Robinson ENGINEERING

Municipal Expertise. Community Commitment.

Dana E. Ludwig, PE, CFM, CPESC
Direct Line: (815) 412-2702
Email: dludwig@reltd.com

June 1, 2017

Project No. 16-770.CHN

Illinois Environmental Protection Agency
Water Pollution Control
Compliance Assurance Section #19
P.O. Box 19276
Springfield, IL 62794-9276

RE: Village of Channahon
NPDES Permit MS4 Annual Report
Reporting Cycle 2016-2017
Permit No. ILR40 - 0623

Dear Sir/Madam:

Enclosed please find the following items in regard to the NPDES Permit for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4) for the Village of Channahon:

- MS4 Annual Facility Inspection Report for 2016-2017
- TMDL Status (Based on 2016 IEPA Assessment)
- Various Attachments supporting Minimum Control Measures

This documentation has also been emailed to epa.ms4annualinsp@illinois.gov. If you have any questions, please call me at (815) 412-2702.

Very truly yours,

ROBINSON ENGINEERING, LTD.

Dana E. Ludwig

Dana E. Ludwig, PE, CFM, CPESC
Senior Project Manager

Encl.

xc: Don Kinzler, Engineering Project Manager – Village of Channahon
Jay Patel – IEPA-Des Plaines office

Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
ANNUAL FACILITY INSPECTION REPORT
for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2016 To March, 2017

Permit No. ILR40 0623

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: Village of Channahon Mailing Address 1: 24555 S. Navajo Dr.

Mailing Address 2: County: Will

City: Channahon State: IL Zip: 60410 Telephone: 815-467-6644

Contact Person: Donald Kinzler, PE, CFM Email Address: dkinzler@channahon.org
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

Will County

Grundy County

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

1. Public Education and Outreach ☐
2. Public Participation/Involvement ☐
3. Illicit Discharge Detection & Elimination ☐
4. Construction Site Runoff Control ☐
5. Post-Construction Runoff Control ☐
6. Pollution Prevention/Good Housekeeping ☐

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature: Date: 05-30-17

Donald R. Kinzler, PE, CFM
Printed Name:

Engineering Project Manager
Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

Village of Channahon – TMDL Status

According to the 2016 Assessment by the IEPA, none of the assessed waterways within the Village of Channahon have an approved TMDL. The following is a summary of information obtained from the Resource Management Mapping Service (www.rmms.illinois.edu/RMMS-JSAPI/):

Assessed Stream/Watershed	**DuPage River**	**Des Plaines River**	**Waupecan Creek – Illinois River**	**Aux Sable Creek**
Location	Within and Downstream of Corporate Limits	Within and Downstream of Corporate Limits	Within and Downstream of Corporate Limits	Within and Downstream of Corporate Limits
HUC 10	0712000408	0712000409	0712000507	0712000501
AUID	Various	Various	Various	Various
2016 303(d) List/ Prioritization (Appendix A-1)	Medium	Medium	Medium	Medium
Designated Use (Appendix A-1)	Aquatic Life, Fish Consumption	Fish Consumption, Primary Contact Recreation	Fish Consumption	Primary Contact Recreation
Cause of Impairment (Appendix A-1) For entire watershed, may or may not be direct contribution from Channahon MS4	Arsenic, Mercury, Methoxychlor, Phosphorus (Total), Polychlorinated biphenyls, Sedimentation/ Siltation	Fecal Coliform, Mercury, Polychlorinated biphenyls	Mercury, Polychlorinated biphenyls	Fecal Coliform
Two Year Schedule for TMDL Development, 2016-2018 (Appendix A-3)	Not listed.	Not listed.	Not listed.	Not listed.
Status (Appendix A-6)	Not listed, for this portion of watershed.	Not listed.	Not listed.	Not listed.
Illinois EPA Projects in TMDL Watersheds (Appendix A-7)	Not listed, for this portion of watershed.	Not listed.	Not listed.	Not listed.
Category 4C – Not caused by pollutants (Appendix A-8)	Not listed.	Not listed.	Not listed.	Not listed.
TMDL Report on Website.	N/A	N/A	N/A	N/A

What Is a TMDL?

The establishment of a Total Maximum Daily Load sets the pollutant reduction goal necessary to improve impaired waters. It determines the load, or quantity, of any given pollutant that can be allowed in a particular water body. A TMDL must consider all potential sources of pollutants, whether point or nonpoint. It also takes into account a margin of safety, which reflects scientific uncertainty, as well as the effects of seasonal
variation.

Why Develop TMDLs?

Section 303(d) of the federal Clean Water Act requires states to identify waters that do not meet applicable water quality standards or do not fully support their designated uses. States are required to submit a prioritized list of impaired waters, known as the 303(d) List, to the U.S. Environmental Protection Agency for review and approval. The CWA also requires that a TMDL be developed for each pollutant of an impaired water body. Illinois EPA is responsible for carrying out the mandates of the Clean Water Act for the state of Illinois.

The TMDL Process

Developing TMDLs in a watershed begins with the collection of vast amounts of data on factors including water quality, point source discharge, precipitation, soils, geology, topography, and land use (construction, agriculture, mining, etc.) within that specific watershed. All impaired water-body segments within the watershed are identified, along with the potential pollutants causing the impairments.

Next, Illinois EPA determines the tools necessary to develop the TMDL. In most cases, computer models are used to calculate pollutant loads. The appropriate model or models are selected based on the pollutants of concern, the amount of data available, and the type of water body. Once the model is selected, the data collected for the watershed are entered, and the model is calibrated and verified so that the computed values match those of known field data. The model can then be used to develop different scenarios, by first determining the amount of specific pollutants each source contributes, then calculating the amount each pollutant needs to be reduced, and finally specifying how the reduced pollutant load would be allocated among the different sources.

After the reduced pollutant loads have been determined, an implementation plan is developed for the watershed spelling out the actions necessary to achieve the goals. The plan specifies limits for point source discharges and recommends best management practices (BMPs) for non-point sources. It also estimates associated costs and lays out a schedule for implementation. Commitment to the implementation plan by the citizens who live and work in the watershed is essential to success in reducing the pollutant loads and improving water quality.

Improved Water Quality

The goal of TMDLs is better water quality for Illinois. Improving lakes, rivers, and streams has a positive impact on the quality and quantity of the fish and animals that depend on these waters for habitat, food, breeding, and survival. This in turn contributes to balanced, healthy ecosystems.

Beyond the ecological benefits, cleaner water increases opportunities for fishing, boating, and other recreational activities and improves the overall appearance of lakes, rivers, and streams. A cleaner source of drinking water can mean lower treatment costs, which may reduce water expenses for local citizens and businesses. Protecting and restoring the quality of Illinois waters is ultimately the responsibility of everyone. The success of a TMDL implementation plan typically depends on the cooperation of those who live and work in the watershed. Citizens can take ownership of their local water bodies by adopting suggested BMPs and encouraging others to do the same. By integrating sound science with public support, TMDLs can be a valuable tool for improving and protecting our precious water resources.

For more information about Illinois' TMDL program, visit: www.epa.state.il.us/water/tmdl

The Herald-News / TheHerald-News.com • Sunday, January 29, 2017

Channahon talks about Crossroads 55 growth

By JEANNE MILLSAP
Shaw Media correspondent

CHANNAHON – The Channahon Village Board met with staff at a special meeting Wednesday to learn more about the proposed industrial development Crossroads 55, which would be constructed east of Interstate 55, splitting four buildings north and south across Amoco Road.

Venture One Real Estate is proposing constructing four warehouse and distribution centers on 300 acres of land in two phases. The first phase would consist of two buildings at 1 million square feet each. Developers want to break ground in April.

That early start is doubtful, though, according to Channahon Village Administrator Thomas Durkin, who said there is engineering to manage, several taxing bodies to approach with an intergovernmental agreement, public hearings to hold, a water main to extend and the Illinois Department of Transportation to deal with regarding work on the frontage road.

Although there have been no formal agreements by the developer or the village yet, Durkin said plans are to have the considerable village infrastructure needs performed by Venture One, which will be reimbursed from future property taxes generated by the development.

The various taxing bodies, such as the schools, library, park district and fire district, must agree to such property tax abatements first.

Infrastructure necessary for the development to proceed includes extending the village's water main from Thornton's Inc. on Route 6, under the interstate and to the southern end of the Venture One property. Also included would be attending to the frontage road, which is currently in poor shape, especially for the traffic that would come from a modern industrial park, according to a report given to the village by Kane, McKenna and Associates.

No sanitary sewer main or storm sewer main exists on the property, either, according to the report,

See DEVELOPMENT, page 15

Channahon last stop for Smithsonian exhibit

By KRIS STADALSKY
Shaw Media correspondent

CHANNAHON – The Four Rivers Environmental Education Center is the sixth and final stop for a Smithsonian Institution display on water and how it affects our environment. It's part of Museum on Mainstreet, a collaboration between the Smithsonian and Illinois Humanities.

The display – Water/Ways – officially opened Saturday with a ribbon cutting, speeches and refreshments. It will remain at the center through March 11.

"The forest preserve district is the last chance Illinoisans will have to see this fantastic exhibit in our state," said Ralph Schultz, COO of the Forest Preserve District of Will County.

Tina Riley, facility supervisor for the forest preserve district , began working on the grant to bring the display to Channahon in June 2015, just because of the sheer number and miles of waterways that come through our communities, she said.

"It's very thought-provoking, the way water impacts our lives," Riley said. "It plays a part in all our lives. We

See EXHIBIT, page 7

Kris Stadalsky for Shaw Media

Mike Fricilone, commissioner and operations committee chair; Suzanne Hart, president; Annette Parker, vice president; and Don Gould, commissioner, of the Forest Preserve District of Will County officially open the Smithsonian exhibit at the Four Rivers Environmental Education Center.

