintenance practices.

The inspections found that the following items are required to restore and/or enhance the effectiveness of the stormwater management facility. The following items are to be completed within 90 days from the date of this letter prior to commencement of enforcement action. Please complete all items on or before **November 9, 2018**, after which an additional inspection will occur.

Southwest Basin (NW-02-30-203)

- Flared end sections have been buried and could not be inspected. All flared end sections should be exposed and functional.
- Areas caused by erosion along the shore line should be stabilized.
- Areas where sinkholes are present along the shore line should be backfilled and stabilized.
- All woody vegetation on the shore line and within the basin should be removed (Specialist required).
- All invasive species/weeds should be removed. (Specialist required).
- Appropriate vegetation should be planted around the basin (Specialist required).

South Basin (NW-02-30-204)

- The outlet flared end section and restrictor manhole could not be located per the engineering plans.
- The inlet flared end sections could not be located per the engineering plans.
- Areas caused by erosion along the shore line should be stabilized.
- Sinkholes present along shore line should be backfilled and stabilized.
- All woody vegetation on the shore line and within the basin should be removed (Specialist required).
- All invasive species/weeds should be removed. (Specialist required).
- Appropriate vegetation should be planted around the basin (Specialist required).

North Basin (NW-02-30-205)

- The outlet flared end section and restrictor manhole per the site plan could not be located.
- Areas caused by erosion and/or muskrat holes along the shore line should be stabilized.
- Sinkholes present along shore line should be backfilled and stabilized.

- Sediment causing blockage in and around flared end sections should be removed.
- All woody vegetation on the shore line and within the basin should be removed (Specialist required).
- All invasive species/weeds should be removed. (Specialist required).
- Appropriate vegetation should be planted around the basin (Specialist required).

Most North Basin (NW-02-30-206)

- The inspection found that the basin is up to state and local regulations and is functioning properly.

Proper operation and maintenance of stormwater management facilities is critical to ensuring each facility protects the surrounding environment. Stormwater facilities are crucial components in the prevention of flooding and in improving water quality. The stormwater management facility inspection report is attached to this letter.

If you have any questions concerning your Stormwater Management Facility or the enclosed information, please free to contact EEI (Nadia Simek or Brad Sanderson) at nsimek@eeiweb.com or bsanderson@eeiweb.com. You may also call at 630-466-6700.

If the contact information is incorrect, please provide EEI with the correct information.

Sincerely,



Bradley P. Sanderson, P.E.
Engineering Enterprises, Inc.
City Engineer

Pc: Mr. Bart Olson, City Administrator (via e-mail)
Ms. Erin Willrett, Assistant City Administrator (via e-mail)
Mr. Eric Dhuse, Director of Public Works (via e-mail)
Ms. Krysti Barksdale-Noble, Community Development Director (via e-mail)
Ms. Lisa Pickering, Deputy Clerk (via e-mail)
TNP, NLS, JAM, EEI (via e-mail)

**United City of Yorkville**

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STORMWATER MANAGEMENT FACILITY INSPECTION REPORT**Basin Location:** Rush Copley Healthcare Center**Basin ID:** NW-02-30-203 (Southwest Basin)**Parcel Number:** 02-30-200-19**Basin Type (circle):** Dry Detention**Wet Detention****Naturalize****Owner Name:** Copley Ventures Inc.**Owner Contact Number:** _____**Inspection Date:** 05-30-2018**Inspector(s):** JCV

WHAT TO LOOK FOR	OBSERVATION	
TRASH/DEBRIS		
Is there excessive trash/debris along the shore or inside the basin?	Yes / No	
Is trash/debris causing a blockage at the flared end sections?	Yes / No	
STRUCTURAL INTEGRITY		
Are the flared end sections deteriorating, misaligned, or have broken/missing pieces?	Yes / No	FES not located as shown in plans. It appears that these structures were never installed.
Is the restrictor manhole working properly? i.e. not clogged with debris and installed correctly	Yes / No	N/A
EROSION		
Is there evidence of erosion, undercutting, and/or bare or exposed soil around the basin?	Yes / No	Deep eroded channels along shoreline.
Is discharge causing undercutting, erosion, or displaced rip-rap at or around the outflow flared end section?	Yes / No	
Are there muddy areas or sinkholes present around the basin?	Yes / No	
SEDIMENTATION		
Is there evidence of clogging in pre-treatment cell? i.e. standing water, noticeable odors, water stains, algae or floating aquatic vegetation	Yes / No	

Is there any visible excess sediment deposits?	Yes / No	
Is sedimentation causing blockage the flared end sections?	Yes / No	
VEGETATION		
Is there woody growth along the embankment, spillway, or within 5 feet of the flared end sections?	Yes / No	Dense woody growth surrounding much of basin.
Is the entire basin overgrown?	Yes / No	
Any invasive species/weeds? (See attached sheet)	Yes / No	Unknown
Appropriate vegetation within each base flood elevation (inundation zone)?	Yes / No	Unknown
Vegetation diseased, dying, or dead? (Naturalized Basins Only)	Yes / No	
MISCELLANEOUS		
Is the water level above or below the outlet flared section?	A/B	A = Above N/A B = Below
Can the detention basin be accessed easily?	Yes / No	

Any Additional Comments/Concerns:

Dense vegetation makes basin difficult to access.

It is likely that FES were never installed.

Rip-rap located on the East side of the basin but no FES was visible.

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STORMWATER MANAGEMENT FACILITY INSPECTION REPORT**Basin Location:** Rush Copley Healthcare Center**Basin ID:** NW-02-30-204 (South Basin)**Parcel Number:** 02-30-200-019**Basin Type (circle):** Dry Detention**Wet Detention****Naturalize****Owner Name:** Copley Ventures Inc.**Owner Contact Number:** _____**Inspection Date:** 05-24-2018**Inspector(s):** JCV

WHAT TO LOOK FOR	OBSERVATION	
TRASH/DEBRIS		
Is there excessive trash/debris along the shore or inside the basin?	Yes / No	
Is trash/debris causing a blockage at the flared end sections?	Yes / No	
STRUCTURAL INTEGRITY		
Are the flared end sections deteriorating, misaligned, or have broken/missing pieces?	Yes / No	
Is the restrictor manhole working properly? i.e. not clogged with debris and installed correctly	Yes / No	Outlet FES and manhole not located.
EROSION		
Is there evidence of erosion, undercutting, and/or bare or exposed soil around the basin?	Yes / No	
Is discharge causing undercutting, erosion, or displaced rip-rap at our around the outflow flared end section?	Yes / No	
Are there muddy areas or sinkholes present around the basin?	Yes / No	
SEDIMENTATION		
Is there evidence of clogging in pre-treatment cell? i.e. standing water, noticeable odors, water stains, algae or floating aquatic vegetation	Yes / No	

Is there any visible excess sediment deposits?	Yes / No	
Is sedimentation causing blockage the flared end sections?	Yes / No	
VEGETATION		
Is there woody growth along the embankment, spillway, or within 5 feet of the flared end sections?	Yes / No	
Is the entire basin overgrown?	Yes / No	
Any invasive species/weeds? (See attached sheet)	Yes / No	Unknown
Appropriate vegetation within each base flood elevation (inundation zone)?	Yes / No	Unknown
Vegetation diseased, dying, or dead? (Naturalized Basins Only)	Yes / No	
MISCELLANEOUS		
Is the water level above or below the outlet flared section?	A/B	A = Above N/A B = Below
Can the detention basin be accessed easily?	Yes / No	

Any Additional Comments/Concerns:

FES at South and North end of basin and the restrictor manhole unable to be located. These structures were likely never installed. This needs to be inspected further.

The only FES located was in the middle of the West side of the basin, and it was completely dry.

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STORMWATER MANAGEMENT FACILITY INSPECTION REPORT**Basin Location:** Rush Copley Healthcare Center**Basin ID:** NW-02-30-205 (North Basin)**Parcel Number:** 02-30-200-019**Basin Type (circle):** Dry Detention**Wet Detention****Naturalize****Owner Name:** Copley Ventures Inc.**Owner Contact Number:** _____**Inspection Date:** 05-24-2018**Inspector(s):** JCV

WHAT TO LOOK FOR		OBSERVATION
TRASH/DEBRIS		
Is there excessive trash/debris along the shore or inside the basin?	Yes / No	
Is trash/debris causing a blockage at the flared end sections?	Yes / No	
STRUCTURAL INTEGRITY		
Are the flared end sections deteriorating, misaligned, or have broken/missing pieces?	Yes / No	
Is the restrictor manhole working properly? i.e. not clogged with debris and installed correctly	Yes / No	Restrictor manhole and outlet FES not located. It is likely that the outlet structure was not installed.
EROSION		
Is there evidence of erosion, undercutting, and/or bare or exposed soil around the basin?	Yes / No	Muskrat holes causing erosion.
Is discharge causing undercutting, erosion, or displaced rip-rap at or around the outflow flared end section?	Yes / No	
Are there muddy areas or sinkholes present around the basin?	Yes / No	
SEDIMENTATION		
Is there evidence of clogging in pre-treatment cell? i.e. standing water, noticeable odors, water stains, algae or floating aquatic vegetation	Yes / No	

Is there any visible excess sediment deposits?	Yes / No	
Is sedimentation causing blockage the flared end sections?	Yes / No	Sediments built up in FES on Southwest corner of basin.
VEGETATION		
Is there woody growth along the embankment, spillway, or within 5 feet of the flared end sections?	Yes / No	
Is the entire basin overgrown?	Yes / No	
Any invasive species/weeds? (See attached sheet)	Yes / No	Unknown
Appropriate vegetation within each base flood elevation (inundation zone)?	Yes / No	Unknown
Vegetation diseased, dying, or dead? (Naturalized Basins Only)	Yes / No	
MISCELLANEOUS		
Is the water level above or below the outlet flared section?	A/B	A = Above N/A B = Below
Can the detention basin be accessed easily?	Yes / No	

Any Additional Comments/Concerns:

Outlet structure which allows flow from NW-02-30-205 (north basin) to NW-02-30-204 (south basin) was likely never installed.

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STORMWATER MANAGEMENT FACILITY INSPECTION REPORT**Basin Location:** Rush Copley Healthcare Center**Basin ID:** NW-02-30-206 (Most North Basin)**Parcel Number:** 02-30-200-019**Basin Type (circle):** Dry Detention**Wet Detention****Naturalize****Owner Name:** Copley Ventures Inc.**Owner Contact Number:** _____**Inspection Date:** 05-30-2018**Inspector(s):** JCV

WHAT TO LOOK FOR	OBSERVATION	
TRASH/DEBRIS		
Is there excessive trash/debris along the shore or inside the basin?	Yes / No	
Is trash/debris causing a blockage at the flared end sections?	Yes / No	
STRUCTURAL INTEGRITY		
Are the flared end sections deteriorating, misaligned, or have broken/missing pieces?	Yes / No	
Is the restrictor manhole working properly? i.e. not clogged with debris and installed correctly	Yes / No	
EROSION		
Is there evidence of erosion, undercutting, and/or bare or exposed soil around the basin?	Yes/ No	
Is discharge causing undercutting, erosion, or displaced rip-rap at or around the outflow flared end section?	Yes / No	
Are there muddy areas or sinkholes present around the basin?	Yes / No	
SEDIMENTATION		
Is there evidence of clogging in pre-treatment cell? i.e. standing water, noticeable odors, water stains, algae or floating aquatic vegetation	Yes / No	

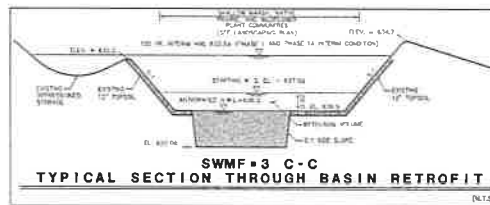
Is there any visible excess sediment deposits?	Yes / No	
Is sedimentation causing blockage the flared end sections?	Yes / No	
VEGETATION		
Is there woody growth along the embankment, spillway, or within 5 feet of the flared end sections?	Yes / No	
Is the entire basin overgrown?	Yes / No	
Any invasive species/weeds? (See attached sheet)	Yes / No	
Appropriate vegetation within each base flood elevation (inundation zone)?	Yes / No	
Vegetation diseased, dying, or dead? (Naturalized Basins Only)	Yes / No	
MISCELLANEOUS		
Is the water level above or below the outlet flared section?	A/B	A = Above B = Below
Can the detention basin be accessed easily?	Yes / No	

Any Additional Comments/Concerns:

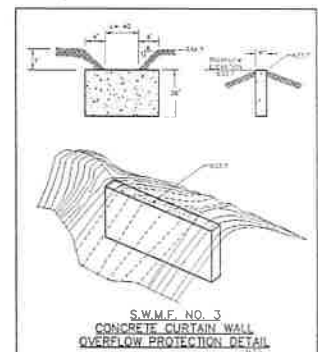
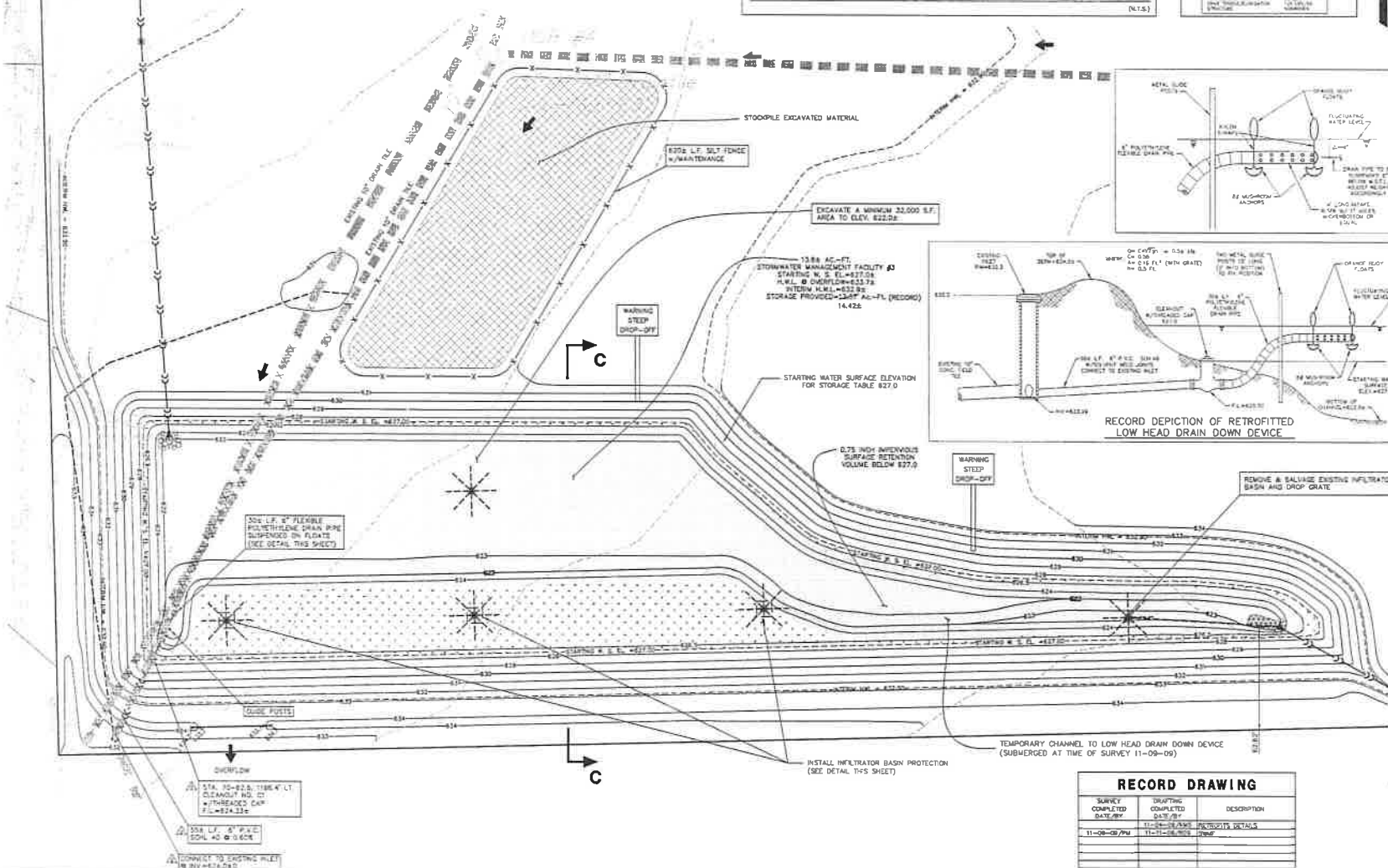
Black liner is exposed in many areas but overall the basin appears to be functioning normally.