The Herald-News / TheHerald-News.com • Monday, January 30, 2017

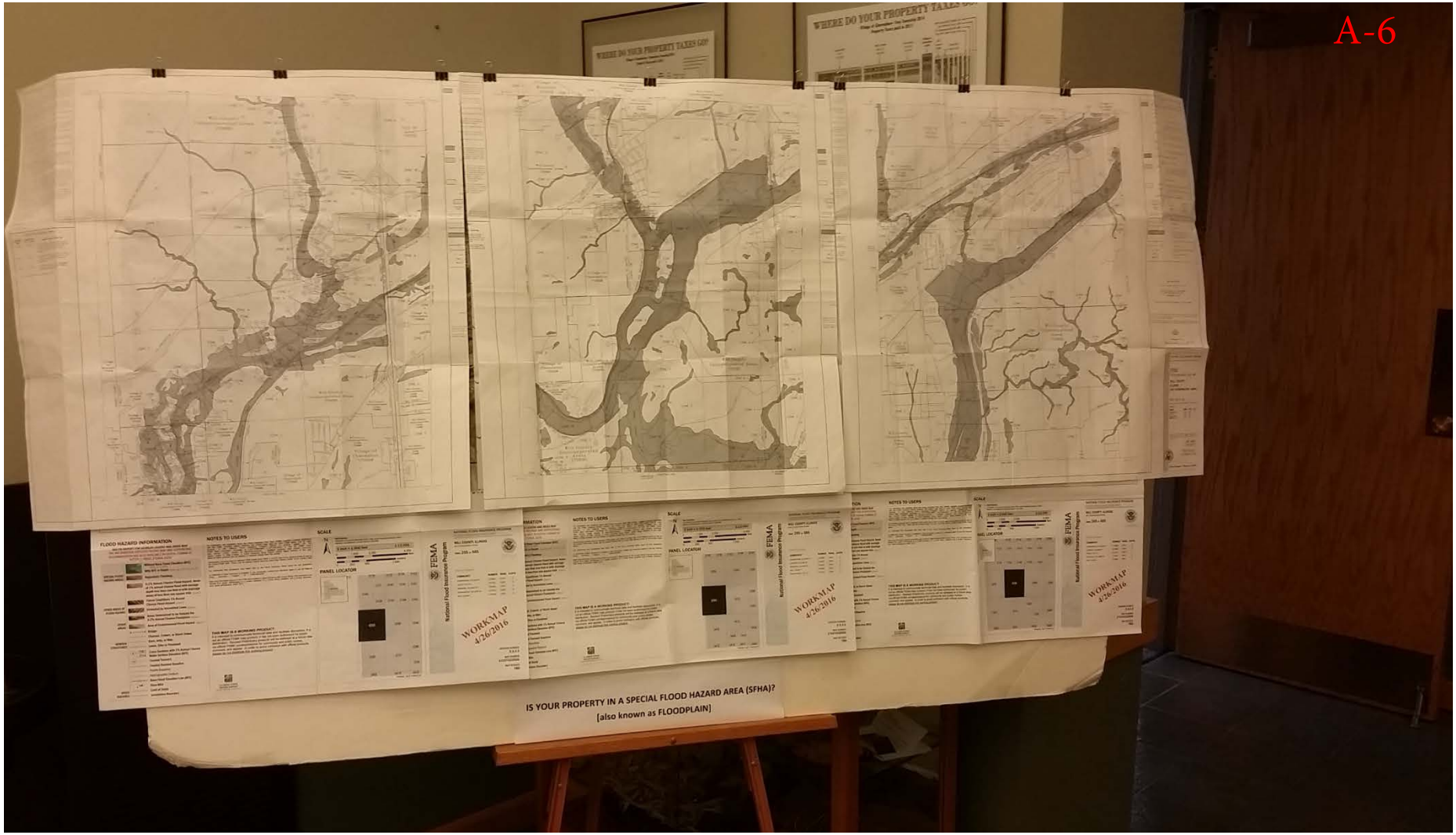
Website/Facebook Hits- March 1, 2016- February 28, 2017

Village Posts	Date	Website Hits	FB Hits
Christmas Tree Pickup	2-Jan-17	420	1,673
Garbage Pickup	22-Dec-16	987	2,210
Final Saturday for Leaf Pickup	15-Nov-16	524	1,103
Leaf Burning	14-Nov-16	493	1,322
Waste Management Holiday Schedule	14-Nov-16	778	2,316
Electronic Recycling Event	6-Oct-16	1000	2,749
DuPage River Community Survey	15-Aug-16	254	603
Storm Damage Cleanup	23-Jun-16	693	2,046
2016 Water Quality Reports	16-Jun-16	373	512
Electronic Recycling Event Troy	18-Apr-16	974	1,193

Village Website Pages	Website Hits
Garbage & Recycling Page	4,080
Public Works Department	2,146
Village Services- Water	2,226
Waste Management Holiday Schedule	1,973
Village Services	1,399
Tree Board	1,050
Tree Replacement Program	700
Memorial Tree Walk	664
Approved Parkway Tree Planting Guide	520
Planting of Parkway Tree Permits	345

A-6


Rainmaker
Parking Lot
Retention Pond
IAFSM'S Water Table
January 30 - March 10
M-F 9am - 4pm
For a demonstration, please ask the front counter.
PLEASE DO NOT TOUCH THE DISPLAY


WHERE DO YOUR PROPERTY TAXES GO?
FLOOD HAZARD INFORMATION
NOTES TO USERS
SCALE
PANEL LOCATION
FEMA
National Flood Insurance Program
WORKMAP
4/26/2016
IS YOUR PROPERTY IN A SPECIAL FLOOD HAZARD AREA (SFHA)?
[also known as FLOODPLAIN]

Free!

WATER|WAYS

PROGRAMS & ACTIVITIES

Water|Ways Exhibit

Four Rivers Environmental Education Center, Channahon

January 28 - March 11, 2017

January 28 - March 11
IAFSM'S WATER TABLE
Channahon Village Hall Lobby, Hourly M-F starting at 9 am; last one at 4 pm.
The water table offers a real opportunity to educate about the dangers and impact of unplanned development and human activity in the floodplain. Through the use of this model, kids and adults can explore the value of wetlands and retention ponds in flood management. They can construct their own levees and witness how stream flow is affected and can impact downstream communities during times of runoff. They can also simulate ice damming and other seasonal risks in the floodplain, plus much more!

January 28 - March 11
STUDENT WATER-THEMED ART EXHIBIT
Channahon Village Hall Lobby, M-F 8:30 am-4:30 pm
Featuring a Water-Themed Art Exhibit by 3rd & 4th graders from Pioneer Path and 1st & 2nd graders from NB Galloway Elementary School. Students studied representations of water in art throughout history, discussed the importance of water in our lives and analyzed "live" water as an art form to create individual works of art using a variety of media.

January 28-March 11
WATER|WAYS EXHIBIT
Four Rivers Environmental Education Center, Channahon
"Water|Ways" is a traveling exhibit from the Smithsonian Institution that examines the significance of water in the human experience. The free exhibit will be at Four Rivers Environmental Education Center for six weeks. Additional exhibits will be on display during open hours Tuesday-Sunday. A wide variety of public programs are scheduled. Visit ReconnectWithNature.org for more information.

February 1- February 28
LOOKING BACK AT LIFE ALONG CHANNAHON'S WATERWAYS
Three Rivers Public Library District, Channahon Branch, M-Th 9 am-9 pm, Sat. 10 am-5 pm, Sun. 1 pm-5 pm
The display will consist of photos and memorabilia from the history of the Village of Channahon and the surrounding area. Channahon means "Where the Waters Meet" and so much of it's history is dependent on our Waterways!

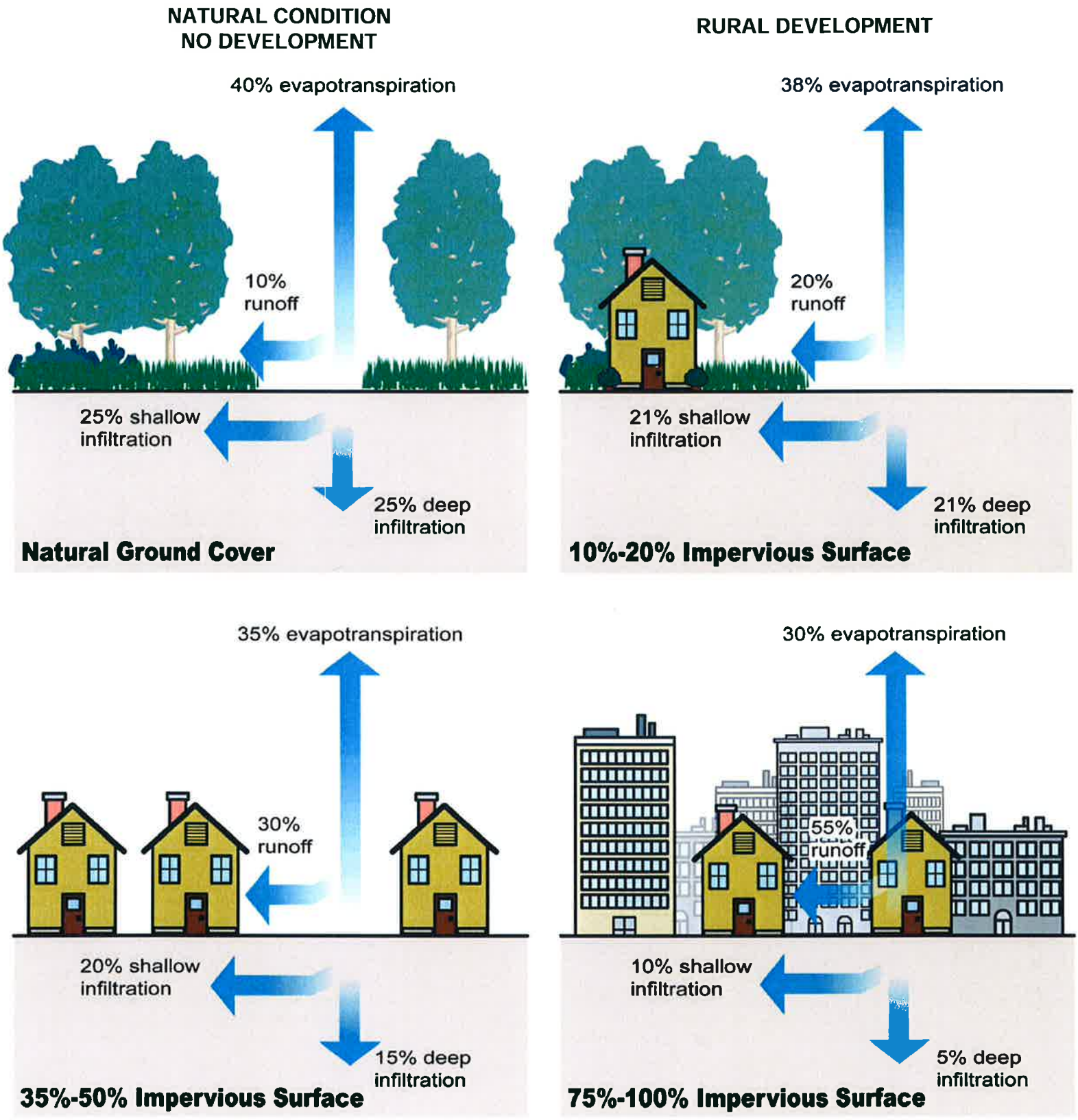
February 13 - March 11
KANKAKEE SOURCEWATER PROTECTION DISPLAY
Channahon Village Hall Lobby, M-F 8:30 am-4:30 pm
The Aqua Illinois Sourcewater protection display includes: a history of the numerous attempt to address the issue of sand accumulation, another display of the sourcewater protection and educations efforts, River Watch program and macroinvertebrates will be on display, several free standing displays list stats and facts about the Kankakee river and what makes it special, along with several watershed maps.

Wednesday, February 15
CONSERVATION @ HOME: BACKYARD PRACTICE FOR WATER AND WILDLIFE
Three Rivers Public Library District, Minooka Branch, 6-7 pm
Learn how to protect and/or create a yard that is environmentally friendly and conserves water. The Conservation Foundation will be here to talk about native plants that you can plant in your gardens to help the butterflies and other pollinators, a significantly declining species, as well as other wildlife. Other topics of conservation such as using rain barrels and planting rain gardens will be covered; topics that help homeowners reduce water bills and save water. Registration required.

Channahon Illinois "Where the Waters Meet" · Smithsonian Institution · Illinois Humanities · Forest Preserve District of Will County, Bringing People and Nature Together · Three Rivers Public Library District

Water/Ways is part of Museum on Main Street, a collaboration between the Smithsonian Institution and Illinois Humanities, and was adapted from an exhibition organized by the American Museum of Natural History, New York.