SEE RECORD TOPOGRAPHIC SURVEY SHEET #3

ELEV.	PROPOSED STORAGE			RECORD STORAGE		
	AREA (SF)	AREA (AC)	CUMULATIVE VOLUME (AC-FT)	AREA (SF)	AREA (AC)	CUMULATIVE VOLUME (AC-FT)
STARTING W. S. E. 822.00	8744	1.97	0.00	8744	1.97	0.00
822.00	6780	1.52	1.97	8744	1.97	0.00
822.00	5101	1.15	3.12	8744	1.97	0.00
822.00	3444	0.78	4.90	8744	1.97	0.00
822.00	2101	0.47	5.37	8744	1.97	0.00
822.00	1101	0.24	5.61	8744	1.97	0.00
822.00	5101	1.15	6.76	8744	1.97	0.00
822.00	2101	0.47	7.23	8744	1.97	0.00
822.00	1101	0.24	7.47	8744	1.97	0.00
822.00	5101	1.15	8.62	8744	1.97	0.00
822.00	2101	0.47	9.09	8744	1.97	0.00
822.00	1101	0.24	9.33	8744	1.97	0.00
822.00	5101	1.15	10.48	8744	1.97	0.00
822.00	2101	0.47	10.95	8744	1.97	0.00
822.00	1101	0.24	11.19	8744	1.97	0.00
822.00	5101	1.15	12.34	8744	1.97	0.00
822.00	2101	0.47	12.81	8744	1.97	0.00
822.00	1101	0.24	13.05	8744	1.97	0.00
822.00	5101	1.15	14.20	8744	1.97	0.00
822.00	2101	0.47	14.67	8744	1.97	0.00
822.00	1101	0.24	14.91	8744	1.97	0.00



- ### GENERAL
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF YORKVILLE STANDARDS AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, APPLICABLE WHEN REFERENCES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHY WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EACH OF THE UTILITY COMPANIES BEFORE ANY WORK IS STARTED. ALL UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION.
 - THE ENGINEER AND CITY OF YORKVILLE WILL BE GIVEN SEVENTY-TWO (72) HOURS NOTICE FOR ANY STAKING THAT IS TO BE DONE. EACH OF THE VARIOUS ITEMS OF WORK COVERED BY THIS CONTRACT WILL BE STAKED ONCE. ADDITIONAL STAKING REQUIRED DUE TO THE CONTRACTOR NEGLIGENCE SHALL BE PAID FOR BY THE CONTRACTOR AT THE CURRENT HOURLY RATE.
 - THE CONTRACTOR SHALL INFORM THE ENGINEER AND THE CITY OF YORKVILLE PUBLIC WORKS DEPARTMENT AT (800) 553-4350 BEFORE WORK COMMENCES ON EACH CATEGORY OF CONSTRUCTION, I.E. WATERMAIN, SANITARY, STREET AND DRAINAGE IMPROVEMENTS. A FORTY EIGHT (48) HOUR NOTICE SHALL BE GIVEN FOR ANY ITEM THAT REQUIRES FINAL TEST AND INSPECTION SUCH AS WATERMAINS OR SANITARY SEWERS.
 - THE CONTRACTOR RESPONSIBLE FOR WATERMAIN CONSTRUCTION, SANITARY SEWER CONSTRUCTION AND DRAINAGE IMPROVEMENTS (UNDERGROUND WORK) SHALL DISPOSE OF ALL SURPLUS MATERIALS ON THE SITE AS DIRECTED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE PAID AND SAID WORK SHALL BE INCIDENTAL TO THE OTHER ITEMS OF CONSTRUCTION.
 - THE OWNER WILL FURNISH THE CONTRACTOR WITH LINES AND GRADES NECESSARY TO THE PROPER PROTECTION AND CONTROL OF THE WORK. THE CONTRACTOR SHALL CALL THE ATTENTION OF THE OWNER'S REPRESENTATIVE TO ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES WHICH ARE ESTABLISHED BY THE OWNER AND SHALL NOT PROCEED WITH THE WORK UNTIL ANY LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE OWNER'S REPRESENTATIVE.
 - EXCAVATED MATERIAL SHALL BE PLACED AT THE STOCKPILE LOCATION NOTED AND A SILT FENCE SHALL BE CREATED UPON COMPLETION OF THE EARTHWORK.



PROFESSIONAL ENGINEER'S CERTIFICATION

STATE OF ILLINOIS) SS.
COUNTY OF DU PAGE)

I, RAVENHILL W. BUS, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS RECORD SUBMITTAL WAS PREPARED ON BEHALF OF RUSH-COPLEY MEDICAL CENTER BY CEMCON, LTD., UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART AND IN CONNECTION WITH THE PROJECT'S SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 11th DAY OF MAY, 2009, A.D. ENGINEER'S SIGNATURE: *Ravenhill W. Bus*
ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 64-040100
MY LICENSE EXPIRES ON NOVEMBER 30, 2009

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184-002937
EXPIRES APRIL 30, 2009

NOTE: UNLESS THIS DOCUMENT BEARS THE ORIGINAL SIGNATURE AND IMPRESSED SEAL OF THE DESIGN PROFESSIONAL ENGINEER, IT IS NOT A VALID TECHNICAL SUBMISSION.

RECORD DRAWING

SURVEY COMPLETED DATE/BY	DRAFTING COMPLETED DATE/BY	DESCRIPTION
11-08-08/PW	11-08-08/MS	PHASE 1 STORMWATER MANAGEMENT SYSTEM RETROFITS
	11-08-08/MS	PHASE 1 STORMWATER MANAGEMENT SYSTEM RETROFITS
	11-08-08/MS	PHASE 1 STORMWATER MANAGEMENT SYSTEM RETROFITS

PREPARED FOR:
RUSH-COPLEY MEDICAL CENTER
2000 OGDEN AVENUE
AURORA, IL 60504
(630) 978-4972

CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, IL 60504
PH: 630.862.2100 FAX: 630.862.2199
E-Mail: info@cemcon.com Website: www.cemcon.com

REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11-08-08	PHASE 1 STORMWATER MANAGEMENT SYSTEM RETROFITS			
2	11-08-08	PHASE 1 STORMWATER MANAGEMENT SYSTEM RETROFITS			

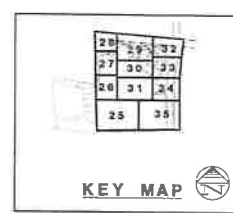
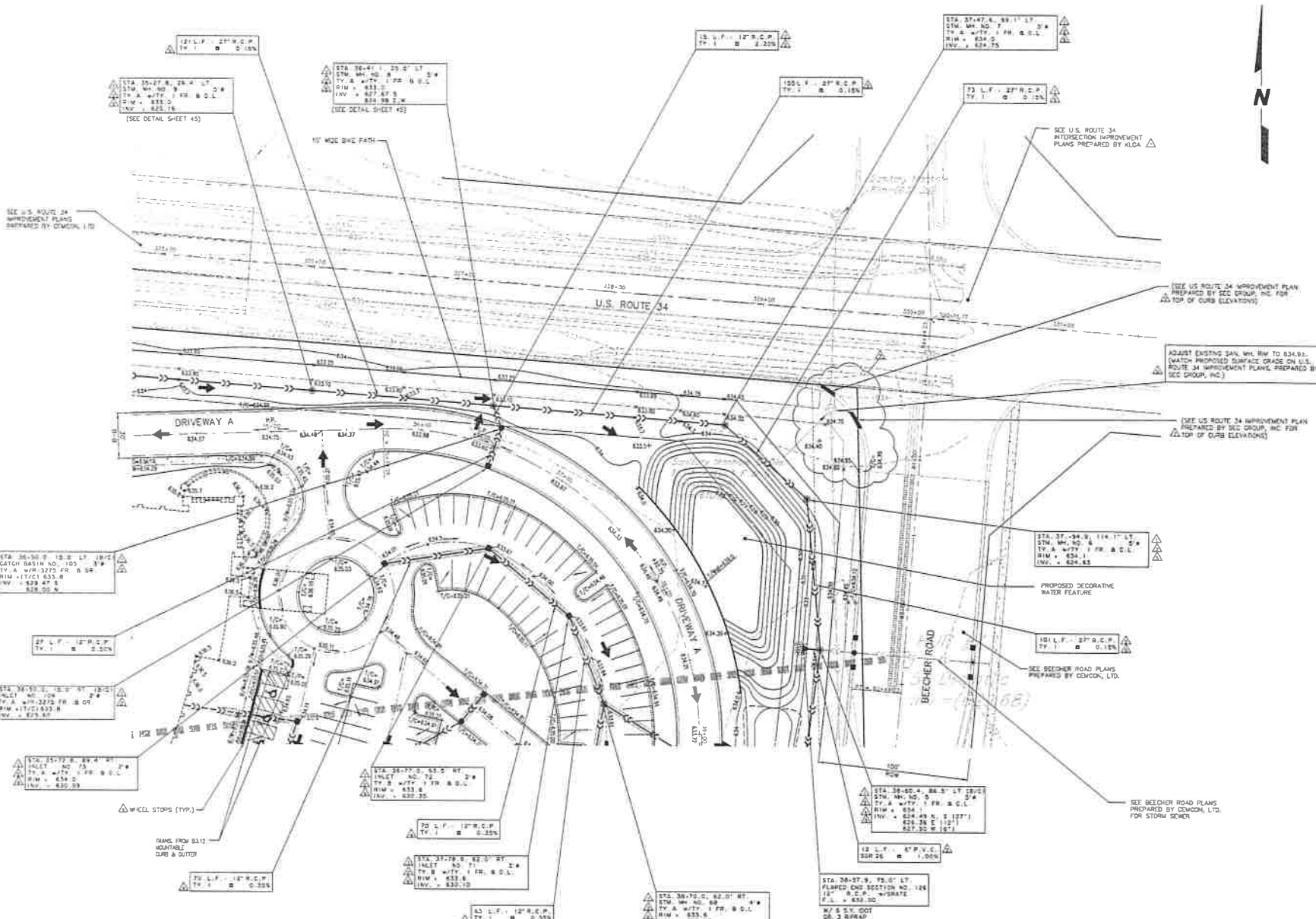
PHASE 1 STORMWATER MANAGEMENT SYSTEM RETROFITS

RUSH-COPLEY HEALTHCARE CENTER

FILE NAME: P1 S.W.M.F. RETROFITS	DESIGN: B.Y. RWB	JOB NO: 1122	FILE: BK/PC	SHEET NO: 1 of 2
DIN: 804667	DIN: B.Y. DMC	DATE: 07-09-08	SCALE: 1" = 30'	

DRAINAGE AND GRADING NOTES

- SEE SHEETS 2 AND 3 FOR ADDITIONAL NOTES.
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- PROPER TRANSITION TO BE PROVIDED FROM END OF PROPOSED STORM SEWERS, DITCHES, ROADWAYS, ETC. TO EXISTING GRADE. RESTORATION OF DISTURBED AREAS OUTSIDE OF THE CONSTRUCTION LIMITS IS THE RESPONSIBILITY OF THE CONTRACTOR. AREAS SHALL BE RESTORED TO PRECONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE OWNER.
- CURB ELEVATION OF CURBED ISLANDS SHALL BE A MINIMUM OF 8 INCHES ABOVE THE HIGHEST BACK OF CURB ELEVATION.
- CONTRACTOR TO INSTALL 6" PERFORATED UNDERDRAIN AS SOON AS SUBGRADE ELEVATIONS ARE ACHIEVED.
- CONTRACTOR TO ADJUST ALL EXISTING UTILITY STRUCTURES TO PROPOSED GRADE.
- INVERTS AT BOTTOM OF MANHOLES AND CATCH BASINS MUST BE CHANNELIZED.
- POWER DRAINS TO BE LOCATED AT ALL CATCH BASINS PER DETAIL AND INSTALLED AS SOON AS SUBGRADE ELEVATIONS ARE ACHIEVED.
- ALL ROOF LATERALS OUT OF THE BUILDING SHALL BE PVC SCH 20 UNLESS OTHERWISE NOTED.
- ELECTRICAL TRANSFORMER PAD IS ELEVATED 10" ABOVE SURROUNDING PAVEMENT.
- ALL DISTURBED AREAS SHALL HAVE TEMPORARY SEEDING AND MULCHING.
- SOIL SLOPES 3:1 OR GREATER WILL BE SOODED OR STABILIZED WITH AN EROSION CONTROL BLANKET BY THE SITE CONTRACTOR. EROSION CONTROL BLANKET SHALL BE TYPE 150. STRAW/COIR DESIGN CONTROL BLANKET SHALL BE MANUFACTURED BY NORTH AMERICAN GREEN COMPANY, OR AN ENGINEER APPROVED EQUAL.
- ALL OPEN SPACE AREAS (NON-PAVED AREAS) SHALL BE COVERED WITH 4 INCHES OF TOPSOIL UNLESS OTHERWISE NOTED ON PLAN, THEN SEEDING AND MULCHING.
- DETENTION BASIN SHALL BE USED TO GENERATE BORROW MATERIAL FOR STRUCTURAL FILL, AND MAY BE REPLACED WITH TOPSOIL.
- INDICATES WATERMAIN PROTECTION.
- INDICATES TRENCH BACKFILL.
- INDICATES REVERSE PITCHED CURB & GUTTER.
- INDICATES DEPRESSIONED CURB & GUTTER.



PREPARED FOR:
RUSH-COPLEY MEDICAL CENTER
2000 OGDEN AVENUE
AURORA, IL 60504
(630) 978-4972

DESIGNED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60502-8875
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: cgm@cemcon.com Website: www.cemcon.com

NO.	DATE	DESCRIPTION	REVISIONS	NO.	DATE	DESCRIPTION
1	04-18-07	ISSUED FOR PERMITS				
2	05-08-07	REVISED FOR PERMITS				
3	05-15-07	REVISED FOR PERMITS				
4	05-22-07	REVISED FOR PERMITS				
5	06-05-07	REVISED FOR PERMITS				
6	06-12-07	REVISED FOR PERMITS				
7	06-19-07	REVISED FOR PERMITS				
8	06-26-07	REVISED FOR PERMITS				
9	07-03-07	REVISED FOR PERMITS				
10	07-10-07	REVISED FOR PERMITS				
11	07-17-07	REVISED FOR PERMITS				
12	07-24-07	REVISED FOR PERMITS				
13	07-31-07	REVISED FOR PERMITS				
14	08-07-07	REVISED FOR PERMITS				
15	08-14-07	REVISED FOR PERMITS				
16	08-21-07	REVISED FOR PERMITS				
17	08-28-07	REVISED FOR PERMITS				
18	09-04-07	REVISED FOR PERMITS				
19	09-11-07	REVISED FOR PERMITS				
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94	02-18-09	REVISED FOR PERMITS				
95	02-25-09	REVISED FOR PERMITS				
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97	03-11-09	REVISED FOR PERMITS				
98	03-18-09	REVISED FOR PERMITS				
99	03-25-09	REVISED FOR PERMITS				
100	04-01-09	REVISED FOR PERMITS				

DRAINAGE AND GRADING PLAN				
RUSH-COPLEY HEALTHCARE CENTER PHASE 1				
FILE NAME: CDR GRD	CSGN: BY: JK	JOB NO: 903097	PLD: BK/PG: ---	SHEET NO: 32 of 46
DIR: 903067	DRN: BY: DWG	DATE: 03-09-07	SCALE: 1" = 30'	



United City of Yorkville

800 Game Farm Road

Yorkville, Illinois 60560

Telephone: 630-553-4350

www.yorkville.il.us

November 20, 2018

Robert Delo
Maximum Property Management
P.O. Box 1094
Yorkville, Illinois 60560

Re: Stormwater Management Facility Inspection – 02-19-200-010, 02-20-176-006, & 02-20-177-001

Dear Mr. Delo,

On May 24, 2018, Engineering Enterprises, Inc. (EEI) completed an inspection of the stormwater management facility in your ownership located at Kylyn's Ridge Unit 1. An inspection letter with the required items to be completed was sent to you on August 10, 2018, allowing 90 days for the completion of those items.

As of November 10, 2018, the maintenance items have not been satisfactorily completed. The following items are to be completed within 45 days from the date of this letter prior to the commencement of enforcement action. Please complete all items on or before **December 31, 2018**, after which an additional inspection will occur.

Basin No. 1 (NW-02-21-103)

- Trash and debris should be removed from all flared end sections.
- Discharge at the southwest flared end section (FES-1) is causing undercutting, erosion and/or displacing the rip rap and should be stabilized.

Basin No. 2 (NW-02-20-102)

- The missing grate on the northeast flared end section (FES-5) should be installed.
- The wall inside the restrictor manhole appears to be installed incorrectly and should be corrected to allow proper function.
- Areas caused by erosion and/or muskrat holes along the shore line should be stabilized.
- Areas where sinkholes are present along the shore line should be backfilled and stabilized.
- The tree growing in the northwest flared end section (FES-6) should be removed.
- All woody vegetation on the shore line and within the basin should be removed (Specialist required).

Basin No. 3 (NW-02-19-201)

- All grass trimmings and leaves should be removed from the shoreline and sign installed stating "No Dumping of Yard Waste" should be installed.
- No movement of flow appeared to be occurring within the restrictor manhole. This could be due to possible blockage of the 2 year orifice or incorrect installation. The restrictor manhole should be investigated further and any necessary repairs should be made to allow proper function.
- The heavy vegetation causing blockage in and around the flared end sections should be removed.
- All woody vegetation on the shore line and within the basin should be removed (Specialist required).
- All invasive species/weeds should be removed. (Specialist required).

- Appropriate vegetation should be planted around the basin (Specialist required).

Proper operation and maintenance of stormwater management facilities is critical to ensuring each facility protects the surrounding environment. Stormwater facilities are crucial components in the prevention of flooding and in improving water quality. The stormwater management facility inspection report is attached to this letter.

If you have any questions concerning your Stormwater Management Facility and would like to schedule a field meeting please free to contact EEI (Nadia Simek or Brad Sanderson) at nsimek@eeiweb.com or bsanderson@eeiweb.com. You may also call at 630-466-6700.

If the contact information is incorrect, please provide EEI with the correct information.