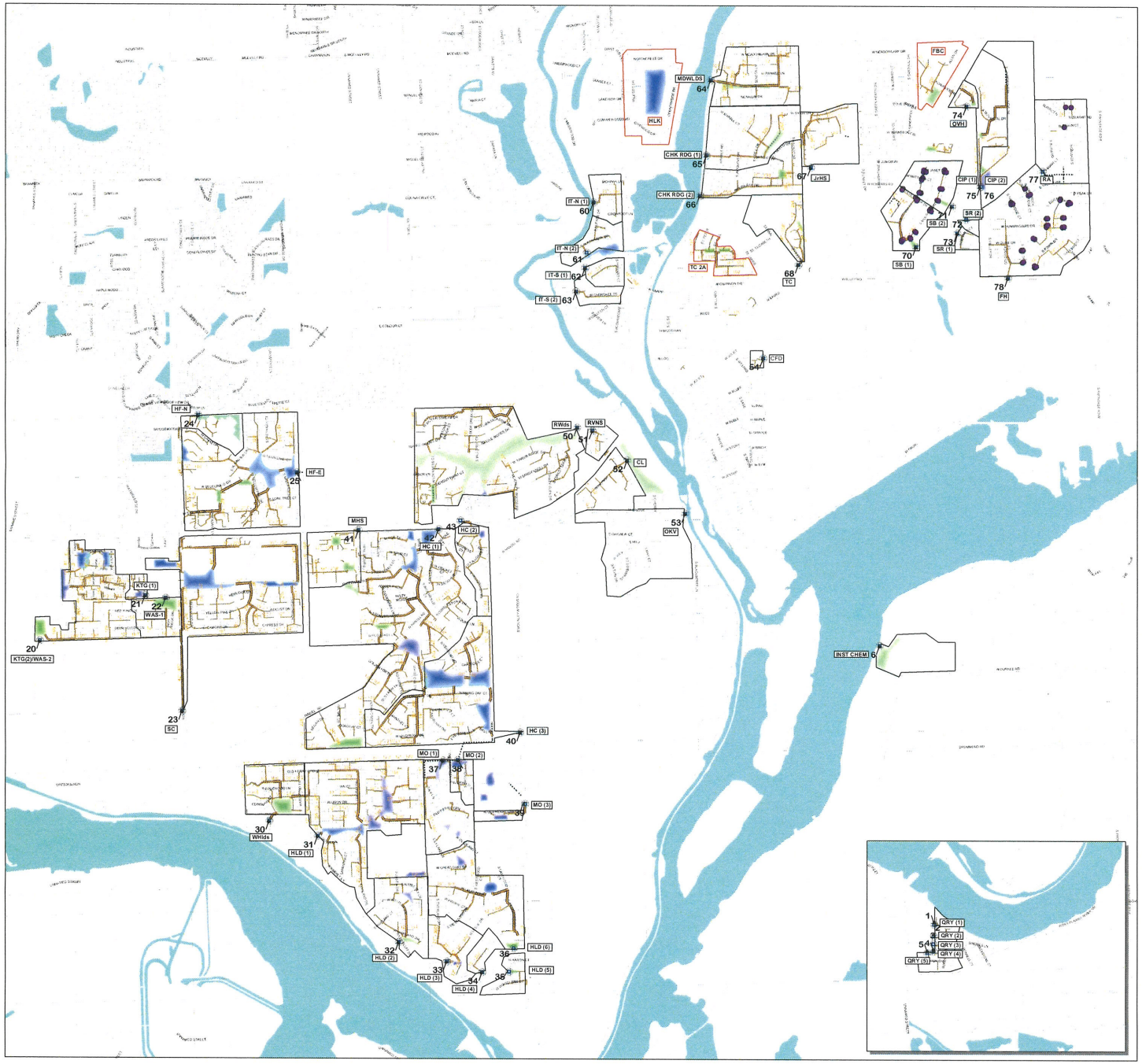
SURAFCE IMPACT ON RAINWATER



RESIDENTIAL SUBDIVISION DEVELOPMENT

URBANIZED DEVELOPMENT


B-6


HF-N
24
HF-E
25
RWds
50
RVNS
51
CL
52
53
OKV
MHS
41
42
HC (1)
43
HC (2)
40
HC (3)
KTG (1)
21
22
WAS-1
20
KTG(2)WAS-2
23
SC
MO (1)
37
MO (2)
38
MO (3)
39
30
WHds
31
HLD (1)
32
HLD (2)
33
HLD (3)
34
HLD (4)
35
HLD (5)
36
HLD (6)
INST CHEM
6
HLK
MDWLDS
64
CHK RDG (1)
65
CHK RDG (2)
66
67
JrHS
TC 2A
68
TC
IT-N (1)
60
IT-N (2)
61
IT-S (1)
62
IT-S (2)
63
CFD
54
FBC
74
QWH
CIP (1)
75
CIP (2)
76
77
RA
SR (2)
72
SB (2)
71
SR (1)
73
SB (1)
70
78
FH
RVS (1)
80
RVS (2)
81
82
RVS (3)
RMWds (1)
83
RMWds (2)
84
RMWds (3)
85
LH (1)
92
LH (2)
91
LH (3)
90
10
UC
11
NBlk
1
QRY (1)
2
QRY (2)
3
QRY (3)
4
QRY (4)
5
QRY (5)
Village of Channahon
Outfall Location Map
Legend
Final Outfalls
(60 TOTAL)
1:12,000
MAY 2016
SHOREWOOD
JOLIET
MINOOKA
CHANNAHON
ELWOOD
MORRIS
1:100,000

C-1

C-2

STATE OF ILLINOIS } COMPLAINANT VILLAGE OF CHANNAHON A Municipal Corporation.
COUNTY OF WILL }

☐ POLICE DEPT. ☐ ZONING ENFORCEMENT
☑ BUILDING DEPT. ☐ OTHER

TO THE DEFENDANT HEREINAFTER NAMED:
You are hereby notified that the Village of Channahon has issued you this notice of ordinance violation. If you fail to pay the required fee this notice will be converted to an Ordinance Violation.

COMPLAINT

The Complainant named above by its Authorized Officer, on oath states that:

MONTH	DATE	YEAR	D O B
2	22	17	/ /

STEVE MARTIN — NAME
2202 CANYON LA — ADDRESS
AURORA — CITY, IL — STATE, 60134 — ZIP

defendant herein, did violate Section 93.10 S of the local ordinance

on
AT 10:00 HOUR AM PM
Dr. Lic. #

at 26015 S INDIAN CREEK (LOCATION OF OFFENSE) in said Municipality

by (describe act) DUMPING OF CONCRETE ON ROAD CREATING HAZARD

MAKE/YEAR	LICENSE NUMBER	STATE	MONTH/YEAR	MUNICIPALITY AND YEAR

and further states that he has probable cause to believe the defendant is in violation of said ordinance,

for the above named Municipality by: OFFICER [signature] its Agent

on this 22 day of February ☐ ACTION REQUIRED.

Penalty for this violation, on or BEFORE Due Date $ 50.00

Penalty for this violation, After due date $ 100.00

ACT 7078

DUE DATE WAS		
MONTH	DATE	YEAR
3	13	17

YOUR FINAL NOTICE DATE WAS		
MONTH	DATE	YEAR
3	22	17

THIS IS AN ADMINISTRATIVE COMPLIANCE TICKET
If The Penalty is Paid Promptly

1. You Will Not Have To Appear In Court.
2. No Points Will Be Charged Against Your License.
3. The Fee Is Less Than A Normal Citation.
4. You Will Not Have To Pay Normal Court Costs.

If not paid within 30 days an ordinance complaint will be issued subjecting you to trial in circuit court including payment of a fine and court costs.

DEPARTMENT COPY

2/22/17 26015 S Indian Creek

Don Kinzler

From: Don Kinzler
Sent: Tuesday, May 17, 2016 1:54 PM
To: Missey Schumacher; 'Thomas Durkin'; 'Ed Dolezal'
Cc: Mike Petrick; Shane Casey; Leti Anselme; Bruce Vaickus (bvaickus@channahon.org); Elizabeth Murphy
Subject: Rt 6 @ NW Frontage Road Diesel Fuel Spill, 05-16-16
Attachments: Fuel Spill Exhibit_05-17-16.pdf; Rt 6 @ NW Ftg Rd Diesel Spill Notes, DRK_ 05-17-16.docx

To All,

Attached are my notes regarding last night's fuel spill on Rt 6 near the new NW Frontage Road. Please call or respond with any questions.

Regards,

Donald R. Kinzler,P.E.,CFM
Engineering Project Manager
Village of Channahon
24555 Navajo Dr.
Channahon, IL 60410
Ph:(815) 467-6644
Fx:(815) 467-8398

05-16-16 DIESEL FUEL SPILL ON RT 6 @ NEW NW FRONTAGE ROAD, DRK NOTES

05-17-16, ~ 7:05 am, Per D.C. Shane Casey (by phone)

- Diesel spill on Rt 6 just W of new Frontage Rd occurred previous evening of 05-16-16
- Incident on WB lane W of new Frontage Rd, adjacent to Lift Station
  - North side of Rt 6
- Semi-truck vs. motorcycle
- Semi fuel tank was ruptured with hole; semi had just fueled up at Pilot
- CFD had plugged hole with wood
- Dick's Towing was putting down large amount of oil dry to soak up fuel
- Blue tarps had been placed under storm sewer grates to prevent infiltration, but some fuel had already entered
- IDOT had a person onsite who was telling remediation where to spread additional oil dry (i.e. directing remediation efforts)
- Shane will document what he knows via internal memo and provide at a later date

05-17-16, ~ 7:15 am, Per Bruce Vaickus (by phone)

- Bruce had already been onsite for initial inspection
- Only residual oil dry left in gutter
- Road and gutter stained
- Two N side structures nearest incident had absorbent logs in them
  - No standing water or fuel observed in either structure
  - Logs were not discolored
- Saw oil sheen in standing water at S side FES W of incident, not sure of the overall storm sewer layout, so not sure if it is from the accident
- Will pick me up for more detailed inspection

05-17-16, ~ 7:30 am, called CFD to see if absorbent logs were theirs

- Will have someone call me back to discuss

05-17-16, ~ 7:40 am, Per FD Chief Petrakis (by phone)

- It was a "remediation company sent by the trucking company" who were placing oil dry
- Not sure about the absorbent logs, but likely the same person

05-17-16, ~ 7:50 – 8:45, Onsite inspection: Don Kinzler, Bruce Vaickus, Curtis Kratochvil

- Inspected structures near to incident (N side),
  - 1st structure took majority of fuel that preceded or escaped remediation efforts
  - 2nd structure did not appear to have received much fuel, if any
- Continued inspection of storm sewer downstream of each structure

- 1st structure sewer flows S under Rt 6 and ties into storm sewer main which flows W and eventually outfalls from FES into ditch on S side of Rt 6
  - Could smell diesel in tributary MHs
  - Found oil sheen on standing water at FES outfall to ditch
  - No indication of diesel fuel at connected FES on N side Rt 6
- 2nd structure sewer flows W on N side of Rt 6
  - Did not smell or find any indication of diesel in this segment

05-17-16, ~ 12:30 pm, Per D.C. Shane Casey (by phone)

- IDOT person was James Hansbourgh, 815-722-6652
- Dick's Towing also removed tarps with oil dry
- U.S. Express Trucking called ERTS
  - AAA for fuel spills
  - They send out someone local which ended up being Hazchem

05-17-16, ~ 1:00 pm, Per Liz Costa (by phone)

- Hazchem (Addison, IL), 608-458-1910, Al Shapiro
  - Cleanup company
  - Said they vacuumed CBs and put in absorbent booms
  - Will check booms after one week
- IEPA, Mark Retzlaff, 224-361-6011

05-17-16, ~ 1:15 pm, Per Mark Retzlaff (by phone)

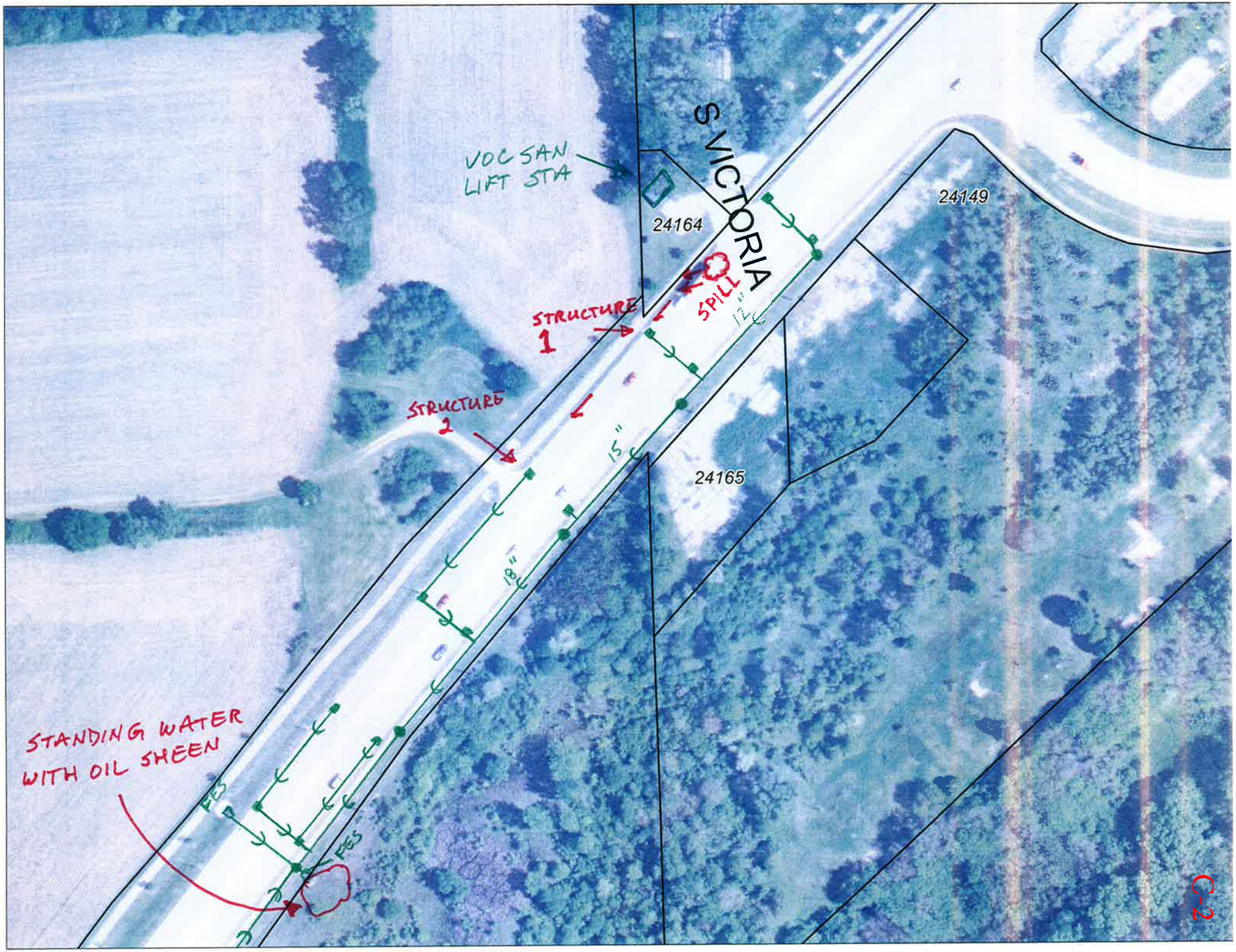
- I called Mark and told him what Bruce and I found
- Told Mark the VOC is not directing that additional work take place, just providing information
- Mark will call Hazchem to follow up
- I will be contact if Hazchem needs someone to show them locations

05-17-16, ~ 1:30 pm, Per Chris Ciolino, Hazchem (by phone)

- They are following up on call from Retzlaff
- Asked for info on what we had found
- Will call U.S. Trucking for authorization to return with vac truck to clean fuel from water near FES
- I made it clear the VOC was not directing this work, we simply informed the IEPA of what we found and provided a contact (Don) to help the IEPA, Hazchem, or anyone else, locate various storm sewer locations

05-17-16, ~ 1:45 pm, Per Chris Ciolino, Hazchem (by phone)

- Vac truck should be in Channahon by 3-3:30
- Driver will call me to show them the FES
- They will have additional absorbent booms to put in at FES


VOC SAN
LIFT STA
S VICTORIA
24164
24149
24165
STRUCTURE
1
SPILL
12"
STRUCTURE
1
15"
18"
STANDING WATER
WITH OIL SHEEN
FES
FES

VILLAGE OF
CHANNAHON
24555 S. NAVAJO DRIVE • CHANNAHON, ILLINOIS 60410-3334
(815) 467-6644 • FAX (815) 467-9774 • www.channahon.org

TO: **Jim Roberts, Chris Papesh**

FROM: **Mike Petrick, Director of Community Development & Information Systems**

CC: **Donald Kinzler**

DATE: **April 26, 2016**

SUBJECT: **Channahon Town Center U-3 Final Engineering Review 1**

The Village of Channahon has received the following:

- *Improvement Plans for Channahon Town Center Unit 3 and St. Elizabeth Residences* prepared by Geotech Inc. dated 03-12-16.
- *Stormwater Management Report* prepared by Geotech Inc. dated 03-16-16.

Please provide a written response to these comments (including VOC comments) and (3) three copies of full size site plans as well as all other materials submitted for review.

Based upon our review of the submitted materials, we offer the following comments:

SITE PLAN

1. General

1.1 Submit an Engineer's Opinion of Construction Cost for all site improvements.

1.2 Provide a photometric and lighting plan for review.

1.3 Provide construction plans and specifications for the decorative wall.

1.4 Provide building identification numbers.

1.5 Provide an Existing Conditions sheet extending a minimum of 100 ft beyond the boundaries of these improvements. In addition to other typical information, include,

- All existing utilities such electric, gas, telephone, underground cable, water, sewer, storm, etc. It is the owner and owner's engineer's responsibility to show all existing utilities and proposed relocations and adjustments.
- Details for St. Ann Church detention basin storm sewer.
- Show and label all existing lines including ROW and easement lines.
- Show stockpile and other existing improvements removal.

1.6 On all sheets except Existing Conditions: show building setbacks; label and provide dimensions for proposed ROW; show and label all existing (to remain) and proposed easements on all sheets.

1.7 Provide the NOI Form for review. Include IHPA and Endangered Species sign off letters.

1.8 Provide IEPA Permit Applications for review.

1.9 With your next submittal, provide a Landscape Plan with utilities shown.

2. Title Sheet (Sheet 1)

2.1 Remove reference to "PER CHANNAHON TOWN CENTER UNIT 2A…" from benchmarks as this site is not part of U-2A.

2.2 Benchmarks and engineering elevations must be tied into a known NAVD 88 bench mark "on the ground". Provide a statement that: *ALL BENCHMARK AND PLAN ELEVATIONS ARE ON NAVD 88 DATUM.*

2.3 Revise Special Provision 6 to require CA-7 rather than CA-6; remove reference to HDPE pipe.

2.4 Note 12, correct spelling for "warning."

2.5 Note 29, the "illinois urban manual" is being referenced for regulating E&SC, therefore it should have each word capitalized.

3. Geometric Plan (Sheet 2)

3.1 Label St. James Street; label all existing and proposed lot numbers along St. Elizabeth Drive, west of St. James Street.

3.2 Show and label both the existing and proposed lot lines and ROW lines, and extend 'future' St. James curb & gutter south, to review the new configuration of the intersection of St. James Street and St. Elizabeth Dr., which shall be as close to perpendicular as possible.

3.3 Without revising ROW boundaries, consider if St. James St. can be shifted west where it intersects St. Elizabeth to place the existing Valve Vault behind the curb.

3.4 It was agreed to continue St. Elizabeth streetlight spacing from U-2A with these improvements. Please make the following corrections:

- St. Elizabeth streetlights are mounted on 20 ft poles with 18" upper and lower bAnnr mounts. Provide Lumec lighting specifications.
- Provide Lumec lighting specifications for interior access drive lighting.
- The average spacing between the eight U-2A streetlights is 134 ft with 3 gaps over 140 ft. These plans propose 6 new streetlights at an average spacing of 154 ft and four ≥ 155 ft. Provide streetlight design with a minimum average spacing of 140 ft. Consider - starting from the existing streetlight west of the start of improvements, and space the lights approximately 110 ft (S), 100 ft (N), 110 ft (SE inside corner of curb), 155 ft (dual light in N side entrance median), 125 ft (S), 125 ft (N), 125 ft (S), and 125 ft (NE inside corner of curb).

3.5 Call out all streetlight wiring to be contained in 1" one-piece plastic unit duct. Show all street lighting unit duct routing and control box locations. St. Elizabeth streetlight wiring and control boxes shall be kept separate from onsite lighting. Provide control box detail and specifications.

3.6 Provide a streetlight foundation detail. Call out that streetlight foundations shall be centered 3 ft behind back-of-curb.

3.7 The Village requests that you work with the Joliet Diocese to align the existing church access, adjacent to proposed St. Ann Way, with the proposed Unit 3 driveway on the opposite side.

3.8 Label the centerline radius for the revised horizontal curve on St. Elizabeth Drive.

3.9 Provide a maneuverability analysis (or Autoturn analysis) to demonstrate adequate access for emergency and delivery vehicles. It appears that a few radii dimensions may need to be revised.

3.10 The typical parking count is 2 spaces per unit. 48 units for lease, plus one caretaker unit would make for 98 required parking spaces. There are 87 available spaces (49 garage spaces, 4 accessible spaces, 34 standard parking stalls). Being a development of senior living, the deficiency of 11 spaces is probably not material. Please note that should the development see parking deficiency during use, additional spaces may need to be added at a later time.

3.11 The Village recommends 9.5' width for parking stalls. Current plans call out 9' width. Being a senior development, wider stalls may assist with ingress/egress from vehicles. Being that the parking areas are not currently bound by obstructions, increasing parking width to 9.5' per stall should not prove difficult.

3.12 Provide bicycle parking at the club house.

3.13 Add a note to clarify that parking dimensions are to the edge of pavement (not to face or back of curb).

3.14 Connect the sidewalk to the back of each parking area.

3.15 If a north or northeast door is proposed for the clubhouse, provide a sidewalk connection from the door to the 5 ft sidewalk.