Sincerely,



Bradley P. Sanderson, P.E.
Engineering Enterprises, Inc.
City Engineer

pc: Mr. Bart Olson, City Administrator (via e-mail)
Ms. Erin Willrett, Assistant City Administrator (via e-mail)
Mr. Eric Dhuse, Director of Public Works (via e-mail)
Ms. Krysti Barksdale-Noble, Community Development Director (via e-mail)
Ms. Lisa Pickering, Deputy Clerk (via e-mail)
TNP, NLS, JAM, EEI (via e-mail)

**United City of Yorkville**

800 Game Farm Road
Yorkville, Illinois 60560
Telephone: 630-553-4350
www.yorkville.il.us

STORMWATER MANAGEMENT FACILITY INSPECTION REPORT**Basin Location:** Kylyn's Ridge Unit 1 (Basin No. 1)**Basin ID:** NW-02-21-103**Parcel Number:** 02-20-177-001**Basin Type (circle):** Dry Detention

Wet Detention

Naturalize

Owner Name: HOA**Owner Contact Number:** _____**Inspection Date:** 05-24-2018**Inspector(s):** JCV

WHAT TO LOOK FOR		OBSERVATION
TRASH/DEBRIS		
Is there excessive trash/debris along the shore or inside the basin?	Yes / No	
Is trash/debris causing a blockage at the flared end sections?	Yes / No	Trash and grass trimmings causing blockage.
STRUCTURAL INTEGRITY		
Are the flared end sections deteriorating, misaligned, or have broken/missing pieces?	Yes / No	
Is the restrictor manhole working properly? i.e. not clogged with debris and installed correctly	Yes / No	Water below level of two-year orifice and pipe from basin. No flow occurring.
EROSION		
Is there evidence of erosion, undercutting, and/or bare or exposed soil around the basin?	Yes / No	
Is discharge causing undercutting, erosion, or displaced rip-rap at or around the outflow flared end section?	Yes / No	Rip-rap missing in front of FES-1. Bare soil is exposed. Rip-rap missing around sides of FES-3.
Are there muddy areas or sinkholes present around the basin?	Yes / No	
SEDIMENTATION		
Is there evidence of clogging in pre-treatment cell? i.e. standing water, noticeable odors, water stains, algae or floating aquatic vegetation	Yes / No	

Is there any visible excess sediment deposits?	Yes / No	
Is sedimentation causing blockage the flared end sections?	Yes / No	
VEGETATION		
Is there woody growth along the embankment, spillway, or within 5 feet of the flared end sections?	Yes / No	
Is the entire basin overgrown?	Yes / No	
Any invasive species/weeds? (See attached sheet)	Yes / No	
Appropriate vegetation within each base flood elevation (inundation zone)?	Yes / No	
Vegetation diseased, dying, or dead? (Naturalized Basins Only)	Yes / No	
MISCELLANEOUS		
Is the water level above or below the outlet flared section?	A/B	A = Above B = Below
Can the detention basin be accessed easily?	Yes / No	

Any Additional Comments/Concerns:



United City of Yorkville
800 Game Farm Road
Yorkville, Illinois 60560
Telephone: 630-553-4350
www.yorkville.il.us

STORMWATER MANAGEMENT FACILITY INSPECTION REPORT

Basin Location: Kylyn's Ridge Unit 1 (Basin No. 2)

Basin ID: NW-02-20-102

Parcel Number: 02-20-176-006

Basin Type (circle): Dry Detention

Wet Detention

Naturalize

Owner Name: HOA

Owner Contact Number: _____

Inspection Date: 05-23-2018

Inspector(s): NLS + JCV

WHAT TO LOOK FOR		OBSERVATION
TRASH/DEBRIS		
Is there excessive trash/debris along the shore or inside the basin?	Yes / No	
Is trash/debris causing a blockage at the flared end sections?	Yes / No	
STRUCTURAL INTEGRITY		
Are the flared end sections deteriorating, misaligned, or have broken/missing pieces?	Yes / No	Grate missing on FES-5.
Is the restrictor manhole working properly? i.e. not clogged with debris and installed correctly	Yes / No	Two-year orifice is below inflow and outflow invert elevation. Orifice is submerged.
EROSION		
Is there evidence of erosion, undercutting, and/or bare or exposed soil around the basin?	Yes / No	Muskrat holes causing erosion.
Is discharge causing undercutting, erosion, or displaced rip-rap at or around the outflow flared end section?	Yes / No	
Are there muddy areas or sinkholes present around the basin?	Yes / No	
SEDIMENTATION		
Is there evidence of clogging in pre-treatment cell? i.e. standing water, noticeable odors, water stains, algae or floating aquatic vegetation	Yes / No	

Is there any visible excess sediment deposits?	Yes / No	
Is sedimentation causing blockage the flared end sections?	Yes / No	
VEGETATION		
Is there woody growth along the embankment, spillway, or within 5 feet of the flared end sections?	Yes / No	
Is the entire basin overgrown?	Yes / No	
Any invasive species/weeds? (See attached sheet)	Yes / No	Unknown
Appropriate vegetation within each base flood elevation (inundation zone)?	Yes / No	Unknown
Vegetation diseased, dying, or dead? (Naturalized Basins Only)	Yes / No	
MISCELLANEOUS		
Is the water level above or below the outlet flared section?	A/B	A = Above B = Below
Can the detention basin be accessed easily?	Yes / No	

Any Additional Comments/Concerns:

Muskrat spotted in basin.

Tree growing on top of FES-6 needs to be removed.

Stagnant water along East side of basin.



United City of Yorkville

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Yorkville, Illinois 60560
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www.yorkville.il.us

STORMWATER MANAGEMENT FACILITY INSPECTION REPORT

Basin Location: Kylyn's Ridge Unit 2 (Basin No. 3)

Basin ID: NW-02-19-201

Parcel Number: 02-19-200-010

Basin Type (circle): **Dry Detention**

Wet Detention

Naturalize

Owner Name: HOA

Owner Contact Number: _____

Inspection Date: 05-25-2018

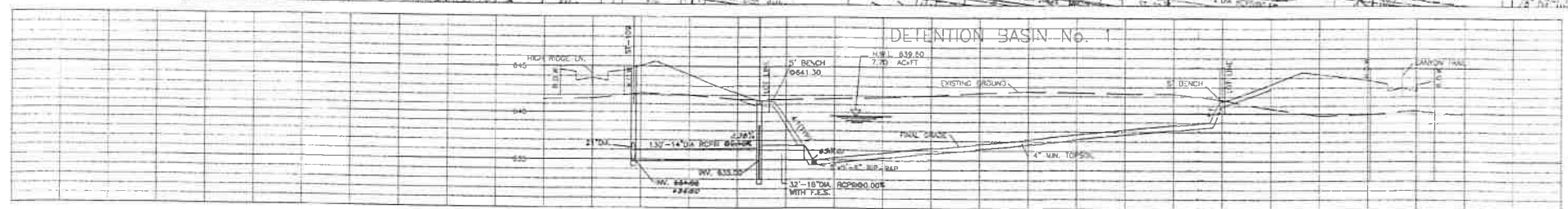
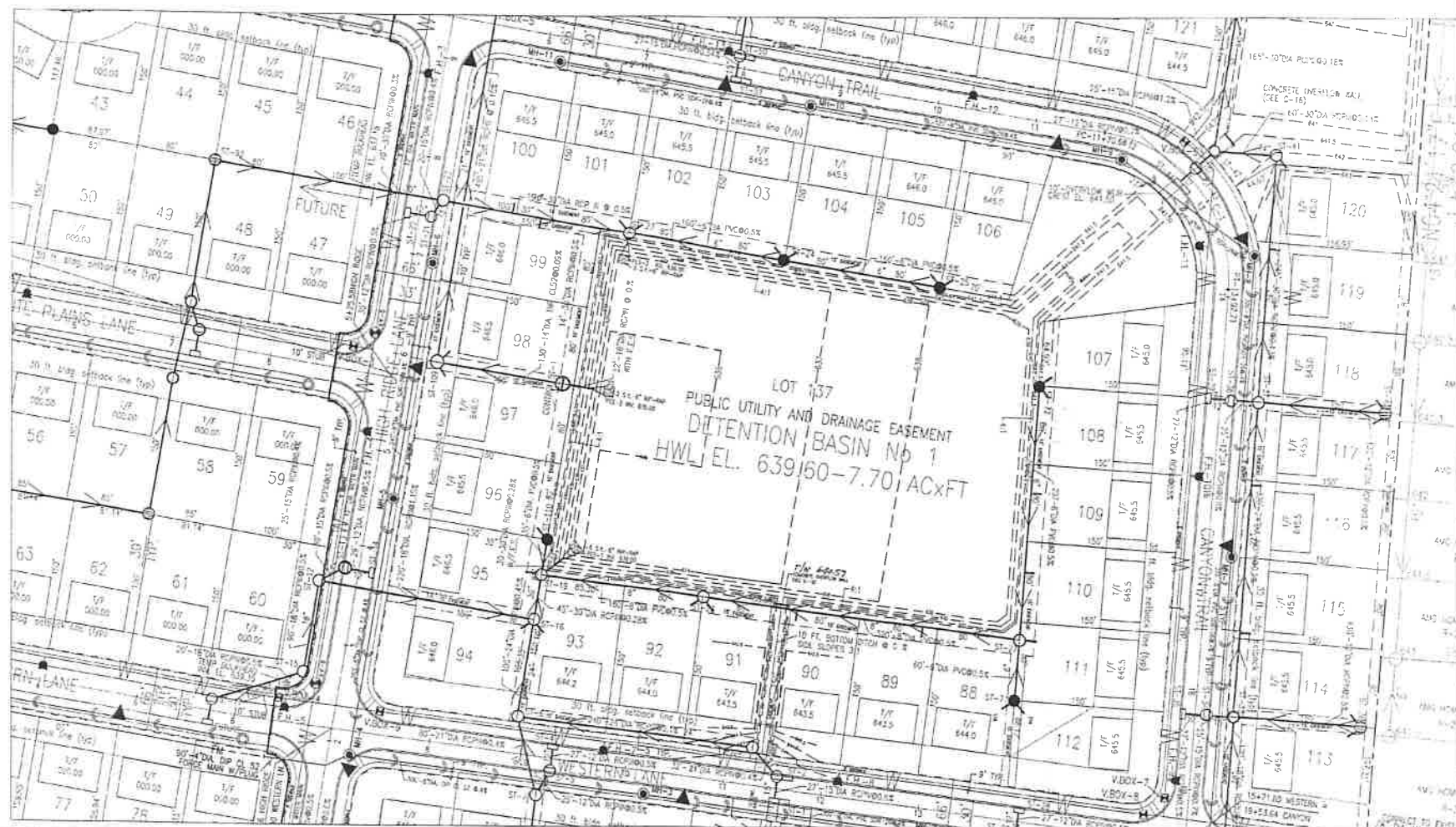
Inspector(s): JCV