3.16 Stripe the pedestrian cross walk across the driveways of the building east of the club house.

3.17 Provide detectable warning surfaces for all accessible routes (stalls appear to be located such that the sidewalks along the new proposed driveways are all designated accessible routes).

3.18 Provide bike lane striping and signage on St. Elizabeth which follows the intent of the attached U-2A *Bike Lanes Signs & Markings Plan*. Provide bike lane ends signage where the lane ends near the traffic circle. Label the dimensions for the bike lane striping.

3.19 Dimension openings within the landscape wall.

3.20 Add 'No Parking' signs along the Village roadways.

3.21 Revise Legend Item 5 to refer to MUTCD rather than MUTAD. Add a note that all pavement markings shall meet the MUTCD.

3.22 Construction Note 10 calls out a "RETAINING" wall. Revise reference to this wall as "DECORATIVE" to avoid confusion that it may serve a structural use.

3.23 Specify thermoplastic striping for Village ROW.

3.24 Show locations of proposed street signs. Add details for the signs and poles.

3.25 The Village recommends increasing the proposed Driveway HMA thickness to 3 inches.

3.26 Revise note 6 which could mistakenly lead a contractor to think Upper and Lower Landing Areas are not required.

3.27 The curb return cannot extend onto St. Ann Way past the extended property line between Lots 253 and A2.

3.28 St. Ann Way improvements are shown outside of proposed ROW. Limit construction to remain within proposed ROW.

4. Grading Plan (Sheet 3)

4.1 Provide dimensions from the proposed detention basins to St. Elizabeth Drive ROW.

4.2 Show existing and proposed storm sewer on this sheet to facilitate review.

4.3 Provide proposed contours throughout the site. Delineate major contours with a different line type.

4.4 Dimension openings within the landscape wall.

4.5 Revise pond side slopes to be 4:1 maximum.

4.6 Provide 1% basin bottom slopes as shown on the Preliminary Plat.

4.7 Extend detention grading for Outlot F to west end of lot regardless of need.

4.8 Provide emergency overflow weirs from the ponds, label the widths.

4.9 Provide a cross section for the 100-year overland flow route to Basin A. Indicate maximum side slopes, minimum bottom width and calculated flow depth.

4.10 Define the overland flow route from the grassed area northwest of the clubhouse. The runoff should be directed towards the pond; if Lot 254 will be utilized to do this, then an easement is required with this phase of the development.

4.11 Provide lot lines along the northwest property line to review drainage divides/areas. Add spot elevations along the property line to match the storm sewer drainage areas.

4.12 Add spot elevations on and surrounding Lot A2 to confirm that the proposed improvements on Lot 253 will not block runoff from Lot A2.

4.13 Proposed grading work is shown on private property west of Lots 253 and 254, and on A2. Provide a temporary construction easement as needed.

4.14 Ponding shall not exceed 6" in parking areas or private drives. Revise as needed.

4.15 Revise proposed grading of the private drive to ensure overtopping is towards the pond rather than south.

4.16 Provide an exhibit demonstrating that the revised grading plan complies with maximum ponding depths.

4.17 Slopes at the boulevard entrance are excessively steep to the inlets; confirm intended spot elevations.

4.18 Provide overland flow arrows for St. Elizabeth Drive.

4.19 Provide spot elevations on the proposed sidewalk along the southeast property line of Lot A2.

4.20 Provide proposed spot elevations on the driveway and garage floor for the club house.

4.21 Show locations of Pipe Outlet To Flat Area.

4.22 The grading plan does not match Stormwater Report drainage areas whereby runoff from the west side of Lot 253 is draining west and south. Revise either to match.

5. Grading & Utility Plan, Outlot 1 (Sheet 4)

5.1 Provide an adequate outlet for the detention facility. The standpipe will not be accepted by the Village. The outlets shall meet requirements for release rates and be in accordance with the Plan prepared by MG2A and approved by the Village. Demonstrate access routes (and easements) prior to construction of the adjacent roadway.

5.2 Label the pond sideslopes to be 4:1 maximum.

5.3 Delineate the HWL.

5.4 Provide emergency overflow weir from basin, label the width.

5.5 Perforated PVC storm sewer is not allowed. Revise to RCP.

5.6 Show locations of Pipe Outlet To Flat Area.

6. Utility Plan (Sheet 5)

6.1 Show and label ROW, easements and lot lines (existing and proposed).

6.2 Show existing franchise utilities.

6.3 Provide existing and proposed rim elevations on this sheet, with existing number of adjustment rings with thicknesses, for all existing structures within the limits of construction as well as any others proposed to be adjusted.

6.4 Show details of the existing storm sewer in Basin B2 (Outlot J).

6.5 Provide an adequate outlet for the Basin C detention facility including construction of the restrictor structure; a standpipe will not be accepted by the Village. The outlet shall meet requirements for release rates and be in accordance with the Plan prepared by MG2A and approved by the Village with the ability to be revised when Commercial Area C builds out and the basin is expanded.

6.6 Revise the storm sewer west of the Navajo Drive traffic circle which appears to outlet in to both Outlots J and G and should not be combined with the Basin B2 outlet. Per the Town Center OSMS the Basin B2 outlet pipe is to be routed around the Basin C storm system, and only "Elements of the downstream storm sewer for the Basin B2 release pipe will need to be constructed with St. Elizabeth Dr."

6.7 Revise storm sewer design:

- The slope of CB 13 to CB 14 should be towards the pond.
- Show down spout locations and tie-ins to the storm sewer.
- Revise CB 9, 10, 14 and 16 to have 4' diameter.
- Storm sewers with 21" – 36" diameter require 5' diameter structures.
- Revise storm sewers to be below freezing depth; especially INL 15-CB 16.

6.8 Extend the 8" watermain 30 – 40 ft adjacent to A2, then to the Lot 254 property line.

6.9 Provide watermain extending NW along the east side of St. Ann Way to the end of improvements and ending with a valve in vault and fire hydrant.

6.10 Provide a fire hydrant on downstream side of VVs to Lot 254. These hydrants can be relocated when Lot 254 builds out.

6.11 Remove FH-7 and end watermain at building services; remove FH-6. Both buildings are adequately covered by FHs 5, 8 and 9 in addition to internal fire suppression systems.

6.12 Fire hydrants are required every ≤ 350 ft along all watermain.

6.13 Show a watermain elbow just east of FH-4.

6.14 Indicate a drop connection for Sanitary Manhole SN 2 and SN 5 within the Residences property.

6.15 Number the Sanitary Manholes along St. Elizabeth Drive differently than the Manholes in the Residences property.

6.16 Show the size of the existing water main on St. Elizabeth Drive.

6.17 Provide separate fire suppression and domestic services with valves for each building.

6.18 Include conflict information for all utility crossings on this sheet.

6.19 Revise storm sewer frame and grates as follows:

- Type 1 with closed lid – EJIW 1020 Embossed with "Storm" and "Village of Channahon"
- Type 1 with open lid – EJIW 1020 with type M2 grate

6.20 Revise Storm Sewer Note 2 to add "and 'Village of Channahon'" for structures located within proposed Village ROW.

6.21 Water Main Notes and Sanitary Sewer Notes reference Storm Structure Symbol Legend, please revise.

6.22 Indicate EJIW 1020 and 1020A HD embossed "Water" and "Village of Channahon" for valve vault frames and lids.

6.23 Water Main Note #1 – add "with polyvinyl wrap".

6.24 Revise Sanitary Sewer frame and grate to EJIW 1020 w/Type A Self Sealing Heavy Duty Lid.

6.25 Sanitary Sewer Note #2 – add and "Village of Channahon".

6.26 Additional soil testing may be required at a later date to confirm that the soil infiltration is capable of offsetting the required and proposed detention volume as initially intended.

7. St. Elizabeth Drive Profile (Sheet 6)

7.1 Include conflict information for all utility crossings on this sheet.

7.2 Show the existing sanitary sewer on the profile.

7.3 Provide vertical curves for the roadway where the algebraic difference is 1.0 or greater. Label tangent lengths between curves.

7.4 Provide soil testing with IBR (not IBV) at locations within proposed Village roadway. Show boring locations and IBR results on this sheet.

8. St. Ann Way Profile (Sheet 7)

8.1 Include conflict information for all utility crossings on this sheet.

8.2 Show the water and sewer in the profile view.

8.3 Provide vertical curves for the roadway where the algebraic difference is 1.0 or greater. Label tangent lengths between curves.

8.4 Provide soil testing with IBR (not IBV) at locations within proposed Village roadway. Show boring locations and IBR results on this sheet.

9. Sanitary Sewer Profiles (Sheet 8)

9.1 Provide a Key Map that identifies the location of the various profiles.

9.2 Include conflict information for all utility crossings on this sheet.

9.3 Show the drop connection to Sanitary Manhole SN 2.

10. Erosion Control Plan (Sheet 9)

10.1 The symbol identified in the Legend for Inlet Protection does not match the symbol used in the drawing.

10.2 Show probable stockpile locations with necessary erosion and sediment control measures.

10.3 Show probable location of concrete washout facility.

10.4 Indicate locations of culvert inlet protection.

10.5 Show locations of the erosion control blanket.

10.6 Provide notes to describe what is being done or required for items called out as "1" and "2".

10.7 There are a few items in the legend that are not shown on the plan. Update the plan and legend accordingly.

11. Stormwater Pollution Prevention Plan (Sheet 10)

11.1 Include a detail for Erosion Control at Stockpiles.

11.2 Include a detail for Construction Entrance.

11.3 Provide all of the necessary signatures.

11.4 This sheet shows a detail for Pipe Outlet To Flat Area. Update the Sheet 9 and applicable grading and utility sheets to show locations where this will be used. Also, fill in all dimensions and specifications.

11.5 A detail for straw bales is included. Indicate where these are proposed or remove the detail.

11.6 Provide owner and contractor certifications.

11.7 Provide the following certification block with name, address, 24 hr. telephone contact and signature line for the NPDES Permit Inspector. This should be the same person named on the NOI for this project:

NPDES PERMIT INSPECTOR CERTIFICATION

I HEREBY CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR THIS SITE WHICH AUTHORIZES STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. I FURTHER ACCEPT LEGAL RESPONSIBILITY FOR INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES AS PERTAINS TO SAID NPDES PERMIT BEGINNING WITH INITIAL SITE DISTURBANCE AND ENDING WHEN THOSE MEASURES ARE NO LONGER NECESSARY AS PROVIDED IN THE NPDES PERMIT AND VERIFIED BY THE VILLAGE OF CHANNAHON. NO OTHER NOTE OR PROVISION IN THE ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN, FINAL ENGINEERING PLANS, OR OTHER DOCUMENT ELIMINATES THIS RESPONSIBILITY.

12. Typical Sections (Sheet 11)

12.1 Revise the Typical Stormwater Detention basin Cross-Sections to show 4:1 side slopes instead of 3:1, and 6" topsoil.

12.2 Add St. Ann Way to the title of the St. Elizabeth Drive section. Provide 2" minimum surface course per the Town Center Preliminary Plat. Show 2" minimum stone base under sidewalk for this cross section. Show typical watermain, storm sewer, sanitary sewer, and gas main.

12.3 Include a title for the private drives section. Show 2" minimum stone base under the sidewalk.

12.4 Add a typical section for parking lot pavement.

12.5 Revise New Curb section to show minimum 6" topsoil.

13. Construction Details (Sheet 12)

13.1 Update the Handicap Ramp Detail to the current applicable IDOT details.

13.2 Provide a detail for reverse pitch curb and gutter.

13.3 Call out Village trench backfill requirements on Pipe Installation Details.

14. Construction Details (Sheet 13)

14.1 Provide a detail for flared end section grates which are required at all locations.

14.2 The detail for Lot 253 entrance indicates a different radius than Sheet 2.

14.3 Revise the dry well detail to indicate the location and quantity of holes in the perimeter of the structure. Label backfill materials. Add a note to minimize compaction at the dry well and surrounding areas.

15. Specifications (Sheet 14)

15.1 Require two business days notification to Village for all required testing or field observations.

15.2 Require 6" sand bedding for all utility structures, except 2 ft storm inlets and catch basins which can be 3" sand bedding.

15.3 Provide the following requirements under Pavement notes for improvements to be owned by the Village:

- Schedule subbase and base course proofrolls and string line testing with a Village employed testing service.
- Density testing is required for subbase, base course, binder course and surface course by a Village employed testing service.
- Village observation of all HMA placement and curb & gutter installation.
- Village pre-pour inspection of sidewalk not less than 2 hours before pour.
- Village pre-pour inspection of curb & gutter not less than 2 hours before pour.

15.4 Provide the following requirements in Storm Sewer notes for applicable improvements to be owned by the Village:

- Inspection of all storm sewer structures and piping on bedding prior to any backfill or cover.
- A minimum of one and maximum of two adjusting rings shall be used; structure sections, adjusting rings and frames shall be set on mastic; voids between adjusting rings and frames, and pipe connections to structure, shall be mortared inside and out with non-shrink mortar material.
- Only CA-7 is allowed for pipe bedding, backfill and trench backfill; 6" bedding; backfill to spring line; trench backfill under and within 2 ft of pavement, curb, etc.

15.5 Provide the following requirements in Sanitary Sewer notes:

- Inspection of all sanitary manholes and piping on bedding prior to any backfill or cover.
- A minimum of one and maximum of two adjusting rings shall be used; structure sections, adjusting rings and frames shall be set on mastic.
- Only CA-7 is allowed for pipe bedding, cover and trench backfill; 6" bedding; backfill/cover to 6" above top of pipe; trench backfill under and within 2 ft of pavement, curb, etc.
- One piece external, flexible, water-tight Chimney Seals conforming to ASTM C-923, with heavy duty stainless steel bands are required on all sanitary manholes.
- Add requirement for vacuum testing of manholes.
- Schedule the Village to be present for all sanitary system testing.
- Televising shall take place not less than one year following completed installation of all sanitary sewer.

15.6 Revise Lighting specifications:

1.A. – revise as needed per other comments.

1.C. – all streetlight wiring shall be placed in 1" one-piece plastic unit duct.

15.7 The Drywell Pond Maintenance Section puts the responsibility for drywell and pond maintenance on the "Channahon Town Center HOA." Please provide evidence that the HOA is in acknowledgement and agreement of this development joining the existing Channahon Town Center HOA and the assigned responsibility for pond and drywell maintenance.

15.8 Provide the following requirements in Watermain notes for applicable improvements to be owned by the Village:

- 100% of watermain construction shall be observed by Village.
- A minimum of one and maximum of two adjusting rings shall be used; structure sections, adjusting rings and frames shall be set on mastic; pipe connections shall be mortared inside and out with non-shrink mortar material.
- Provide note requiring 4x4 wooden thrust restraints between valve and vault wall for all valves-in-vault.
- Only CA-7 is allowed for pipe bedding, cover and trench backfill; 6" bedding; backfill/cover to 6" above top of pipe; trench backfill under and within 2 ft of pavement, curb, etc.

- Call out inspection and testing to be per Village specifications.
- Schedule the Village to be present for all flushing, pressure testing, chlorination and sampling.
- Only Village personnel are allowed to operate Village water valves or fire hydrants.

STORMWATER MANAGEMENT REPORT

16.1 The calculations for required detention volume on Outlot I use a runoff coefficient of 0.61 (rather than 0.62 used in the previous calculations). This is not unacceptable to the Village, however, please note that this will limit the impervious areas permitted within the drainage basin in the future. Provide a curve number exhibit with table to quantify the proposed impervious areas for all lots and portions of lots within the affected drainage areas of this phase to guide future development. Impervious areas listed in the report shall reflect all existing, proposed, and future impervious areas.

16.2 Remove all reference to an 8 drywell configuration for Basin A if this is not being requested.

16.3 Provide calculations for the interim condition of Basin A. The interim condition will be defined as full development of Lots 253 and 254 (and any other portions of the drainage area that will soon be pursued for development). Identify the interim 2-year WL and HWL on the plans; construct the restrictor based on this condition, with the ability for future modification for the long term restrictor sizes.

16.4 Calculations for Basin C (Outlots F & G) refer to drywells, however the plans do not show any proposed for construction during this phase. Please clarify.

16.5 Provide supporting calculations for the selection of the 36" diameter pipe connecting between Outlot F and Outlot G.

16.6 Provide calculations for the overflow weirs from each basin.

16.7 Incorporate the attached 6/28/10 MG2A Post Development Drainage Plan and all 7/02/10 REL Review Notes into the report and project scope.

16.8 Provide calculations that demonstrate that the existing pre-development peak runoff rate from the 100-year critical duration rainfall will not be exceeded assuming the primary restrictor is blocked.

16.9 Revise the Storm Sewer Calculations (and plans):

- Revise pipes 5-4 and 4-3 to have minimum flowing full velocity of 3 fps.
- Revise the inverts and slope for pipe INL 1.5-MH 1.4 to correspond. Similarly, adjustments are needed for pipe CB 9.1-CB 9, CB 12 –E 3, CB 13-CB 14.
- Provide calculations and drainage area exhibits for all storm sewers proposed along St. Elizabeth Drive.

16.10 Provide OFR weir calculations and inundation exhibits to verify the proposed emergency overland flow route provides sufficient protection of existing, proposed, and future buildings, with 1' minimum freeboard, from the 100-year storm during storm sewer failure.

16.11 Due to the highly permeable soils, reliance on infiltration for stormwater management facility sizing, increased groundwater mounding from the dry wells without detailed elevation analysis of groundwater elevations and direct impacts from infiltrated outlets as well as documented basement flooding in the area, the attached criteria shall be incorporated into the next submittal (engineering and construction section).

16.12 Provide a contour exhibit with calculations that verify the proposed built out volume required for both Basin A and Basin C through the Town Center OSMS will be contained on their respective Outlots.

16.13 Show the ultimate grading of the detention volumes for Basin A and Basin C to demonstrate locations of pond inlets, outlets, and dry wells per the Town Center OSMS can be provided, and to support the location of the 36" pipe connecting Outlot F and Outlot G.

16.14 The grading plan does not match Stormwater Report drainage areas whereby runoff from the west side of Lot 253 is draining west and south. Revise either to match.

16.15 Provide an existing conditions drainage exhibit.

Citizen Inquiry

Inquiry No.	1133	**Received by**	Kinzler, D
Date	3/22/2016		
Name	, Steve		
Address	26427 Stonebriar Way		
Phone	(815) 467-1981	**Alt Phone**	(708) 717-9101
Subdivision	Hunters Crossing	**Unit**	
Request/Concern	Resident says there is a sink hole under the sidewalk near the west side property line; was previously repaired last year; says there are plastic drainage inlets nearby.		
Action Taken	Wrote WO 6511 to: 1) Repair sink hole under sidewalk near west property line at 26427 Stonebriar. 2) VOC records indicate a sump discharge connection was provided by the Village at this same property line for 26427 and 26433, and connected to the storm MH in the driveway of 26433. Resident at 26427 says there are plastic ground inlets at same location; his sump discharges to back yard; he is not sure where 26433 sump discharges. Check that any sump connections at this same property line are not allowing sump discharges to wash out sediment; also check that pipe to MH is clear.		
Date Complete			
By			
By			
Work Order No.	6511		

Citizen Inquiry

Inquiry No.	1134	**Received by**	Kinzler, D
Date	3/22/2016		
Name	Raft, Gary		
Address	26831 Westwood Dr		
Phone	(815) 666-2214	**Alt Phone**	
Subdivision	The Highlands	**Unit**	4
Request/Concern	Resident has drainage issues along SW property line.		
Action Taken	DRK met resident on site and provided design grading plan and GIS; there are no easements along property line; signs of standing water along rear yard fence; advised resident about rain gardens and drainage tile options; suggested he try a few landscaping companies.		
Date Complete	3/22/2016		
By	Kinzler, D		
By			
Work Order No.			

Citizen Inquiry

Inquiry No.	1135	**Received by**	Kinzler, D
Date	3/28/2016		
Name	Tomak, Gus		
Address	24537 Moorman Ave		
Phone	(815) 467-7857	**Alt Phone**	(815) 258-6864
Subdivision	Springbrook Estates	**Unit**	
Request/Concern	Resident and neighbor have several concerns regarding the detention pond that is located on their properties, half on each: the PCC swale has collected sediment and is overgrown such that low flow stormwater is hampered from both draining into and traveling within the swale, as well as leaving the pond; FESs on both ends where runoff leaves the basin are tilted up; these issues make the pond unmowable. Resident also feels backside of berm is washing out. Residents would like VOC to clean out the PCC swale and place excavated material on backside of berm.		
Action Taken	Inspection confirms the PCC swale, which appears to be 4 - 5 ft wide, is almost entirely overgrown with sediment, grass and cattails which significantly restrict stormwater from entering and traveling through the swale; original design was for 1% cross slopes into the swale, but currently these areas are flat/depressed and holding water; although the FESs could use minor adjustment, they are functional; the berm washout is minimal and not affecting detention functionality. 3-29: Discussed with Bruce and Ed. W.O. 6513 to clean out PCC swale and place excavated material on back side of south pond berm when weather allows.		
Date Complete	3/29/2016		
By	Kinzler, D		
By			
Work Order No.	6513		

Citizen Inquiry

Inquiry No.	1145	**Received by**	Reiter, S
Date	5/18/2016		
Name	Repko, Richard		
Address	26731 Megan Dr		
Phone	(815) 467-6137	**Alt Phone**	
Subdivision	Deer Ridge	**Unit**	
Request/Concern	The drain in the corner of his yard continually fills in with dirt. Please inspect		
Action Taken	Most of the material came from back yard of 26723 installing grass in the back yard. The home was built last year and had no grass. Grass is growing so should not be a problem in future.		
Date Complete	5/24/2016		
By	Vaickus, B		
By			
Work Order No.	6555		

Citizen Inquiry

Inquiry No.	1159	**Received by**	Kinzler, D
Date	8/3/2016		
Name	Zolecki, Michael		
Address	24207 Burr Rd		
Phone	(815) 302-7763	**Alt Phone**	
Subdivision	Rolling Acres	**Unit**	

Request/Concern

07-28-16: Resident - I am writing to seek your assistance with a storm sewer drainage issue at 24207 Burr Road. For the past several years, whenever it rains, any amount, the street in front of my residence floods and the water backs up my driveway to my foundation wall. The outlet for the storm sewer line back in the easement, over the years, has filled in with silt, mud, and pea gravel to the point where water will pool at the outlet, backing the water back toward the street, and not drain to either side as it did 20-25 years ago.