WHAT TO LOOK FOR	OBSERVATION	
TRASH/DEBRIS		
Is there excessive trash/debris along the shore or inside the basin?	Yes / No	Grass trimmings and leaves along shoreline.
Is trash/debris causing a blockage at the flared end sections?	Yes / No	Grass trimmings and leaves causing blockage in FES-2.
STRUCTURAL INTEGRITY		
Are the flared end sections deteriorating, misaligned, or have broken/missing pieces?	Yes / No	
Is the restrictor manhole working properly? i.e. not clogged with debris and installed correctly	Yes / No	Two-year orifice appears to have a large amount of grass and dirt stuck in it. Water level below pipe and orifice.
EROSION		
Is there evidence of erosion, undercutting, and/or bare or exposed soil around the basin?	Yes / No	
Is discharge causing undercutting, erosion, or displaced rip-rap at our around the outflow flared end section?	Yes / No	
Are there muddy areas or sinkholes present around the basin?	Yes / No	
SEDIMENTATION		
Is there evidence of clogging in pre-treatment cell? i.e. standing water, noticeable odors, water stains, algae or floating aquatic vegetation	Yes / No	

Is there any visible excess sediment deposits?	Yes / No	
Is sedimentation causing blockage the flared end sections?	Yes / No	
VEGETATION		
Is there woody growth along the embankment, spillway, or within 5 feet of the flared end sections?	Yes / No	Heavy woody growth on North and South end of basin.
Is the entire basin overgrown?	Yes / No	
Any invasive species/weeds? (See attached sheet)	Yes / No	Unknown
Appropriate vegetation within each base flood elevation (inundation zone)?	Yes / No	Unknown
Vegetation diseased, dying, or dead? (Naturalized Basins Only)	Yes / No	
MISCELLANEOUS		
Is the water level above or below the outlet flared section?	A/B	A = Above B = Below
Can the detention basin be accessed easily?	Yes / No	

Any Additional Comments/Concerns:

FES-1, FES-3, and FES-4 are heavily overgrown with woody vegetation and weeds.



DATE	REVISION	DATE	REVISION
2/6/03	AS PER CITY REQUIREMENTS		
3/21/03	AS PER CITY REQUIREMENTS	3/21/03	AS PER CITY REQUIREMENTS
4/1/03	PER CITY REQUIREMENTS		

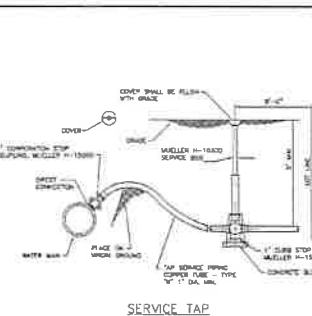
J. BOADA ASSOCIATES
PROJECT DEVELOPMENT AND MANAGEMENT
1282 BIRCHDALE LANE ALBANY, ILLINOIS 60444
PHONE: (815)-883-8747 FAX: (815)-883-8748

KYLYN'S RIDGE
YORKVILLE, ILLINOIS
DETENTION BASIN No. 1 - DETAILS

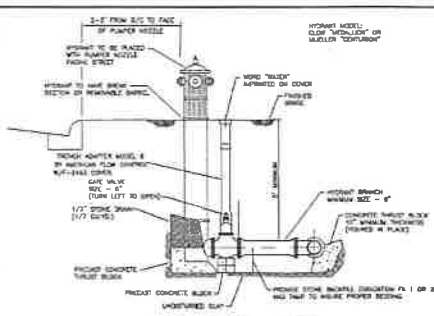
C-12

1. 101 BRACKEN HILL RD., E. CLEARING, STRIPPING, AND STOCKPILING
REMOVED BRUSH AND WEED MATRIALS, THE CONSTRUCTION OF
FURNISHMENT CONSTRUCTION FILL, AND FINE STRIPPING AND TRIMMING TO THE
100% AND 90% SLOPE ON THE PLANT. THIS WORK SHALL BE PERFORMED IN
ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 200 OF THE STANDARD
SPECIFICATIONS.

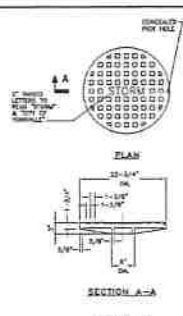
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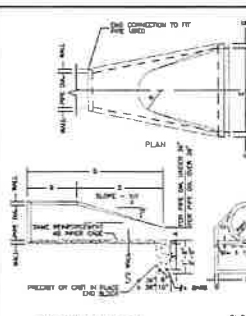
SERVICE TAP



HYDRANT W/AUX. VALVE
AND VALVE BOX



SECTION A-A
TYPE 1
CLOSED LID



1040700000 section

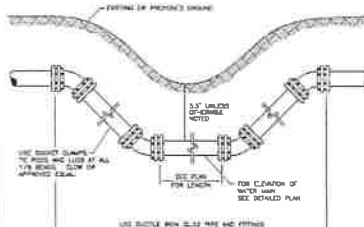
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10 th	280	3 rd	4 th	5 th	6 th	7 th	8 th
10 th	280	3 rd	4 th	5 th	6 th	7 th	8 th
24 th	1310	3 rd	4 th	5 th	6 th	7 th	8 th
27 th	1310	3 rd	4 th	5 th	6 th	7 th	8 th
30 th	1310	3 rd	4 th	5 th	6 th	7 th	8 th
33 th	1310	3 rd	4 th	5 th	6 th	7 th	8 th
36 th	1310	3 rd	4 th	5 th	6 th	7 th	8 th
39 th	1310	3 rd	4 th	5 th	6 th	7 th	8 th
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45 th	1310	3 rd	4 th	5 th	6 th	7 th	8 th

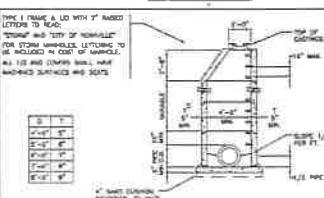
PRECAST REINFORCED CONCRETE FLARED END SECTION

STORM SEWERS AND WATER MAIN:

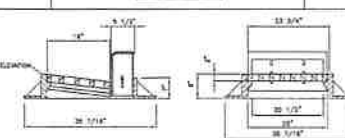
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TYPICAL WATER MAIN

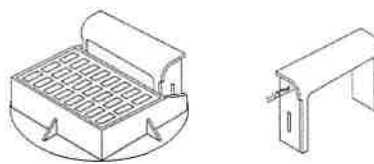


STORM SEWER-MANHOLE TYPE A
CATCH BASIN TYPE A HAS A 2FT. SUMP



NEENAH FOUNDRY COMPANY
R-3015 CURB INLET FRAME W/TYPE L GRATE
TOTAL WEIGHT = 400 lbs.

NOTE: GRATES FOR STORM STRUCTURES ST-4, 5, 28 AND 29 SHALL BE HEDINAH R-3285-8V OR APPROVED EQUAL.

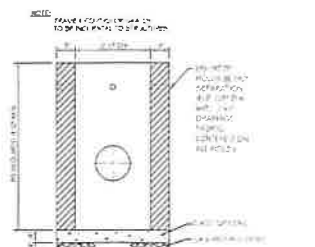


TYPE A GRAPE SNOW, TYPE
B AND C (SEE THIS NOTE)

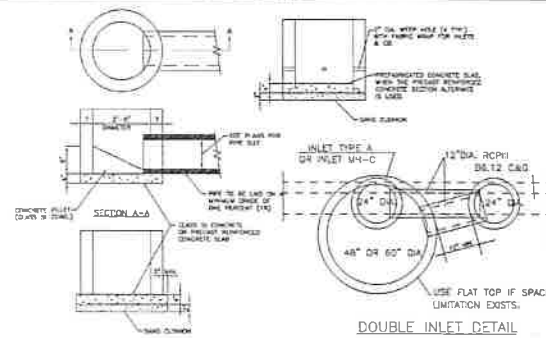
ADJUSTABLE BACK

AS-BUILT
WATER SERVICES LOCATION-B BOX

LOT No.	DISTANCE FROM PROPERTY LINE	DISTANCE FROM BACK OF CURB	LOT No.	DISTANCE FROM PROPERTY LINE	DISTANCE FROM BACK OF CURB
80	40'-E-PL	10.0'	108	42'-S-PL	10.0'
81	50'-E-PL	10.0'	109	44'-S-PL	10.0'
82	48'-E-PL	10.0'	110	42'-S-PL	10.0'
83	42'-E-PL	10.0'	111	44'-S-PL	10.0'
84	46'-E-PL	10.0'	112	34'-N-PL	10.0'
85	46'-E-PL	10.0'	113	67'-N-PL	11.0'
86	42'-E-PL	10.0'	114	40'-N-PL	10.0'
87	45'-E-PL	10.0'	115	50'-N-PL	19.0'
88	47'-E-PL	10.0'	116	29'-N-PL	10.0'
89	40'-W-PL	10.0'	117	35'-N-PL	10.0'
90	43'-W-PL	10.0'	118	36'-W-PL	10.0'
91	37'-W-PL	11.0'	119	32'-N-PL	10.0'
92	44'-W-PL	9.0'	120	34'-N-PL	11.0'
93	52'-W-PL	10.0'	121	42'-W-PL	12.0'
94	38'-N-PL	10.0'	122	47'-W-PL	11.0'
95	35'-N-PL	10.0'	123	47'-W-PL	10.0'
96	34'-N-PL	9.0'	124	45'-W-PL	20.0'
97	44'-N-PL	9.0'	125	46'-W-PL	10.0'
98	35'-N-PL	9.0'	126	37'-W-PL	10.0'
99	36'-N-PL	8.0'	127	41'-W-PL	9.0'
100	39'-E-PL	10.0'	128	44'-W-PL	10.0'
101	44'-E-PL	10.0'	129	39'-E-PL	10.0'
102	34'-E-PL	10.0'	130	42'-S-PL	8.0'
103	34'-E-PL	10.0'	131	32'-S-PL	9.0'
104	34'-E-PL	9.0'	132	44'-S-PL	9.0'
105	40'-E-PL	10.0'	133	36'-S-PL	10.0'
106	47'-W-PL	10.0'	134	31'-S-PL	10.0'
107	44'-S-PL	10.0'	PARK 135	43'-W-MH-1	10.0'



TYPE "C" CATCH BASIN

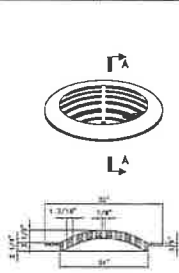


DOUBLE INLET DETAIL
FOR ST-1, 2, 43 AND 44

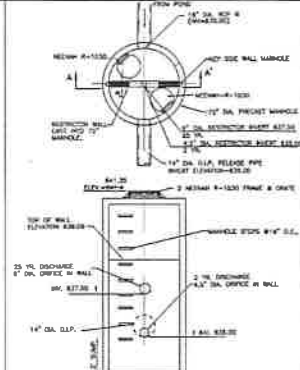
IN ADDITION TO THE REQUIREMENTS OF ART. 812.13 OF THE STANDARD SPECIFICATION, THE CONTRACT UNIT PRICE FOR INLET, TYPE "A" SHALL INCLUDE THE SAND CUSHION, WHEN REQUIRED, AND FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL.

INLET TYPICAL SHALL BE PRECAST REINFORCED SECTION, 3" IN THICKNESS.

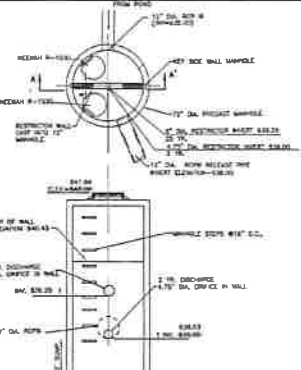
INLET, TYPE "A"



TYPE B FRAME
EAST JORDAN IRON WORK
TYPE 6517 GRATE



SECTION A-A'
CONTROL RELEASE STRUCTURE
BASIN No. 1

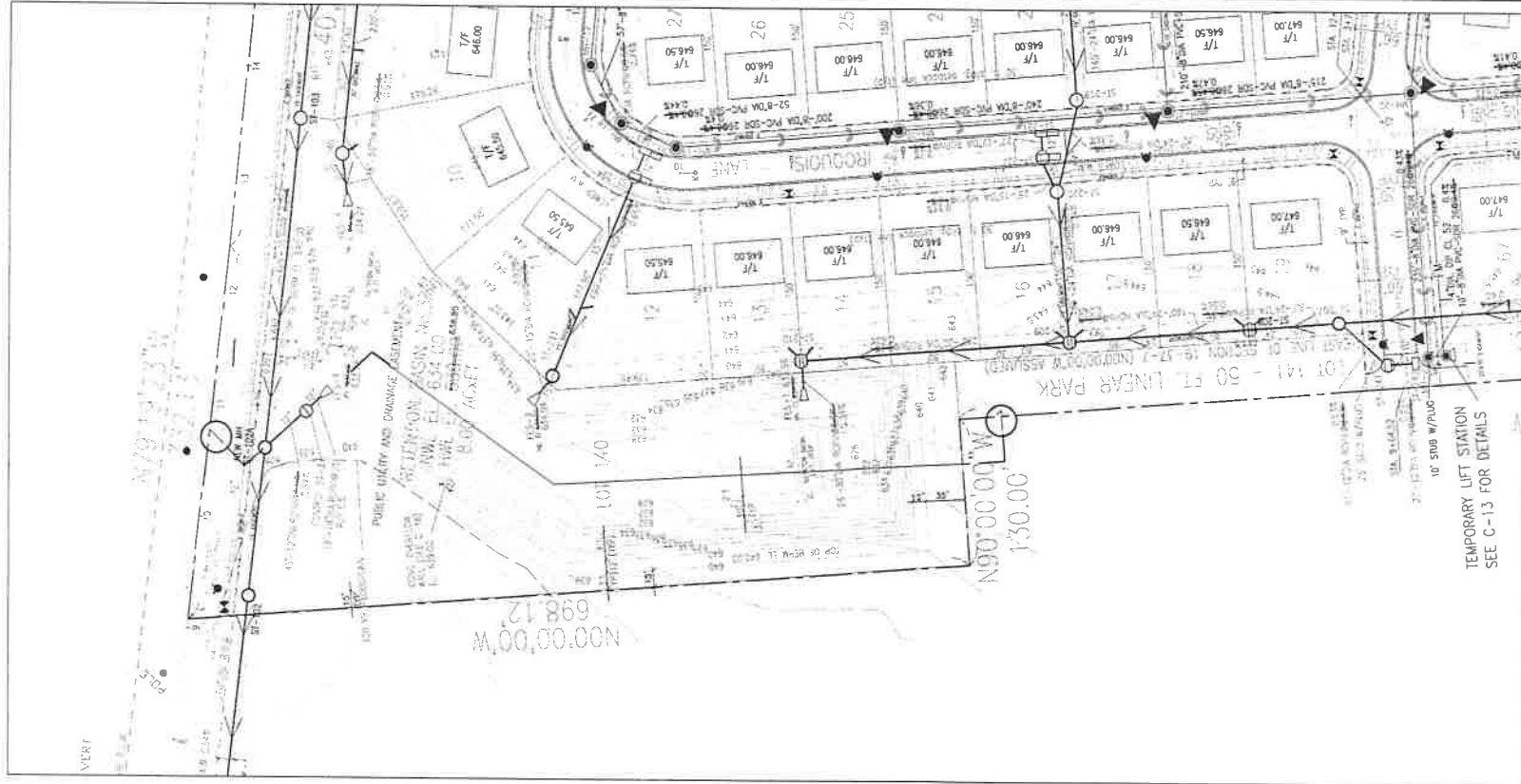


SECTION A-A'
CONTROL RELEASE STRUCTURE
BASIN No. 2

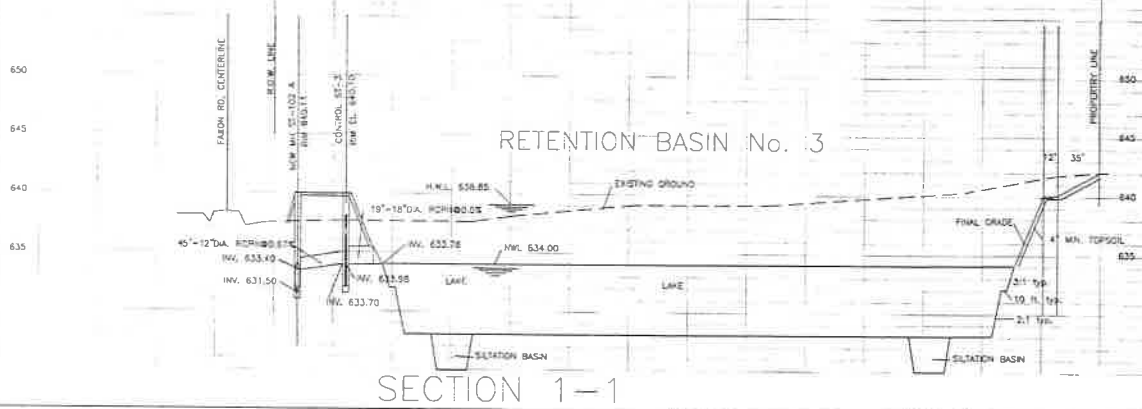
[illegible]