Approximately 10-12 years ago, the village did scope the sewer line and rout it out. Two years ago I wrote the Public Works Department regarding this same issue and was told there was no allocations in the budget for anymore work that year.

The water from the street is up against my foundation with most rainfalls. I have attached a video from yesterday's .81" rain at my house. Water at the sewer inlet was 9" high during the rain.

Action Taken

Video provided by resident shows ponding water very close to, or even against, the home foundation.
07-29-16: DRK called resident to let him know he would follow up with him next week.
08-03-16: DRK made site visit; checked both roadway inlets - some sediment in bottom of sump, but not significant to issue; checked where storm sewer outfalls at east end of resident property line - 12" RCP pipe end is open and not obstructed, sits in low area approximatley 1 ft below surrounding grade which is still lower than foundation; rear yard grading allows overland flows to go north without obstruction; one large tree and several bushes are directly over storm sewer from inlet to outfall.
DRK suspects storm sewer between road inlet and outfall is obstructed (inlets and overland flow appear to be working; foundation appears to be higher than grade surrounding outfall).
DRK contacted Bruce to investigate storm sewer obstruction.
DRK contacted resident with update.

Date Complete	
By	

E-6

Thorntons Phase 1

Punchlist for Acceptance - Steps 1-4

09-01-2016

#	ITEM	STEP	ID/LOCATION	DEFICIENCY AND CORRECTION
1	Sanitary	1	Existing SMH	Debris at bottom of Existing SMH is blocking flow from SMH-1. Remove debris from Existing SMH.
2	Sanitary	1	SMH-1	Flush SMH-1 and 8" sanitary pipe between SMH-1 and Existing SMH.
3	Sanitary	1	SMH-2	SMH-2 has standing water in pipe and bench, SMH-3 and 4 are dry. Therefore, it is possible this is backup from the Existing SMH. Flush pipe from SMH-2 to SMH-1 for follow up inspection.
4	Sanitary	1	SMH-2, SMH-3	Provide 8 ft long 4 x 4 witness posts for these structures, painted green and buried 36 inches.
5	Water	1	VV-2, VV-4, FH-3, FH-5	Provide 8 ft long 4 x 4 witness posts for these structures, painted blue and buried 36 inches.
6	Streetlight	2	N end of Frontage Rd.	Replace street light XB-6.
7	Parkway	4	Rt 6 to CECO Entrance	Landscape Plan Turf Area (parkway) is overgrown with weeds and has been rutted with construction or other traffic. Re-restore parkway using IDOT Class 1A salt tolerant seeding.
8	Parkway	4	STA 55+50 to 57+50	Prairie Mix planting along hill encroaches over bike path. Please cut back 1 - 2 ft as part of regular parkway maintenance.
9	Bike Path	4	E side of Rt 6 RI-RO	Depressed area holding stormwater runoff across path. Regrading has been proposed. If regrading is unsuccessful alleviating the problem, re-construct the PCC portion and first 10-20 ft of HMA path to remove depressed area.
10	Bike Path	4	Along NW Frontage Rd.	Bike path was constructed outside of ROW limits with less than 8 ft of path within ROW in several areas. The Village requests a 2 - 3 ft easement along the ROW. Please provide easement or other options for review.
11	Restoration	4	Trailer Lot	Please restore disturbed area.
12	Restoration	4	Detention Basin - East side swale	Swale restoration from CECO entrance to bottom of basin is not growing or has been washed out. Re-restore this area.
13	Restoration	4	Temporary Construction Easement - Seneca	Restore temporary construction easement.

Dana Ludwig

From: Don Kinzler
Sent: Wednesday, February 01, 2017 11:57 AM
To: 'Matthew Schaap'
Cc: 'Kyle Schuhmacher'; Ed Dolezal
Subject: Ozinga Erosion & Sediment Control
Attachments: 20170117_141257.jpg; 20170117_141340.jpg; 20170117_141452.jpg; General NPDES ILG840 Permit Provisions, IEPA.PDF

Hi Matt,

It has come to the Village's attention that a violation of Village Ordinance Chapter 157 Soil Erosion Regulations and your NPDES ILG84 Permit For Non-Coal Mines has occurred on your property. Specifically, grading and excavation work has taken place without installation of silt fence or other measures to prevent sediment laden stormwater runoff from migrating to adjacent properties. This work is additionally in violation of Section 3.18 of the Special Use Ordinance whereby Mining Operations are not permitted within 25 ft of the golf course. Attached are pictures of these violations.

Please immediately install silt fence and other sediment control measures around the perimeter of all areas which have or will receive land disturbance including, but not limited to, areas along the golf course (south) and residential properties (west). Contact me to inspect these measures as soon as completed.

Also, please provide a copy of the General NPDES Permit for Non-Coal Mines (ILG84) as required in section 4.3 of the Special Use Ordinance. Note that the previously provided SWPPP and NPDES Permit were for a ILR10 General Permit For Stormwater Discharges From Construction Site Activities and does not fulfill this requirement.

Regards,

Donald R. Kinzler,P.E.,CFM
Engineering Project Manager
Village of Channahon
24555 Navajo Dr.
Channahon, IL 60410
Ph:(815) 467-6644
Fx:(815) 467-8398

Illinois Association for Floodplain and Stormwater Management
Association of State Floodplain Managers

This writing certifies that

Donald R. Kinzler, CFM

Has successfully fulfilled all the prerequisites and requirements for being a

Certified Floodplain Manager

In recognition thereof, this certificate is awarded, 3/11/2008
Certificate Number IL-08-00374. Expires 7/31/2018

E. Stuart Richter
Chair, IAFSM

Chair, Certification Committee

ASFPM CFM® CERTIFIED

VILLAGE OF
CHANNAHON
24555 S. NAVAJO DRIVE • CHANNAHON, ILLINOIS 60410
(815) 467-6644 • FAX (815) 467-9774 • www.channahon.org

September 23, 2016

RE: 26235 Overland Court Flood Risk

To Whom It May Concern:

This letter is provided as a courtesy to Mr. Gonzalez, the current property owner of 26235 Overland Court located within municipal boundaries of the Village of Channahon. The Village provides this letter with the understanding that only FEMA can make an official floodplain determinations.

The Village believes the residential structure on this property, and the property itself, are not located within a nearby FEMA Zone A Special Flood Hazard Area (SFHA). This determination is made after evaluating NFIP FIRM Panel 17197C0265 (Effective Date September 6, 1995), the Village approved Grading Plan for McKinley Oaks Subdivision – Unit 2, and the Village of Channahon GIS system with SFHA shown. See attached exhibits from these documents.

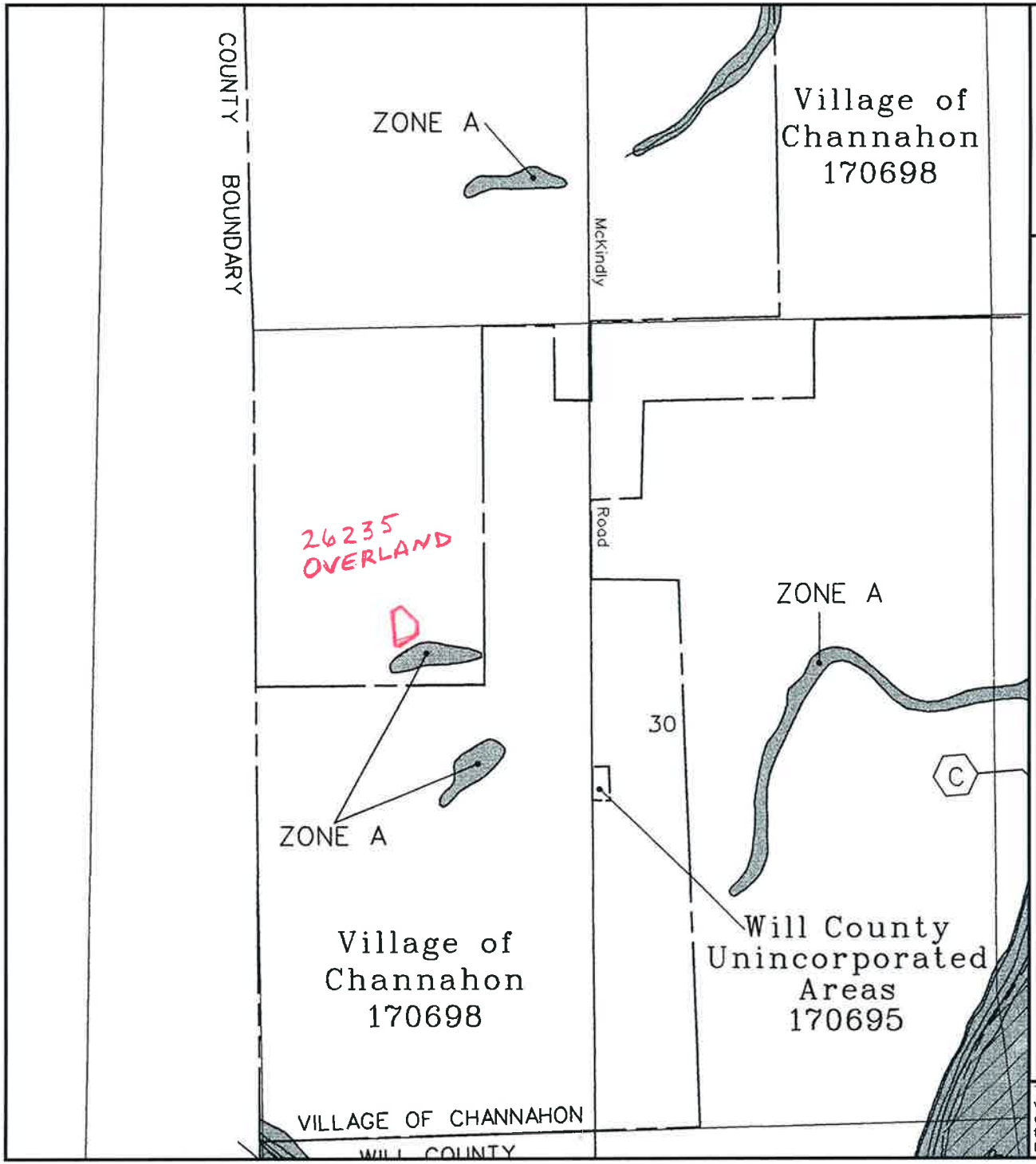
The Village also consulted the pending Preliminary Digital FIRM (DFIRM) Map Panel 17197C0265 which also does not show the Zone A SFHA on the Gonzalez property.

If you have any questions, I can be reached at 815-467-6644.

Sincerely,

Donald Kinzler, P.E., CFM
Engineering Project Manager

Cc: Ernesto Gonzalez



N

APPROXIMATE SCALE
1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

WILL COUNTY, ILLINOIS AND INCORPORATED AREAS

PANEL 265 OF 585

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

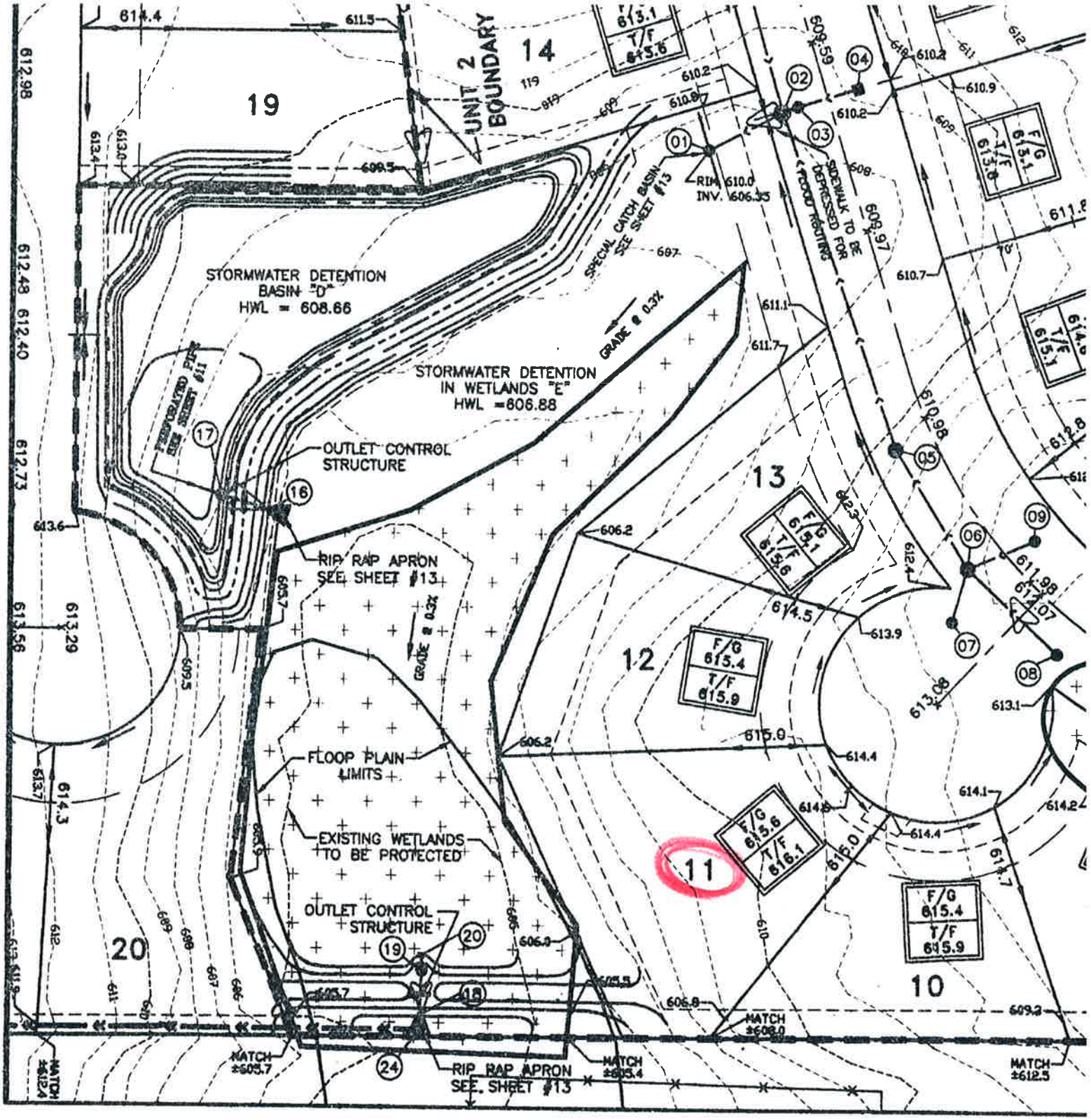
COMMUNITY	NUMBER	PANEL	SUFFIX
CHANNAHON, VILLAGE OF	170698	0265	E
MINOOKA, VILLAGE OF	170309	0265	E
UNINCORPORATED AREAS	170695	0265	E

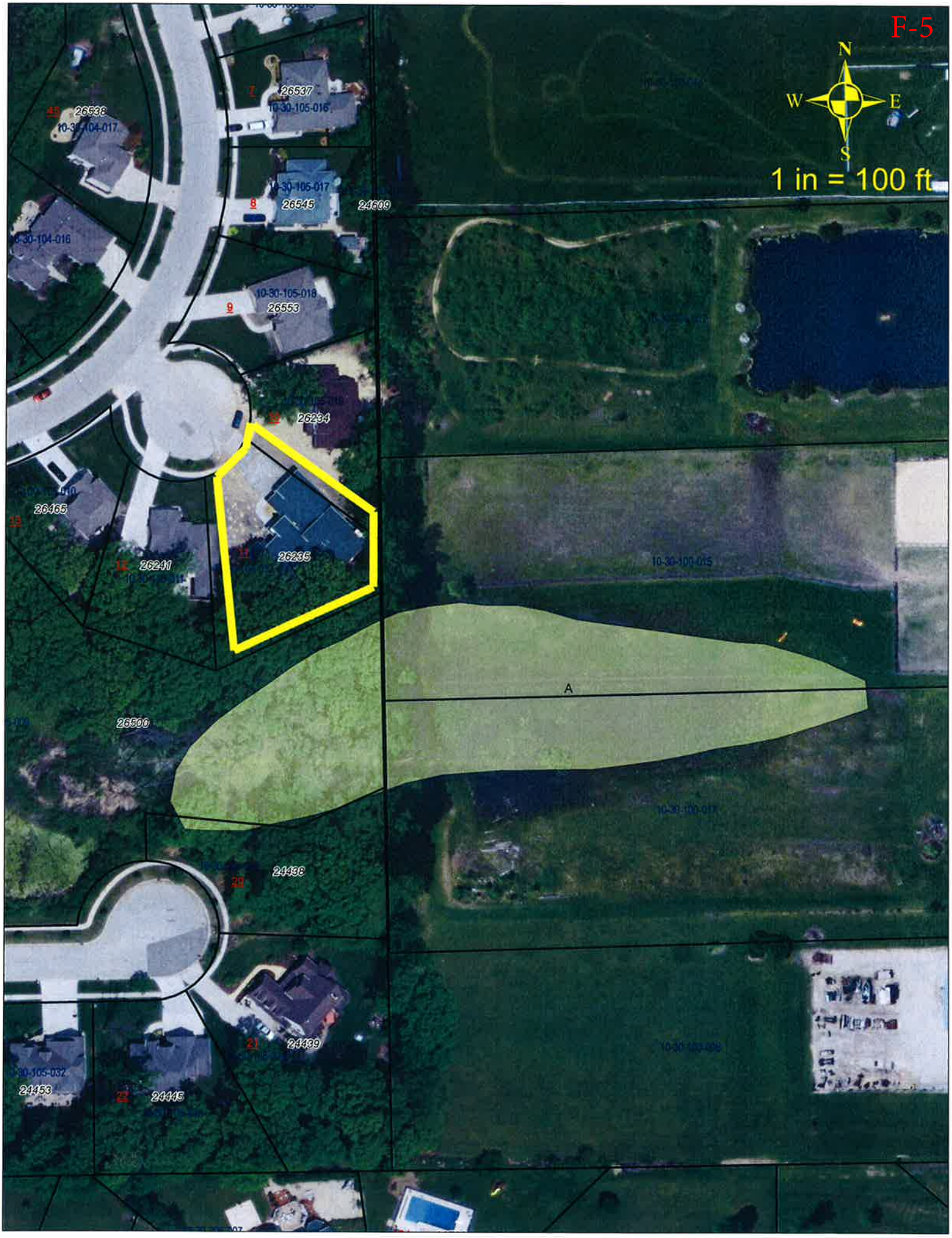
Notice to User: The MAP NUMBER shown below should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

MAP NUMBER
17197C0265 E

EFFECTIVE DATE:
SEPTEMBER 6, 1995

Federal Emergency Management Agency


UNIT 2 BOUNDARY
STORMWATER DETENTION BASIN "D" HWL = 608.66
STORMWATER DETENTION IN WETLANDS "E" HWL =606.88
OUTLET CONTROL STRUCTURE
RIP RAP APRON SEE SHEET #13
FLOOD PLAIN LIMITS
EXISTING WETLANDS TO BE PROTECTED
OUTLET CONTROL STRUCTURE
SPECIAL CATCH BASIN SEE SHEET #13
RIM 610.0 INV. 606.35
SIDEWALK TO BE DEPRESSED FOR FLOOD ROUTING
GRADE @ 0.3%
GRADE @ 0.3%
RIP RAP APRON SEE SHEET #13
MATCH ±605.7
MATCH ±606.0
MATCH ±605.4
MATCH ±612.5
MATCH ±612.4
19
14
13
12
11
10
20
F/G 615.1 T/F 615.6
F/G 613.1 T/F 613.6
F/G 615.1 T/F 615.6
F/G 615.4 T/F 615.9
F/G 615.6 T/F 616.1
F/G 615.4 T/F 615.9
F/G 615.1 T/F 615.1


F-5
N
W
E
S
1 in = 100 ft
7
26537
10-30-105-016
45
26538
10-30-104-017
8
10-30-105-017
26545
24609
10-30-104-016
9
10-30-105-018
26553
10
26234
26465
13
11
26235
12
26241
10-30-100-015
A
26500
10-30-100-017
24498
22
21
24439
10-30-105-032
24453
23
24445

Dana Ludwig

From: Don Kinzler <dkinzler@channahon.org>
Sent: Friday, May 05, 2017 9:39 AM
To: Dana Ludwig
Subject: FW: Street Sweeping

From: Bruce Vaickus [mailto:bvaickus@channahon.org]
Sent: Friday, May 05, 2017 9:38 AM
To: Don Kinzler <dkinzler@channahon.org>
Subject: Re: Street Sweeping

101 Center lane miles

On Fri, May 5, 2017 at 9:31 AM, Don Kinzler <dkinzler@channahon.org> wrote:

> Yep
>
> Regards,
>
> *Don*

From: Bruce Vaickus [mailto:bvaickus@channahon.org]
Sent: Friday, May 05, 2017 8:34 AM
To: Don Kinzler <dkinzler@channahon.org>
Subject: Re: Street Sweeping

Were done? Are you looking for miles?

On Thu, May 4, 2017 at 4:20 PM, Don Kinzler <dkinzler@channahon.org> wrote:

> Final report?
>
> Regards,

Don

From: Bruce Vaickus [mailto:bvaickus@channahon.org]
Sent: Friday, March 17, 2017 3:05 PM
To: Sharon Reiter <sreiter@channahon.org>
Cc: Ed Dolezal <Edolezal@channahon.org>; Curtis Kratochvil <ckratochvil@channahon.org>; Don Kinzler <dkinzler@channahon.org>
Subject: Street Sweeping

Sharon,

Street sweeping will begin the week of April 3rd, weather permitting.

--

Bruce Vaickus
Utilities and Streets Superintendent
Village of Channahon
(815) 467-6644
(815) 467-0854

--

Bruce Vaickus

Utilities and Streets Superintendent

Village of Channahon

(815) 467-6644

(815) 467-0854

--
Bruce Vaickus
Utilities and Streets Superintendent
Village of Channahon
(815) 467-6644
(815) 467-0854