J. BOADA ASSOCIATES
PROJECT DEVELOPMENT AND MANAGEMENT
1262 BIRCHDALE LANE, AUBURN HILLS, MI 48304
Phone: (313) 687-6747 Fax: (313) 687-6748

KYLYN'S RIDGE DETAILS



SCALE: 1" = 50'



RETENTION BASIN No. 13

SECTION 1-1

DATE	REVISION	DATE	REVISION
8/20/10	AS PER CITY REQUIREMENTS		
10/10/10	AS-BUILT		
DRAWN BY			

J. BOADA ASSOCIATES
PROJECT DEVELOPMENT AND MANAGEMENT
1302 BROOKDALE LAKE AURORA, ILLINOIS 60014
PHONE 630-462-1947 FAX 630-462-5746

KYLYN'S RIDGE UNIT 2
YORKVILLE, ILLINOIS
RETENTION BASIN No. 3

0-11-10
JTB



Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
(630) 466-6700
www.eeiweb.com

United City of Yorkville
800 Game Farm Road
Yorkville, IL 60560

DATE:	NOVEMBER 2018
PROJECT NO.:	Y01805
BY:	MUT
PATH:	H:\GIS\PUBLIC\YORKVILLE\2018\Y01800
FILE:	Y01806_STORM INVENTORY MANAGEMENT.MXD

UNITED CITY OF YORKVILLE
KENDALL COUNTY, ILLINOIS

**STORMWATER MANAGEMENT
BASINS
2019 INSPECTION**





Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #5

Tracking Number

PW 2018-101

Agenda Item Summary Memo

Title: Cannonball Trail Safety Analysis

Meeting and Date: Public Works Committee – December 18, 2018

Synopsis: Informational

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: _____

Council Action Requested: None

Submitted by: Brad Sanderson Engineering
Name Department

Agenda Item Notes:

Have a question or comment about this agenda item?

Call us Monday-Friday, 8:00am to 4:30pm at 630-553-4350, email us at agendas@yorkville.il.us, post at www.facebook.com/CityofYorkville, tweet us at @CityofYorkville, and/or contact any of your elected officials at http://www.yorkville.il.us/gov_officials.php



To: Eric Dhuse

From: Colleen Jaltuch, P.E., LEED AP BD&C

Date: December 11, 2018

Re: Cannonball Trail Safety Analysis

EEI Job #: YO1857-C

EEI has analyzed the safety of the curve along Cannonball Trail, located about ¼ mile west of IL 47. The curve itself has a radius of 350 feet and is along a two-lane rural section of Cannonball Trail. This curve is shown on the attached exhibit.

Over the past five years, there have been seven reported crashes to the City along the curve and at the intersection of Cannonball Trail and Alice Avenue. Of these, one involved an injury and six involved property-damage only. The injury crash occurred on Alice Avenue. Of the six property damage crashes, four of these were due to roadway departure. One of these four roadway departures were due to wet pavement and one was due to icy pavement. Anecdotally, there probably have been more undocumented roadway departure issues.

There are several improvements that can be made to improve the safety of the roadway at the curve and mitigate crashes. I have listed them in order of least cost to greatest cost options.

1. Addition of Shoulder Rumble Strips

Shoulder rumble strips are a relatively low-cost option for prevention of single vehicle, run-off-road fatal and injury crashes. Per NCHRP Report 641, Guidance for the Design and Application of Shoulder and Centerline Rumble Strips, shoulder rumble strips result in a 13% - 51% reduction in these types of crashes.



Westbound along Cannonball Trail at 350'-radius curve approximately ¼ mile west of IL 47.



Shoulder rumble strips can be milled into or be raised elements on the existing paved shoulder. Rumble strips alert drivers through vibration and sound that they have left the travel lane. While this would not help drivers in icy roadway conditions, shoulder rumble strips are effective on dry and on wet pavement.

2. Roadside Safety Improvements

Many crashes at curves result from departure from roadway. Therefore, it makes sense to look at roadside safety also. According to the Fatality Analysis Reporting System (FARS), 27% of all fatal crashes occur at curves and 80% of all fatal crashes at curves are roadway departure crashes.

Increasing the clear zone (the unobstructed, traversable area beyond the edge of the travel lane for the recovery of errant vehicles) is one option. However, along the inside of the curve, this would involve relocation of Com Ed power poles and lines, among other roadside obstructions. Along the outside of the curve, there is a roadside ditch as well as power poles and trees and other obstructions.

Widening the paved shoulder to help give the driver more area to regain control of their vehicle and flattening the side slope also are roadside safety improvements to increase the clear zone that could be considered. Widening the shoulders or flattening the ditch foreslopes would increase the clear zone area.



Power poles, signs, trees, and other roadside obstructions.

Another roadside safety option is the addition of guardrail on the outside of the curve. The guardrail would stop the errant vehicle from leaving the roadway. However, there are two entrances on the center of the outside of the curve that would make the addition of effective guardrail difficult. The areas where the guardrail would have to gap to accommodate the entrances would be unprotected.



3. Addition of High Friction Surface Treatment (HFST) and Enhanced Delineation

High friction surface treatment (HFST) and enhanced delineation are proven methods for improving safety at horizontal curves. According to the Crash Mitigation Factor (CMF) Clearinghouse, chevron signs provide a 25% reduction in nighttime crashes and a 16% reduction in non-intersection fatal and injury cases and HFST provide a 52% reduction in wet road crashes and a 24% reduction in curve crashes.

High friction surface treatment is an engineered high-friction aggregate placed over a thermosetting polymer resin binder. This treatment increases the ability of a road surface to provide pavement friction to vehicles in critical braking or cornering maneuvers. This is especially useful at horizontal curves that are sharp, have deficient superelevation, and/or where driving speeds exceed the curve advisory speed.

There are four chevron signs on the outside of the curve. Additional chevrons can be added in advance of the curve to further delineate the curve. This would be especially beneficial for night-time drivers.

4. Resurface and Adjust Cross-Slope (Superelevation) for a Higher Design Speed

The posted speed limit on Cannonball Trail is 45 mph. Ahead of the curve, however, there is an advisory speed limit posting of 25 mph. If the pavement were milled and resurfaced and the cross slope adjusted so the superelevation rate is for a higher design speed, this would increase the pavement friction and result in a reduction in vehicle departure crashes. The resurfacing can be a higher friction hot-mix asphalt or a HFST as discussed in option 3. But, this pavement was last resurfaced in 2014 and the superelevation was, at the time, designed for a 45-mph design speed (Radius 350', Superelevation 3.6%).

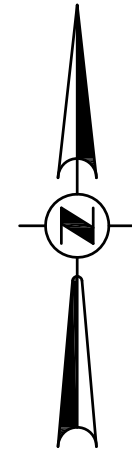
5. Realign Road to Correct Curve

The most-costly (and least practical and feasible) option is to realign the roadway between IL 47 and Alice Avenue to increase the radius of the curve. As there are several residences on the inside of the curve that would require complete relocations, this option was not explored further.

Based on this limited analysis, EEI recommends widening the paved shoulders to 3' hot-mix asphalt through the curve as well as adding shoulder rumble strips. We also recommend adding additional chevrons to further delineate the curve. If the City like to follow this recommendation or choose another option(s) to pursue, then we can further evaluate and provide a detailed cost estimate.

Please let me know if you have any questions or need further information.

CANNONBALL TRAIL ROW AND JURISDICTION EXHIBIT



= UNITED CITY OF YORKVILLE JURISDICTION

NOTE:
RIGHT OF WAY IS APPROXIMATE AND BASED ON GIS INFORMATION. ADDITIONAL RESEARCH AND FIELD WORK WILL BE NECESSARY TO VERIFY IF THERE IS ANY DEDICATED RIGHT OF WAY. PRESCRIPTIVE RIGHT OF WAY LIKELY EXISTING IN THE UNINCORPORATED AREAS.



Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

PROJECT NO: Y01857
FILE NO: Y01857—EXHIBIT



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #6

Tracking Number

PW 2018-102

Agenda Item Summary Memo

Title: East Alley and Van Emmon

Meeting and Date: Public Works Committee – December 18, 2018

Synopsis: A verbal update will be given at the meeting.

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: _____

Council Action Requested: _____

Submitted by: Bart Olson Administration
Name Department

Agenda Item Notes:
