Public Notice of the Village of Cambridge, pursuant to Section 19.84, Wisconsin Statutes, is hereby given to the public and to the news media, that the following meeting will be held:

VILLAGE BOARD OF TRUSTEES

DATE: TUESDAY, SEPTEMBER 22, 2026 **TIME:** 6:30 PM

LOCATION: AMUNDSON COMMUNITY CENTER
200 SPRING ST.
CAMBRIDGE, WI 53523

1. **CALL TO ORDER**
2. **PLEDGE OF ALLEGIANCE**
3. **ROLL CALL**
4. **PROOF OF POSTING**
5. **PUBLIC COMMENT (LIMIT OF 3 MINUTES PER PERSON)**
6. **APPROVAL OF MINUTES:** Village Board Minutes of September 8, 2026
7. **APPROVAL OF BILLS**
8. **PRESENTATION BY KELSEY BELL, PROGRAM DIRECTOR, FOR BIRD CITY WISCONSIN.**
9. **COMMITTEE REPORTS**
    a. Economic Development Committee – Trustee Busch
    b. Library Board – Trustee Trendel
    c. Plan Commission – President Hollenbeck
    d. Water and Sewer Committee – President Hollenbeck
    e. Fire and EMS Committee – Trustee Blackwood
    f. Joint Police Committee – Trustee Jankowski
10. **VILLAGE ADMINISTRATOR'S REPORT**
    a. Update on Projects and Developments
11. **OLD BUSINESS – ACTION REQUIRED - NONE**
12. **NEW BUSINESS – ACTION REQUIRED**
    a. Discussion and Possible Action on recommendation from the Plan Commission to approve the Summer Prairie Preliminary Plat for Parcel 0612-123-4780-1 subject to conditions.
    b. Discussion and Possible Action on recommendation from the Plan Commission to approve a text amendment to revoke Commercial Condos as a conditional use in the Mixed Business zoning district.
    c. Discussion and Possible Action on recommendation from the Plan Commission to approve the Palmer Meadows Plat for Parcel 0612-124-0010-2.
    d. Discussion and Possible Action on recommendation from the Plan Commission to approve the rezone Lots 1-8 to Low-Density Residential and Outlot 1 as Conservancy in the Palmer Meadows Plat.

e. Discussion and Possible Action on recommendation from the Plan Commission to approve the 2-lot CSM for Parcel 0612-013-0501-1.

f. Discussion and Possible Action on Resolution 2026-15 Approving Additional Election Inspectors for the 2026-2027 Term.

g. Discussion and Possible Action on Resolution 2026-16 Attendance of Village Staff at Election Training Given By "All Voting Is Local – Wisconsin".

13. FUTURE AGENDA ITEMS

a. Discussion and Possible Action on a referral from the Public Works Committee to consider the removal of parking spaces from the intersection of HWY 12 and Spring Street

b. Discussion on E-bike and E-scooter ordinances

c. Election Security Sub-grant

14. PUBLIC COMMENT (LIMIT OF 3 MINUTES PER PERSON)

15. NEXT MEETING DATES

a. Fire and EMS Commission – Wednesday, September 23, 2026, at 6:30 p.m.

b. Economic Development Committee – Tuesday, October 6, 2026, at 4:30 p.m.

c. Plan Commission – Monday, October 12, 2026, at 6:30 p.m.

d. Village Board – Tuesday, October 13, 2026, at 6:30 p.m.

e. Library Board – Wednesday, October 14, 2026, at 6:30 p.m.

f. Water and Sewer Committee – Tuesday, October 20, 2026, at 6:30 p.m.

g. Village Board – Tuesday, October 27, 2026, at 6:30 p.m.

h. Fire and EMS Commission – Wednesday, October 28, 2026, at 6:30 p.m.

16. CLOSED SESSION

The Village Board will convene into Closed Session pursuant to **Wis. Stat. §19.85(1)(g)** for conferring with legal counsel for the governmental body who is rendering oral or written advice concerning strategy to be adopted by the body with respect to litigation in which it is or is likely to become involved: **discuss proposed dissolution of Cambridge-Oakland Cable Commission by the Town of Oakland, and**

the Village Board will convene into Closed Session pursuant to **Wis. Stat. §19.85(1)(e)** for deliberating or negotiating the purchasing of public properties, the investing of public funds, or conducting other specified public business, whenever competitive or bargaining reasons require a closed session: **discuss advertising, marketing, and pricing strategies for the Melster's property.**

17. RECONVENE TO OPEN SESSION

18. POSSIBLE ACTION TAKEN ON CLOSED SESSION ITEMS

19. ADJOURNMENT

Brian Wilson, Village Clerk/Treasurer

Posted: September 18, 2026

The Village of Cambridge Board permits a period of public comment to receive information from members of the public pursuant to Wis. Stat. § 19.84(2). The Wisconsin Attorney General has advised that a governmental body should refrain from Board discussion on an item until specific notice of the subject matter and any proposed action has been provided. (Wisconsin Department of Justice, *Wisconsin Open Meetings Law: A Compliance Guide* (2009).)

NOTE:
Individuals who need special accommodations are encouraged to call (608) 423-3712 at least 24 hours before the meeting.

Outlook

For the record — Sept 14 Plan Commission, item 6a, Arnett's Addition to Summer Prairie

From Greg Hellmich [redacted]
Date Mon 9/14/2026 3:59 PM
To Brian Wilson <BWilson@cambridgewi.gov>; Kris Breunig <KrisBreunig@cambridgewi.gov>

Mr. Wilson and Mr. Breunig,

I'm writing ahead of tonight's Plan Commission meeting regarding item 6a, the Arnett's Addition to Summer Prairie preliminary plat, and would ask that this email be entered into the record and included with tonight's packet or minutes.

I have four questions I'd like on the record. I understand staff may not be able to answer all of them tonight, but I'd appreciate a written response in due course.

1. Timing. The preliminary plat application is signed and dated July 17, 2026. Under Wis. Stat. § 236.11(1)(a), the Village has 90 days from filing to approve, conditionally approve, or reject the plat, or the plat is deemed approved by operation of law. By my calculation that 90-day period runs out in mid-October. This item was deferred at the August 10 Plan Commission meeting. Can the Village confirm the date the application was formally received (the "Date Received" field on the application I have is blank), and state whether the Commission intends to act on this item tonight or at a specific future meeting before that deadline?

2. Rezoning. The plat proposes rezoning most of the single-family lots to R-M and one lot to R-H for multifamily use. Has a rezoning or zoning map amendment application been received for this parcel (111/0612-123-4780-1)? If so, when is the public hearing and how will notice be provided? If not, I'd ask the Village to clarify how a preliminary plat proposing a zoning district that has not been applied for can be considered.

3. Stormwater. The application materials state that the subdivision will utilize existing regional stormwater ponds "previously constructed and specifically designed to serve this phase." The stormwater/hydrology calculations included in the submitted materials that I've been able to review appear to be dated 2004 and prepared for the original Summer Prairie Phases 1, 2, and 3 concept. I have not located a current stormwater or pond-capacity analysis prepared for the plat as now proposed — 49 single-family lots (several under 8,000 sq ft) plus one multifamily lot. Can the Village confirm whether a current stormwater capacity analysis specific to this layout has been submitted, and whether it has been reviewed by Dane County Land & Water Resources, which I understand reviews stormwater matters on the Village's behalf?

4. Lot size compliance. The property's current zoning is R-L, with a 10,000 sq ft minimum lot size. A number of lots shown on the preliminary plat fall well below that minimum. Can staff confirm whether the preliminary plat as submitted complies with the zoning currently in effect on the property?

Thank you for including this in the record. Please let me know if any clarification would help.

Greg Hellmich
313 Oriole Lane

Outlook

Subject: Arnett's Addition to Summer Prairie – Please Keep it R-L

From Lisa Haag [redacted]
Date Wed 9/16/2026 8:25 PM
To Kristin Blackwood <kblackwood@cambridgewi.gov>
Cc Brian Wilson <BWilson@cambridgewi.gov>; Kris Breunig <KrisBreunig@cambridgewi.gov>; Lisa Haag [redacted]

You don't often get email from [redacted]. Learn why this is important

September 16, 2026

Dear Trustee Kristin,

My family and I live at 310 Oriole Lane in Summer Prairie. I'm writing to ask you to vote **NO** on rezoning the land behind our neighborhood (Arnett's Addition) from R-L to R-M and R-H.

The land is already zoned R-L for single-family homes, so it can be developed without a rezone. ***Current R-L zoning requires lots of at least 10,000 square feet***, but the proposed plat has lots as small as 7,745 square feet. We chose Summer Prairie because of its single-family lots and quiet streets, and this plan would put much smaller lots and ***more traffic*** within the subdivision and safety is a concern for all the children.

The Village's own 2045 Comprehensive Plan says a future land use designation does not require the Village to approve a rezoning, and that a development's effect on adjacent properties must be considered. ***I'd also ask that questions about who pays for flushing and maintaining the new grinder pump sewer be answered in writing before any vote.***

Mr. Wilson, please include this letter in the public record and packet for any Plan Commission or Village Board meeting where Arnett's Addition or its rezoning is considered.

Thank you for your time and your service to the Village.

Lisa Haag
cell: [redacted]
email: [redacted]

Outlook

Highland Prairie Development Discussion During 9/22 Board Meeting

From Joe Schulz [redacted]
Date Mon 9/21/2026 6:41 AM
To Brian Wilson <BWilson@cambridgewi.gov>; Kris Breunig <KrisBreunig@cambridgewi.gov>

Brian/Kris,

I am out of town for work this week, so I will be unable to attend the Village Board Meeting on 9/22. However, I wanted my comments about the Highland Prairie development, proposed by the developer AJ Arnett, noted.

I understand the Plan-commissioning board "tentatively" approved his plans as long as he changed some of the homes at R-L, but others were allowed to stay as R-M and R-L. I disagree with this recommendation/approval!

The developer, AJ Arnett, purchased this land knowing it was zoned as R-L and that is how the property should stay. Period!!!
He is yet to propose any layout that meets current zoning.

He's made the comment that the project "isn't financially viable" if he doesn't put the full 50 houses in the development as proposed in his R-M/R-H layout. I truly believe the developer is just trying to maximize his profits, as any smart business person would, so I can't blame him for that. The Planning Commission board already saved him ~$1M by allowing him to use grinder pumps instead of putting in a lift station because he said adding the lift station would cost too much and he would loose money on the project. So right there, that is an extra ~$1M in his pocket!

If there is a financial hardship with building to meet the current zoning, then it is not our towns job to help him dig out of his poor financial decision. He should have made sure the project was financially justified before he purchased the property.

All the developer is going to do is build this development in our town, cash his check, and be on his way to the next project. This town, and more specifically, the people living around, and in, this development will be the ones dealing with the consequences for years to come. The Panning Commission Board, and our Village Board needs to remember that they need to keep what's best for it's residents in mind. Not what is best or makes the most money for the developer!

Thank you for your time,

Joe Schulz
341 Waverly Dr, Cambridge

Outlook

For the record – Sept 22 Village Board, item 12a, Arnett's Addition preliminary plat

From Greg Hellmich [redacted]
Date Sat 9/19/2026 5:43 PM
To Brian Wilson <BWilson@cambridgewi.gov>; Kris Breunig <KrisBreunig@cambridgewi.gov>

Mr. Wilson and Mr. Breunig,

Could you please include this with the packet or minutes for Tuesday's Village Board meeting, item 12a, the Arnett's Addition to Summer Prairie preliminary plat? Thank you.

To the Village Board:

I want to thank the Plan Commission for the conditions it added on September 14, especially condition 8, which keeps the lots behind Oriole Lane at R-L size, condition 5, which ties the final plat to the rezoning decision, and condition 9, the Highland Drive sidewalk. I'd respectfully ask the Board to keep those conditions as the Plan Commission recommended them.

I'd also ask the Board to consider two small additions:

1. Palmer Meadows, on the same agenda, requires the HOA documents to be approved by the Village Attorney before the plat is signed, and a maintenance agreement that runs with the land. Since Arnett's condition 2a assigns sewer flushing costs to the "developer or HOA," it would make sense to hold it to the same standard.

2. The staff report noted that the Plan Commission needed to decide whether a Comprehensive Plan amendment is required for the lots along Highland Drive, which the Future Land Use Map shows as parks and open space. I wasn't able to find that decision in the packet, and I'd appreciate knowing how it was resolved.

Thank you for your time and your service to the Village.

Greg Hellmich
313 Oriole Lane

Outlook

Arnett Land Project

From MELISSA Mitchell [redacted]
Date Mon 9/21/2026 10:07 AM
To Brian Wilson <BWilson@cambridgewi.gov>
Cc Kris Breunig <KrisBreunig@cambridgewi.gov>

Members of the Village Board,

I live on Oriole Lane, and when we chose our home, one of the things that mattered to us was the overall look and character of the neighborhood. We want to see our neighborhood continue to maintain that character and protect the value of the homes within it. With that in mind, I respectfully ask that the Plan Commission's recommended conditions remain in place, particularly the condition keeping the lots behind Oriole Lane at the R-L size. I believe this is important to maintaining the consistency and character of our neighborhood.

Thank you for you time and consideration,

Melissa Mitchell

Oriole Lane Homeowner

Outlook

Summer Prairie Phase 2

From Janelle Grunwald [redacted]
Date Mon 9/21/2026 11:07 AM
To Brian Wilson <BWilson@cambridgewi.gov>
Cc Kris Breunig <KrisBreunig@cambridgewi.gov>

You don't often get email from [redacted] Learn why this is important

Good morning,

I am unable to attend Tuesday night's meeting due to prior obligations. However, I want to ask you to please keep the Plan Commission's conditions to developer Arnett as you recently recommended. I believe your stipulations greatly improve the plan, especially the one keeping the lots behind Oriole Lane plotted at residential low density size to match the current neighborhood.

Thank you for your time and consideration. Please add this to the record so all members can see.

Thanks,
Janelle Grunwald

Outlook

Summer Prairie

From Sarah Schulz [redacted]
Date Mon 9/21/2026 11:36 AM
To Brian Wilson <BWilson@cambridgewi.gov>

Hi Brian,

Could you please include the below message in the packet for tomorrow's meeting?

Thank you,
Sarah

Hello Village of Cambridge Trustees,

I understand you will be voting on Arnett's preliminary plat for Summer Prairie on Sept. 22. Although plan commission very slightly reduced the number of lots (by a couple?), I don't believe that is enough.

In order to keep Summer Prairie's charm and safety, the standards for this new development should be kept the same as current homes. Putting as many cookie-cutter houses as possible next to this community will create discontenuity. Adding 50 homes will increase traffic by 100+ cars in this small area, creating chaos for the families who already live here. We moved here for the safety and beauty of this neighborhood. Please do not disrupt these qualities to appease a developer. Your responsibility is to the citizens of Cambridge. Our homes will become less valuable, and our kids will be less safe playing outside with that much extra traffic.

Please do not allow a developer to change zoning and other standards for his own benefit. Please vote to keep the standards the same to benefit the Cambridge residents who already live and pay taxes here.

Respectfully,
Sarah Schulz
341 Waverly Dr.

Outlook

Arnett Land Project

From Matthew Mitchell [redacted]
Date Mon 9/21/2026 12:33 PM
To Brian Wilson <BWilson@cambridgewi.gov>
Cc Kris Breunig <KrisBreunig@cambridgewi.gov>; K Breunig <kbreunig@ci.cambridge.wi.us>

You don't often get email from [redacted] Learn why this is important

Members of the Village Board,

I live on Oriole Lane. When we chose to move to Cambridge one of the things that mattered to us was the overall quality and character of the neighborhood. We would love to see our neighborhood grow. However, it needs to be the same standards that Summer Prairie planned for from day 1. With that in mind, I respectfully ask the Plan Commission to only approve housing that meet's the original requirements of Summer Prairie and is at least equal to the quality of homes that already exist. I believe this is important to maintain the consistency and character of our village and neighborhood.

Thank you for your time and consideration,

Matthew Mitchell

Oriole Lane Homeowner

Outlook

Lots at Oriole Lane

From Lindsey Jelle [redacted]
Date Tue 9/22/2026 6:17 AM
To Brian Wilson <BWilson@cambridgewi.gov>; kris.bruenig@cambridgewi.gov <kris.bruenig@cambridgewi.gov>

You don't often get email from [redacted] Learn why this is important

Good morning,

We are emailing in regarding the lots behind Oriole Lane. Please keep the Plan Commission's conditions as recommended, especially the one keeping the lots behind Oriole Lane at R-L size. Our neighbors bought there for the R-L lots. The new lots behind them should match theirs. Additionally, please keep the Highland Drive sidewalk in the conditions. Kids walk that road.

Thank you!

Lindsey & Ryan Jelle
810 Chickadee Dr

Outlook

Summer Prairie Final Phase Proposal

From Bob B [redacted]
Date Tue 9/22/2026 9:25 AM
To Brian Wilson <BWilson@cambridgewi.gov>
Cc Kris Breunig <KrisBreunig@cambridgewi.gov>

Hi Brian,

Last night, I read an article on HNG News online about the preliminary plan for the final phase of the Summer Prairie development. As a resident of Chickadee Drive, I'm concerned about the developer wanting to change the zoning to add high density lots. I am not against developing this area, but I feel strongly that the lots should be maintained at 10,000+ square feet to fit the current design of the neighborhood.

Thank you for your consideration.

Sincerely,
Bob Buckman
806 Chickadee Drive

Outlook

Summer Prairie

From Laura Kalvestran [redacted]
Date Tue 9/22/2026 2:07 PM
To Brian Wilson <BWilson@cambridgewi.gov>; Kris Breunig <KrisBreunig@cambridgewi.gov>

You don't often get email from [redacted] Learn why this is important

Hello Brian and Kris,

With the Village Board voting this evening, I wanted to reach out to both of you and share a few concerns and questions regarding the proposed Summer Prairie development. We ask that this please be shared with the board before tonight's meeting.

Our primary concern is the extent to which the current proposal appears to differ from the original development and layout of the surrounding neighborhood. The existing area was developed with larger R-L lots, lower density, and infrastructure intended to support that type of residential use. The proposed development seems to allow for several adjustments to accommodate a level of density that was not originally contemplated for this area.

With that in mind, I would appreciate your consideration of the following:

1. Given the existing character and original design of the neighborhood, will the Village Board maintain the Plan Commission's recommended conditions, particularly the R-L-sized lots behind Oriole Lane and the Highland Drive sidewalk? We believe these conditions are important to providing an appropriate transition between the existing neighborhood and the proposed development, while also addressing pedestrian and safety concerns along Highland Drive.

2. Before approving the additional density, has the Village fully considered whether the Highland Drive lots require a Comprehensive Plan amendment and whether the proposed sewer system is permitted and appropriate for this type and density of development? More broadly, we are concerned about making multiple changes to zoning, lot sizes, infrastructure, and the original planning expectations in order to accommodate a development that is materially different from what this area was initially intended to support.

We understand that properties develop and communities evolve, but we hope the Board will carefully consider the impact of these changes on the existing neighborhood and preserve the conditions recommended by the Plan Commission that help provide an appropriate balance between the proposed development and the community that is already established here.

Thank you for taking the time to consider our concerns before this evening's meeting.

Josh and Laura Nelson
Oriole Lane

MINUTES

VILLAGE BOARD OF TRUSTEES
AMUNDSON COMMUNITY CENTER
200 SPRING ST., CAMBRIDGE, WI 53523
TUESDAY, SEPTEMBER 8, 2026, 6:30 PM

1. **CALL TO ORDER:** President Hollenbeck called the meeting to order at 6:31 p.m.
2. **PLEDGE OF ALLEGIANCE:** Trustees led the pledge.
3. **ROLL CALL:** Members Present – President Hollenbeck, Trustee Blackwood, Trustee Busch, Trustee Jacobson, Trustee Jankowski, Trustee Sands, and Trustee Trendel.

   Members Absent – None.

   Others Present – Tom Safer, Richard Scott, Heather Franklin, Abigail Karbusicky, Lead Cable Operator Melissa Murack, and Clerk/Treasurer Brian Wilson.
4. **PROOF OF POSTING:** Confirmed - Upper and Lower levels of the Amundson Center, Cambridge Post Office, Badger Bank, Bank First, and the Village website.
5. **PUBLIC COMMENT (LIMIT OF 3 MINUTES PER PERSON):**

   Richard Scott (15 Dilemma Rd.) commented that parking spaces at STH 12 and Spring St. should be removed as proposed previously to the Village Board.

   Mikayla Groonwald (809 Chickadee Dr.) questioned a rezoning application for parcel number 111/0612-123-4780-1, in relation to the Summer Prairie Preliminary Plat Re-Zone application. She wanted to know if an application had been received. It was later clarified that as of two weeks prior, no rezoning application for Summer Prairie had been received.
6. **APPROVAL OF MINUTES:**

   a. Approval of Village Board Minutes for August 25, 2026.

   Trustee Sands moved to approve the Minutes for August 25, 2026. Second by Trustee Trendel. Motion carried by voice vote.
7. **APPROVAL OF BILLS:**

   Motion by Trustee Blackwood to approve bills totaling $79,890.81. Second by Trustee Sands. Motion carried on a roll call vote 7-0.

   Yes – President Hollenbeck, Trustee Blackwood, Trustee Busch, Trustee Jacobson, Trustee Jankowski, Trustee Sands, and Trustee Trendel

   No – None
8. **COMMITTEE REPORTS:**

   a. Fire and EMS Commission – Trustee Blackwood
      - The Intergovernmental Agreement (IGA) draft is now before the municipalities.
      - Preliminary budget work has started, with the goal of presenting it at September meetings.
      - The new fire chief will be invited to speak in September.

DRAFT

9. VILLAGE ADMINISTRATOR'S REPORT:

Clerk/Treasurer Wilson gave the Administrator's report.

- Project updates:
  - Complete: 2026 Road Maintenance, Frontier Verizon 5G Fiber Project (minor cleanup remains), Hydrant Maintenance Project.
  - In Progress: Bike rack placement is being coordinated; a final plat for the Bilstad Development (7 houses) goes to the Plan Commission on September 14; the Koshkonong Creek Bridge Project is on track for a mid-October 2026 finish; preliminary sewer/water plans for the Vineyards Project (30 townhomes) are under review.
  - Delayed/At Risk: The Bulk Water Filling Station shipment is delayed until late October; federal funding for the Charge Up Dane Project (EV Charger) is in jeopardy.
  - Developer Updates: The Katie Court Development land will be sold due to a restrictive covenant; all approvals are in place for the Katy Court Duplexes (10 units), with groundbreaking expected in September.
- Update on Plow Liquor License Agreement: The agreement was signed by the licensee on September 2, 2026. Staff will monitor for compliance, including monthly reporting.
- Code Enforcement: The enforcement company has handled three issues: mowing overgrown weeds, cleaning up debris, and removing temporary signs. An update will be added to future agendas.

10. VILLAGE CLERK/TREASURER'S REPORT

Clerk/Treasurer Wilson reported as follows:

- Financial reports through August 2026 were provided. The general fund is ahead by about half a million dollars, though some revenues may need to be reallocated to TIF 4, 5, or 6.
- The budget process is being updated to better track revenues and costs for each TID.
- An issue with the "2% fire dues" line item was identified and has been corrected for future reports.
- A question about miscellaneous accounts receivable in the cable fund (Fund 920) was clarified; it includes expected but uncollected video service provider fees from Oakland and the state.
- A discussion on accounting terms clarified that "loss on sale" is a software label for enterprise funds, and "deferred inflows related to pension" is tied to payroll and WRS liabilities, not capital gains. The exact source of the deferred inflow entry requires further system-level review.
- Preference was stated for future budgets to be broken down by fund with separate pages for improved granularity.

11. OLD BUSINESS – NONE

12. NEW BUSINESS – ACTION REQUIRED:

Motion by President Hollenbeck to move Item c. up in the agenda to discuss first. Second by Trustee Blackwood. Motion carried on voice vote.

c. Discussion and Approval of Resolution 2026-14 Granting a Class "B" Beer and "Class C" Liquor (Wine Only) License

Village Boad discussed an application by Heather Franklin for a Class "B" Beer and "Class C" (Wine Only) liquor license.

Motion by Trustee Blackwood to approve Resolution 2026-14 Granting a Class "B" Beer and "Class C" Liquor (Wine Only) License. Second by Trustee Jankowski. Motion carried on a roll call vote 7-0.

Yes – President Hollenbeck, Trustee Blackwood, Trustee Busch, Trustee Jacobson, Trustee Jankowski, Trustee Sands, and Trustee Trendel

No – None

DRAFT

a. Discussion and Possible Action on of Fire and EMS Intergovernmental Agreement for 2027

Trustee Blackwood discussed changes in this new IGA for 2027:

- Key Changes:
  - The Town of Lake Mills was removed from the language with an option to rescind by year-end.
  - Financial controls were updated to require two signatures for disbursements.
  - The Commission remains three voting members with an option for an elected alternate from each member community and vacancies must be filled within 30 days.
  - Minutes must be available within 10 days.
- Audit Process: The commission pays the initial audit cost, with a withdrawing municipality reimbursing it.
- Next Steps: Long-term agreement work will begin in November 2026.

b. Discussion and Approval of Resolution 2026-13 Approving Amendment and Restatement of Joint Fire and Emergency Medical Services Agreement Dated August, 2018

Motion by President Hollenbeck to approve Resolution 2026-13 Approving Amendment and Restatement of Joint Fire and Emergency Medical Services Agreement Dated August, 2018. Second by Trustee Jacobson. Motion carried on a roll call vote 7-0.

Yes – President Hollenbeck, Trustee Blackwood, Trustee Busch, Trustee Jacobson, Trustee Jankowski, Trustee Sands, and Trustee Trendel

No – None

13. FUTURE AGENDA ITEMS:

a. Discussion and Possible Action on a referral from the Public Works Committee to consider the removal of parking spaces from the intersection of HWY 12 and Spring Street

b. Discussion on E-bike and E-scooter ordinances

c. Election Security Sub-grant

d. Fire Chief to speak at next meeting

e. Budget for Fire and EMS

f. Dane County Sheriff's Contract

g. Approve Personnel Policy Manual

14. PUBLIC COMMENT (LIMIT OF 3 MINUTES PER PERSON):

- Mikayla Groonwald (809 Chickadee Dr.) questioned two general fund line items significantly over budget:
  - Fire Department "2% fire dues": Budgeted at ~$13,000, with spending at $147,000.
  - Contracted services: Budgeted at $17,500, with spending at $50,000.

15. NEXT MEETING DATES:

a. Economic Development Committee – Tuesday, September 1, 2026, at 4:30 p.m.

b. Village Board – Tuesday, September 8, 2026, at 6:30 p.m.

c. Library Board of Trustees – Wednesday, September 9, 2026, at 6:30 p.m.

d. Plan Commission – Monday, September 14, 2026, at 6:30 p.m.

e. Water and Sewer Committee – Tuesday, September 15, 2026, at 6:30 p.m.

f. Village Board – Tuesday, September 22, 2026, at 6:30 p.m.

16. CLOSED SESSION

The Village Board will convene into Closed Session pursuant to **Wis. Stat. §19.85(1)(g)** for conferring with legal counsel for the governmental body who is rendering oral or written advice concerning strategy to be adopted by the body with respect to litigation in which it is or is likely to become involved: **discuss proposed dissolution of Cambridge-Oakland Cable Commission by the Town of Oakland, and**

DRAFT

the Village Board will convene into Closed Session pursuant to **Wis. Stat. §19.85(1)(e)** for deliberating or negotiating the purchasing of public properties, the investing of public funds, or conducting other specified public business, whenever competitive or bargaining reasons require a closed session: **discuss advertising, marketing, and pricing strategies for the Melster's land.**

Motion by Trustee Busch to convene into Closed Session pursuant to Wis. Stat. $19.85(1)(g) and Wis. Stat. §19.85(1)(e). Second by Trustee Jankowski. Motion carried by roll call vote 7-0.

Yes – President Hollenbeck, Trustee Blackwood, Trustee Busch, Trustee Jacobson, Trustee Janksowski, Trustee Sands, and Trustee Trendel

No – None

Village Board convened into Closed Session at 8:50 p.m.

17. RECONVENE TO OPEN SESSION

Motion by Trustee Sands to Reconvene to Open Session. Second by Trustee Trendel. Motion carried by unanimous voice vote.

Village Board reconvened to Open Session at 8:06 p.m.

18. POSSIBLE ACTION TAKEN ON CLOSED SESSION ITEMS

No formal action was taken on items discussed in Closed Session.

19. ADJOURNMENT

Trustee Busch made a motion to adjourn. Second by Trustee Janksowski. Motion carried by voice vote.

Meeting adjourned at 8:07 p.m.

Respectfully submitted by Brian Wilson, Clerk/Treasurer, Village of Cambridge

These minutes are not official until by the Village Board of Trustees.

DRAFT

VILLAGE OF CAMBRIDGE – VILLAGE BOARD OF TRUSTEES
BILLS APPROVAL – ***09/22/2026***

APPROVAL OF BILLS TOTALING $ 60,556.85

President Hollenbeck	Trustee Blackwood
Trustee Busch	Trustee Jacobson
Trustee Jankowski	Trustee Sands
Trustee Trendel	

Highlights: Current Bills over $5,000

Village of Deerfield - Police Wages and Police Fuel	$ 21,536.53
Associated Bank - Interest on Bond 2014A	$ 14,940.00
Associated Bank - Interest on Bond 2019A	$ 5,250.00
	$
	$
	$
	$
	$

Check Run Totals:

Bills over $5000 ----------→	$ **41,726.53**
Bills under $5000 ----------→	$ **18,830.32**
Total All Bills For Check Run:	**$ 60,556.85**

Payroll Dated **09/17/2026** **$** **27,649.38**

Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

Voucher Nbr	Check Date	Payee			Amount
	9/22/2026	BRUCE COMPANY			
	FOUNTAIN PARK IRRIGATION SERVICE				
100-00-55200-245-000	FOUNTAIN MAINTENANCE				169.95
	FOUNTAIN PARK IRRIGATION SERVICE		SI00183039 8/26/2026		
				Total	169.95
	9/22/2026	BUSCH, BETSY			
	MILE-WEDC ROUND TABLE MEETING-STOUGHTON				
100-00-51440-390-000	ELECTIONS - SUPPLY & EXPENSE				30.78
	MILE-WEDC ROUND TABLE MEETING-STOUGHTON		9/15/2026		
100-00-51440-390-000	ELECTIONS - SUPPLY & EXPENSE				10.03
	MILEAG- GRANT MEETING W/RICH - DEERFIELD		9/16/2026		
				Total	40.81
	9/22/2026	C & M HYDRAULIC TOOL SUPPLY INC.			
	STRING TRIMMER LINE				
100-00-55200-390-000	PARK/PLAYGROUND SUPPLIES				25.99
	STRING TRIMMER LINE		0185553-IN		
				Total	25.99
	9/22/2026	CAMBRIDGE WATER & SEWER UTILITY			
	LIBRARY - WATER & SEWER BILL AUG				
150-00-55110-220-000	LIB - UTILITIES				180.71
	LIBRARY - WATER & SEWER BILL AUG		040002600 9/4/2026		
				Total	180.71
	9/22/2026	CAMBRIDGE WATER & SEWER UTILITY			
	ACCT#040-0024-00 AMUNDSON WATER & SEWER				
100-00-51600-220-000	MUN BLDG - UTILITIES				413.69
	ACCT#040-0024-00 AMUNDSON WATER & SEWER		9/4/2026		
100-00-53311-220-000	PUBLIC WORKS - UTILITY & PHONE				181.47
	ACCT#040-0023-00 200 W NORTH ST		9/4/2026		
				Total	595.16
	9/22/2026	CHARTER COMMUNICATIONS/SPECTRUM			
	170805901				
100-00-52100-310-000	POLICE - INTERNET				55.01
	170805901		170805901090726 9/7/2026		
100-00-51420-221-000	ADMIN - TELEPHONE/INTERNET				55.00
	170805901		170805901090726 9/7/2026		

Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

Voucher Nbr	Check Date	Payee		Amount
500-00-53700-681-200		TELEPHONE/INTERNET EXPENSE		54.99
170805901			170805901090726 9/7/2026	
600-00-53700-851-400		TELEPHONE/INTERNET EXPENSE		54.99
170805901			170805901090726 9/7/2026	
			Total	219.99

9/22/2026 CHARTER COMMUNICATIONS/SPECTRUM
#170804901

100-00-53311-220-000	PUBLIC WORKS - UTILITY & PHONE		88.65
#170804901		170804901091426 9/14/2026	
500-00-53700-681-200	TELEPHONE/INTERNET EXPENSE		44.33
#170804901		170804901091426 9/14/2026	
600-00-53700-851-400	TELEPHONE/INTERNET EXPENSE		44.32
#170804901		170804901091426 9/14/26	
		Total	177.30

9/22/2026 FIRSTNET
ACCT# 287361609660 COURT CELL

100-00-51200-390-000	COURT - SUPPLY & EXPENSE		28.78
ACCT# 287361609660 COURT CELL		287361609660X09062026	
100-00-52100-390-000	POLICE - PHONES & SUPPLIES		115.12
ACCT# 287361609660 POLICE CELLS		287361609660X09062026	
		Total	143.90

9/22/2026 FIRSTNET
ACCT# 287361608264 DPW CELL PHONES

100-00-53311-220-000	PUBLIC WORKS - UTILITY & PHONE		118.35
ACCT# 287361608264 DPW CELL PHONES		287361608264X09062026	
100-00-51420-221-000	ADMIN - TELEPHONE/INTERNET		62.20
ACCT# 287361608264 ADMIN CELL PHONES		287361608264X09062026	
500-00-53700-681-200	TELEPHONE/INTERNET EXPENSE		45.50
ACCT# 287361608264 WATER CELL PHONES		287361608264X09062026	
600-00-53700-851-400	TELEPHONE/INTERNET EXPENSE		29.92
ACCT# 287361608264 SEWER CELL PHONES		287361608264X09062026	
		Total	255.97

9/22/2026 MC FARLANE, BRYAN
08/29 - 9/10/2026 LIBRARY CLEANING

1605

Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

Voucher Nbr	Check Date	Payee			Amount
150-00-55110-240-000	LIB BUILDING MAINT & REPAIR				300.00
08/29 - 9/10/2026	LIBRARY CLEANING	9/10/2026			
				Total	300.00
	9/22/2026	NAPA AUTO PARTS			
BATTERIES FOR CROSSWALK FLASHING SIGN					
100-00-53311-371-000	PUBLIC WORKS - STREET SIGNS				129.16
BATTERIES FOR CROSSWALK FLASHING SIGN		790003 8/26/2026			
				Total	129.16
	9/22/2026	REFUEL PANTRY			
PUBLIC WORKS FUEL AUG 2026					
100-00-53311-370-000	PUBLIC WORKS - FUEL				721.33
PUBLIC WORKS FUEL AUG 2026		2090 9/09/2026			
500-00-53700-660-000	VEHICLE/FUEL EXPENSES				182.83
WATE & SEWER FUEL AUG 2026		2090 9/09/2026			
				Total	904.16
	9/22/2026	RUSSELL LAW OFFICES, SC			
COURT LEGAL SVCS - C MOULD					
100-00-51200-399-000	COURT LEGAL WORK				69.00
COURT LEGAL SVCS - C MOULD		37650 8/27/2026			
				Total	69.00
	9/22/2026	VILLAGE OF DEERFIELD			
POLICE WAGES 07/26-8/22/26 PP 17 & 18					
100-00-52100-290-000	Dane County Sheriffs Contract				20,399.31
POLICE WAGES 07/26-8/22/26 PP 17 & 18		3062 9/09/2026			
100-00-52100-370-000	POLICE - SQUAD GAS/OIL				1,137.22
POLICE FUEL - AUGUST 2026		3063 9/14/2026			
				Total	21,536.53
				Grand Total	24,748.63

Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

	Amount
Total Expenditure from Fund # 100 - VILLAGE GENERAL FUND	23,811.04
Total Expenditure from Fund # 150 - LIBRARY FUND	480.71
Total Expenditure from Fund # 500 - WATER UTILITY	327.65
Total Expenditure from Fund # 600 - SEWER UTILITY	129.23
Total Expenditure from all Funds	24,748.63



Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

Voucher Nbr	Check Date	Payee		Amount
	9/22/2026	ALLIANT ENERGY/WP&L		
	#0725963772 - WELL #2			
500-00-53700-620-000		POWER PURCHASED FOR PUMPING		938.61
	#0725963772 - WELL #2		0725963772 9/14/2026	
			Total	938.61
	9/22/2026	ALLIANT ENERGY/WP&L		
	#3712920000 134 WTR TOWER			
500-00-53700-620-000		POWER PURCHASED FOR PUMPING		63.40
	#3712920000 134 WTR TOWER		371292 09/15/2026	
600-00-53700-821-000		POWER PURCHASED FOR PUMPING		140.05
	#0144220000 12 & 18 LIFT STATION		14422 9/15/2026	
600-00-53700-821-000		POWER PURCHASED FOR PUMPING		622.11
	#3994420000 300 WATER ST PUMP HOUSE		3994420000 6/15/2026	
500-00-53700-620-000		POWER PURCHASED FOR PUMPING		926.15
	#1762800000 SKOGEN RD WELL#3		17628 9/15/2026	
500-00-53700-620-000		POWER PURCHASED FOR PUMPING		635.14
	W MADISON ST WELL 2		3967610000 9/17/2026	
			Total	2,386.85
	9/22/2026	ALLIANT ENERGY/WP&L		
	#370181			
100-00-51600-220-000		MUN BLDG - UTILITIES		1,071.83
	#370181		9/15/2026	
100-00-53420-000-000		STREET LIGHTS		39.32
	#1611869258		9/15/2026	
100-00-53420-000-000		STREET LIGHTS		41.56
	#252381		9/15/2026	
100-00-53311-220-000		PUBLIC WORKS - UTILITY & PHONE		192.51
	#0347153 PW GARAGE NORTH ST		0341530000 9/15/2026	
100-00-53420-000-000		STREET LIGHTS		25.88
	#543106		9/15/2026	
100-00-55200-220-000		PARK UTILITIES		50.67
	#0335194619		9/15/2026	
100-00-55200-220-000		PARK UTILITIES		31.34
	#6959100000 VETERANS PARK		9/15/2026	
100-00-53420-000-000		STREET LIGHTS		52.61
	#5706050000		9/15/2026	

Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

Voucher Nbr	Check Date	Payee			Amount
100-00-53420-000-000		STREET LIGHTS			81.88
		#5122342434 HWY 12/18 & 138 TRAFFIC LTS	9/16/2026		
100-00-53311-220-000		PUBLIC WORKS - UTILITY & PHONE			29.85
		#5613463308 150 LAGOON RD SHED	9/16/2026		
100-00-53420-000-000		STREET LIGHTS			28.25
		#9380220000	9/15/2026		
100-00-53420-000-000		STREET LIGHTS			6.00
		#4803810000 WHEATLAND STREET LIGHT	9/15/2026		
100-00-53420-000-000		STREET LIGHTS			78.23
		#9380220000 MAIN ST BRIDGE LIGHTS	9/15/2026		
				Total	1,729.93

9/22/2026 ASSOCIATED BANK GREEN BAY
BONDS SERIES 2014A DATED 7/17/2014 - INT

110-00-58200-000-000		INTEREST LONG TERM DEBT			14,940.00
		BONDS SERIES 2014A DATED 7/17/2014 - INT 132-205 99G100003			
				Total	14,940.00

9/22/2026 ASSOCIATED BANK GREEN BAY
BOND SERIES 2019A DATED 9/12/2019 - INT

110-00-58200-620-000		INTEREST - G.O. BOND 9-12-2019			5,250.00
		BOND SERIES 2019A DATED 9/12/2019 - INT 132-208 99G100003			
				Total	5,250.00

9/22/2026 ASSOCIATED BANK GREEN BAY
WATER SYS REV REFUND BONDS DATED 5/19/15

500-00-53700-427-000		LT DEBT - INTEREST			4,120.00
		WATER SYS REV REFUND BONDS DATED 5/19/15 2015A 09/18/2026			
				Total	4,120.00

9/22/2026 BIRD CITY WISCONSIN
BCW SIGN AND FLAG PURCHASE

100-00-53311-390-000		PUBLIC WORKS - MISC			240.00
		BCW SIGN AND FLAG PURCHASE	9/21/2026		
				Total	240.00

9/22/2026 CHARTER COMMUNICATIONS/SPECTRUM
170806001 ADMIN INTERNET SVC

100-00-51420-221-000		ADMIN - TELEPHONE/INTERNET			66.32
		170806001 ADMIN INTERNET SVC	170806001091426 9/14/2026		

Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

Voucher Nbr	Check Date	Payee			Amount
100-00-52100-390-000		POLICE - PHONES & SUPPLIES			66.31
170806001		POLICE INTERNET SVC	170806001091426	9/14/2026	
500-00-53700-681-200		TELEPHONE/INTERNET EXPENSE			33.15
170806001		WATER INTERNET	170806001091426	9/14/2026	
600-00-53700-851-400		TELEPHONE/INTERNET EXPENSE			33.15
170806001		SEWER INTERNET	170806001091426	9/14/2026	
				Total	198.93

9/22/2026 ELAN FINANCIAL SERVICES - VISA
BEAR GRAPHICS -BAGS, CERT ENVELOPES

100-00-51440-390-000		ELECTIONS - SUPPLY & EXPENSE			361.34
		BEAR GRAPHICS -BAGS, CERT ENVELOPES		9/02/2026	
100-00-51440-390-000		ELECTIONS - SUPPLY & EXPENSE			30.21
		SP ELECTIONSOURCE - THERMAL PAPER ROLLS		9/02/2026	
100-00-53311-230-000		PUBLIC WORKS - TREE & BRUSH			392.99
		GEMPLERS - TELESCOPING POLE SAW		9/1/2026	
100-00-53311-230-000		PUBLIC WORKS - TREE & BRUSH			109.42
		FORESTRY SUPPLIER-TAPE - TREE DIAMETER		9/2/2026	
100-00-51990-000-000		SUNDRY EXPENSES			123.66
		LATE FEES - DIDN'T RECEIVE STATEMENT		9/10/2026	
				Total	1,017.62

9/22/2026 ELAN FINANCIAL SERVICES - VISA
MAPPING SPECIALISTS- LG MAP OF CAMBRIDGE

100-00-51610-000-000		MUNICIPAL BLDG - OTHER			140.00
		MAPPING SPECIALISTS- LG MAP OF CAMBRIDGE		7/28/2026	
500-00-53700-689-000		MISCELLANEOUS EXPENSES			50.00
		SWEET SCOOPS - GIFT CERTIFICATE PSN #300		7/29/2026	
100-00-51440-390-000		ELECTIONS - SUPPLY & EXPENSE			277.54
		PIGGLY WIGGLY - FOOD FOR POLL WORKERS		8/11/2026	
100-00-51440-390-000		ELECTIONS - SUPPLY & EXPENSE			23.19
		KWIK TRIP - COFFEE FOR POLL WORKERS		8/11/2026	
100-00-53311-390-000		PUBLIC WORKS - MISC			210.98
		THEISENS - HIGH VISABLE RAIN JACKETS		7/24/2026	
100-00-51420-330-000		ADMIN TRAINING/MILEAGE			399.97
		MAD CITY LIMO - VILL HALL - WARNER PK		7/24/2026	
500-00-53700-681-500		STAFF TRAINING			199.98
		MAD CITY LIMO - VILL HALL - WARNER PK		7/24/2026	

Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

Voucher Nbr	Check Date	Payee			Amount
600-00-53700-851-100	STAFF TRAINING				199.98
MAD CITY LIMO - VILL HALL - WARNER PK	7/24/2026				
100-00-53311-390-000	PUBLIC WORKS - MISC				175.00
BIRD CITY WISCONSIN - APPLICATION	7/30/2026				
100-00-53311-230-000	PUBLIC WORKS - TREE & BRUSH				2,127.17
THEISEN'S - CHAIN SAWS, REPAIRS & PARTS	8/3/2026				
100-00-53311-350-000	PUBLIC WORKS - EQUIP/VEHIC REP				130.61
THEISEN'S -TRIMMER & BLOWER REPAIR/PARTS	8/03/2026				
500-00-53700-681-500	STAFF TRAINING				540.88
MORAINE TECH -GROUND WATER DIST-B PINNOW	8/10/2026				
100-00-51420-330-000	ADMIN TRAINING/MILEAGE				-353.04
CREDIT BALANCE -WI MUN MADISON REFUND	7/14/2026				
				Total	4,122.26 ✓

9/22/2026 MC FARLANE, BRYAN
9/5 - 9/18/2026 CLEAN AMUNDSON BLDG

100-00-51600-120-000	MUN BLDG - HOURLY WAGES				362.50
9/5 - 9/18/2026 CLEAN AMUNDSON BLDG	9/17/2026				
				Total	362.50 ✓

9/22/2026 PITNEY BOWES GLOBAL FINANCIAL SERVICES LLC
POSTAGE RENTAL COURT

100-00-51200-390-000	COURT - SUPPLY & EXPENSE				2.55
POSTAGE RENTAL COURT		3323232701	9/16/2026		
100-00-51420-311-000	ADMIN - POSTAGE				80.01
POSTAGE MACHINE RENTAL ADMIN		3323232701	9/16/2026		
100-00-52100-390-000	POLICE - PHONES & SUPPLIES				3.50
POSTAGE MACHINE RENATL POLICE		3323232701	9/16/2026		
150-00-55110-311-000	LIB - POSTAGE				3.50
POSTAGE MACHING RENTAL LIBRARY		3323232701	9/16/2026		
500-00-53700-640-000	SUPPLIES AND EXPENSES				43.48
POSTAGE MACHING RENTAL WATER		3323232701	9/16/2026		
600-00-53700-827-000	OPERATING SUPPLIES & EXPENSES				43.48
POSTAGE MACHINE RENTAL SEWER		3323232701	9/16/2026		
				Total	176.52 ✓

9/22/2026 STAFFORD ROSENBAUM LLP
LEGAL SVCS - GENERAL CORPORATE

✓

Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

Voucher Nbr	Check Date	Payee			Amount
100-00-51300-210-000		VILLAGE LEGAL WORK			125.00
LEGAL SVCS - GENERAL CORPORATE			216220	9/18/2026	
100-00-51300-210-000		VILLAGE LEGAL WORK			200.00
FIRE & EMS COMMISSION			216220	9/18/2026	
				Total	325.00
				Grand Total	35,808.22

Dated From: 9/22/2026 From Account:
Thru: 9/22/2026 Thru Account:

	Amount
Total Expenditure from Fund # 100 - VILLAGE GENERAL FUND	7,025.16
Total Expenditure from Fund # 110 - DEBT SERVICE FUND	20,190.00
Total Expenditure from Fund # 150 - LIBRARY FUND	3.50
Total Expenditure from Fund # 500 - WATER UTILITY	7,550.79
Total Expenditure from Fund # 600 - SEWER UTILITY	1,038.77
Total Expenditure from all Funds	35,808.22



VILLAGE OF CAMBRIDGE, WISCONSIN

PROCLAMATION

Honoring Fire Chief Joseph Evans Upon His Retirement

WHEREAS, Fire Chief Joseph Evans faithfully served the Village of Cambridge from December 2022 until his retirement on August 2, 2026, providing over three years of dedicated leadership and service; and

WHEREAS, Chief Evans secured a donation that covered the cost of refurbishing the department's tender, completing this important project at no cost to taxpayers; and

WHEREAS, Chief Evans led the design process for the department's new Squad 5 and new utility terrain vehicle (UTV), strengthening the equipment available to support emergency response and community service; and

WHEREAS, Chief Evans advocated for the fire department to become an Emergency Medical Responder service, advancing its ability to provide timely assistance to residents and visitors; and

WHEREAS, through his leadership, resourcefulness, and commitment to public safety, Chief Evans made a lasting contribution to the Cambridge Fire Department and the community it serves;

NOW, THEREFORE, BE IT PROCLAIMED, that the Village Board of the Village of Cambridge extends its sincere gratitude to Fire Chief Joeseph Evans for his service, recognizes his contributions to the safety and well-being of the community, and congratulates him upon his retirement.

BE IT FURTHER PROCLAIMED that the Village of Cambridge offers Chief Evans its best wishes for a rewarding and well-deserved retirement.

Adopted this 22nd day of September, 2026.

Village President

Village Clerk

MSA Memo

To:	Village of Cambridge Plan Commission
From:	MSA Planning Staff
Subject:	Arnett's Addition to Summer Prairie Preliminary Plat Staff Report
Date:	September 7th, 2026

Overview of Request

Highland Prairie LLC, through Andrew (AJ) Arnett, has submitted a preliminary plat for the remaining 22.9-acre parcel (Parcel No. 111/0612-123-4780-1) along Waverly Drive. The application proposes 50 residential lots and one 8.5-acre outlot under the name Arnett's Addition to Summer Prairie. The site is currently zoned R-L Low Density Residential. The applicant indicates that portions of the plat will require rezoning to R-M Medium Density Residential and R-H High Density Residential. **The rezone has not been submitted and will be reviewed with the Final Plat.**

A separate two-lot Certified Survey Map is being reviewed to create the first two homes along existing Waverly Drive. Those CSM lots are shown on the preliminary plat for context, but they are not included in the 50-lot preliminary plat application. Also, no rezone application has been submitted.



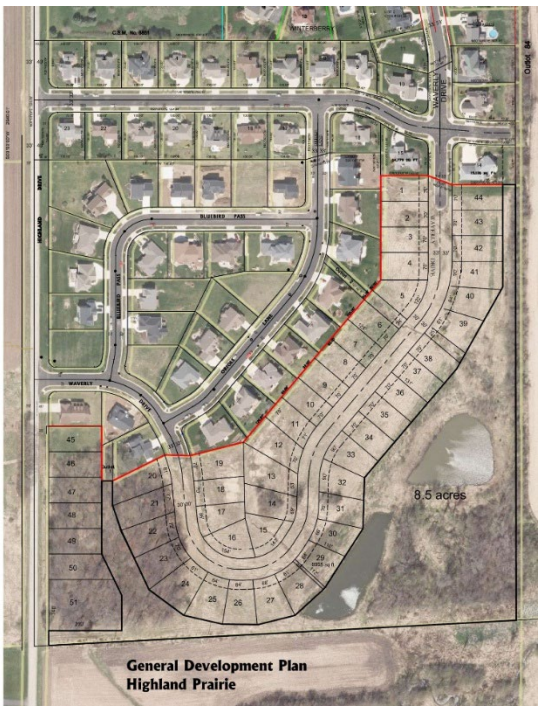
Background of the Request

Context for the Proposed Development

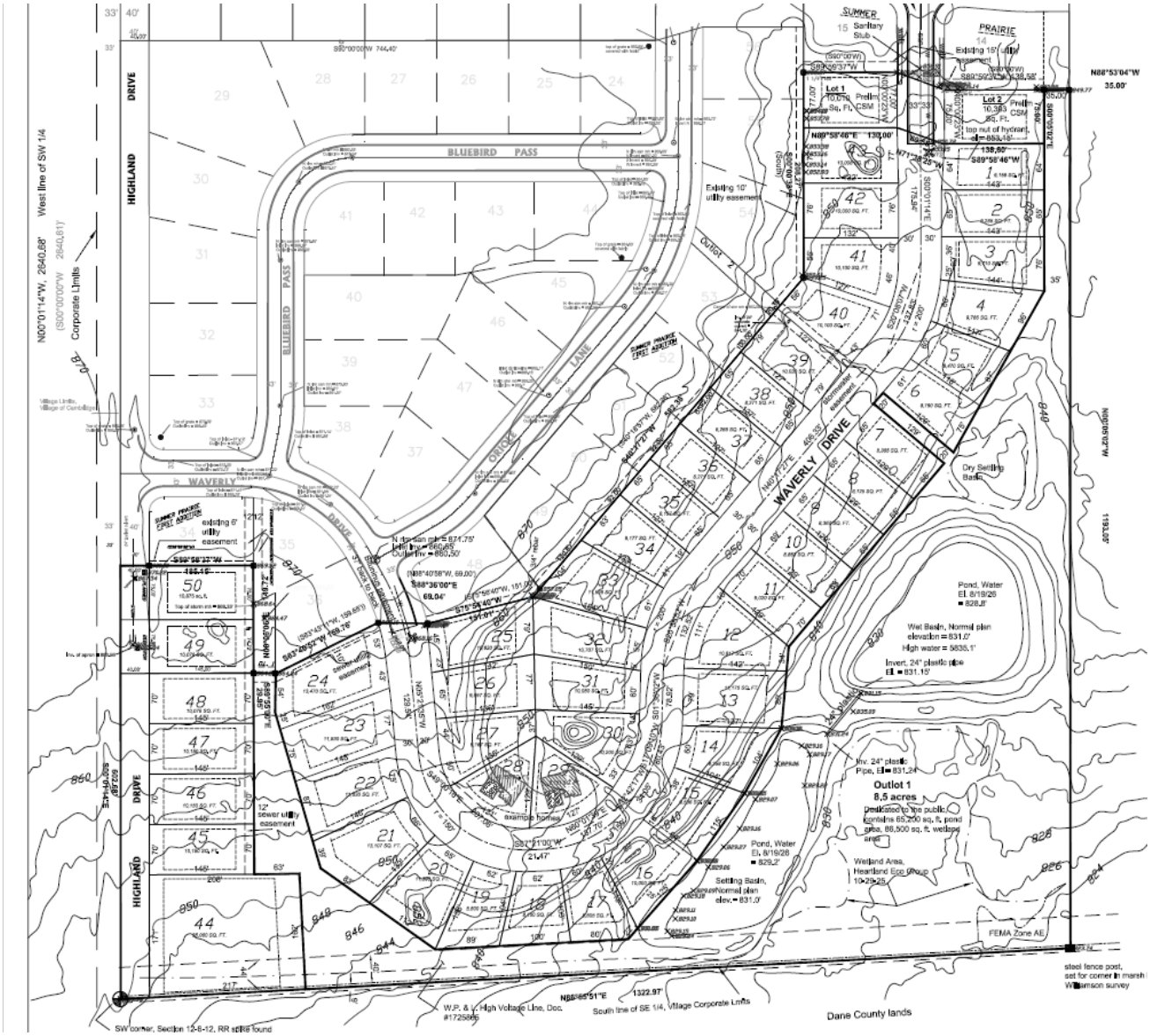
Summer Prairie is located in the southwest corner of the Village, along the western edge of Cambridge's existing residential development. Waverly Drive provides access north to West Water Street, which is also designated as County Highway PQ. The development has convenient access to the regional roadway network while relying primarily on existing local streets for access within the neighborhood. The subdivision has been developed in three phases with Phase 2 completed in 2005/2006.

This is the third and final phase of the neighborhood, which originally planned for 96 single-family homes (with 56 lots built in first two phases). The submitted preliminary plat for Phase 3, plus 2 lot CSM, increases the total lots by 12 with one lot potentially providing additional units in townhome format.

The preliminary plat, shown on the next page, includes 45 single-family lots along the looped Waverly Drive. Seven lots will be off of Highland Drive. Lot 44 is a larger parcel identified for future R-H zoning to include potentially townhome buildings. Per zoning requirements, the maximum units allowed on Lot 44 would be 13 units. The plat maintains an outlot in the southeast of quadrant of the plat preserve a wetland area and includes the stormwater management system installed to support previous phases, as well as the current phase.



Submitted Plans



The submitted materials include the preliminary plat; an overall grading plan dated August 20th, 2026; an overall utility plan dated July 17, 2026; and an E/One low-pressure sanitary sewer layout. The preliminary plat below shows the 50 proposed lots, new street right-of-way, easements, and Outlot 1.

Ordinance Requirements

General Overview of Proposal

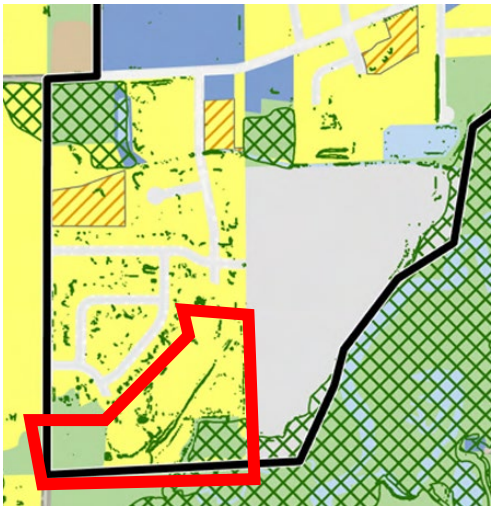
- Development area: 22.9 acres
- Preliminary plat: 50 residential lots and one 8.5-acre outlot
- Concurrent submittal: 2 residential lots created by CSM along Waverly Drive near Chickadee Dr. intersection
- Existing use: open property with stormwater basins
- Existing zoning: R-L Low Density Residential
- Intended zoning: a mix of residential districts - R-L (Lots 21-24, and 39-43), R-M (Lots 1-20 , 25-38 and 45-50), and R-H (Lot 44)

- Street system: a 60-foot public right-of-way extending Waverly Drive, with additional lots fronting existing Highland Drive (expanding right-of-way to match previous expansion in Phase 1 – 40 ft from centerline)
- Utilities: public water and a low-pressure sanitary sewer system using E/One grinder pumps

Applicable Zoning and Development Code Regulations

- Title 16, Subdivisions
- Title 17, Zoning
- 2045 Cambridge Comprehensive Plan

Consistency with the Comprehensive Plan





The subject property is designated Neighborhood Residential on the Future Land Use Map, which is a future land use category that provides a mix of housing types, civic uses, existing neighborhood commercial, and day care facilities. The density range is 3-10 units per net acre. The designation is intended primarily for residential neighborhoods with other housing types may be appropriate, including duplex, townhomes and small unit apartments/condos. The development is predominantly composed of individual residential lots, with one larger parcel proposed for high-density residential zoning planned for townhomes (Lot 44).

The Comprehensive Plan states that townhomes up to 4 contiguous units are appropriate when facing or adjacent to commercial use, large institutional use, or residential use of equal or greater intensity. This lot would be across from open space of a farmstead along an unnamed intermittent stream. Per zoning, Lot 44 would allow up to 13 units based on the lot size (i.e., min. 2,700 square feet per unit). The area west of Highland Drive is identified as Neighborhood Residential with a note that the Village seeks a complete neighborhood with a mix of neighborhood commercial, high-intensity residential, neighborhood residential, and park/open space. This suggests openness for future urbanization of this area with uses that could be compatible with the townhome lot in this subdivision.

The Future Land Use Map does identify the areas along Highland Drive as "parks and open space" (light green color), but these lands do not have the natural protection resources (identified in dark green hatch). Currently there are woodlands in this location; however, previous preliminary plat and engineering documents presented single-family lots along the east side of Highland Drive within this subdivision. A determination by Plan Commission is required to determine if a Comprehensive Plan Amendment is necessary for this area shown for lots along Highland Drive.

Consistency with the Zoning Code

The parcel is currently zoned R-L Low Density Residential. The preliminary plat identifies lots that will require a rezone to R-M (medium density) and one lot to R-H (high density); however, staff is recommending changes to which properties require rezone as shown in the exhibit below. The proposed zoning mix allows smaller detached residential lots through most of the new street system while retaining larger lots along portions of Waverly Drive and Highland Drive.

The updated preliminary plat shows how the homes can be built on Lots 28-29.

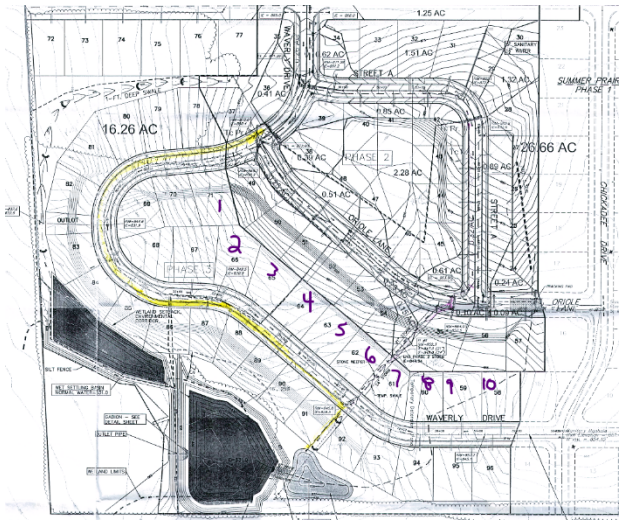
Land Use and Lots

The lots are arranged around a connected street system and provide generally conventional residential building sites. The plan transitions from smaller R-M lots along the new Waverly Drive loop extension, as well as along Highland Drive. One larger R-L lot (0.8 acres) is presented along Highland Drive in the last lot in the southwest portion of the subdivision.

This 3rd and final phase includes smaller lots (8,127-10,050 square feet) then previously documented for this portion of the subdivision. Previous lot sizes were between 11,500-15,000 square feet for lots abutting this final phase. The updated final phase will provide 51 single-family lots and 1 multi-family lot (Lot 44). This is compared to 39 single-family lots proposed originally for the areas in the final phase. The majority of these lots would be required to be rezoned to R-M (shown in orange on the right).

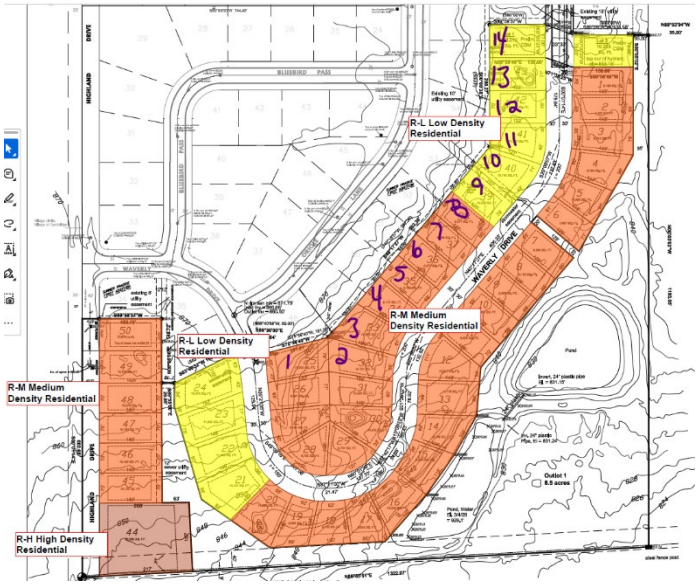
A future rezone application will be necessary along with the Final Plat to officially allow this change in density. In total, there are **4 additional lots** along the backyards of the Phase 2 lots on the south side of Oriole Lane (i.e., 10 lots in 2004 layout with 14 lots as presented in 2026 Preliminary Plat/CSM – as noted by purple numbers).

Phase 2 Layout (2004)



Lot 44 is the single lot identified for R-H zoning. No specific multifamily site plan or dwelling-unit count has been submitted; however, based on the size of lot would be restricted to 13 units (per zoning) in no more than 4-unit buildings (per Comprehensive Plan). **Approval of the preliminary plat does not approve the zoning or approve a particular layout, density, or plan for Lot 44.** More details shall be presented with the rezone to better understand the intended development with relation to adjacent and planned land uses.

Preliminary Plat Phase 3 (2026)



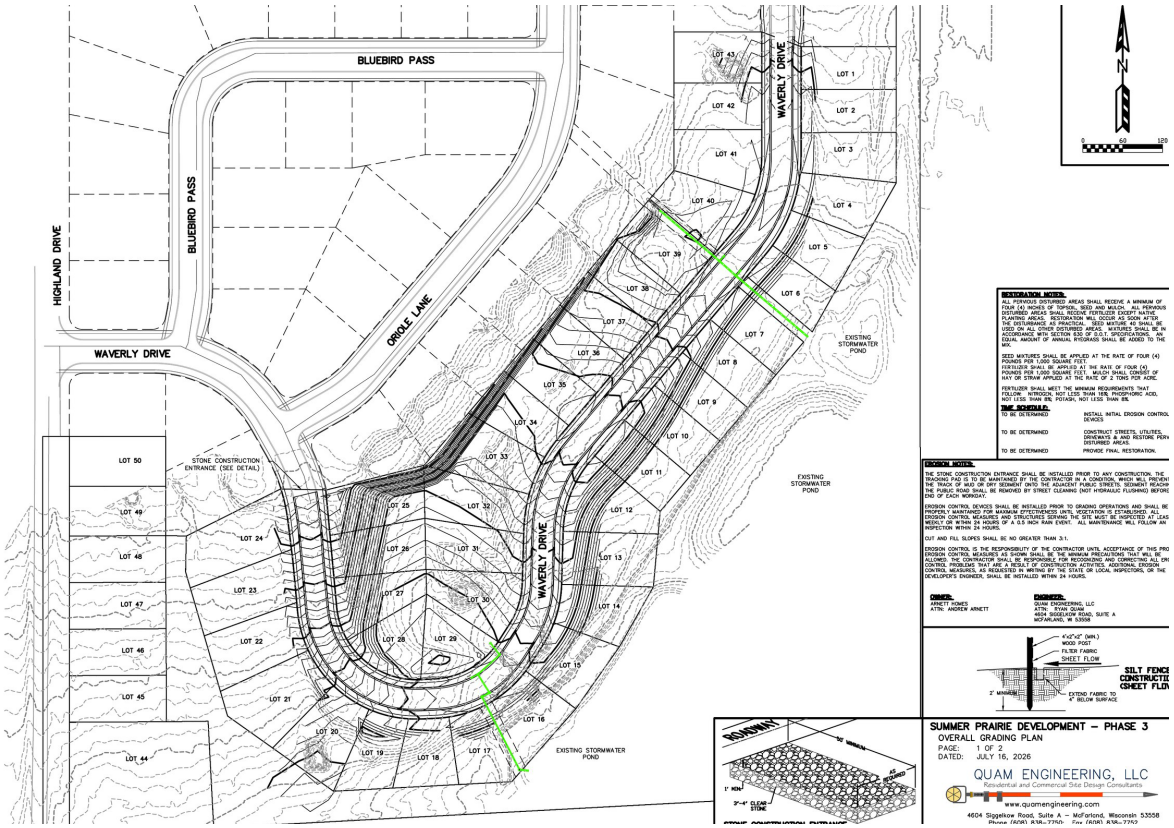
Access and Streets

Waverly Drive will be extended through the site, looping back to the existing street network. This extension will provide the planned for and completion of road network within the subdivision. There will be sidewalk on both sides of the street. The extension of Waverly will transition from a 66-ft right-of-way down to 60-ft right-of-way, which is allowed per subdivision ordinance. This will reduce the terrace width from ~10 feet to ~7 feet with the required 36-ft road.

Lots 44 through 50 will have direct access from existing Highland Drive. The right-of-way dedication matches or shall match the 40-ft from centerline to proposed lots (as shown in First Addition to Summer Prairie Plat). Sidewalk is not present on Highland Drive nor is it built for the lot currently built in the southeast corner of Highland/Waverly. As presented no sidewalk will be built for the additional development in Phase 3 of subdivision.

Grading and Stormwater Management

The preliminary grading plan shows substantial grading for the new street and residential lots while directing runoff toward existing drainage corridors and ponds (Outlot 1) along the low-lying areas across the south and east sides of the site. Per discussions with the Village staff and Dane County, the stormwater management plan (SWMP) included full buildout of the neighborhood in the initial build and were approved by previous Village engineer. We are recommending in the conditions that the planned development can still treat the planned impervious areas, as well as allow for conveyance/passthrough of 200-year storm through the development. This will not require the storm basins to be upgraded to manage a 200-year storm; however, ditches/pipes shall allow for the conveyance of 200-year storms to the basins.

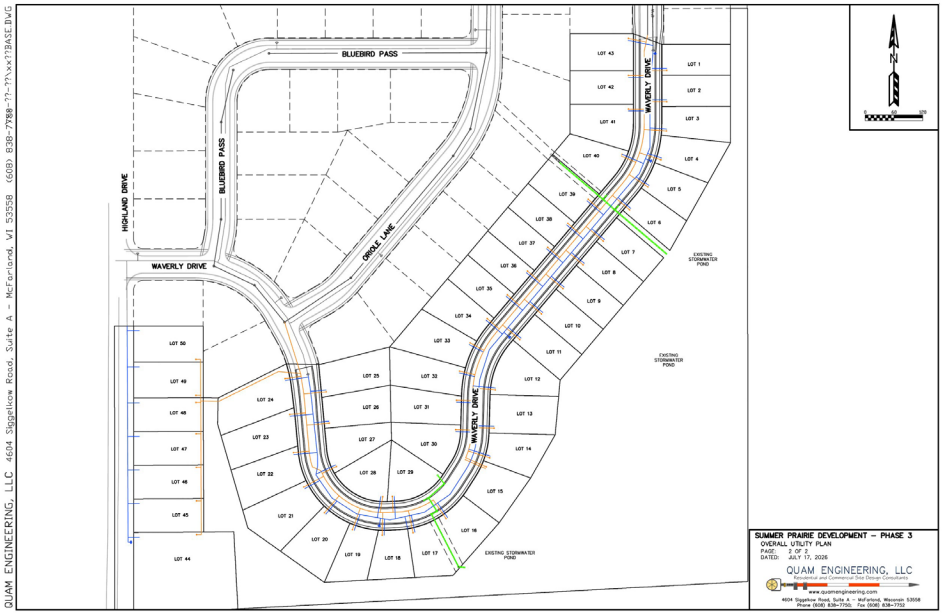


Overall grading plan dated July 16, 2026

Utilities

At the initial buildout it was assumed additional lands would develop around this subdivision to the east and south. These lands are now under Dane County Parks ownership, so no additional development is foreseen. Early 2026 the Water and Sewer Commission approved in principle an E/One system to serve this area (vs. a lift station) with final design to be reviewed and accepted once materials are submitted.

The subdivision is proposed to be served by public water and a low-pressure (E/One grinder pump) sanitary sewer system. The overall utility plan shows water and sewer connections to each lot. The E/One concept divides the development into pressure zones and identifies individual grinder pump stations and flow directions. Final utility design remains subject to review by Engineering and shall be submitted with the Final Plat.



Overall utility plan dated July 17, 2026

Environmental Features and Outlet 1



The preliminary plat and grading plan show existing ponds and drainage corridors. The majority of these features are located within or adjacent to Outlet 1. Development must maintain required easements. A wetland delineation was completed in October 2025, identifying four wetland areas covering 2.2 acres. Per Wisconsin DNR letter, dated 2/19/26, storm basins, W-2, W-3, and W-4 are exempted from state wetland regulations (through artificial exemption requirements). This leaves the larger wetland south and east of the storm basins as protected.

Parkland Dedication

Section 16.28.020 requires park, recreation, and open-space dedication based on the number of new residential dwelling units. At one dwelling unit per platted lot, the 50-lot preliminary plat would generate a minimum land dedication calculation of 1.60 acres. The actual obligation may be greater if Lot 44 is developed with more than one dwelling unit.

Outlot 1 contains existing ponds and drainage/open-space features. Stormwater facilities, wetlands, and similar constrained lands are not automatically eligible to satisfy the parkland requirement. Unless the Village Board accepts suitable land for park purposes, a fee-in-lieu-of-land is the likely method of compliance.

Per Sec. 16.28.030, the applicable fees per new dwelling unit are:

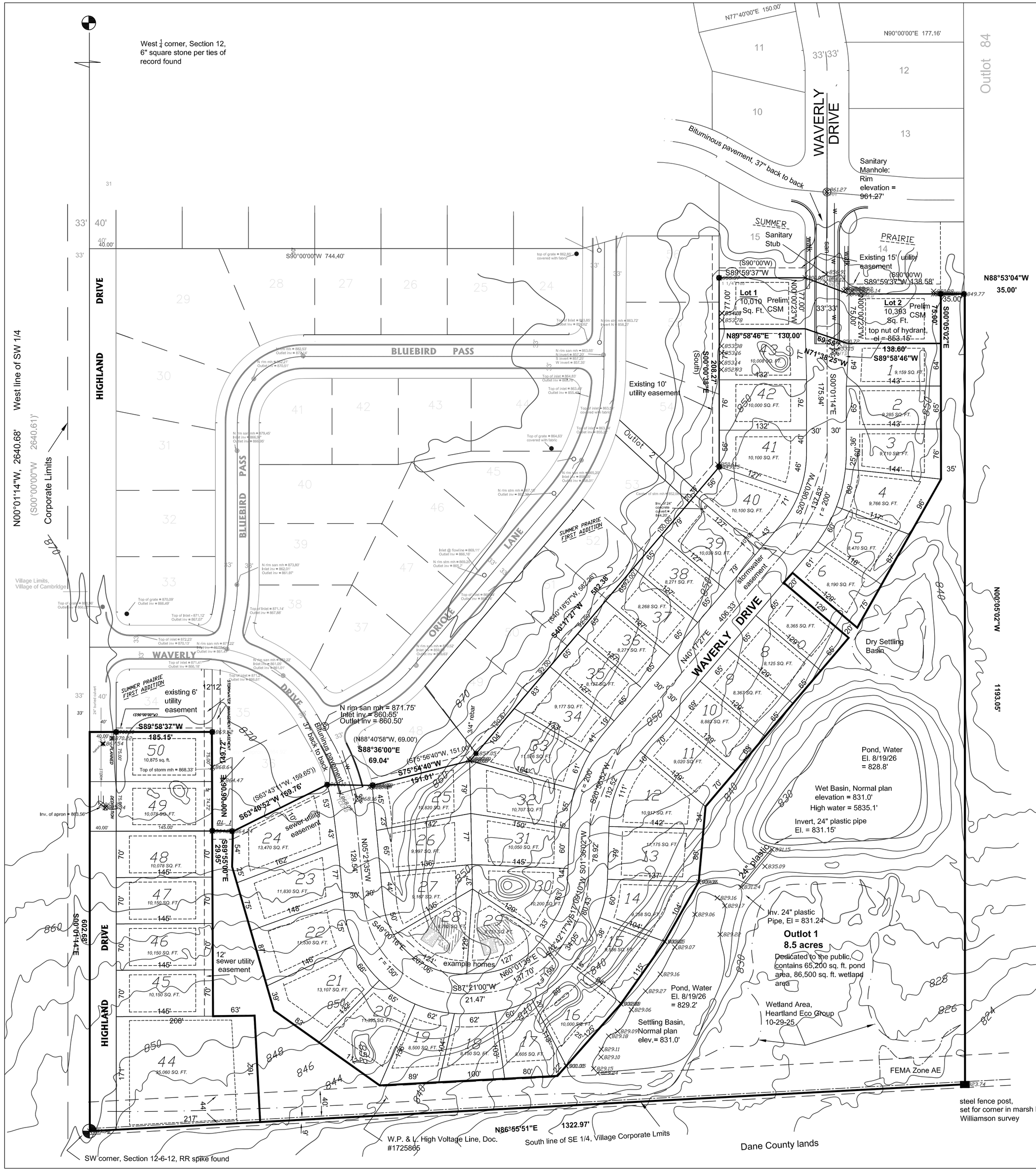
Park impact fee: $791.00 per dwelling unit
Fee-in-lieu-of-land: $733.00 per dwelling unit
Total: $1,524.00 per dwelling unit, subject to annual CPI adjustment

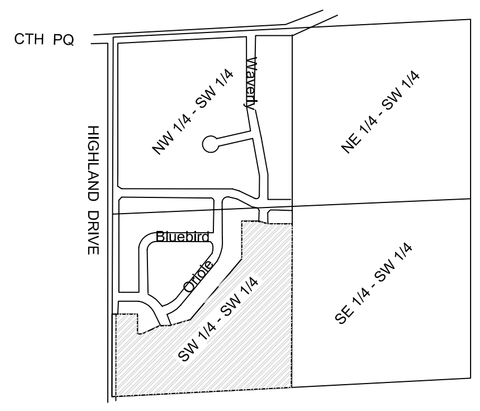
For 62 dwelling units (assuming maximum buildout of Lot 44), the minimum total would be $94,488. The final amount should be calculated from the actual dwelling-unit count and the fee schedule in effect when payment is due, including any additional units developed on Lot 44. Alternatively, a trail network could be incorporated loop through the subdivision and could be considered as a linear park (typically length times a certain width of the trail corridor) to reduce the fee-in-lieu and provide some recreational amenity.

Potential Action

Should Plan Commission recommend to Village Board approval of the Preliminary Plat for Arnett's Addition to Summer Prairie, staff recommend the following conditions:

1. Full engineering review of grading, streets, utilities to be considered with Final Plat submittal. The applicant shall address all comments and requirements identified by the Village Engineer and obtain written approval of revised preliminary engineering before submitting the Final Plat.
2. Full engineering review will be required for the E/One sanitary sewer system as part of the Final Plat.
    a. Design of the E/One system includes acceptable resident times however resident times are expected to be higher until full buildout occurs. Until full buildout of Arnett's Additon to Summer Prairie, resident times in the force main may exceed 6 hours which may result in odors within the Village sanitary sewer at the connecting manholes. Any required maintenance for flushing by the Village of Cambridge staff to address odors shall be the financial responsibility of the developer or HOA and shall be addressed in the developer's agreement for recoverable financial obligations.
    b. The Village will require the connecting manholes to be lined for prevention of H2S corrosion.
    c. E/One easement and flushing connections to be evaluated by Village Engineer.
3. The stormwater management plan was previously approved by the Village as part of the original two phases of development. It is not expected that the pond will require redesign however in order for the Village to accept the stormwater management for Arnett's Addition to Summer Prairies, the developer/developer's engineer shall provide the following to the Village Engineer as a condition to Final Plat and Final Engineering approval.
    a. As-built certification and maintenance/repair of the existing facilities.
    b. Under current proposed conditions (full build-out), confirmation that the existing stormwater ponds satisfy the density requirements for rate control and water quality for the proposed Plat.
    c. Engineering plans to demonstrate safe passage of 200-year storm through the site; however, managing the 200-year storm is not required per conversations with Dane County.
4. The revised plat shall identify the intended zoning district for every lot per revisions noted in this staff report and correct any other dimensional nonconformities.
5. Final Plat approval is contingent upon adoption of the necessary rezoning from R-L Low Density Residential to R-M Medium Density Residential and R-H High Density Residential for the applicable lots. Lots not included in the rezoning shall comply with the R-L district.
6. Park impact fees and parkland dedication or fee-in-lieu requirements shall be satisfied, with the final obligation based on projected dwelling units, including either approved plans for Lot 44 or based on maximum lots allowed by zoning designation.
7. Any multifamily development on Lot 44 shall require separate zoning and site plan review. Preliminary Plat approval does not approve a dwelling-unit count, building layout, parking plan, or access configuration for that lot.





SW 1/4, Section 12

Scale : 1" = 800'

Referenced to Dane County Coordinate System with West line of SW 1/4 bearing N00°01'14"W

Elevations shown are referenced to NAVD 88 datum

SCALE

Part of Outlot 83 of the Revised and Consolidated Assessor's Plat of the Village of Cambridge, also being in part of the SW ¼ of the SW ¼ of Section 12, Town 6 North, Range 12 East, Village of Cambridge, Dane County, Wisconsin, described as follows:
Beginning at the Southwest corner of Section 12; thence N86°55'51"E, 1322.97 feet to the Southeast corner of the SW ¼ of the SW ¼; thence N00°05'02"W along the East line of the ¼ - ¼, 1193.05 feet to the Southeast corner of Lot 14 of the plat of Summer Prairie; thence N88°53'04"W, 35.00 feet; thence S00°05'02"E, 75.00 feet; thence S89°58'46"W, 138.60 feet; thence N71°38'25"W, 69.55 feet; thence S89°58'46"E, 130.00 feet to the East line of the First Addition to Summer Prairie ;thence S00°00'38"E, 208.27 feet along said line; thence S40°17'27"W along said line, 582.38 feet; thence S75°54'40"W, 151.01 feet to the Southwest corner of lot 48 of said First Addition; thence N88°36'00"W, 69.04 feet to the Southeast corner of lot 36 of said Addition; thence S63°40'52"W, 159.76 feet to the Southwest corner of lot 36; thence N89°55'00"W, 29.95 feet to the Southwest corner of Outlot 1 of the said First Addition; thence N00°06'06"E along the West line of said Outlot, 149.72 feet; thence S89°58'37"W, 185.15 feet to the West line of the SW ¼ of the SW ¼; thence S00°01'14"E, 602.68 feet to the point of beginning. The above described containing 23.056 acres or 1,004,311 square feet, being subject to a right of way for Highland Drive across the Westerly 33 feet.

Lots 1- 20 and 26-38 are proposed for R-M Zoning, Minimum yard setbacks are:
Minimum Lot Size 8,000 sq. feet, 60 foot minimum lot width
Front street..... 20 feet
Interior sideyard..... 7 feet
Rear yard..... 25 feet
Maximum percent of building lot coverage ..... 50 %

Existing R-L District, Lots 21-25, 39-40, 49, 50
Minimum Lot size 10,000 square feet, 75 foot minimum lot width
Front Street..... 25 feet
Interior side yard..... 10 feet
Rear yard ..... 25 feet
Maximum percent of lot coverage..... 30 %

Lot 44 proposed zoning is R-H District, Minimum yard setbacks are (Multifamily Buildings):
Front Street..... 20 feet
Interior sideyard.....6 feet
Rear yard..... 35 feet
Maximum percent of building lot coverage..... 70 %

Legend
● = 11/4" diameter steel rod found, unless otherwise noted
☼ = hydrant
When different, parentheses indicate recorded as values

Scale 1" = 80'
0 40 80 160

Surveyors Certificate
I, David C. Riesop, Wisconsin Professional Land Surveyor, hereby certify that I have surveyed, mapped and monumented the lands as described hereon, and that such map is a true and correct representation of the boundaries of the lands surveyed, and that I have fully complied with the State of Wisconsin Administrative Code in surveying and mapping the same, to the best of my knowledge and belief.

David C. Riesop S-1551

WISCONSIN DAVID C. RIESOP S-1551 DEERFIELD WISCONSIN LAND SURVEYOR

PRELIMINARY PLAT of

Arnett's Addition to Summer Prairie

Part of Outlot 83 of the Revised and Consolidated Assessor's Plat of the Village of Cambridge, also being in part of the SW ¼ of the SW ¼ of Section 12, Town 6 North, Range 12 East, Village of Cambridge, Dane County, Wisconsin

Prepared for Highland Prairie LLC,
c/o Andrew Arnett
2255 Tower Drive, Stoughton, Wi. 53589
608-395-4392

Wisconsin Mapping, LLC
surveying and mapping services
306 West Quarry Street, Deerfield, Wisconsin 53531
(608) 764-5602

Dwg. No. 6494-25 Date 4/24/2026
Sheet 1 of 1 7/21/26

Village of Cambridge Land Division Application

200 Spring Street, PO Box 99, Cambridge, WI 53523 ♦ Phone (608) 423- 3712
https://cambridgewi.gov

Application Information

The Plan Commission meets on the second Monday of each month at 6:30 p.m. in the Amundson Community Center. To be considered for the meeting agenda, submit your complete application (including fee) at least 25 days in advance. Include: 5 hard copies and 1 digital copy of all materials and Environmental Assessment Checklist (required for all land divisions).

If your proposal affects land outside the plat or changes the Village's official zoning map, a public hearing may be required. In that case, the Village will publish a Class 2 notice per §15.08.040 of the Municipal Code. **If you have any questions about the requirements, please contact Steve Tremlett, Zoning Administrator, at (608) 242-4828 or stremlett@msa-ps.com.**

Owner Name(s): HIGHLAND PRAIRIE LLC	
Applicant Name (if different than above): Andrew (AJ) Arnett	
Project Address: Waverly Drive, Cambridge, WI	***Parcel #(s):*** 111/0612-123-4780-1
Applicant Address (if different than above): 2255 Tower Dr Stoughton WI 53589	
Applicant Email: AJ@ArnettHomes.com	***Surveyor:*** Wisconsin Mapping, LLC
Surveyor Phone: (608) 764-5602	***Surveyor Email:*** wismapping@charter.net
Current Zoning: R-L – Residential	***Existing Use of Property:*** Vacant residential property R-L
Development Size: _22.9_ *acres and* _50_ *lots*	***Acres Remaining in Parent Parcel:*** 0
Proposed Zoning: R-M and R-H	***Plat Name:*** Arnett's Addition to Summer Prairie

Land Division Submittal Checklist:		
	Fee (see information at right)	• Sketch Plan: No fee. • CSM: $350 plus $50 per lot over 2 lots. • Preliminary Plat: $350 plus $50 per lot. • Final Plat: $350 plus $50 per lot.
	Complete Application (this page)	
	Sketch plan/CSM/Plat (one hard copy)	
	Environmental Assessment Checklist (Appendix A under Section 16.12)	
	Project Description & Intent Form (attached)	

Applicant Signature: _____ ***Date:*** 7/17/2026

Owner Signature: _____ ***Date:*** 7/17/2026

For Staff Use Only		
Date Received:	***Fee Amount:*** $2,850.00	***Paid?***
Project to Appear before Plan Commission on:		***PH Publication Dates:***
Plan Commission Recommendation: ☐ Denied ☐ Approved ***Subject to:***		
Village Board Decision: ☐ Denied ☐ Approved (Res #_____) ***Subject to:***		

Project Description & Intent – Land Division Application
Please complete the following sections to describe your proposed land division. This form replaces the need for a separate letter of intent.

1. **Project Overview**:
   Summarize the proposed land division, including the number of lots, intended use, and any phasing plans.

2. **Purpose of the Land Division**:
   Explain why the division is being requested and how it supports the goals of the property owner or developer.

3. **Infrastructure and Utility Needs**:
   Identify any new or modified infrastructure (roads, water/sewer, stormwater) required for the development. Provide preliminary engineering, inclusive of conceptual stormwater management plan, for Preliminary Plat review. Provide final engineering plans for Final Plat review.

4. **Environmental Features and Considerations**:
   Note any known environmental constraints (wetlands, floodplains, steep slopes, etc.) and how they will be addressed. Provide wetland delineation report if lands are identified with mapped or wetland type soils per Wisconsin DNR.

5. **Additional Information or Special Considerations**:
   Include any other relevant details that may assist staff and the Plan Commission in reviewing your application.

Project Description & Intent – Land Division Application

1. Project Overview

Arnett's Addition to Summer Prairie is a proposed 50-lot residential subdivision consisting of 49 single-family residential lots and one multifamily lot. The subdivision is intended to provide a variety of housing opportunities through a combination of Residential Low Density (R-L), Residential Medium Density (R-M), and Residential High Density (R-H) zoning. Lots 21-25, 39-40, and 49-50 will remain R-L to provide a compatible transition adjacent to the existing neighborhood. The remaining single-family lots are proposed to be rezoned R-M, while Lot 44 is proposed to be zoned R-H for future multifamily residential development.

2. Purpose of the Land Division

The purpose of the proposed land division is to complete the final phase of the Summer Prairie development utilizing public infrastructure that was previously planned and constructed for this area. The project provides a variety of housing opportunities while preserving compatibility with the existing neighborhood, protecting open space, enhancing pedestrian connectivity, and expanding the Village's housing options.

Approximately 8.5 acres of the property will remain as permanent open space dedicated to environmental preservation, a public multi-use trail system connecting to the existing Summer Prairie trail network and adjacent Dane County parkland, and integrated stormwater management facilities.

3. Infrastructure and Utility Needs

The subdivision will require extensions of public streets, water mains, sanitary sewer, and other public infrastructure necessary to serve the proposed development.

The subdivision will utilize the existing regional stormwater management facilities that were previously constructed and specifically designed to serve this phase of the Summer Prairie development, as well as the two previously constructed phases that have already been completed. Preliminary grading, drainage, utility, and conceptual stormwater management plans are being submitted with this Preliminary Plat application.

Sanitary sewer service is proposed to utilize an E/One low-pressure grinder pump system connected to the existing 4-inch force main previously stubbed into the property. Public water service will be provided through extensions of the existing water main system.

Lots 44 through 50 are intentionally designed to maintain the existing rural roadway character by utilizing open roadside drainage swales and driveway culverts rather than an urban street section. The drainage swales will convey and infiltrate stormwater runoff, functioning similarly to linear rain gardens while preserving the appearance of the existing roadway and supporting environmentally responsible stormwater management. An 8-inch water main will be extended from the existing

hydrant near Lot 50 to the edge of Lot 44, where it will terminate with a new fire hydrant to provide water service and fire protection for this portion of the development.

4. Environmental Features and Considerations

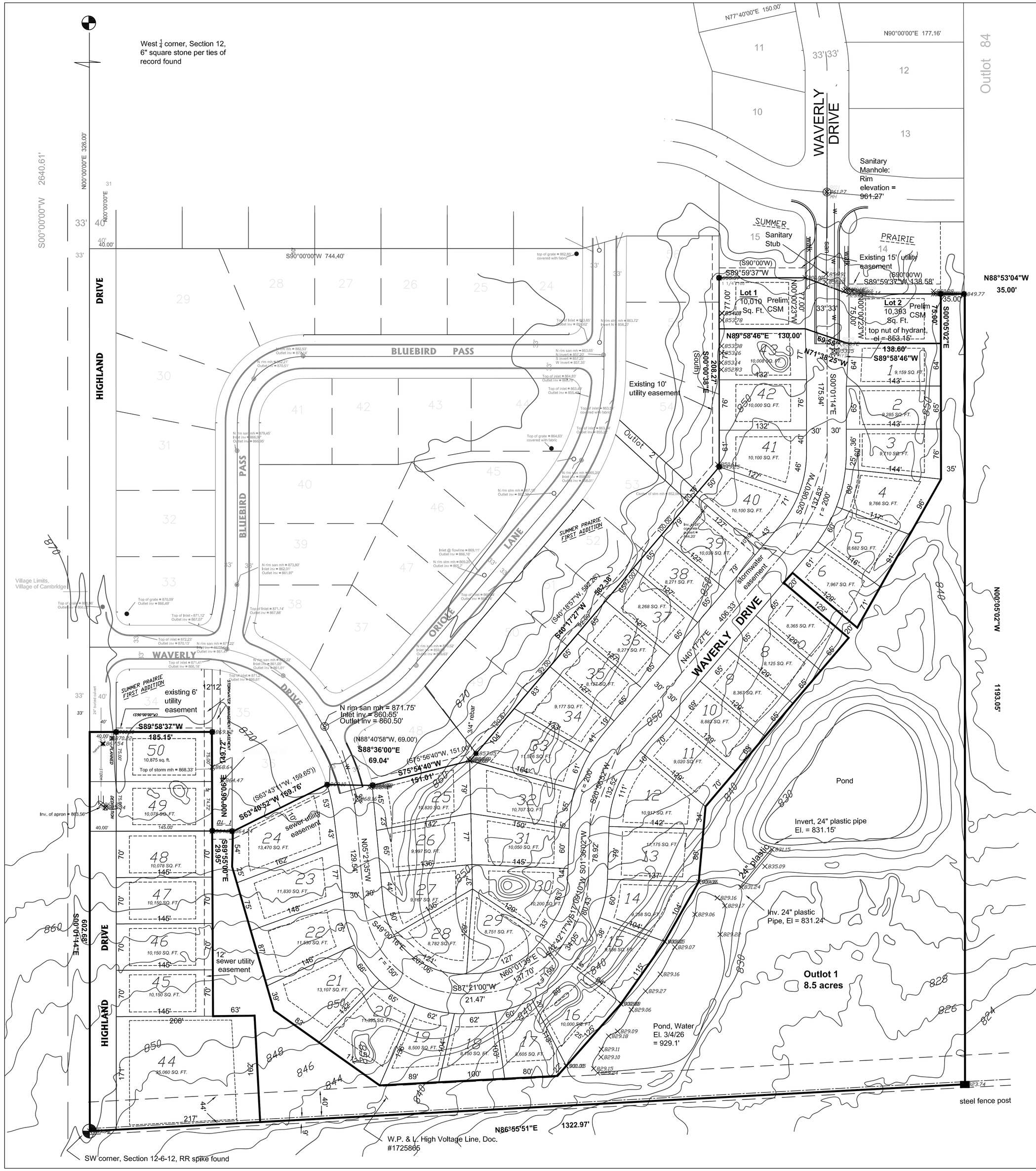
The development has been designed to preserve the natural character of the property through the dedication of approximately 8.5 acres of permanent open space, preservation of environmental features, integrated stormwater management, and construction of a public multi-use trail system.

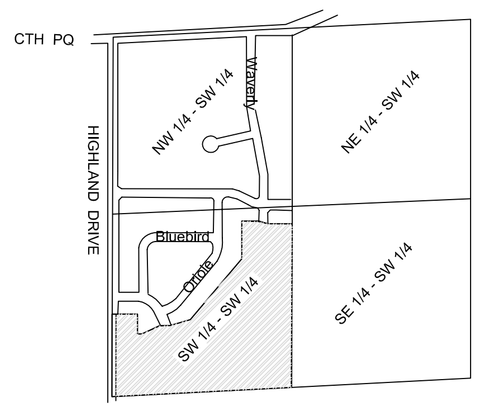
A wetland delineation was completed in 2026 and will be included with this application, along with the Wisconsin Department of Natural Resources Artificial Wetland Exemption Determination for the existing stormwater ponds and Wetlands W-2, W-3, and W-4. The subdivision has been designed to avoid identified environmental resources while utilizing the existing regional stormwater management facilities to minimize additional land disturbance and protect downstream water quality.

5. Additional Information or Special Considerations

This subdivision represents the final planned phase of the Summer Prairie development and has been designed to efficiently utilize existing public infrastructure that was originally planned and constructed with this phase in mind. The proposed zoning pattern provides a thoughtful transition between existing and future residential development while creating a high-quality neighborhood that balances housing opportunities, environmental stewardship, and long-term community benefits.

The proposed subdivision substantially exceeds the Village's minimum parkland dedication requirement by providing approximately 8.5 acres of permanent open space dedicated to environmental preservation, a public multi-use trail system, and integrated stormwater management facilities. This dedication provides significantly more open space than is required under the Village's land division ordinance and represents a lasting benefit to future residents and the Village of Cambridge as a whole.





SW 1/4, Section 12

Scale : 1" = 800'

Part of Outlot 83 of the Revised and Consolidated Assessor's Plat of the Village of Cambridge, also being in part of the SW ¼ of the SW ¼ of Section 12, Town 6 North, Range 12 East, Village of Cambridge, Dane County, Wisconsin, described as follows:
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Interior sideyard..... 7 feet
Rear yard..... 25 feet
Maximum percent of building lot coverage ..... 50 %

Existing R-L District, Lots 21-25, 39-40, 49, 50
Minimum Lot size 10,000 square feet, 75 foot minimum lot width
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Rear yard..... 35 feet
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Legend
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When different, parentheses indicate recorded as values

SCCM

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Surveyors Certificate
I, David C. Riesop, Wisconsin Professional Land Surveyor, hereby certify that I have surveyed, mapped and monumented the lands as described hereon, and that such map is a true and correct representation of the boundaries of the lands surveyed, and that I have fully complied with the State of Wisconsin Administrative Code in surveying and mapping the same, to the best of my knowledge and belief.

David C. Riesop S-1551 7/21/2026

WISCONSIN DAVID C. RIESOP S-1551 DEERFIELD WISCONSIN LAND SURVEYOR

PRELIMINARY PLAT of

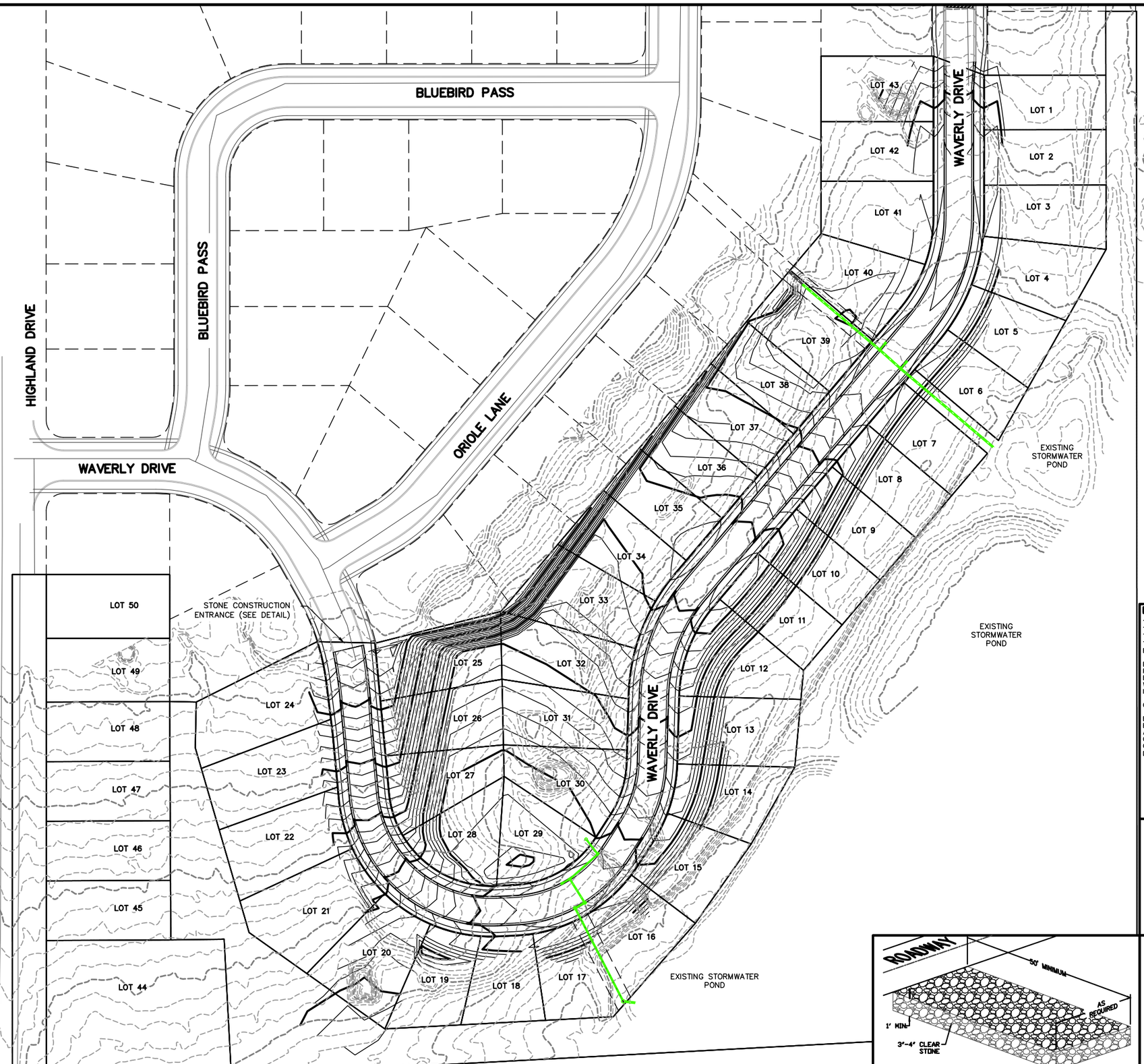
Arnett's Addition to Summer Prairie

Part of Outlot 83 of the Revised and Consolidated Assessor's Plat of the Village of Cambridge, also being in part of the SW ¼ of the SW ¼ of Section 12, Town 6 North, Range 12 East, Village of Cambridge, Dane County, Wisconsin

Wisconsin Mapping, LLC
surveying and mapping services
306 West Quarry Street, Deerfield, Wisconsin 53531
(608) 764-5602

Dwg. No. 6494-25 Date 4/24/2026
Sheet 1 of 1 7/21/26

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A - McFarland, WI 53558 (608) 838-7750 - ??-??-??\xx??BASE.DWG



RESTORATION NOTES:

ALL PERVIOUS DISTURBED AREAS SHALL RECEIVE A MINIMUM OF FOUR (4) INCHES OF TOPSOIL, SEED AND MULCH. ALL PERVIOUS DISTURBED AREAS SHALL RECEIVE FERTILIZER EXCEPT NATIVE PLANTING AREAS. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. SEED MIXTURE 40 SHALL BE USED ON ALL OTHER DISTURBED AREAS. MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX.

SEED MIXTURES SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET.
FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. MULCH SHALL CONSIST OF HAY OR STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL MEET THE MINIMUM REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 8%; POTASH, NOT LESS THAN 8%.

TIME SCHEDULE:

TO BE DETERMINED	INSTALL INITIAL EROSION CONTROL DEVICES
TO BE DETERMINED	CONSTRUCT STREETS, UTILITIES, DRIVEWAYS & AND RESTORE PERVIOUS DISTURBED AREAS.
TO BE DETERMINED	PROVIDE FINAL RESTORATION.

EROSION NOTES:

THE STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE TRACKING PAD IS TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION, WHICH WILL PREVENT THE TRACK OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORKDAY.

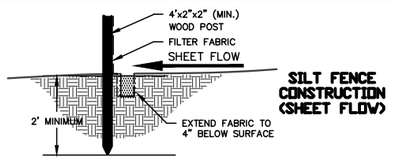
EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS AND SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS ESTABLISHED. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.

CUT AND FILL SLOPES SHALL BE NO GREATER THAN 3:1.

EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND CORRECTING ALL EROSION CONTROL PROBLEMS THAT ARE A RESULT OF CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.

OWNER:
ARNETT HOMES
ATTN: ANDREW ARNETT

ENGINEER:
QUAM ENGINEERING, LLC
ATTN: RYAN QUAM
4604 SIGGELKOW ROAD, SUITE A
MCFARLAND, WI 53558



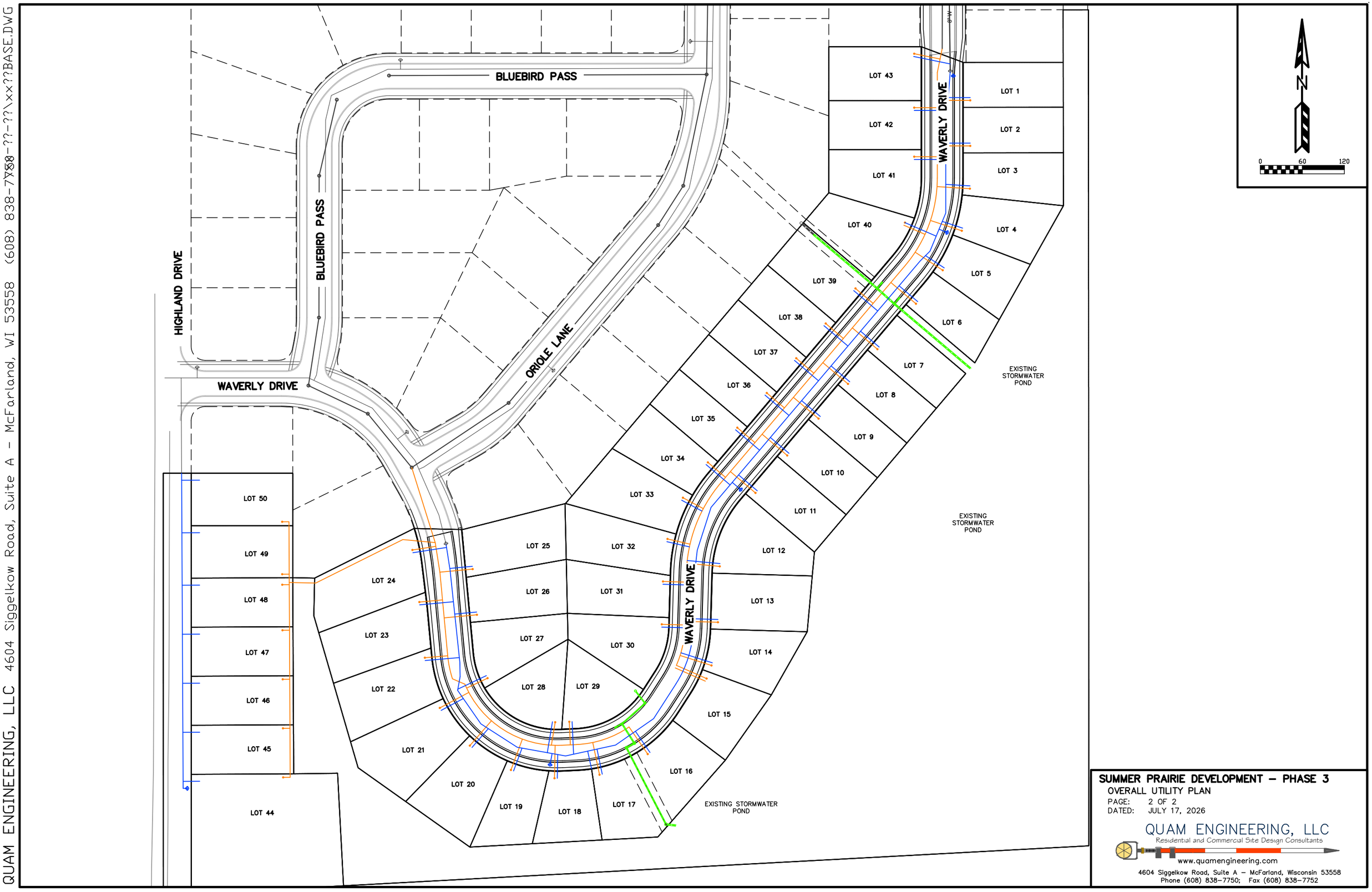
SILT FENCE CONSTRUCTION (SHEET FLOW)

STONE CONSTRUCTION ENTRANCE

SUMMER PRAIRIE DEVELOPMENT – PHASE 3

OVERALL GRADING PLAN
PAGE: 1 OF 2
DATED: JULY 16, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752



SUMMER PRAIRIE DEVELOPMENT – PHASE 3

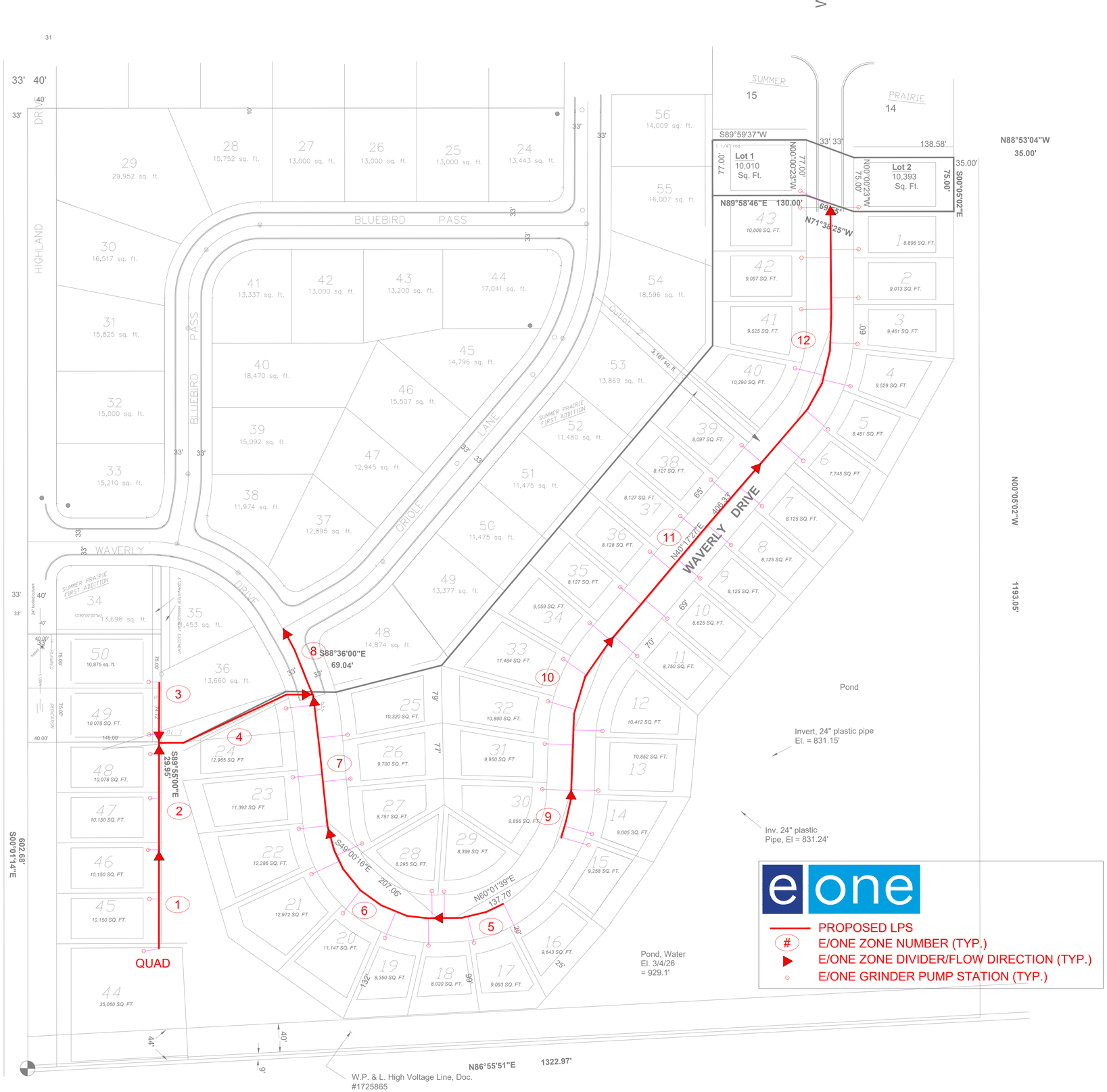
OVERALL UTILITY PLAN

PAGE: 2 OF 2

DATED: JULY 17, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A - McFarland, WI 53558 (608) 838-7750 - ??-??-??\xx??BASE.DWG


SUMMER
15
PRAIRIE
14
S89°59'37"W
N88°53'04"W
35.00'
138.58'
33' 33'
Lot 1
10,010
Sq. Ft.
77.00'
N00°00'23"W
77.00'
Lot 2
10,393
Sq. Ft.
75.00'
N00°00'23"W
75.00'
S00°05'02"E
N89°58'46"E 130.00'
69.55'
N71°38'25"W
N00°05'02"W
1193.05'
HIGHLAND DRIVE
BLUEBIRD PASS
BLUEBIRD PASS
ORIOLE LANE
WAVERLY DRIVE
SUMMER PRAIRIE FIRST ADDITION
SUMMER PRAIRIE FIRST ADDITION
29 29,952 sq. ft.
28 15,752 sq. ft.
27 13,000 sq. ft.
26 13,000 sq. ft.
25 13,000 sq. ft.
24 13,443 sq. ft.
56 14,009 sq. ft.
55 16,007 sq. ft.
54 18,596 sq. ft.
53 13,869 sq. ft.
52 11,480 sq. ft.
51 11,475 sq. ft.
50 11,475 sq. ft.
49 13,377 sq. ft.
48 14,874 sq. ft.
47 12,945 sq. ft.
46 15,507 sq. ft.
45 14,796 sq. ft.
44 17,041 sq. ft.
43 13,200 sq. ft.
42 13,000 sq. ft.
41 13,337 sq. ft.
40 18,470 sq. ft.
39 15,092 sq. ft.
38 11,974 sq. ft.
37 12,895 sq. ft.
36 13,660 sq. ft.
35 13,453 sq. ft.
34 13,698 sq. ft.
33 15,210 sq. ft.
32 15,000 sq. ft.
31 15,825 sq. ft.
30 16,517 sq. ft.
50 10,875 sq. ft.
49 10,078 SQ. FT.
48 10,078 SQ. FT.
47 10,150 SQ. FT.
46 10,150 SQ. FT.
45 10,150 SQ. FT.
44 35,060 SQ. FT.
43 10,008 SQ. FT.
42 9,097 SQ. FT.
41 9,525 SQ. FT.
40 10,290 SQ. FT.
39 8,097 SQ. FT.
38 8,127 SQ. FT.
37 8,127 SQ. FT.
36 8,128 SQ. FT.
35 8,127 SQ. FT.
34 9,059 SQ. FT.
33 11,484 SQ. FT.
32 10,890 SQ. FT.
31 9,950 SQ. FT.
30 9,856 SQ. FT.
29 8,399 SQ. FT.
28 8,295 SQ. FT.
27 8,751 SQ. FT.
26 9,700 SQ. FT.
25 10,320 SQ. FT.
24 12,965 SQ. FT.
23 11,392 SQ. FT.
22 12,286 SQ. FT.
21 12,972 SQ. FT.
20 11,147 SQ. FT.
19 8,350 SQ. FT.
18 8,020 SQ. FT.
17 9,093 SQ. FT.
16 9,643 SQ. FT.
15 9,258 SQ. FT.
14 9,005 SQ. FT.
13 10,852 SQ. FT.
12 10,412 SQ. FT.
11 8,750 SQ. FT.
10 8,625 SQ. FT.
9 8,125 SQ. FT.
8 8,125 SQ. FT.
7 8,125 SQ. FT.
6 7,745 SQ. FT.
5 8,451 SQ. FT.
4 9,529 SQ. FT.
3 9,461 SQ. FT.
2 9,013 SQ. FT.
1 8,896 SQ. FT.
3,167 sq. ft.
1
2
3
4
5
6
7
8
9
10
11
12
S89°55'00"E 29.95'
S49°00'16"E 207.06'
N60°01'39"E 137.70'
S88°36'00"E 69.04'
N49°17'27"E 406.33'
602.68'
S00°01'14"E
QUAD
Pond
Invert, 24" plastic pipe
El. = 831.15'
Inv. 24" plastic
Pipe, El = 831.24'
Pond, Water
El. 3/4/26
= 929.1'
N86°55'51"E 1322.97'
W.P. & L. High Voltage Line, Doc.
#1725865
PROPOSED LPS
E/ONE ZONE NUMBER (TYP.)
E/ONE ZONE DIVIDER/FLOW DIRECTION (TYP.)
E/ONE GRINDER PUMP STATION (TYP.)

Environment One Corporation

Pressure Sewer Preliminary Cost and Design Analysis For Summer Prairie - Rev2 Cambridge, WI

Prepared For:

WI **USA**

Tel:
Fax:
Prepared By: M. Crowley
May 20, 2026

Summer Prairie - Rev2
Cambridge, WI

Prepared by : M. Crowley **On:** May 20, 2026

Notes :
Analysis based upon drawings and data provided. Station recommendations are preliminary.

GPD values impact retention times only, not line sizing or hydraulics. GP laterals to be 1.25".

Analysis valid only with pipe type listed.

General recommendations for valve placement are: clean out valves at intervals of approximately 1,000 ft and at branch ends and junctions; isolation valves at branch junctions; and air release valves at changes in grade of 20 to 25 ft or more and/or at intervals of 2,000 to 2,500 ft. Lateral kits comprised of a ball and check valve are required to be installed between the pump discharge and street main on all installations. Laterals should be located as close to the public right of way as possible.

Quantities of grinder pumps, pipe, and valves are indicated on the cost page. The model of grinder pump(s) indicated is based upon the initial information provided to us but may not be the most appropriate for the specific location or requirements of the project. Costs of these items and their installation are best obtained from sources in your region. We recommend you contact your local distributor of Environment One products for additional recommendations.

08.01.2025 - Initial analysis.
08.13.2025 - Rev1.
05.20.2026 - Rev2.

<<<<< E N D O F N O T E S >>>>>

May 20, 2026

Budgetary Low Pressure Sewer System Costs

Summer Prairie - Rev2
Cambridge, WI

	Quantity	Description	Unit Cost	Installation	Sub Total
Valves	1	Air/Vacuum Release Valve	$0.00	0.00	$0.00
	6	Clean Out	$0.00	0.00	$0.00
					$0.00
Pumps	51	DH071-93	$0.00	0.00	$0.00
	51	Lateral Kits (Includes Ball\Check Valve Assembly)	$0.00	0.00	$0.00
	51	Lateral (Boundary) Installation	$0.00	0.00	$0.00
	51	Pump/Panel Installation	$0.00	0.00	$0.00
	2,550	LF of 1.25" Lateral Pipe	$0.00	0.00	$0.00
	1	W-Series Quadplex	$0.00	0.00	$0.00
	50	LF of 1.5" Lateral Pipe	$0.00	0.00	$0.00
					$0.00
Piping	1,204	2.00" Pipe	$0.00	0.00	$0.00
	992	3.00" Pipe	$0.00	0.00	$0.00
					$0.00

Number of Connections	**53**		
Total Per Connection	**$0.00**	**Total (w/o other)** >>>>>>>>>>>>>	**$0.00**
Grand Total Per Connection	**$0.00**	**Grand Total (including other)** >>>>>>>>>>>>>	**$0.00**

Note: The System Costs above are based on piping sized for, and Grinder Pumps manufactured by Environment One Corporation.

PRELIMINARY PRESSURE SEWER - PIPE SIZING AND BRANCH ANALYSIS

Prepared By:
M. Crowley

Summer Prairie - Rev2
Cambridge, WI

May 20, 2026

Zone Number	Connects to Zone	Number of Pumps in Zone	Accum Pumps in Zone	Gals/day per Pump	Max Flow Per Pump (gpm)	Max Sim Ops	Max Flow (GPM)	Pipe Size (inches)	Max Velocity (FPS)	Length of Main this Zone	Friction Loss Factor (ft/100 ft)	Friction Loss This Zone	Accum Fric Loss (feet)	Max Main Elevation	Minimum Pump Elevation	Static Head (feet)	Total Dynamic Head (ft)
This spreadsheet was calculated using pipe diameters for: SDR11HDPE											Friction loss calculations were based on a Constant for inside roughness "C" of: 150						
1.00	2.00	3	3	1067	11.00	2	22.00	2.00	2.38	136.00	1.19	1.62	12.12	870.00	850.00	20.00	32.12
2.00	4.00	3	6	200	11.00	3	33.00	2.00	3.57	150.00	2.52	3.78	10.50	870.00	860.00	10.00	20.50
3.00	4.00	2	2	200	11.00	2	22.00	2.00	2.38	84.00	1.19	1.00	7.72	870.00	868.00	2.00	9.72
4.00	8.00	0	8	200	11.00	3	33.00	2.00	3.57	228.00	2.52	5.74	6.72	870.00	866.00	4.00	10.72
5.00	6.00	3	3	200	11.00	2	22.00	2.00	2.38	101.00	1.19	1.20	8.67	870.00	850.00	20.00	28.67
6.00	7.00	6	9	200	11.00	3	33.00	2.00	3.57	209.00	2.52	5.27	7.47	870.00	858.00	12.00	19.47
7.00	8.00	5	14	200	11.00	4	44.00	3.00	2.19	188.00	0.65	1.22	2.20	870.00	860.00	10.00	12.20
8.00	8.00	0	22	200	11.00	5	55.00	3.00	2.74	100.00	0.98	0.98	0.98	870.00	870.00	0.00	0.98
9.00	10.00	3	3	200	11.00	2	22.00	2.00	2.38	69.00	1.19	0.82	13.93	854.00	840.00	14.00	27.93
10.00	11.00	6	9	200	11.00	3	33.00	2.00	3.57	227.00	2.52	5.72	13.11	854.00	840.00	14.00	27.11
11.00	12.00	9	18	200	11.00	4	44.00	3.00	2.19	316.00	0.65	2.05	7.39	854.00	842.00	12.00	19.39
12.00	12.00	13	31	200	11.00	6	66.00	3.00	3.29	388.00	1.38	5.34	5.34	854.00	842.00	12.00	17.34

Note: This analysis is valid only with the use of progressive cavity type grinder pumps as manufactured by Environment One.

PRELIMINARY PRESSURE SEWER - ACCUMULATED RETENTION TIME(HR)

Prepared By:
M. Crowley

Summer Prairie - Rev2
Cambridge, WI

May 20, 2026

Zone Number	Connects to Zone	Accumulated Total of Pumps this Zone	Pipe Size (inches)	Gallons per 100 lineal feet	Length of Zone	Capacity of Zone	Average Daily Flow	Average Fluid Changes per Day	Average Retention Time (Hr)	Accumulated Retention Time (Hr)
This spreadsheet was calculated using pipe diameters for: SDR11HDPE								Gals per Day per Dwelling		200
1.00	2.00	3	2.00	15.40	136.00	20.95	3,201	152.81	0.16	0.62
2.00	4.00	6	2.00	15.40	150.00	23.10	3,801	164.52	0.15	0.46
3.00	4.00	2	2.00	15.40	84.00	12.94	400	30.92	0.78	1.09
4.00	8.00	8	2.00	15.40	228.00	35.12	4,201	119.62	0.20	0.32
5.00	6.00	3	2.00	15.40	101.00	15.56	600	38.57	0.62	1.71
6.00	7.00	9	2.00	15.40	209.00	32.19	1,800	55.91	0.43	1.08
7.00	8.00	14	3.00	33.47	188.00	62.92	2,800	44.50	0.54	0.65
8.00	8.00	22	3.00	33.47	100.00	33.47	7,001	209.19	0.11	0.11
9.00	10.00	3	2.00	15.40	69.00	10.63	600	56.45	0.43	2.10
10.00	11.00	9	2.00	15.40	227.00	34.96	1,800	51.48	0.47	1.67
11.00	12.00	18	3.00	33.47	316.00	105.75	3,600	34.04	0.71	1.21
12.00	12.00	31	3.00	33.47	388.00	129.85	6,200	47.75	0.50	0.50

Note: This analysis is valid only with the use of progressive cavity type grinder pumps as manufactured by Environment One

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
3911 Fish Hatchery Road
Fitchburg, WI 53711

February 19, 2026 **EXE-SC-2026-13-00512**

Andrew Arnett
2255 Tower Drive
Stoughton, WI 53589

RE: Artificial Wetland Exemption Determination for two storm water ponds and Wetlands W-2, W-3 and W-4 located at SW SW T6N R12E S12 in the Village of Cambridge, Dane County.

Dear Andrew Arnett,

The Department has completed your request for an artificial wetland exemption determination for two storm water ponds and Wetlands W-2, W-3 and W-4 (see attached map).

According to s. 281.36 (4n), Wis. Stats., a landscape feature where hydrophytic vegetation may be present as a result of human modification to the landscape or hydrology and for which no definitive evidence exists showing a prior wetland or stream history before August 1, 1991, may be exempt from state wetland regulations. The following types of artificial wetlands cannot be exempted from state wetland regulation: 1) a wetland that serves as a fish spawning area or that is passage to a fish spawning area and 2) a wetland created as a result of a wetland mitigation requirement. In addition, the Department also evaluated whether the wetlands are providing significant flood protection to adjacent or downstream properties and infrastructure and providing significant water quality functions to adjacent or downstream water bodies.

The Department reviewed the following materials during its exemption determination and the results of the review are explained below:

1. The request narrative
2. Site location map and photos showing various viewpoints in the wetlands
3. Historic Maps such as the Original Land Survey Plat, Bordner Survey, USGS topographic Quad map, and soil maps.
4. 2005 historical aerial image of site construction.

ELIGIBLE

Based on the information reviewed above, the wetland identified as two storm water ponds and Wetlands W-2, W-3 and W-4, lacked a wetland history prior to August 1, 1991, and fulfills all artificial wetland exemption requirements. Therefore, two storm water ponds and Wetlands W-2, W-3 and W-4 are exempt from state wetland regulations.

This letter describes the Department's decision regarding the jurisdictional status of two storm water ponds and Wetlands W-2, W-3 and W-4, and are only valid for state jurisdictional purposes. For decisions regarding the federal jurisdictional status of two storm water ponds and Wetlands W-2, W-3 and W-4, please contact the U.S. Army Corps of Engineers.

If you have any questions, please contact me at 608-228-4067 or at Allen.Ramminger@wisconsin.gov

Sincerely,



Allen Ramminger
Water Management Specialist

Email CC:
USACE Project Manager
Village Zoning Administrator
WDNR Conservation Warden
Consultant


Chickadee Dr
Highland Dr
Bluebird Pass
Oriole Ln
Waverly Dr
P15
P14
P12
W-3
P10
W-2
P13
P11
Stormwater Pond 2
P7
P6
P17
P5
W-4
P16
Stormwater Pond 1
W-1
P4
P9
P8
P3
P2
P1
N
T7N R12E
T7N R13E
US 12/US 18
US 18
T6N R12E
T6N R13E
Study Area (23.24 ac)
Dane Co 1' Contours
Field Delineated Wetlands (2.20 ac)
Stormwater Ponds (1.67 ac)
Sample Points
Upland
Wetland
0
200
Ft
Heartland
ECOLOGICAL GROUP INC
Figure 7. Field Delineated Wetlands
Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co
2022 Orthophoto
Dane Co, MEG
LRR: NCNE
Figure Created: 10/29/2025

Assured Wetland Delineation Report

Highland Prairie

Village of Cambridge, Dane County, Wisconsin

January 30, 2026

Project Number: 20251676

506 Springdale Street | Mount Horeb, WI 53572 | www.heartlandecological.com

Highland Prairie

Village of Cambridge, Dane County, Wisconsin

January 30, 2026

Prepared for:

Mr. Andrew Arnett

Highland Prairie, LLC

2255 Tower Drive

Stoughton, WI 53589

Prepared by:

Heartland Ecological Group, Inc.

506 Springdale Street

Mount Horeb, WI 53572

608-490-2450

www.heartlandecological.com

Max McCarty

Preparation Assistant: Maxwell McCarty, Natural Resources Specialist



Lead Investigator and Final Reviewer: Jeff Kraemer, Principal Scientist

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4.0 Conclusion 14

5.0 References 15

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Appendix B | APT Analysis

Appendix C | Wetland Determination Data Sheets

Appendix D | Site Photographs

Appendix E | Delineator Qualifications

Appendix F | NAIP Imagery

1.0 Introduction

Heartland Ecological Group, Inc. ("Heartland") completed an assured wetland determination and delineation on the Highland Prairie site on October 10, 2025, at the request of Highland Prairie, LLC. Fieldwork was completed by Jeff Kraemer, an assured delineator qualified via the Wisconsin Department of Natural Resources' (WDNR's) Wetland Delineation Assurance Program (Appendix E, Qualifications). The 23.24-acre site (the "Study Area") is southwest of the intersection of County Trunk Highway (CTH) PQ and US Highway 12, in the southwest ¼ of Section 12, T6N, R12E, Village of Cambridge, Dane County, Wisconsin (Figure 1, Appendix A). The purpose of the wetland delineation was to determine the location and extent of wetlands within the Study Area and to identify and approximately map observed waterways/watercourses and waterbodies.

Four (4) wetland areas totaling approximately 2.20 acres were delineated and mapped within the Study Area (Figure 7, Appendix A). Additionally, two (2) stormwater ponds totaling approximately 1.67 acres were identified and mapped within the Study Area.

Wetlands, waterways/watercourses, and waterbodies discussed in this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers (USACE), state regulation under the jurisdiction of the WDNR, and local zoning authorities. Heartland recommends this report be submitted to local authorities, the WDNR, and USACE for final jurisdictional review and concurrence.

2.0 Methods

2.1 Wetlands

Wetlands were determined and delineated using the criteria and methods described in the USACE Wetland Delineation Manual, T.R. Y-87-1 ("1987 Corps Manual") and the applicable *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*. In addition, the *Guidance for Submittal of Delineation Reports to the St. Paul District USACE and the WDNR* (WDNR, 2015) was followed in completing the wetland delineation and report.

Determinations and delineations utilized available resources including the U.S. Geological Survey's (USGS) *WI 7.5 Minute Series (Topographic) Map* (Figure 2, Appendix A), the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service's (NRCS) Soil Survey Geographic Database (SSURGO) *Web Soil Survey* (Figure 3, Appendix A), the WDNR's *Wetland Indicator* data layer (Figure 4, Appendix A), the WDNR's *Wisconsin Wetland Inventory* data layer (Figure 5, Appendix A), the WNDR's *24k Hydro Flowlines (Rivers and Streams)* data layer (Figures 2 and 5, Appendix A), the WDNR's *Color-Stretch LiDAR and Hillshade Image Service Layer* (Figure 6, Appendix A), and aerial imagery available through the USDA Farm Service Agency's (FSA) National Agriculture Imagery Program (NAIP) and Dane County's Land Information Office.

Wetland determinations were completed on-site at sample points, often along transects, using the three (3) criteria (vegetation, soil, and hydrology) approach per the 1987 Corps Manual and the Regional Supplement. Procedures in these sources were followed to demonstrate that, under normal circumstances, wetlands were present or not present based on a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology.

Recent weather conditions influence the visibility or presence of certain wetland hydrology indicators. An assessment of recent precipitation patterns helps to determine if climatic/hydrologic conditions were typical when the field investigation was completed. Therefore, a review of antecedent precipitation in the 90 days leading up to the field investigation was completed. Using an Antecedent Precipitation Tool (APT) analysis developed by the USACE (Deters & Gutenson 2021), the amount of precipitation over these 90 days was compared to averages and standard deviation thresholds observed over the past 30 years to generally represent if conditions encountered during the investigation were normal, wet, or dry. Recent precipitation events in the weeks prior to the investigation were

also considered while interpreting wetland hydrology indicators. Additionally, the Palmer Drought Severity Index was checked for long-term drought or moist conditions (NOAA, 2018).

The uppermost wetland boundary and sample points were identified and marked with wetland flagging and located with a Global Navigation Satellite System (GNSS) receiver capable of sub-meter accuracy. In some cases, wetland flagging was not utilized to mark the boundary and the location was only recorded with a GNSS receiver, particularly in active agricultural areas. The GNSS data was then used to map the wetlands using ESRI ArcGIS Pro™ software.

3.0 Results and Discussion

3.1 Desktop Review

Climatic Conditions

According to the APT analysis using the previous 90 days of precipitation data, conditions encountered at the time of the fieldwork were expected to be normal for the time of year (Appendix B). The Palmer Drought Severity Index was checked as part of the APT analysis, and the long-term conditions at the time of the fieldwork were in the mild wetness range. Fieldwork was completed outside the dry season based on long-term regional hydrology data utilized in the WebWIMP Climatic Water Balance and computed as part of the APT analysis. The growing season was determined to still be underway based on several species still green and trees and shrubs that have not yet senesced.

General Topography and Land Use

The topography within the Study Area was rolling, with various hills, depressions, and a well-defined slope along the western edge of the Study Area. A topographic high of approximately 870 feet above mean sea level (msl) was recorded on the northwest side, and a topographic low of approximately 823 feet above msl was recorded near the southeast corner (Figures 2, 6, and 7, Appendix A). Land use within the Study Area is primarily unoccupied old field, shrub/scrub, wet meadow and woodland. Surrounding areas are primarily agricultural row cropping, with meadows, woodland, and residential properties also present. General drainage is to the southeast.

Soil Mapping

Soils mapped by the NRCS Soil Survey within the Study Area and their hydric status are summarized in Table 1. Wetlands identified during the field investigation are located primarily within areas mapped as hydric or partially hydric soils including wetland indicator soils (Figures 3 and 4, Appendix A).

Table 1. Summary of NRCS Mapped Soils within the Study Area

Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
489A: Marshan silt loam	Marshan	90	Depressions on stream terraces	Yes
	Sable	5	Depressions on stream terraces	Yes
	Hayfield	3	Outwash plains	No
	Palms	2	Depressions	Yes
7104B: Virgil silt loam, 1-4% slopes	Virgil	85-95	Interdrumlins	No
	Sable	3-8	Interdrumlins	Yes
	St. Charles	2-7	Drumlins	No
7124B: Dodge silt loam, 2-6% slopes	Dodge	80-95	Drumlins	No
	St. Charles	3-10	Drumlins	No
	Mayville	2-7	Drumlins	No
	Lamartine	0-3	Drumlins	No
7124C2: Dodge silt loam, 6-12% slopes, eroded	Dodge-Eroded	80-90	Drumlins	No
	St. Charles-Eroded	7-13	Till plains	No
	McHenry-Eroded	3-7	Moraines	No
7197A: Troxel silt loam, 0-3% slopes	Troxel-Wet substratum	80-90	Depressions, moraines	No
	Elburn	5-11	Drainageways	No
	Plano	5-9	Till plains	No
7204A: Virgil silt loam, gravelly substratum, 0-3% slopes	Virgil-Gravelly substratum	85-95	Drainageways on outwash plains	No
	Sebewa	2-5	Depressions on outwash plains	Yes
	Drummer-Drained	5-6	Depressions on outwash plains	Yes

Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
	Sable	1-4	Depressions on outwash plains	Yes
7325C2: Dresden silt loam, 6-12% slopes, eroded	Dresden-Eroded	85-95	Plains	No
	Casco-Eroded	3-8	Moraines	No
	Kegonsa	2-7	Plains	No
7327B: Kegonsa silt loam, 2-6% slopes	Kegonsa	90	Outwash plains	No
	Batavia-Gravelly substratum	5	Outwash plains	No
	Dresden-Silt loam	3	Outwash plains	No
	Warsaw	2	Outwash plains	No
7698B: Grays silt loam, 2-6% slopes	Grays	90	Lake plains	No
	Salter-Mwd	5	Lake plains	No
	Zurich	3	Lake plains	No
	Wauconda	2	Lakebeds (relict)	No
7748B: Plano silt loam, gravelly substratum, 2-6% slopes	Plano-Gravelly substratum	80-90	Outwash plains	No
	Warsaw	5-10	Outwash plains	No
	Plano-Moderately wet, gravelly substratum	5-10	Outwash plains	No
AL-W: Alluvial land, wet	Alluvial land, wet	75	Flood plains	No
	Otter	5	Flood plains on stream terraces, depressions on stream terraces	Yes
	Orion variant-Poorly drained	5	Flood plains	Yes
	Orion	5	Flood plains	No
	Palms	5	Depressions	Yes
	Water	5	—	No

Wetland Mapping

The Wisconsin Wetlands Inventory (WWI) mapping (Figure 5, Appendix A) depicts two (2) wetland areas within the Study Area. One (1) is a forested (T3K) wetland in the southeast corner and the other is a forested, emergent wet meadow (T3/E2K) wetland just south of the forested wetland along the southeast border. Additionally, there are three (3) wetland points in the eastern portion of the Study Area.

Waterway/Watercourse and Waterbody Mapping

The WDNR's Rivers and Streams data layer (Figures 2 and 5, Appendix A) does not depict any waterways, watercourses, or waterbodies within the Study Area.

Aerial Photography

Available NAIP imagery of the Study Area from the period of 2004-2024 (Appendix F) was reviewed for evidence of wetland signatures and to gain insight into the site's recent history. Residential development on the northwestern side of the Study Area began in 2005 and was completed in 2018. The stormwater ponds appeared to have been constructed between 2004 and 2005. The Study Area was partially graded between 2004 and 2010, presumably for the residential construction to the northwest but not completed. The Study Area was revegetated and remained primarily undisturbed following the 2008 image, however mowed paths are visible in some years.

3.2 Field Review

Four (4) wetlands were identified and delineated within the Study Area. Wetland determination data sheets (Appendix C) were completed at 17 sample points that were representative of the wetland and upland conditions near the boundary and where potential wetlands may be present based on the desktop review and field reconnaissance. Appendix D provides photographs, typically at the sample point locations of the wetlands and adjacent uplands. Photographs providing evidence of growing season are also included. The wetland boundary and sample point locations are shown on Figure 7 (Appendix A), and the wetlands are summarized in Table 2 and detailed in the following sections.

Table 2. Summary of Wetlands Identified within the Study Area

Wetland ID	Wetland Description	*Surface Water Connections	*NR151 Protective Area	Acreage (on-site)
W-1	Wet Meadow/Ruderal Hardwood Swamp	Potential Off-site Connection to a Tributary to Koshkonong Creek	Less susceptible, 10-30 feet	1.68
W-2	Wet Meadow/Shrub Carr	Potentially isolated and artificial	Less susceptible, 10-30 feet	0.17
W-3	Wet Meadow	Potentially isolated and artificial	Less susceptible, 10-30 feet	0.26
W-4	Wet Meadow	Potentially isolated artificial	Less susceptible, 10-30 feet	0.09
*Classification based on Heartland's professional opinion. Jurisdictional authority of wetland and waterway protective areas under NR 151 lies with the WDNR. Local zoning authorities may have additional restrictions. USACE has authority for determining federal jurisdiction of wetlands and waterways.				2.20

Wetland 1 (W-1)

Wetland 1 (W-1) is a 1.68-acre complex of wet meadow and ruderal hardwood swamp communities located in the southeastern portion of the Study Area. W-1 is likely contiguous to an unnamed tributary to Koshkonong Creek that lies just southeast of the Study Area. The boundary of W-1 generally coincided with a poorly defined topographic break.

Dominant vegetation observed in W-1 included box elder (*Acer negundo*, FAC), black maple (*Acer saccharum,* FACU), silver maple (*Acer saccharinum*, FACW), common buckthorn (*Rhamnus cathartica*, FAC), silky dogwood (*Cornus racemosa*, FACW), and reed canary grass (*Phalaris arundinacea*, FACW). Therefore, the wetland vegetation parameter was met.

The Depleted Matrix (F3) and Redox Dark Surface (F6) hydric soil indicators were noted in W-1. Thus, the hydric soil parameter was met.

The primary wetland hydrology indicator of Saturation (A3) was noted within W-1. Furthermore, the secondary indicators included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.

Wetland 2 (W-2)

Wetland 2 (W-2) is a 0.17-acre complex of wet meadow and shrub carr communities located in the northeast portion of the Study Area. The wetland appears to have developed as a result of grading, spoil piles are present surround the margin. The boundary of W-2 coincided with a moderately defined topographic break.

Dominant vegetation observed in W-2 included American elm (*Ulmus americana*, FACW), black willow (*Salix nigra*, OBL), eastern cottonwood (*Populus deltoides*, FAC), sandbar willow (*Salix interior*, FACW), and reed canary grass (FACW). Therefore, the wetland vegetation parameter was met based on the Dominance Test.

The hydric soil indicators Depleted Below Dark Surfaces (A11) and Depleted Matrix (F3) were noted in W-2. Therefore, the hydric soil parameter was met.

No primary wetland hydrology indicators were noted in W-2, however the secondary indicators Geomorphic Position (D2), and a positive FAC-Neutral Test (D5) were noted. Therefore, the wetland hydrology parameter was met.

Wetland 3 (W-3)

Wetland 3 (W-3) is a 0.26-acre wet meadow gully and depressional area that commences at the point discharge of a sewer outfall situated at the end of the dead-end roadway north of W-3. The wetland appears to have developed artificially due to the point discharge and may also have been constructed as a temporary erosion control device based on observed riprap present. The boundary correlated mostly with a poorly defined topographic break.

Dominant vegetation observed in W-3 included black willow (OBL), sandbar willow (FACW), hybrid cattail (*Typha x glauca*, OBL), and reed canary grass (FACW). Therefore, the hydrophytic vegetation parameter was met.

The Depleted Below Dark Surface (A11) and Depleted Matrix (F3) hydric soil indicators were noted in W-3. Therefore, hydric soil parameter was met.

The only primary wetland hydrology indicator noted in W-3 was Surface Water (A1). Additionally, secondary wetland hydrology indicators included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.

Wetland 4 (W-4)

Wetland 4 (W-4) is a 0.09-acre wet meadow situated adjacent to a riparian swale that discharges nearby. The wetland appears to have developed artificially from grading relics and/or temporary erosion control.

Dominant vegetation observed in W-4 included box elder (FAC), red-osier dogwood (*Cornus alba*, FACW), and reed canary grass (FACW). Therefore, the wetland vegetation parameter was met based on the Dominance Test and having a Prevalance Index of 2.04.

The hydric soil indicators Depleted Below Dark Surfaces (A11) and Depleted Matrix (F3) were noted in W-4. Therefore, the hydric soil parameter was met.

No primary wetland hydrology indicators were noted in W-4. However, the secondary indicators of Geomorphic Position (D2) and a positive FAC-Neutral Test (D5) were noted. Therefore, the wetland hydrology parameter was met.

Waterways/Watercourses and Waterbodies

Two (2) constructed stormwater ponds were mapped within or immediately adjacent to the Study Area.

3.3 Other Considerations

This report is limited to the identification and delineation of wetlands within the Study Area. Other regulated environmental resources that could result in land use restrictions may be present within the Study Area that were not evaluated by Heartland (e.g., navigable waterways/watercourses, floodplains, cultural resources, and threatened or endangered species).

Wisconsin Act 183 provides exemptions to permitting requirements for certain nonfederal wetlands. Nonfederal wetlands are wetlands that are not subject to federal jurisdiction. Exemptions apply to projects in urban areas with wetland impacts up to 1-acre per parcel. An urban area is defined as an incorporated area; an area within ½ mile of an incorporated area; or an area served by a sewerage system. Exemptions for nonfederal wetlands also apply to projects in rural areas with wetland impacts up to three (3) acres per parcel. Exemptions in rural areas only apply to structures with an agricultural purpose such as buildings, roads, and driveways. The determination of federal and nonfederal wetlands

MUST be made by the USACE through an Approved Jurisdictional Determination (AJD). This report may be submitted to the USACE to assist with their determination.

Wis. Adm. Code NR 151 ("NR 151") requires that a "protective area" (buffer) be determined from the Ordinary High-Water Mark (OHWM) of lakes, navigable waterways such as streams and rivers, or at the delineated boundary of wetlands. Per NR 151.125, the protective area width for "less susceptible" wetlands (dominated by invasive or non-native plant species) is determined by using 10% of the average wetland width, no less than 10 feet or more than 30 feet. "Moderately susceptible" wetlands, lakes, and perennial and intermittent navigable waterways have mostly native species dominating and require a protective area width of 50 feet; while "highly susceptible wetlands" have significant native species dominating and may be associated with outstanding or exceptional resource waters in areas of special natural resource interest and require protective area width of 75 feet. Table 2 in Section 3.2 above lists the potential wetland buffers per NR 151 for each wetland identified based on Heartland's professional opinion. Please note that jurisdictional authority on wetland and waterway protective areas under NR 151 lies with the WDNR. Local zoning authorities and regional planning organizations may have additional land use restrictions within or adjacent to wetlands.

4.0 Conclusion

Heartland completed an assured wetland determination and delineation within the Highland Prairie Site on October 10, 2025, at the request of Highland Prairie, LLC. Fieldwork was completed by Jeff Kraemer, an assured delineator qualified via the WDNR's Wetland Delineation Assurance Program (Appendix E). The Study Area lies in Section 12, T6N, R21E, Village of Cambridge, Dane County, WI (Figure 1, Appendix A).

Four (4) wetland areas, and two (2) stormwater ponds were delineated and mapped within the 23.24 Study Area (Figure 7, Appendix A). The wetlands, which may be classified as wet meadow, shrub carr, and ruderal hardwood swamp, total approximately 2.20 acres within the Study Area. The storm water ponds total approximately 1.67-acres. Wetlands W-2, W-3, and W-4 appear to have developed artificially as a result of past grading and erosion control. Stormwater ponds were also constructed.

Wetlands, waterways/watercourses, and waterbodies discussed in this report may be subject to federal regulation under the jurisdiction of the USACE, state regulation under the jurisdiction of the WDNR, and the local zoning authority. Heartland recommends this report be submitted to the USACE and WDNR for final jurisdictional review and concurrence. Review by local authorities may be necessary for determination of any applicable zoning and setback restrictions.

Heartland recommends that all applicable regulatory agency reviews and permits are obtained prior to beginning work within the Study Area or within or adjacent to wetlands or waterways. Heartland can assist with evaluating the need for additional environmental reviews, surveys, or regulatory agency coordination in consideration of the proposed activity and land use as requested but is outside of the scope of the wetland delineation.

Experienced and qualified professionals completed the wetland determination and delineation using standard practices and professional judgment. Wetland boundaries may be affected by conditions present within the Study Area at the time of the fieldwork. All final decisions on wetlands and their boundaries are made by the USACE, the WDNR, and/or sometimes a local unit of government. Wetland determination and boundary reviews by regulatory agencies may result in modifications to the findings presented to the Client. These modifications may result from varying conditions between the time the wetland delineation was completed and the time of the review. Factors that may influence the

findings may include but are not limited to precipitation patterns, drainage modifications, changes or modification to vegetation, and the time of year.

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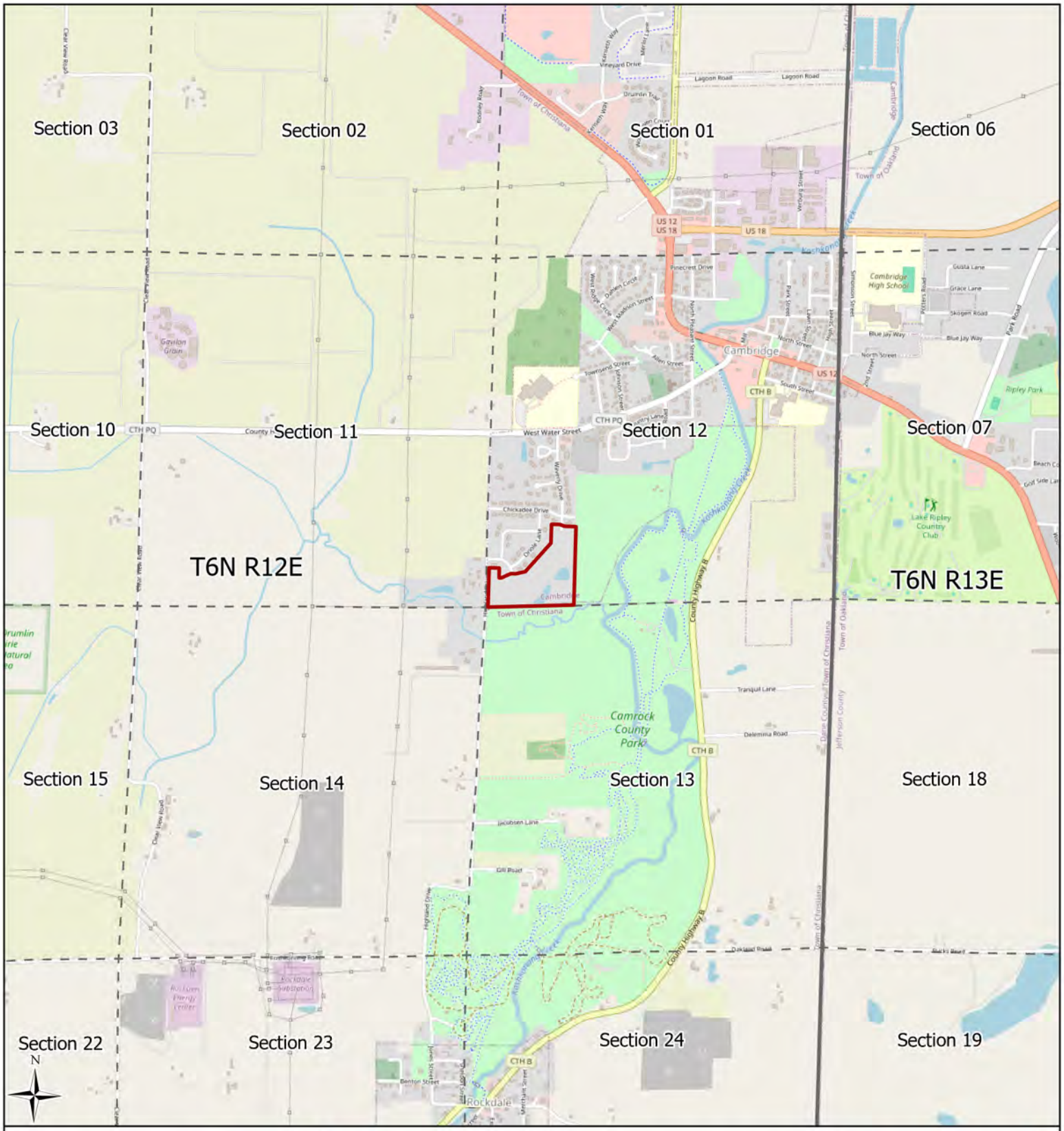
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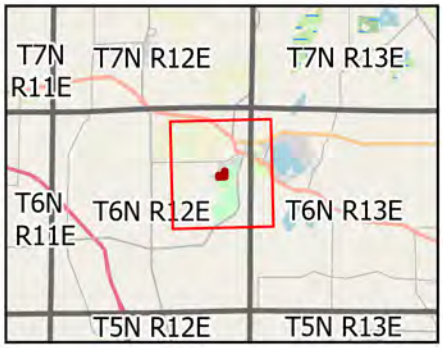
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Highland Prairie, LLC
Highland Prairie
Project #: 20251676
January 30, 2026

Appendix A | Figures





Study Area (23.24 ac)

Township

Section

0 1,000 2,000 Ft

Heartland ECOLOGICAL GROUP INC

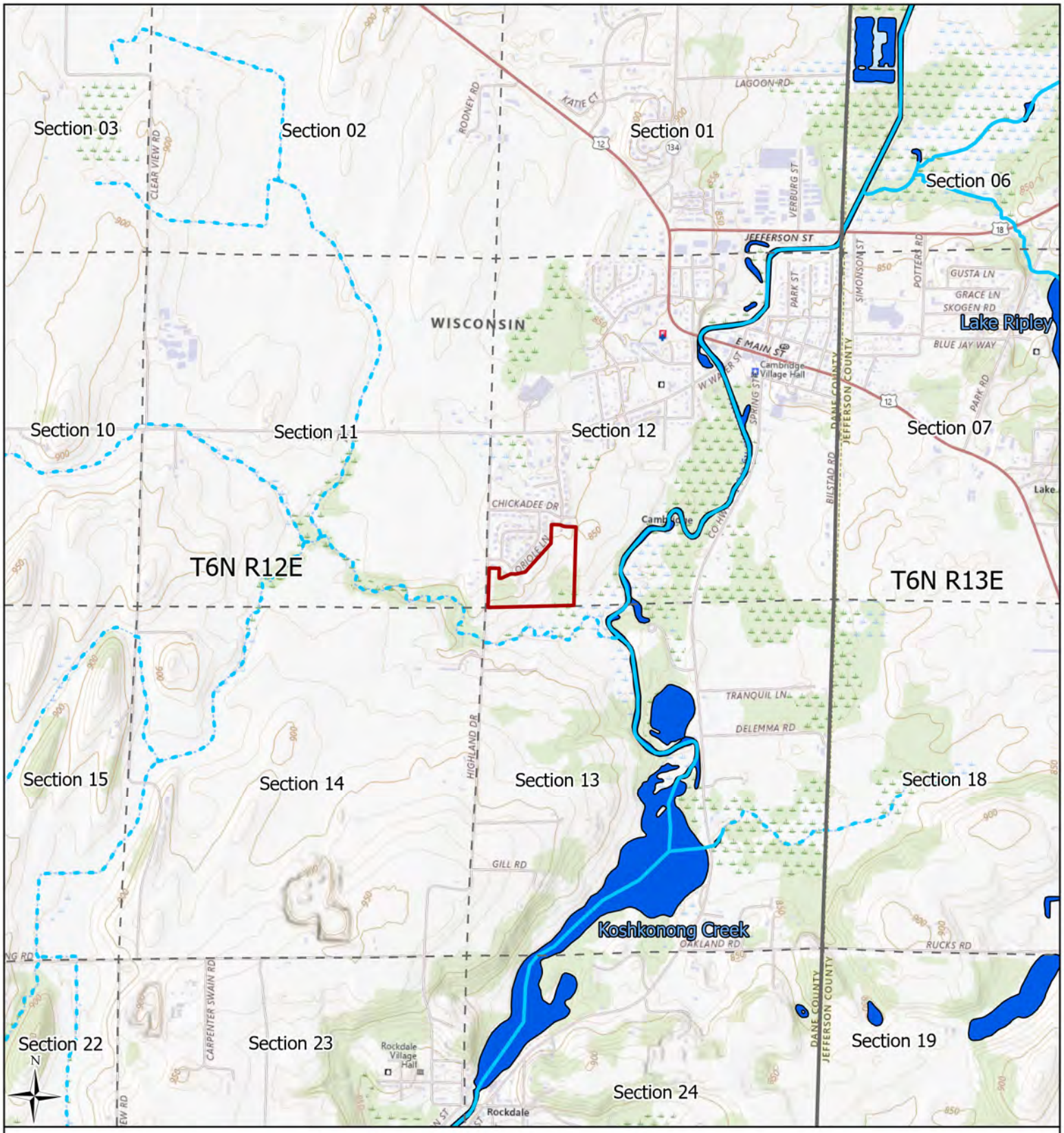
Figure 1. Project Location

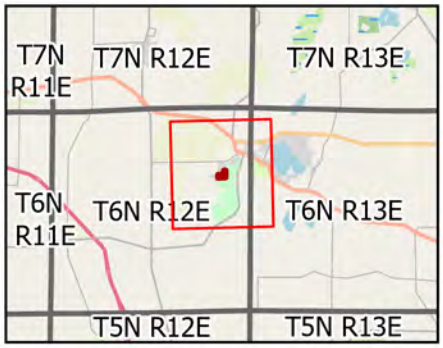
Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

OpenStreetMap
ESRI

LRR: NCNE

Figure Created: 10/6/2025





Study Area (23.24 ac)
Township
Section
Perennial Streams
Intermittent Streams
Waterbodies

0 1,000 2,000 Ft

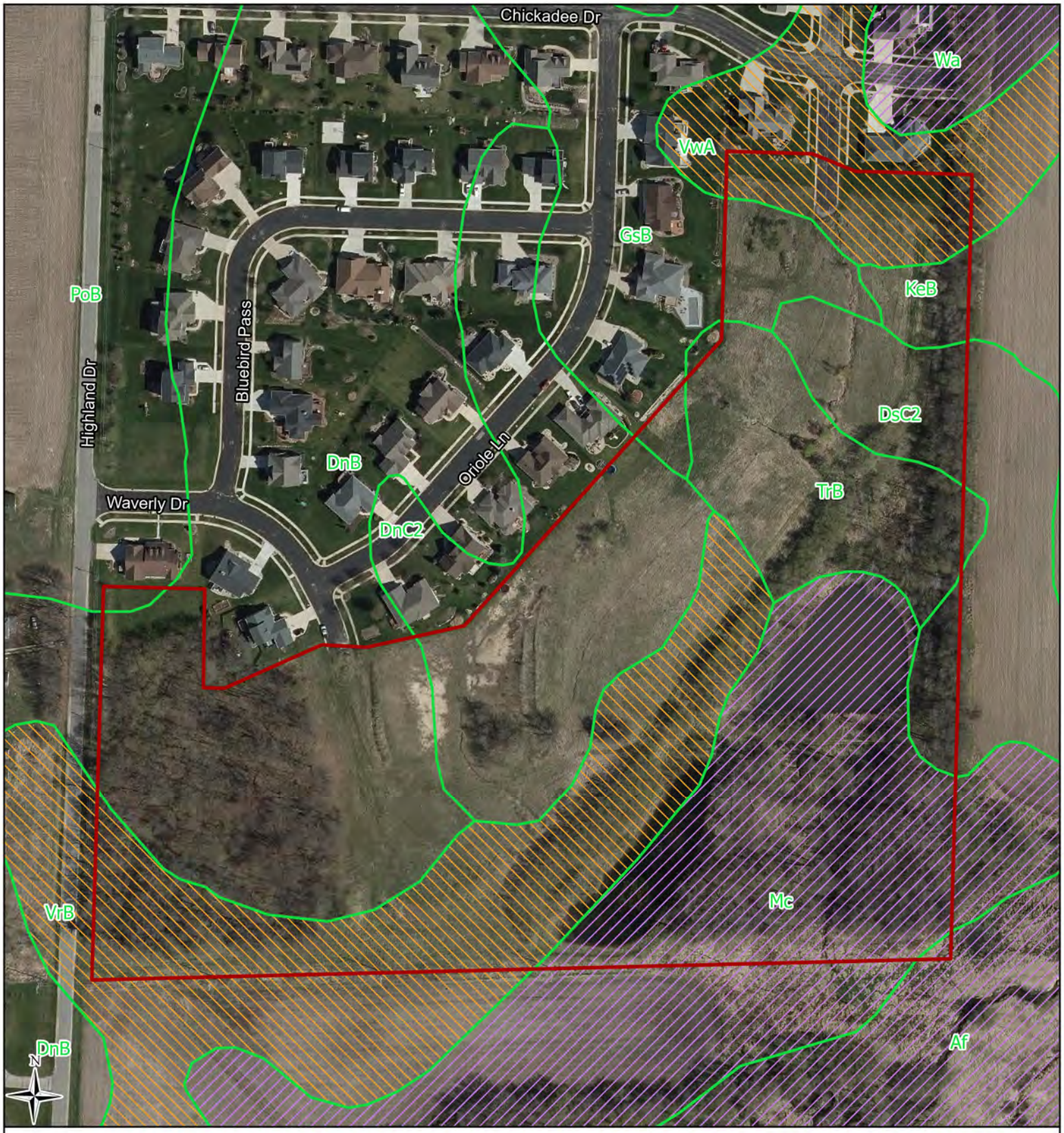
Heartland ECOLOGICAL GROUP INC

Figure 2. USGS Topography

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

USGSTopo
USGS, WDNR
LRR: NCNE

Figure Created: 10/6/2025



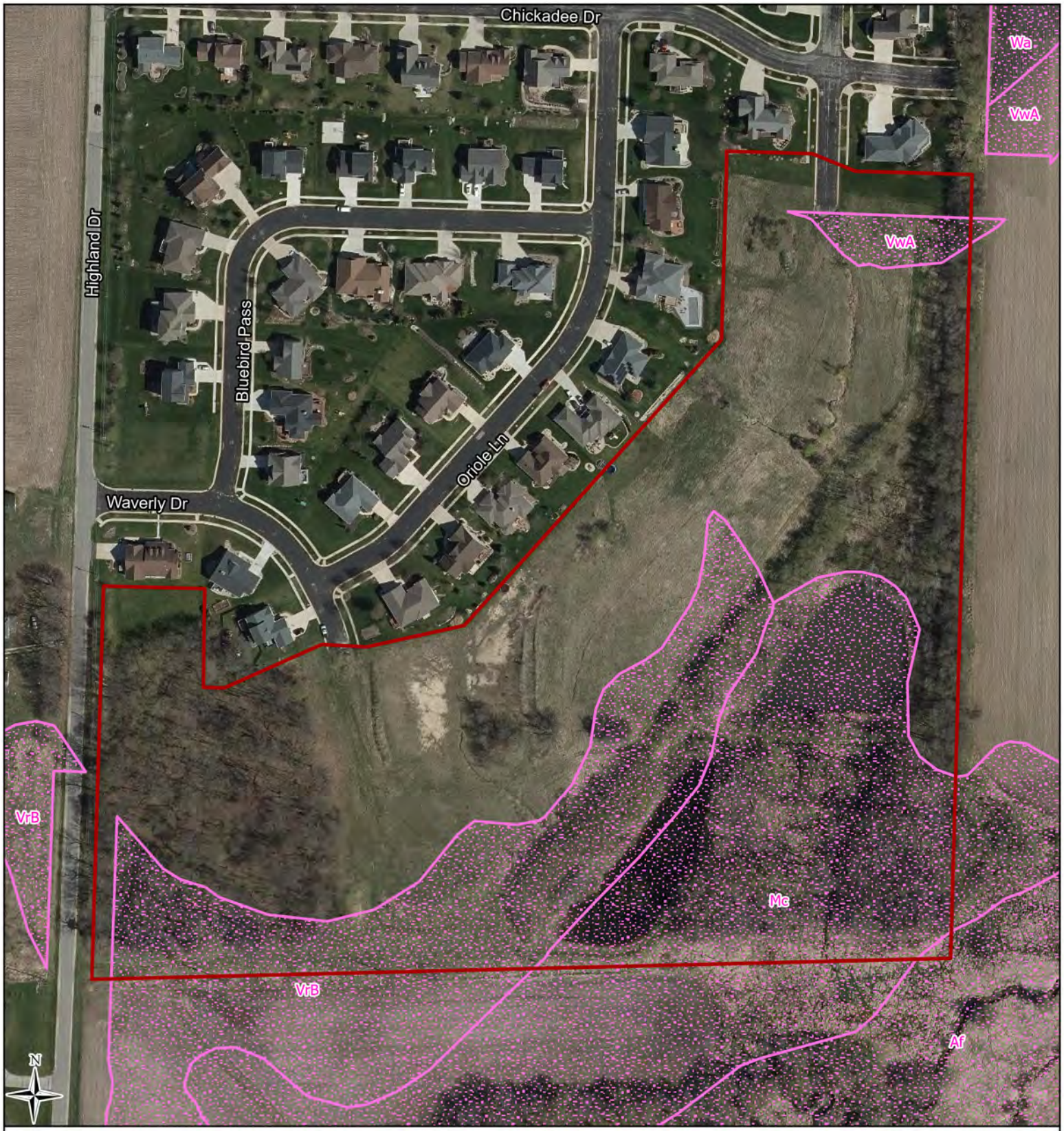
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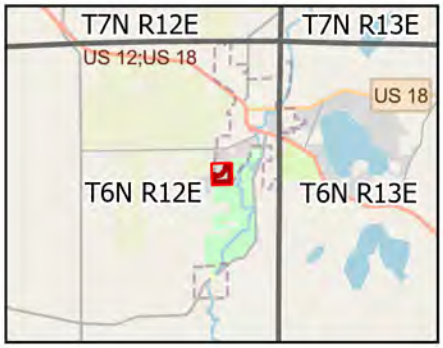
Figure 3. NRCS Hydric Soils

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2022 Orthophoto
NRCS
LRR: NCNE

Figure Created: 10/6/2025





Study Area (23.24 ac)

SWDV Wetland Indicators

0 200 Ft

Heartland ECOLOGICAL GROUP INC

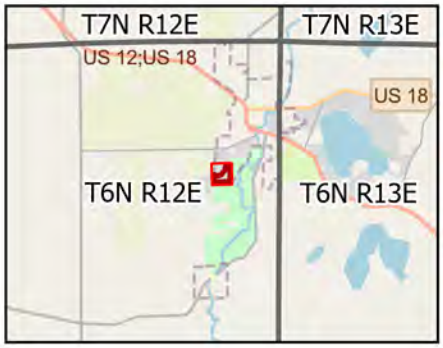
Figure 4. SWDV Wetland Indicators

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2022 Orthophoto
WDNR LRR: NCNE

Figure Created: 10/6/2025





Study Area (23.24 ac)
WWI Polygons
WWI Points
Perennial Streams (None in Map Extent)
Intermittent Streams
Waterbodies (None in Map Extent)

0 200 Ft

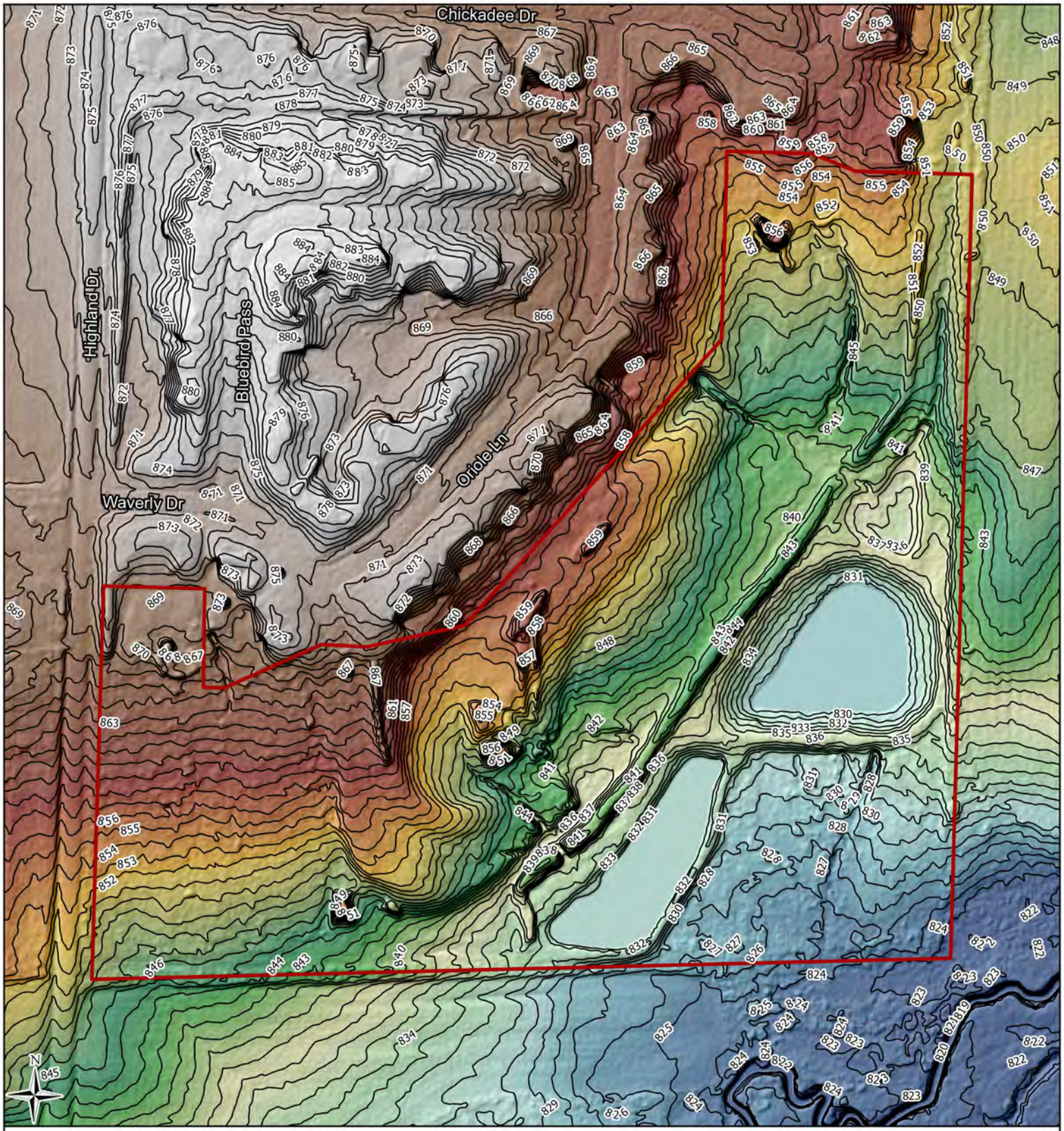
Heartland
ECOLOGICAL GROUP INC

Figure 5. Wisconsin Wetland Inventory

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2022 Orthophoto
WDNR, USGS
LRR: NCNE

Figure Created: 10/6/2025





Study Area (23.24 ac)

Dane Co 1' Contours

0 200 Ft

Heartland
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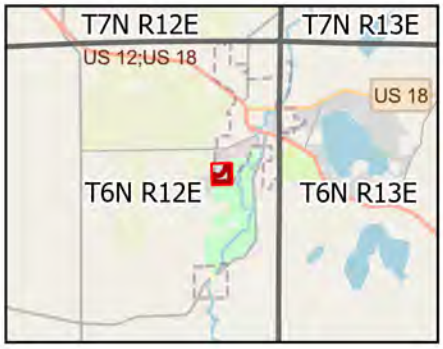
Figure 6. Color-Stretch Digital Elevation Model

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

DNR Lidar Service Layer
Dane Co, HEG LRR: NCNE

Figure Created: 10/6/2025





Study Area (23.24 ac)
Dane Co 1' Contours
Field Delineated Wetlands (2.20 ac)
Stormwater Ponds (1.67 ac)

0 200 Ft

Sample Points

- Upland
- Wetland

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Figure 7. Field Delineated Wetlands

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2022 Orthophoto
Dane Co, HEG

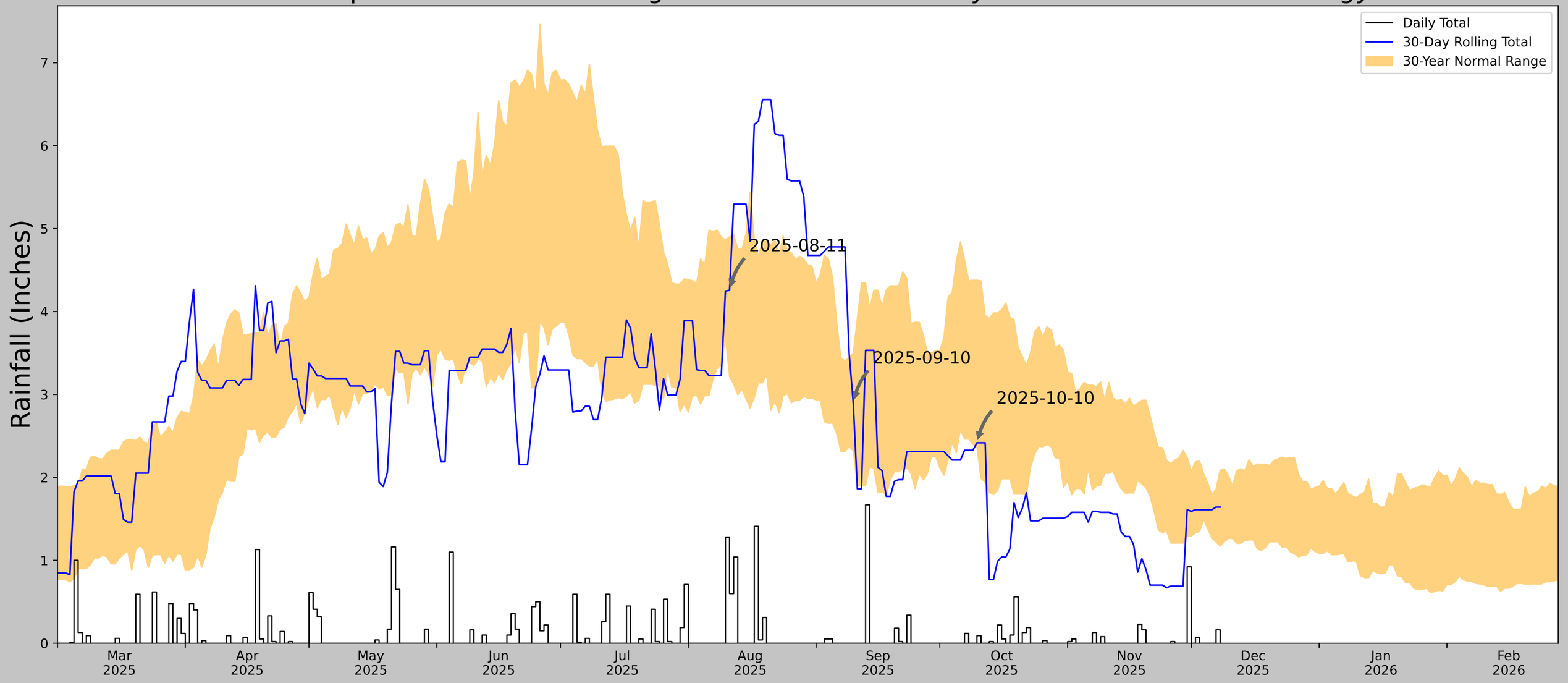
LRR: NCNE

Figure Created: 10/29/2025

Highland Prairie, LLC
Highland Prairie
Project #: 20251676
January 30, 2026

Appendix B | APT Analysis

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	42.99421, -89.02933
Observation Date	2025-10-10
Elevation (ft)	843.821
Drought Index (PDSI)	Mild wetness
WebWIMP H_2O Balance	Wet Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2025-10-10	2.366142	4.377559	2.417323	Normal	2	3	6
2025-09-10	2.322441	3.5	2.901575	Normal	2	2	4
2025-08-11	3.219685	4.900394	4.255906	Normal	2	1	2
Result							Normal Conditions - 12

Figures and tables made by the
Antecedent Precipitation Tool
Version 3.0

US Army Corps of Engineers.
ERDC

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and
Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
LAKE MILLS WWTP	43.0803, -88.8967	811.024	8.958	32.797	4.325	10905	89
LAKE MILLS 4.3 N	43.1361, -88.9006	847.113	3.86	36.089	1.876	3	1
LAKE MILLS 3.6 WNW	43.0891, -88.9765	855.971	4.073	44.947	2.016	3	0
JOHNSON CREEK 3.2 NW	43.1156, -88.8128	884.843	4.885	73.819	2.559	2	0
JEFFERSON WWTP	42.9942, -88.8042	783.137	7.564	27.887	3.615	4	0
WATERTOWN WWTP	43.1742, -88.7364	825.131	10.365	14.107	4.81	435	0
FT ATKINSON WWTP	42.905, -88.8589	787.074	12.262	23.95	5.812	1	0

Highland Prairie, LLC
Highland Prairie
Project #: 20251676
January 30, 2026

Appendix C | Wetland Determination Data Sheets

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P1

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Sideslope Local relief (concave, convex, none): None Slope %: 3-5%

Subregion (LRR or MLRA): LRR K Lat: 42.9929732 Long: -89.0318444 Datum: WGS84

Soil Map Unit Name: Virgil silt loam, 1 to 4 percent slopes NWI classification: None per WWI

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Sample point recoded near electric transmission row. Subsoil seems disturbed, mixing of top soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
No wetland hydrology indicators observed, no saturation.

VEGETATION – Use scientific names of plants. Sampling Point: P1

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Carya ovata*	10	Yes	FACU
2. *Tilia americana*	10	Yes	FACU
3. *Juniperus virginiana*	5	Yes	FACU
4.			
5.			
6.			
7.			
	25	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Rhamnus cathartica*	15	Yes	FAC
2. *Rosa multiflora*	10	Yes	FACU
3.			
4.			
5.			
6.			
7.			
	25	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Poa pratensis*	60	Yes	FACU
2. *Daucus carota*	30	Yes	UPL
3. *Phalaris arundinacea*	10	No	FACW
4. *Solidago canadensis*	10	No	FACU
5. *Rhamnus cathartica*	10	No	FAC
6. *Dactylis glomerata*	5	No	FACU
7. *Cirsium arvense*	5	No	FACU
8. *Erigeron strigosus*	5	No	FACU
9. *Cirsium vulgare*	3	No	FACU
10.			
11.			
12.			
	138	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 14.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	25	x 3 =	75
FACU species	123	x 4 =	492
UPL species	30	x 5 =	150
Column Totals:	188 (A)		737 (B)

Prevalence Index = B/A = 3.92

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Upland old field community

SOIL

Sampling Point: P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3/1	100					Loamy/Clayey	SIL
12-24	10YR 3/3	52					Loamy/Clayey	SIL
	10YR 4/3	25	10YR 4/6	3	C	M		Distinct redox concentrations
			10YR 4/2	15	D	M		
	10YR 3/2	5						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Subsoil seems disturbed, mixing present in top soil

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P2

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Sideslope Local relief (concave, convex, none): None Slope %: 3-5%

Subregion (LRR or MLRA): LRR K Lat: 42.9930858 Long: -89.0299977 Datum: WGS84

Soil Map Unit Name: Virgil silt loam, 1 to 4 percent slopes NWI classification: None per WWI

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Sample point recoded near electric transmission row. Soils seem disturbed from mixing.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
No wetland hydrology indicators observed, no saturation.

VEGETATION – Use scientific names of plants. Sampling Point: P2

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Poa pratensis*	60	Yes	FACU
2. *Bromus inermis*	20	Yes	UPL
3. *Setaria pumila*	15	No	FAC
4. *Lolium perenne*	10	No	FACU
5. *Solidago canadensis*	10	No	FACU
6. *Daucus carota*	8	No	UPL
7. *Phalaris arundinacea*	5	No	FACW
8. *Erigeron strigosus*	3	No	FACU
9. *Cirsium arvense*	3	No	FACU
10.			
11.			
12.			
	134 =Total Cover		
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	15	x 3 =	45
FACU species	86	x 4 =	344
UPL species	28	x 5 =	140
Column Totals:	134 (A)		539 (B)

Prevalence Index = B/A = 4.02

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Upland old field community

SOIL

Sampling Point: P2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 4/4	100					Loamy/Clayey	SIL
16-24	10YR 4/4	60					Loamy/Clayey	SIL, 5% gravel
	10YR 5/4	40						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Mixed and disturbed soils present

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P3

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Toeslope Local relief (concave, convex, none): None Slope %: 1-3%

Subregion (LRR or MLRA): LRR K Lat: 42.9932870 Long: -89.0285921 Datum: WGS84

Soil Map Unit Name: Marshan silt loam NWI classification: T3K per WWI

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
No wetland hydrology indicators observed, no saturation

VEGETATION – Use scientific names of plants. Sampling Point: P3

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	25	Yes	FAC
2. *Acer saccharum*	25	Yes	FACU
3. *Acer negundo*	10	No	FAC
4.			
5.			
6.			
7.			
	60	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Rhamnus cathartica*	50	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	50	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Rhamnus cathartica*	25	Yes	FAC
2. *Ribes cynosbati*	3	No	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	28	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	110	x 3 =	330
FACU species	28	x 4 =	112
UPL species	0	x 5 =	0
Column Totals:	138 (A)		442 (B)

Prevalence Index = B/A = 3.20

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Upland mesic woods/thicket, weedy hydrophytes more indicative of past disturbance than wetland conditions.

SOIL

Sampling Point P3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 3/2	100					Loamy/Clayey	SIL
16-20	10YR 2/1	100					Loamy/Clayey	SICL
20-24	10YR 3/1	90	10YR 5/8	10	C	M	Loamy/Clayey	SICL, prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

likely sediment overlying buried surface.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P4

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope %: 1-3

Subregion (LRR or MLRA): LRR K Lat: 42.9933436 Long: -89.0284484 Datum: WGS84

Soil Map Unit Name: Marshan silt loam NWI classification: T3K per WWI

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: W-1

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
Only secondary wetland hydrology indicators observed.

VEGETATION – Use scientific names of plants. Sampling Point: P4

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	20	Yes	FAC
2. *Acer saccharum*	10	Yes	FACU
3. *Populus deltoides*	5	No	FAC
4.			
5.			
6.			
7.			
	35	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Rhamnus cathartica*	10	Yes	FAC
2. *Cornus racemosa*	5	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	15	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Phalaris arundinacea*	95	Yes	FACW
2. *Pilea pumila*	5	No	FACW
3. *Solanum dulcamara*	2	No	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	102	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	100	x 2 =	200
FAC species	42	x 3 =	126
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column Totals:	152 (A)		366 (B)

Prevalence Index = B/A = 2.41

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Wet meadow / ruderal hardwood swamp

SOIL

Sampling Point P4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/2	100					Loamy/Clayey	SIL
10-18	10YR 3/1	85	10YR 5/8	15	C	M	Loamy/Clayey	SICL, prominent redox concentrations
18-24	10YR 5/1	85	10YR 5/6	15	C	M	Loamy/Clayey	SIC, prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P5

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope %: 1-3%

Subregion (LRR or MLRA): LRR K Lat: 42.9938318 Long: -89.0283607 Datum: WGS84

Soil Map Unit Name: Marshan silt loam NWI classification: T3K (WWI)

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: W-1

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Sample point taken in ruderal hardwood swamp

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
Only secondary indicators met.

VEGETATION – Use scientific names of plants. Sampling Point: P5

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	20	Yes	FAC
2. *Acer saccharinum*	5	Yes	FACW
3.			
4.			
5.			
6.			
7.			
	25	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Cornus alba*	3	No	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	3	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Phalaris arundinacea*	95	Yes	FACW
2. *Bromus inermis*	5	No	UPL
3. *Urtica dioica*	5	No	FAC
4. *Arctium minus*	1	No	FACU
5. *Parthenocissus inserta*	1	No	FACU
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	107	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	103	x 2 =	206
FAC species	25	x 3 =	75
FACU species	2	x 4 =	8
UPL species	5	x 5 =	25
Column Totals:	135 (A)		314 (B)

Prevalence Index = B/A = 2.33

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Ruderal hardwood swamp

SOIL

Sampling Point P5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/2	100					Loamy/Clayey	SIL
10-20	10YR 3/1	88	10YR 5/6	12	C	M	Loamy/Clayey	SICL, prominent redox concentrations
20-24	10YR 5/1	85	10YR 5/8	15	C	M	Loamy/Clayey	SIC, prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P6

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): berm Local relief (concave, convex, none): None Slope %: 3-5%

Subregion (LRR or MLRA): LRR K Lat: 42.9939300 Long: -89.0283562 Datum: WGS84

Soil Map Unit Name: NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation , Soil X , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area**
Hydric Soil Present?	Yes	No X	**within a Wetland?** **Yes** **No** X
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Sample point taken in upland berm, which is spoils from the nearby constructed ponds.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	No X	Depth (inches):
Water Table Present?	Yes	No X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes	No X	Depth (inches):

Wetland Hydrology Present? **Yes** **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
No wetland hydrology indicators observed, no saturation.

VEGETATION – Use scientific names of plants. Sampling Point: P6

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	20	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	20	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
		=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Phalaris arundinacea*	65	Yes	FACW
2. *Urtica dioica*	25	Yes	FAC
3. *Arctium minus*	20	No	FACU
4. *Bromus inermis*	15	No	UPL
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	125	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	65	x 2 =	130
FAC species	45	x 3 =	135
FACU species	20	x 4 =	80
UPL species	15	x 5 =	75
Column Totals:	145 (A)		420 (B)

Prevalence Index = B/A = 2.90

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
weedy hydrophytes, representative of past disturbance and seedbank rather than wetland conditions.

SOIL

Sampling Point P6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 3/2	65					Loamy/Clayey	SIL, mixed matrix
	10YR 5/1	20						
	10YR 2/2	15						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** ____

Remarks:

Mixed matrix

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P7

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): pond Local relief (concave, convex, none): None Slope %: 1%

Subregion (LRR or MLRA): LRR K Lat: 42.9940609 Long: -89.0283880 Datum: WGS84

Soil Map Unit Name: Marshan silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Sample point taken at OHWM of constructed stormwater pond edge.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- X Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes X	No ____	Depth (inches): 10
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 6

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
Wetland hydrology observed. Stormwater pond, inundated throughout, sample point at edge and above open water.

VEGETATION – Use scientific names of plants. Sampling Point: P7

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix nigra*	35	Yes	OBL
2. *Acer negundo*	15	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	50	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Salix interior*	15	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	15	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Phalaris arundinacea*	85	Yes	FACW
2. *Urtica dioica*	10	No	FAC
3. *Arctium minus*	5	No	FACU
4. *Echinocystis lobata*	5	No	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	105	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	35	x 1 =	35
FACW species	105	x 2 =	210
FAC species	25	x 3 =	75
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	170 (A)		340 (B)

Prevalence Index = B/A = 2.00

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Wet meadow / shrub carr / open water - veg noted around perimeter.

SOIL

Sampling Point P7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2	100					Loamy/Clayey	SIL
4-16	N 2.5/	100					Muck	MUCK
16-24	10YR 3/1	95	10YR 5/6	5	C	M	Loamy/Clayey	SICL, prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- X Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

soils are distrubed through grading and excavation, mucky soils are not likely native.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P8

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Backslope Local relief (concave, convex, none): None Slope %: 3-5%

Subregion (LRR or MLRA): LRR K Lat: 42.9934260 Long: -89.0278048° Datum: WGS84

Soil Map Unit Name: Marshan silt loam NWI classification: T3K (WWI)

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
No wetland hydrology indicators observed, no saturation.

VEGETATION – Use scientific names of plants. Sampling Point: P8

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Prunus serotina*	50	Yes	FACU
2. *Populus deltoides*	10	No	FAC
3. *Acer saccharinum*	10	No	FACW
4.			
5.			
6.			
7.			
	70	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Rhamnus cathartica*	20	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	20	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Rhamnus cathartica*	15	Yes	FAC
2. *Geum canadense*	1	No	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	16	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	46	x 3 =	138
FACU species	50	x 4 =	200
UPL species	0	x 5 =	0
Column Totals:	106 (A)		358 (B)

Prevalence Index = B/A = 3.38

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Upland woodland

SOIL

Sampling Point P8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/2	100					Loamy/Clayey	SIL
8-18	10YR 4/4	100					Loamy/Clayey	SICL

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P9

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): floodfringe Local relief (concave, convex, none): None Slope %: 1-3%

Subregion (LRR or MLRA): LRR K Lat: 42.9933440 Long: -89.0280163 Datum: WGS84

Soil Map Unit Name: Marshan silt loam NWI classification: T3K (WWI)

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: W-1

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Sample point is a ruderal hardwood swamp taken at drainageway.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes X	No ____	Depth (inches): 18
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 12

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
Wetland hydrology observed.

VEGETATION – Use scientific names of plants. Sampling Point: P9

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharinum*	10	Yes	FACW
2. *Acer negundo*	10	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	20	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Rhamnus cathartica*	25	Yes	FAC
2. *Cornus racemosa*	10	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	35	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Phalaris arundinacea*	60	Yes	FACW
2. *Symphyotrichum lateriflorum*	5	No	FAC
3. *Geum canadense*	3	No	FAC
4. *Epilobium ciliatum*	2	No	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	70	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	72	x 2 =	144
FAC species	53	x 3 =	159
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	125 (A)		303 (B)

Prevalence Index = B/A = 2.42

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Ruderal hardwood swamp

SOIL

Sampling Point P9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/2	100					Loamy/Clayey	SIL
8-17	10YR 3/1	85	10YR 5/8	15	C	M	Loamy/Clayey	SICL, prominent redox concentrations
17-24	10YR 5/1	88	10YR 5/6	12	C	M	Loamy/Clayey	SIC, prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P10

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 1-3%

Subregion (LRR or MLRA): LRR K Lat: 42.9948338 Long: -89.0277588 Datum: WGS84

Soil Map Unit Name: Troxel silt loam, 0 to 3 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: W-2

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. No surface connection to pond or W-1. Potential grading relic from prior grading activities.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
Only secondary indicators observed.

VEGETATION – Use scientific names of plants. Sampling Point: P10

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Ulmus americana*	8	Yes	FACW
2. *Salix nigra*	5	Yes	OBL
3. *Populus deltoides*	5	Yes	FAC
4.			
5.			
6.			
7.			
	18	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Salix interior*	30	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	30	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Phalaris arundinacea*	90	Yes	FACW
2. *Apocynum androsaemifolium*	5	No	UPL
3. *Leonurus cardiaca*	2	No	UPL
4. *Bidens frondosa*	2	No	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	99	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	5	x 1 =	5
FACW species	130	x 2 =	260
FAC species	5	x 3 =	15
FACU species	0	x 4 =	0
UPL species	7	x 5 =	35
Column Totals:	147 (A)		315 (B)

Prevalence Index = B/A = 2.14

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Wet meadow / shrub carr dominated by RCG

SOIL

Sampling Point P10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2	100					Loamy/Clayey	SIL
4-20	10YR 4/2	85	10YR 5/6	15	C	M	Loamy/Clayey	SICL, prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- X Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** ____

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P11

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Sideslope of Embankment Local relief (concave, convex, none): None Slope %: 3-5%

Subregion (LRR or MLRA): LRR K Lat: 42.9947164 Long: -89.0278870 Datum: WGS84

Soil Map Unit Name: Troxel silt loam, 0 to 3 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Sample point taken on upland pond embankment.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
No wetland hydrology indicators observed, no saturation.

VEGETATION – Use scientific names of plants. Sampling Point: P11

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	50	Yes	FAC
2. *Populus deltoides*	15	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	65	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
		=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Alliaria petiolata*	30	Yes	FACU
2. *Bromus inermis*	10	Yes	UPL
3. *Hackelia virginiana*	10	Yes	FACU
4. *Rubus occidentalis*	8	No	UPL
5. *Phalaris arundinacea*	5	No	FACW
6. *Hesperis matronalis*	3	No	FACU
7. *Arctium minus*	3	No	FACU
8.			
9.			
10.			
11.			
12.			
	69	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	65	x 3 =	195
FACU species	46	x 4 =	184
UPL species	18	x 5 =	90
Column Totals:	134 (A)		479 (B)

Prevalence Index = B/A = 3.57

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Upland community

SOIL

Sampling Point P11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 3/2	75					Loamy/Clayey	SICL, mixed matrix, disturbed soils
	10YR 4/4	20						
	10YR 4/2	5						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Mixed matrix, soils are disturbed

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P12

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Depression Slope %:

Subregion (LRR or MLRA): LRR K Lat: 42.9951571 Long: -89.0281368 Datum: WGS84

Soil Map Unit Name: Troxel silt loam, 0 to 3 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No	**within a Wetland?** **Yes** X **No**
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: W-3

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Sample point taken in rip rapped swale which leads to W-2. Wetland appears to be a grading relic from past grading and possibilty a temporary erosion control structure. Wetland is fed by eroded gully's draining from stubbed roads and side lots.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	No X	Depth (inches):
Water Table Present?	Yes	No X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes	No X	Depth (inches):

Wetland Hydrology Present? **Yes** X **No**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
Ony secondary indicators observed.

VEGETATION – Use scientific names of plants. Sampling Point: P12

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix nigra*	10	Yes	OBL
2.			
3.			
4.			
5.			
6.			
7.			
	10	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Salix interior*	15	Yes	FACW
2. *Cirsium arvense*	3	No	FACU
3.			
4.			
5.			
6.			
7.			
	18	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Phalaris arundinacea*	100	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	10	x 1 =	10
FACW species	115	x 2 =	230
FAC species	0	x 3 =	0
FACU species	3	x 4 =	12
UPL species	0	x 5 =	0
Column Totals:	128 (A)		252 (B)

Prevalence Index = B/A = 1.97

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Wet meadow

SOIL

Sampling Point P12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2	100					Loamy/Clayey	SIL
4-9	10YR 3/3	100					Loamy/Clayey	LS
9-20	10YR 4/2	88	10YR 5/8	12	C	M	Loamy/Clayey	SICL, prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- X Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P13

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Toeslope Local relief (concave, convex, none): None Slope %: 1-3%

Subregion (LRR or MLRA): LRR K Lat: 42.9946679 Long: -89.0286616 Datum: WGS84

Soil Map Unit Name: Virgil silt loam, 1 to 4 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
No wetland hydrology indicators observed, no saturation

VEGETATION – Use scientific names of plants. Sampling Point: P13

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Acer negundo*	10	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	10 =Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Poa pratensis*	90	Yes	FACU
2. *Cirsium arvense*	20	No	FACU
3. *Solidago canadensis*	20	No	FACU
4. *Phalaris arundinacea*	5	No	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	135 =Total Cover		
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	10	x 3 =	30
FACU species	130	x 4 =	520
UPL species	0	x 5 =	0
Column Totals:	145 (A)		560 (B)

Prevalence Index = B/A = 3.86

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Upland old field

SOIL

Sampling Point P13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/2	100					Loamy/Clayey	SICL
6-18	10YR 3/3	100					Loamy/Clayey	SICL
18-24	10YR 3/3	65					Loamy/Clayey	SICL, mixed matrix, disturbed soils
	10YR 5/1	35						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

Mixed matrix and soils disturbed from past grading.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P14

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope %:

Subregion (LRR or MLRA): LRR K Lat: 42.9958472 Long: -89.0280290 Datum: WGS84

Soil Map Unit Name: Grays silt loam, 2 to 6 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No	**within a Wetland?** **Yes** X **No**
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: W-3

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Sample point taken in eroded swale. Wetland commences at point discharge of sewer pipe from deadend road. Deeply incised gully.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No	Depth (inches): 1
Water Table Present?	Yes X	No	Depth (inches): 0
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
Wetland hydrology observed.

VEGETATION – Use scientific names of plants.

Sampling Point: P14

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Salix interior*	30	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	30 =Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Typha X glauca*	75	Yes	OBL
2. *Phalaris arundinacea*	10	No	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	85 =Total Cover		
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	75	x 1 =	75
FACW species	40	x 2 =	80
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	115 (A)		155 (B)

Prevalence Index = B/A = 1.35

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Wet meadow

SOIL

Sampling Point P14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 3/2	100					Loamy/Clayey	SIL
5-18	10YR 4/2	88	10YR 5/6	12	C	M	Loamy/Clayey	SIL, prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- X Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** ____

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P15

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): side slope Local relief (concave, convex, none): None Slope %: 3-5%

Subregion (LRR or MLRA): LRR K Lat: 42.9959250 Long: -89.0279000 Datum: WGS84

Soil Map Unit Name: Virgil silt loam, gravelly substratum, 0 to 3 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
No wetland hydrology indicators observed, no saturation.

VEGETATION – Use scientific names of plants.

Sampling Point: P15

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Acer negundo*	3	No	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	3 =Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Poa pratensis*	90	Yes	FACU
2. *Solidago canadensis*	15	No	FACU
3. *Bromus inermis*	10	No	UPL
4. *Daucus carota*	10	No	UPL
5. *Phalaris arundinacea*	5	No	FACW
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	130 =Total Cover		
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	3	x 3 =	9
FACU species	105	x 4 =	420
UPL species	20	x 5 =	100
Column Totals:	133 (A)		539 (B)

Prevalence Index = B/A = 4.05

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Upland old field

SOIL

Sampling Point P15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 3/2	100						
5-18	10YR 4/4	70					Loamy/Clayey	SICL, 10% gravel, disturbed/mixed matrix
	10YR 3/2	20						
	10YR 5/4	10						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

10% gravel in second horizon, disturbed/mixed matrix for past grading.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P16

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 1-3%

Subregion (LRR or MLRA): LRR K Lat: 42.9937120 Long: -89.0294399 Datum: WGS84

Soil Map Unit Name: Virgil silt loam, 1 to 4 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: W-4

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year. Riparian swale discharges near this point. Scattered fill piles are located in and around W-4. Appears as a grading relic and/or temporary erosion control feature.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
Only secondary indicators observed.

VEGETATION – Use scientific names of plants. Sampling Point: P16

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	5	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	5	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. *Cornus alba*	8	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	8	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. *Phalaris arundinacea*	100	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	108	x 2 =	216
FAC species	5	x 3 =	15
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	113 (A)		231 (B)

Prevalence Index = B/A = 2.04

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Wet meadow

SOIL

Sampling Point P16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/2	100					Loamy/Clayey	SIL
6-20	10YR 4/2	90	10YR 5/6	10	C	M	Loamy/Clayey	SICL, prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- X Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 20251676 Highland Prairie City/County: V Cambridge, Dane Co Sampling Date: 10/10/2025

Applicant/Owner: Highland Prairie, LLC State: WI Sampling Point: P17

Investigator(s): Jeff Kraemer Section, Township, Range: S12, T6N, R21E

Landform (hillside, terrace, etc.): Sideslope Local relief (concave, convex, none): None Slope %: 3-5%

Subregion (LRR or MLRA): LRR K Lat: 42.9938168 Long: -89.0295796 Datum: WGS84

Soil Map Unit Name: Dodge silt loam, 6 to 12 percent slopes, eroded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
APT analysis indicates that climate conditions are normal for the time of year.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
2004-2024 NAIP Aerial Imagery

Remarks:
No wetland hydrology indicators observed, no saturation

VEGETATION – Use scientific names of plants. Sampling Point: P17

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Poa pratensis*	90	Yes	FACU
2. *Setaria pumila*	15	No	FAC
3. *Phalaris arundinacea*	10	No	FACW
4. *Bromus inermis*	10	No	UPL
5. *Daucus carota*	10	No	UPL
6. *Solidago canadensis*	10	No	FACU
7. *Symphyotrichum ericoides*	5	No	FACU
8.			
9.			
10.			
11.			
12.			
	150 =Total Cover		
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	15	x 3 =	45
FACU species	105	x 4 =	420
UPL species	20	x 5 =	100
Column Totals:	150 (A)		585 (B)

Prevalence Index = B/A = 3.90

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Upland old field community

SOIL

Sampling Point P17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2	100					Loamy/Clayey	SIL
4-18	10YR 4/4	85					Loamy/Clayey	SIL, 10% gravel, mixed profile
	10YR 3/3	15						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

Mixed soil profile disturb from past grading.

Highland Prairie, LLC
Highland Prairie
Project #: 20251676
January 30, 2026

Appendix D | Site Photographs



Photo #1 Sample point P1



Photo #2 Sample point P1



Photo #3 Sample point P1



Photo #4 Sample point P1

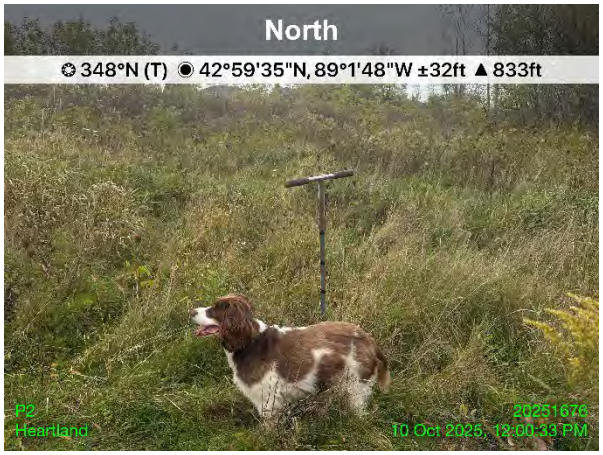


Photo #5 Sample point P2



Photo #6 Sample point P2

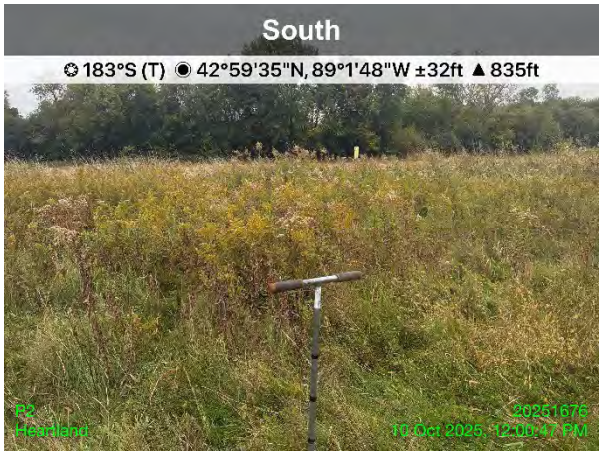


Photo #7 Sample point P2



Photo #8 Sample point P2



Photo #9 Sample point P3



Photo #10 Sample point P3



Photo #11 Sample point P3



Photo #12 Sample point P3



Photo #13 Sample point P4



Photo #14 Sample point P4



Photo #15 Sample point P4



Photo #16 Sample point P4



Photo #17 Sample point P5



Photo #18 Sample point P5



Photo #19 Sample point P5



Photo #20 Sample point P5



Photo #21 Sample point P6



Photo #22 Sample point P6



Photo #23 Sample point P6



Photo #24 Sample point P6

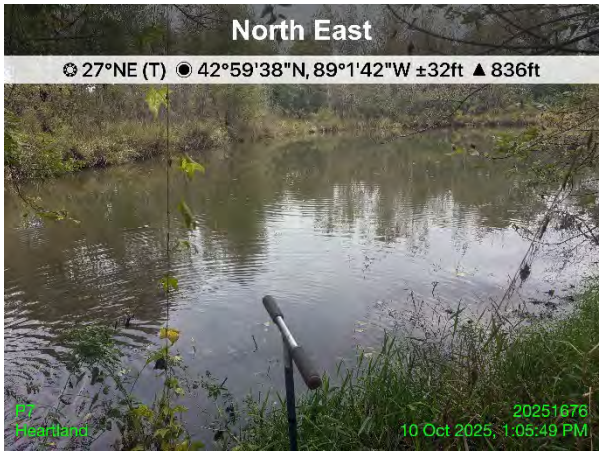


Photo #25 Sample point P7



Photo #26 Sample point P7



Photo #27 Sample point P7



Photo #28 Sample point P7



Photo #29 Sample point P8



Photo #30 Sample point P8



Photo #31 Sample point P8



Photo #32 Sample point P8



Photo #33 Sample point P9

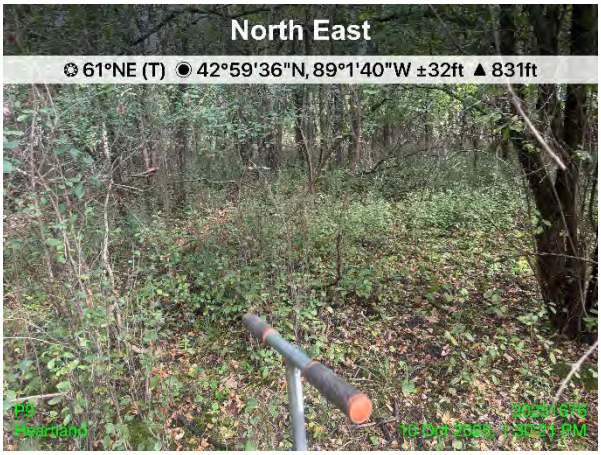


Photo #34 Sample point P9



Photo #35 Sample point P9



Photo #36 Sample point P9



Photo #37 Sample point P10



Photo #38 Sample point P10



Photo #39 Sample point P10



Photo #40 Sample point P10



Photo #41 Sample point P11



Photo #42 Sample point P11



Photo #43 Sample point P11



Photo #44 Sample point P11



Photo #45 Sample point P12



Photo #46 Sample point P12



Photo #47 Sample point P12



Photo #48 Sample point P12



Photo #49 Sample point P13



Photo #50 Sample point P13



Photo #51 Sample point P13



Photo #52 Sample point P13



Photo #53 Sample point P14



Photo #54 Sample point P14

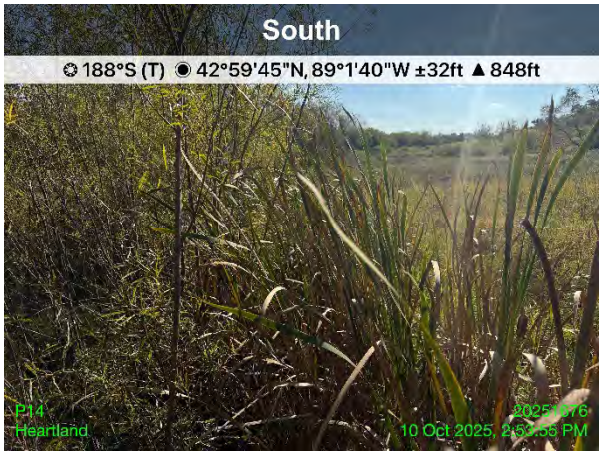


Photo #55 Sample point P14



Photo #56 Sample point P14

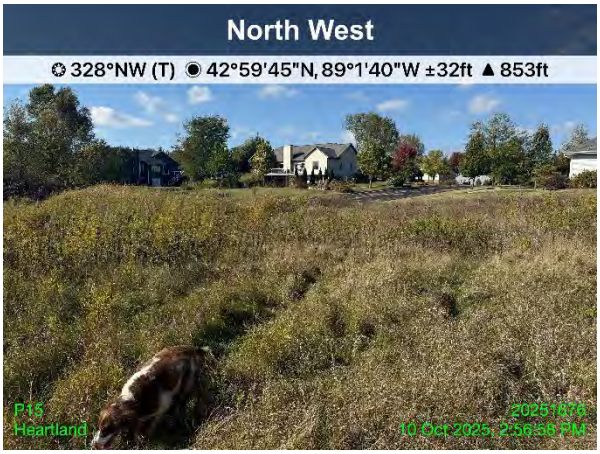


Photo #57 Sample point P15



Photo #58 Sample point P15



Photo #59 Sample point P15

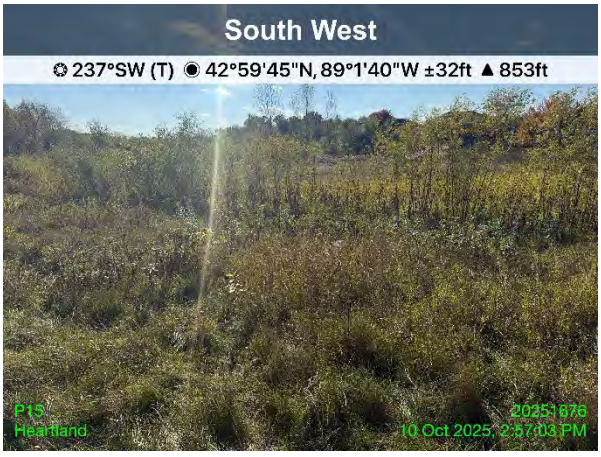


Photo #60 Sample point P15

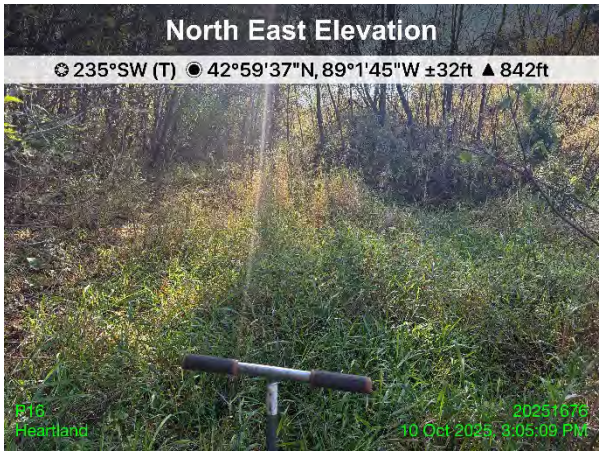


Photo #61 Sample point P16

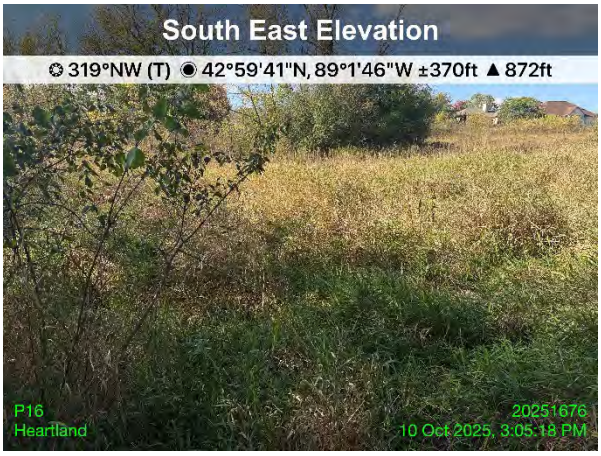


Photo #62 Sample point P16



Photo #63 Sample point P16

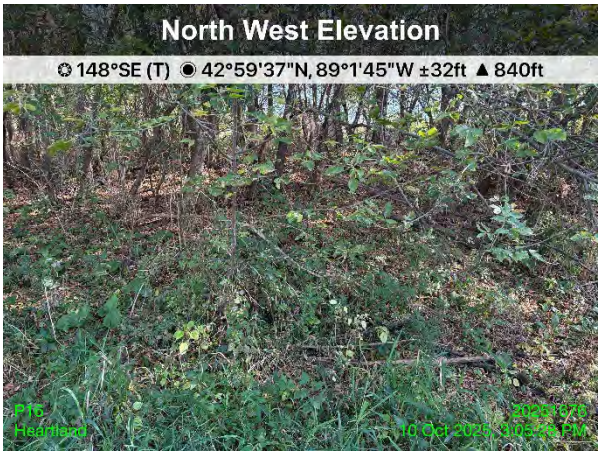


Photo #64 Sample point P16

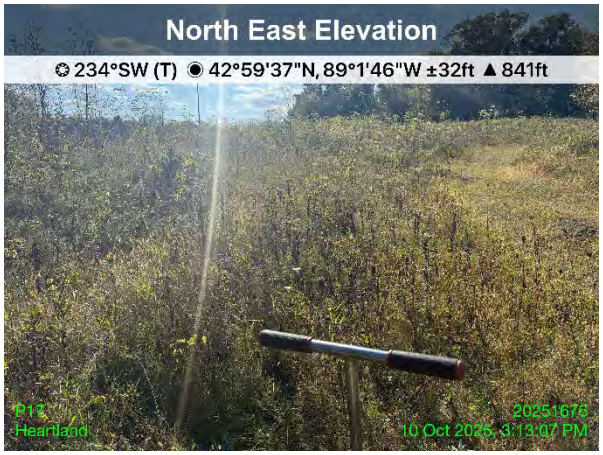


Photo #65 Sample point P17



Photo #66 Sample point P17



Photo #67 Sample point P17



Photo #68 Sample point P17



Photo #69 Constructed swale into W-2



Photo #70 Constructed swale into W-2

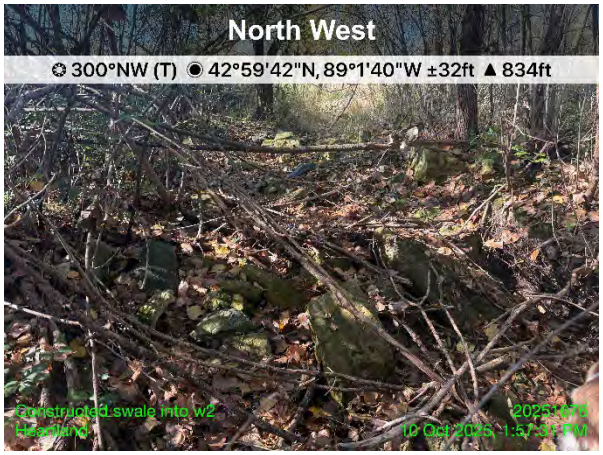


Photo #71 Constructed swale into W-2



Photo #72 Constructed swale into W-2



Photo #73 Riprap berm and swale from W-3 to W-2



Photo #74 Breaker rock conveyance swale to W-4



Photo #75 Breaker rock conveyance swale to W-4



Photo #76 Breaker rock conveyance swale to W-4

Highland Prairie, LLC
Highland Prairie
Project #: 20251676
January 30, 2026

Appendix E | Delineator Qualifications

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1027 W. Saint Paul Avenue
Milwaukee WI 53233

Tony Evers, Governor
Karen Hyun, Ph.D., Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

April 1, 2025

Jeff Kraemer
Heartland Ecological Group, Inc.
506 Springdale Street
Mt. Horeb, WI 53572

Subject: 2025 Assured Wetland Delineator Confirmation

Dear Jeff Kraemer:

This letter provides Wisconsin Department of Natural Resources (WDNR) confirmation for the wetland delineations you conduct during the 2025 growing season. You and your clients will not need to wait for the WDNR to review your wetland delineations before moving forward with project planning. This will help expedite the review process for WDNR's wetland regulatory program. Your name and contact information will continue to be listed on our website at: http://dnr.wi.gov/topic/wetlands/assurance.html.

In the instance where a municipality may require a letter of confirmation for your work prior to moving forward in the local regulatory process, this letter shall serve as that confirmation. Although your wetland delineations do not require WDNR field review, inclusion of a Wetland Delineation Report is required for projects needing State authorized wetland, waterway and/or storm water permit approvals.

To comply with Chapter 23.321, State Statutes, please supply the department with a polygon shapefile of the wetland boundaries delineated within the project area. Please do not include data such as parcel boundaries, project limits, wetland graphic representation symbols, etc. If internal upland polygons are found within a wetland polygon, then please label as UPLAND. The shapefile should utilize a State Plane Projection and be overlain onto recent aerial photography. If a different projection system is used, please indicate in which system the data are projected. In the correspondence sent with the shapefile, please supply a brief description of each wetland's plant community (eg: wet meadow, floodplain forest, etc.). Please send these data to Calvin Lawrence (608-266-0756 or email at calvin.lawrence@wisconsin.gov).

If you or any client has a question regarding your status in the Wetland Delineation Professional Assurance Program, contact me by email at kara.brooks@wisconsin.gov or phone at 414-308-6780. Thank you for all your hard work and best wishes for the upcoming field season.

Sincerely,

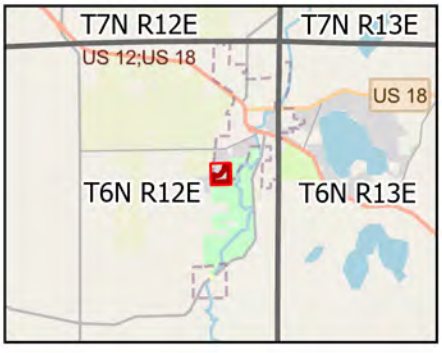
Kara Brooks
Wetland Identification Coordinator
Bureau of Watershed Management

PRINTED ON RECYCLED PAPER

Highland Prairie, LLC
Highland Prairie
Project #: 20251676
January 30, 2026

Appendix F | NAIP Imagery





Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

2004-06-22 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2004 NAIP
USDA

Figure Created: 10/6/2025



Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

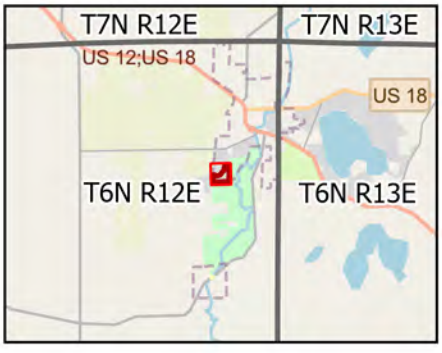
2005-06-23 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2005 NAIP
USDA

Figure Created: 10/6/2025





Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

2006-07-31 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2006 NAIP
USDA

Figure Created: 10/6/2025



Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

2008-07-23 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2008 NAIP
USDA

Figure Created: 10/6/2025



Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

2010-07-01 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2010 NAIP
USDA

Figure Created: 10/6/2025



Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

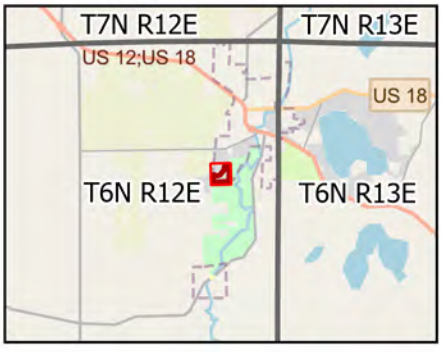
2013-06-19 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2013 NAIP
USDA

Figure Created: 10/6/2025





Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

2015-10-07 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2015 NAIP
USDA

Figure Created: 10/6/2025



Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

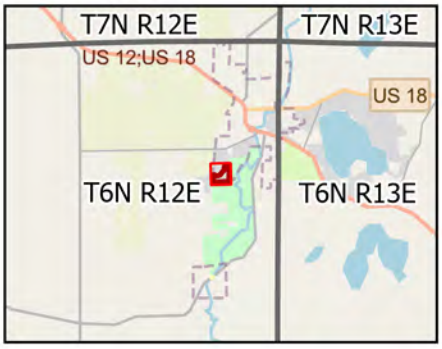
2017-07-30 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2017 NAIP
USDA

Figure Created: 10/6/2025





Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

2018-10-04 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2018 NAIP
USDA

Figure Created: 10/6/2025



Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

2020-08-30 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2020 NAIP
USDA

Figure Created: 10/6/2025



Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

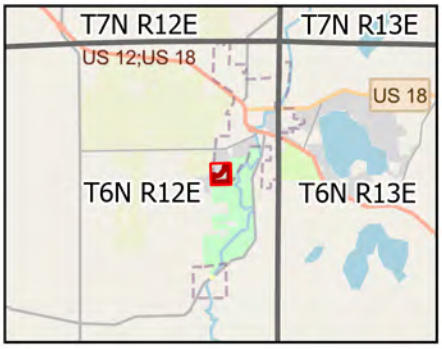
2022-06-24 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2022 NAIP
USDA

Figure Created: 10/6/2025





Study Area (23.24 ac)

0 200 Ft

Heartland
ECOLOGICAL GROUP INC

2024-10-05 NAIP
Aerial Imagery

Highland Prairie
Project #20251676
T6N, R21E, S12
V Cambridge, Dane Co

2024 NAIP
USDA

Figure Created: 10/6/2025

Stormwater Report
Summer Prairie – Phase 2
Village of Cambridge, WI

Prepared For:
Allen Howe and Sons, Inc.
W9493 E. Kroghville Road
Waterloo, WI 53594

Prepared By:
Vierbicher Associates, Inc.
999 Fourier Drive, Suite 201
Madison, WI

August 2004

INDEX

Tab Number

1	Project Summary
	1.1 Description of Project
	1.2 Description of Calculations
	1.3 Summary of Results
	• Detention Summary Chart
	• Dane County Soils Map
	• Plat Map
	• Thermal Location
	• Long-Term Stormwater Management Plan
2	Detention Volume Calculations
3	Storm Sewer Calculations
4	Erosion Control Calculations
5	Overland Flow & Ditch Calculations
6	Exhibit
	• Storm Water Plan (Exhibit 1)

Project Summary

1.1 Description of Project

The site is located within the Summer Prairie Development in the Village of Cambridge and is adjacent to Phase 1 of the development. Phase 1 is an existing phase. It is on the east side of Highland Drive. The project involves the construction of an extension of Oriole Lane, a portion of Waverly Drive, and all of Street A. There will be 33 Residential Lots in Phase 2 developed for single family dwellings. The site also contains Outlots for stormwater drainage. The Phase 2 site is 15.28 acres. There will be a 3rd phase to the project.

The stormwater basin designed in this report will be the final basin for all three phases of Summer Prairie. A temporary detention basin for Phase 1 will be removed as a result.

The detention basins will be a mix of wet and dry basins to promote infiltration.

The Dane County Thermal Locater indicates that thermal practices are not required. A print-out of this thermal location is included in this section. FEMA floodplain does not exist on this site. A copy of the FEMA map is included in this section.

We anticipate that the Village will be the responsible party for the maintenance of the storm sewers and basins. A maintenance plan has been included in this section.

1.2 Description of Calculations

Storm Sewer Calculations are included in Section #3 for the storm sewer for this project. Design criteria of the storm sewer is also included in that section. The StormCad computer program by Haestad Methods was used for the storm sewer calculations.

The drainage areas used for the calculations of the detention basins are shown on the Stormwater Plan located in Section #5 of the report. A summary chart for the detention is included in this section.

Erosion control calculations for Phase 2 construction are included in Section #4 of the report. The Universal Soil Loss Equation (USLE) was used to calculate the soil loss for the project using the anticipated construction schedule. Weepers, silt fence, rip rap, inlet protection, and polymers will be the erosion control devises used for this phase of construction. They are shown on the Grading and Erosion Control Plan in Section #5 of the report.

The calculations for 80% Total Suspended Solids (TSS) are also found in Section #4 of the report. The Dane County approved method listed in appendix III of the stormwater manual was used based on the settlement time for a 5-micron particle.

Calculations for the 100-year overland flow within street R.O.W. and/or within drainage easements have been included in Section 5.

1.3 Summary of Results

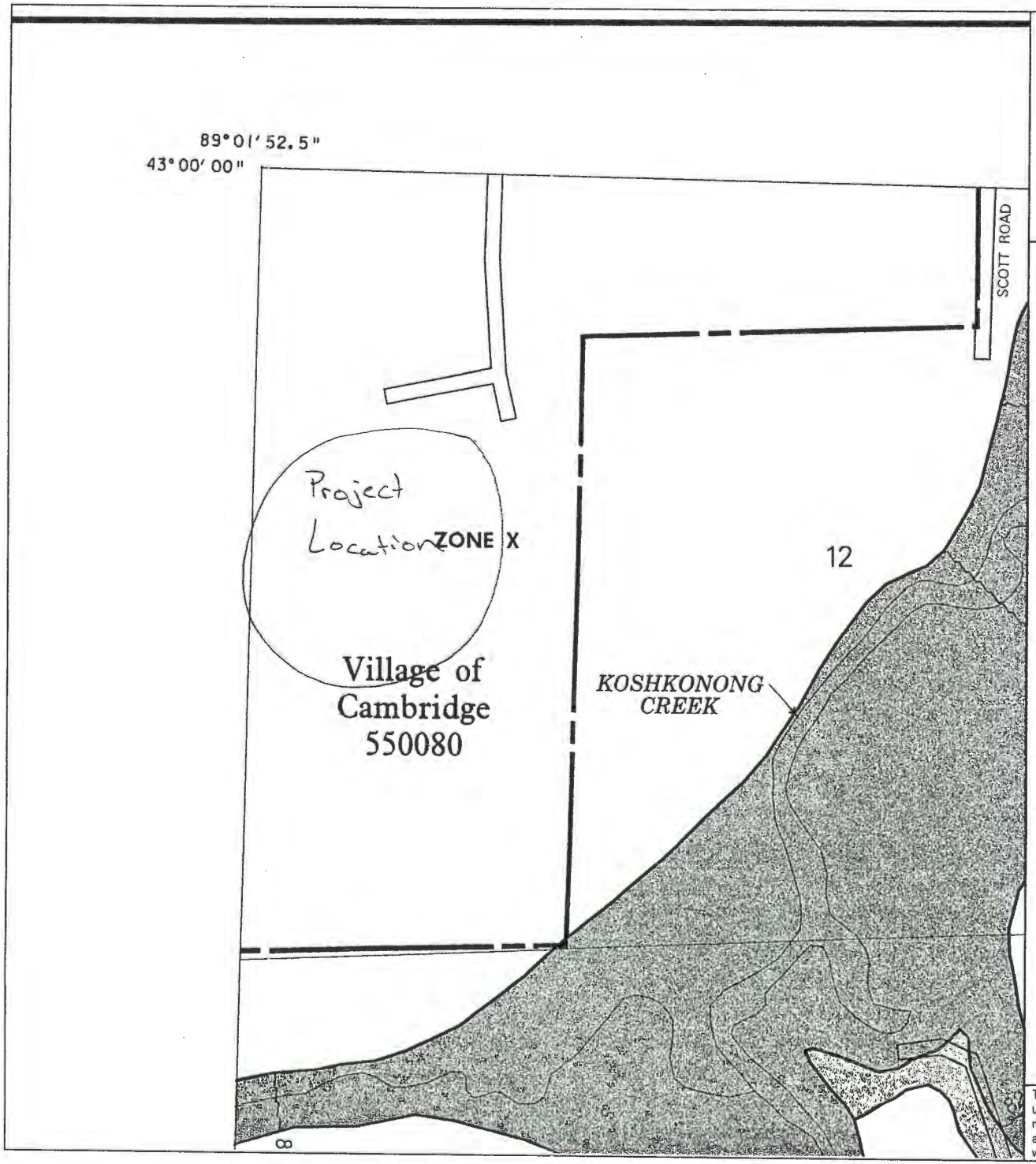
The storm sewer systems are sufficient to convey the 10-year storm within the pipe and 100-year storm within the storm structures. Future areas of development have been included in the calculations for the detention basins.

The basins have been sized to provide detention storage per Dane County Land Conservation guidelines for the 2, 10 and 100 year storm events.

Summer Prairie
Cambridge, WI
24-Jun-04
Flows

DETENTION SUMMARY CHART

Storm Event (yr)	Existing Q (cfs)	Proposed Q (cfs)	Q Routed (cfs)	Pond Elevation (ft)	Pond Volume (ac-ft)
2	12	63	7.77	832.48	1.96
10	31	120	17.86	833.64	3.66
100	70	212	51.15	835.10	6.01



APPROXIMATE SCALE

0 500 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

DANE COUNTY, WISCONSIN AND INCORPORATED AREAS

PANEL 657 OF 850

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CAMBRIDGE, VILLAGE OF	550080	0657	F
DANE COUNTY	550077	0657	F
ROCKDALE, VILLAGE OF	550080	0657	F

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
55025C0657F

EFFECTIVE DATE:
JUNE 17, 2003

Federal Emergency Management Agency

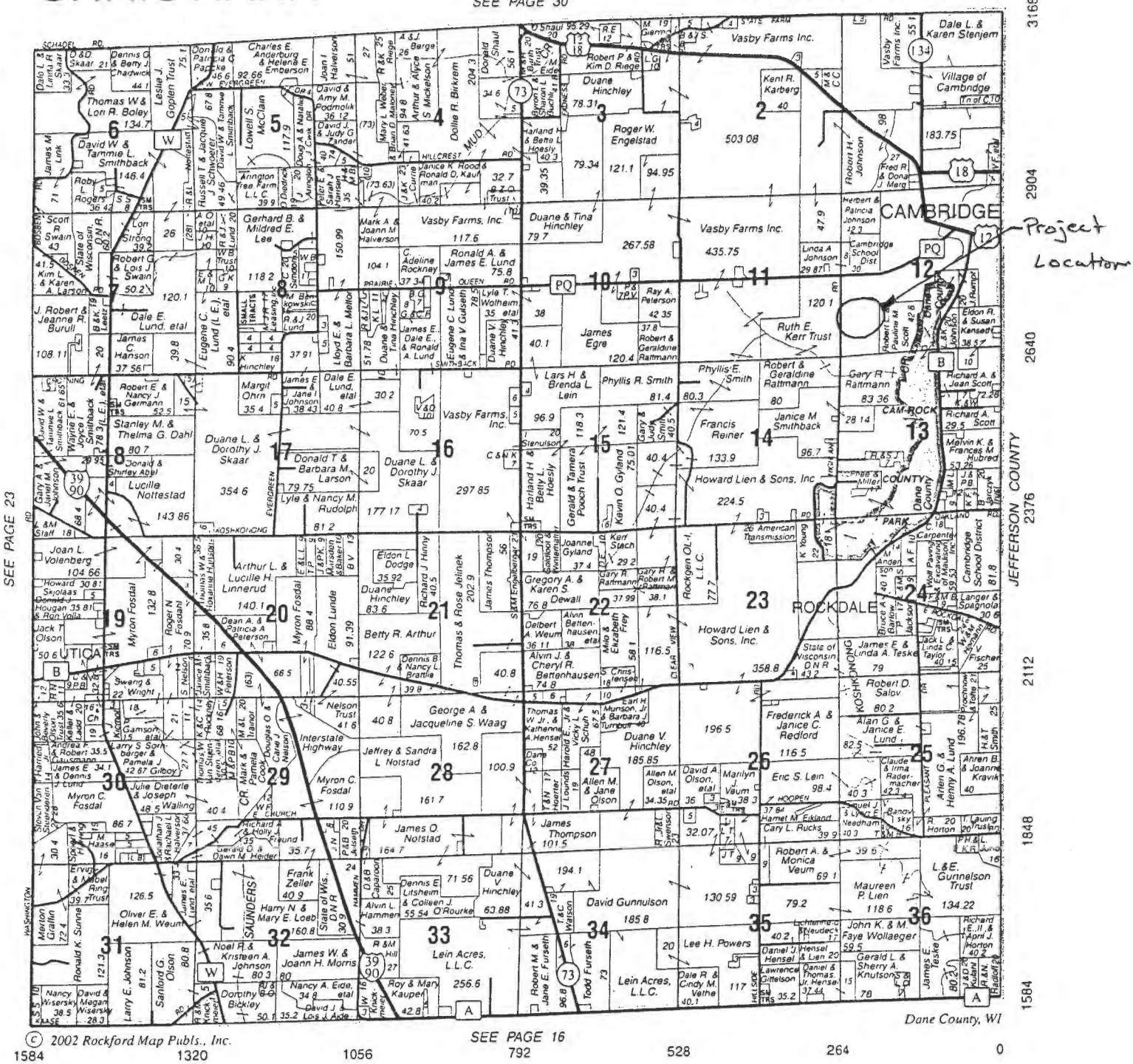
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Futher information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/mit/tsd.

Print Date: 6/25/2004 (printed at scale and type A)


R. 12 E.
2 260 000 FEET
2 270 000 FEET
T. 7 N.
(Joins inset D, sheet 96)
Cambridge
Rose
Koshkonong Creek
11
12
Site

CHRISTIANA

T.6N.-R.12E.



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111 Highway 18, Suite A
P.O. Box 67
Cambridge, Wisconsin 53523
Office: (608) 423-3332
Toll Free: (800) 489-3332
Fax: (608) 423-3342
Website: HoeslyRealEstate.com

Locator for Thermally Sensitive Areas: Search by Township, Range and Section

Township, Range and Section Information Form:

*required

Township*: 06 N, Range*: 12 E

Section:* 12

Quarter Section:

Quarter-Quarter Section: Run Locator

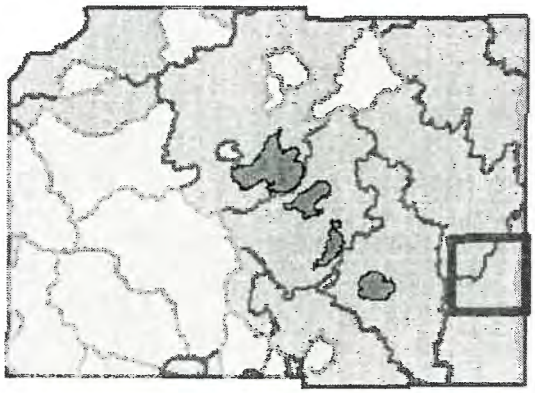
Access Dane (search for township, range and section numbers)

Dane County Townships Map (includes cities, towns and villages)

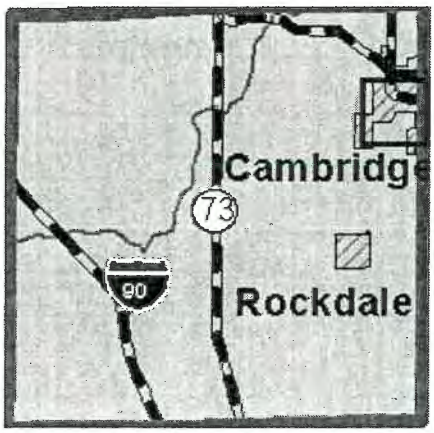
Locator Results:

Thermal Practices Not Required!

Overview Map:
Dane County Thermally Sensitive Areas



Locator Map:
T 06 N, R 12 E Thermally Sensitive Areas



Explanation: The above maps show the Thermally Sensitive Areas (yellow) in Dane County and in T 06 N, R 12 E. The blue square on the Locator Map shows the approximate location of Section 12 in T 06 N, R 12 E. Section 12 in T 06 N, R 12 E is not located in a Thermally Sensitive Area, therefore development projects in this section will most likely not require thermal control practices to comply with the Erosion Control and Stormwater Management Ordinance.

Disclaimer: These results are a preliminary assessment based on an overlay of the Dane County quarter-quarter sections with the Dane County Thermally Sensitive Areas in a Geographic Information System. The Thermally Sensitive Areas were identified with a watershed delineation algorithm. For the purpose of this preliminary assessment, the locator tool was developed to be conservative in order to avoid cases of incorrectly excluding a parcel from a Thermally Sensitive Area. Although we have made our best effort to be as accurate as possible, an on-site hydrologic investigation may be necessary in some cases to verify whether or not a parcel is truly within the watershed of a Cold Water Community. This would be done prior to the final approval of a submitted stormwater management plan.

Pages within this site:

Related Links:

Summer Prairie, Cambridge, WI.
Long-term Stormwater Management
Maintenance Provisions

SITE NAME
Summer Prairie, Cambridge WI.

PROPERTY LEGAL DESCRIPTION
Summer Prairie, Part of Outlot 83, Revised and Consolidated Assessor's Plat of Cambridge, being further located in part of the SW ¼ of Section 12 T6N, R12E, Village of Cambridge, Dane County, Wisconsin.

RESPONSIBLE PARTY
The landowner is responsible for satisfying the provisions of this agreement throughout the plat for the duration of the construction period. Upon completion of all construction phases, the Village shall assume responsibility.

PERMANENT COMPONENTS OF THE STORMWATER SYSTEM
The stormwater system consists of the following components:

+ Curb inlets
+ Manholes
+ Stormwater drainage ways and swales
+ Gabions
+ Infiltration areas
+ Stormwater basin inlet and outlet structures

INSPECTION AND MAINTENANCE
All components of the stormwater system shall be inspected at least semiannually in early Spring and early Autumn. Repairs will be made whenever the performance of a stormwater control structure is compromised.

PROHIBITIONS
Mowing in detention basins and drainage ways will be minimized in order to maximize filtration of runoff. If occasional mowing is necessary, the mowing height will be no shorter than six inches.

Applications of fertilizers, herbicides, pesticide or other chemical applications are prohibited in buffer areas, on pond banks and along drainage ways.

Siltation in the detention/infiltration basin shall be dredged and disposed of offsite. Dredging shall be required if siltation is present for 10% or more of the bottom of the detention basin or as required by the Village Engineer. The Developer shall provide such maintenance at the completion of each construction phase.

Gabion outlet structures shall be repaired or replaced if it is determined that the structures are not functioning.

SIGNATURES
The undersigned agree to the provision set forth in this agreement.

For the landowner/Developer:	For the Village:
_____	_____
Name	Name
_____	_____
Title	Title
_____	_____
Date	Date

DETENTION BASIN DESIGN CRITERIA

♦ Design Frequency:	1, 2, 10-year 100-year – check for conveyance
♦ Rainfall Data: duration	2.5, 2.90, 4.20, 6.00-inch/24-hour
♦ Runoff Calculation Method:	SCS TR-55
♦ Runoff Curve Number:	CN = Pre-Developed 68
	CN = Post-Developed 81
♦ Storm Reduction:	Pre-developed to Post-developed. 2, 10, 100
♦ Outfall Method:	Earth Berm/Gabion, Culvert Pipe, and Overflow Weir
♦ Water Quality: Suspended Solids	80% Reduction of Total
	6-Hr. Retention Time for 1-Yr. Storm – 5 – Micron Particle
♦ Overflow:	Safely Pass 100-Yr.

VOLUME CALC. JUNE 9, 2004

WET BASIN

Elevation	Area (Acres)	Avg. Area (Acres)	Depth (FT)	Volume (AC-FT)
831	1.16	1.27	1	1.27
832	1.38	1.43	1	1.43
833	1.47	1.53	1	1.53
834	1.58	1.63	1	1.63
835	1.68	1.74	1	1.74
836	1.79	--	--	--
			Total =	7.60

SETTLING BASIN-WEST

Elevation	Area (Acres)	Avg. Area (Acres)	Depth (FT)	Volume (AC-FT)
831	0.70	0.75	1	0.75
832	0.79	--	--	--
			Total =	0.75

DRY SETTLING BASIN-EAST

Elevation	Area (Acres)	Avg. Area (Acres)	Depth (FT)	Volume (AC-FT)
836	0.04	0.18	1	0.18
837	0.21	0.11	1	0.11
838	0.32	--	--	--
			Total =	0.29

POND-2 Version: 5.21
S/N:

PROPOSED SUMMER PRAIRIE SUBDIVISION, CAMBRIDGE
VOLUME OF TWO DETENTION BASINS ADDED TOGETHER
ONE WET BASIN AREA ONLY

Proposed
SRPR.VOL

CALCULATED 06-15-2004 13:50:43
DISK FILE: P:\HAESTAD\ZBAS\SRPR .VOL

Planimeter scale: 1 inch = 1 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume* (acre-ft)	Volume Sum (acre-ft)
831.00	50,530.00	1.16	0.00	0.00	0.00
832.00	60,113.00	1.38	3.81	1.27	1.27
833.00	64,033.00	1.47	4.27	1.42	2.69
834.00	68,825.00	1.58	4.57	1.52	4.22
835.00	73,180.00	1.68	4.89	1.63	5.85
836.00	77,972.00	1.79	5.20	1.73	7.58

$$IA = (sq.rt(Area1) + ((Ei-E1)/(E2-E1))*(sq.rt(Area2)-sq.rt(Area1)))^2$$

where: E1, E2 = Closest two elevations with planimeter data
Ei = Elevation at which to interpolate area
Area1,Area2 = Areas computed for E1, E2, respectively
IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + sq.rt.(Area1*Area2))

where: EL1, EL2 = Lower and upper elevations of the increment
Area1,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

Tc
Pre

Quick TR-55 Ver.5.47 S/N:
Executed: 12:21:56 06-11-2004 P:\HAESTAD\ZBAS\SPREX.TCT

SUMMARY SHEET FOR Tc or Tt COMPUTATIONS
(Solved for Time using TR-55 Methods)

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR TIME OF CONCENTRATIONS

EXISTING Tc

Subarea descr.	Tc or Tt	Time (hrs)
AREA 1EX	Tc	0.71

Quick TR-55 Ver.5.47 S/N:
Executed: 12:21:56 06-11-2004 P:\HAESTAD\ZBAS\SPREX.TCT

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR TIME OF CONCENTRATIONS

Tc COMPUTATIONS FOR: AREA 1EX

SHEET FLOW (Applicable to Tc only)

		1	2			
Segment ID						
Surface description		GRASS	GRASS			
Manning's roughness coeff., n		0.2400	0.2400			
Flow length, L (total < or = 300)	ft	80.0	220.0			
Two-yr 24-hr rainfall, P2	in	2.800	2.800			
Land slope, s	ft/ft	0.0250	0.0400			
$T = \frac{.007 * (n*L)^{0.8}}{P2^{0.5} * s^{0.4}}$	hrs	0.19	0.36	+	=	0.56

SHALLOW CONCENTRATED FLOW

		3		
Segment ID				
Surface (paved or unpaved)?		Unpaved		
Flow length, L	ft	1530.0		
Watercourse slope, s	ft/ft	0.0296		
$Avg.V = Csf * (s)^{0.5}$	ft/s	2.7759		
T = L / (3600*V)	hrs	0.15	=	0.15

where: Unpaved Csf = 16.1345
Paved Csf = 20.3282

CHANNEL FLOW

Segment ID		
Cross Sectional Flow Area, a	sq.ft	0.00
Wetted perimeter, Pw	ft	0.00
Hydraulic radius, r = a/Pw	ft	0.000
Channel slope, s	ft/ft	0.0000
Manning's roughness coeff., n		0.0000

$$V = \frac{1.49 * r^{2/3} * s^{1/2}}{n}$$ ft/s 0.0000

Flow length, L	ft	0	
T = L / (3600*V)	hrs	0.00	= 0.00

TOTAL TIME (hrs) 0.71

Tc
Post

Quick TR-55 Ver.5.47 S/N:
Executed: 13:19:23 06-11-2004 P:\HAESTAD\ZBAS\SPRPR.TCT

SUMMARY SHEET FOR Tc or Tt COMPUTATIONS
(Solved for Time using TR-55 Methods)

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR TIME OF CONCENTRATIONS
ROUTE # 1

Subarea descr.	Tc or Tt	Time (hrs)
AREA 1PR	Tc	0.10

Quick TR-55 Ver.5.47 S/N:
Executed: 13:19:23 06-11-2004 P:\HAESTAD\ZBAS\SPRPR.TCT

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR TIME OF CONCENTRATIONS
ROUTE # 1

Tc COMPUTATIONS FOR: AREA 1PR

SHEET FLOW (Applicable to Tc only)

Segment ID			1		
Surface description			PAVEMENT		
Manning's roughness coeff., n			0.0190		
Flow length, L (total < or = 300)		ft	100.0		
Two-yr 24-hr rainfall, P2		in	2.800		
Land slope, s		ft/ft	0.0378		
T =	$\frac{.007 * (n*L)^{0.8}}{P2^{0.5} * s^{0.4}}$	hrs	0.03	=	0.03

SHALLOW CONCENTRATED FLOW

Segment ID			2		3		
Surface (paved or unpaved)?			Paved		Paved		
Flow length, L		ft	420.0		630.0		
Watercourse slope, s		ft/ft	0.0378		0.0444		
Avg.V =	$Csf * (s)^{0.5}$	ft/s	3.9523		4.2834		
where:	Unpaved Csf = 16.1345						
	Paved Csf = 20.3282						
T = L / (3600*V)		hrs	0.03	+	0.04	=	0.07

CHANNEL FLOW

Segment ID		
Cross Sectional Flow Area, a	sq.ft	0.00
Wetted perimeter, Pw	ft	0.00
Hydraulic radius, r = a/Pw	ft	0.000
Channel slope, s	ft/ft	0.0000
Manning's roughness coeff., n		0.0000

$$V = \frac{1.49 * r^{2/3} * s^{1/2}}{n}$$ ft/s 0.0000

Flow length, L	ft	0		
T = L / (3600*V)	hrs	0.00	=	0.00

::

TOTAL TIME (hrs) 0.10

overall, OK

Quick TR-55 Ver.5.47 S/N:
Executed: 13:20:57 06-11-2004 P:\HAESTAD\ZBAS\SPRPR1.TCT

SUMMARY SHEET FOR Tc or Tt COMPUTATIONS
(Solved for Time using TR-55 Methods)

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR TIME OF CONCENTRATIONS
ROUTE # 2

I solved - yellow

Subarea descr.	Tc or Tt	Time (hrs)
AREA 1PR(2)	Tc	0.17

Quick TR-55 Ver.5.47 S/N:
Executed: 13:20:57 06-11-2004 P:\HAESTAD\ZBAS\SPRPR1.TCT

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR TIME OF CONCENTRATIONS
ROUTE # 2

Tc COMPUTATIONS FOR: AREA 1PR(2)

SHEET FLOW (Applicable to Tc only)

Segment ID		1			
Surface description		PAVEMENT			
Manning's roughness coeff., n		0.0190			
Flow length, L (total < or = 300)	ft	30.0			
Two-yr 24-hr rainfall, P2	in	2.800			
Land slope, s	ft/ft	0.0667			
$T = \frac{.007 * (n*L)^{0.8}}{P2^{0.5} * s^{0.4}}$	hrs	0.01		=	0.01

SHALLOW CONCENTRATED FLOW

Segment ID		2		3		
Surface (paved or unpaved)?		Paved		Paved		
Flow length, L	ft	1340.0		320.0		
Watercourse slope, s	ft/ft	0.0179		0.0250		
$Avg.V = Csf * (s)^{0.5}$	ft/s	2.7197		3.2142		
where: Unpaved Csf = 16.1345						
Paved Csf = 20.3282						
T = L / (3600*V)	hrs	0.14	+	0.03	=	0.16

CHANNEL FLOW

Segment ID		
Cross Sectional Flow Area, a	sq.ft	0.00
Wetted perimeter, Pw	ft	0.00
Hydraulic radius, r = a/Pw	ft	0.000
Channel slope, s	ft/ft	0.0000
Manning's roughness coeff., n		0.0000

$$V = \frac{1.49 * r^{2/3} * s^{1/2}}{n}$$ ft/s 0.0000

Flow length, L	ft	0	
T = L / (3600*V)	hrs	0.00	= 0.00

::

TOTAL TIME (hrs) 0.17

Pre Hydrographs

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX2.HYD

EXISTING HYDROGRAPHS

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input	Ia/p used
AREA 1EX	45.75	68.0	0.75	0.00	2.80	0.53	I.34	.34

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 45.75 acres or 0.07148 sq.mi
Peak discharge = 12 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	Input Values * Tt (hr)	Rounded Values Tc (hr)	Rounded Values * Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
AREA 1EX	0.71	0.00	0.75	0.00	Yes	--

* Travel time from subarea outfall to composite watershed outfall point.

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX2.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
AREA 1EX	12	12.7
Composite Watershed	12	12.7

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX2.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
AREA 1EX	0	0	0	0	0	0	1	3	6
Total (cfs)	0	0	0	0	0	0	1	3	6

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
AREA 1EX	9	11	12	11	9	7	5	4	4
Total (cfs)	9	11	12	11	9	7	5	4	4

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
AREA 1EX	3	3	2	2	2	2	1	1	1

Total (cfs)	3	3	2	2	2	2	1	1	1

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
AREA 1EX	1	1	1	1	0
Total (cfs)	1	1	1	1	0

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX2.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
11.0	0	14.8	2
11.1	0	14.9	2
11.2	0	15.0	2
11.3	0	15.1	2
11.4	0	15.2	2
11.5	0	15.3	2
11.6	0	15.4	2
11.7	0	15.5	2
11.8	0	15.6	2
11.9	0	15.7	2
12.0	0	15.8	2
12.1	0	15.9	2
12.2	1	16.0	2
12.3	3	16.1	2
12.4	6	16.2	2
12.5	9	16.3	1
12.6	11	16.4	1
12.7	12	16.5	1
12.8	11	16.6	1
12.9	10	16.7	1
13.0	9	16.8	1

13.1	8	16.9	1
13.2	7	17.0	1
13.3	6	17.1	1
13.4	5	17.2	1
13.5	5	17.3	1
13.6	4	17.4	1
13.7	4	17.5	1
13.8	4	17.6	1
13.9	4	17.7	1
14.0	3	17.8	1
14.1	3	17.9	1
14.2	3	18.0	1
14.3	3	18.1	1
14.4	3	18.2	1
14.5	2	18.3	1
14.6	2	18.4	1
14.7	2	18.5	1

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX2.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
18.6	1	22.4	1
18.7	1	22.5	1
18.8	1	22.6	1
18.9	1	22.7	1
19.0	1	22.8	1
19.1	1	22.9	1
19.2	1	23.0	1
19.3	1	23.1	1
19.4	1	23.2	1
19.5	1	23.3	1
19.6	1	23.4	1
19.7	1	23.5	1
19.8	1	23.6	1
19.9	1	23.7	1
20.0	1	23.8	1
20.1	1	23.9	1
20.2	1	24.0	0
20.3	1	24.1	0
20.4	1	24.2	0
20.5	1	24.3	0
20.6	1	24.4	0
20.7	1	24.5	0
20.8	1	24.6	0

20.9	1	24.7	0
21.0	1	24.8	0
21.1	1	24.9	0
21.2	1	25.0	0
21.3	1	25.1	0
21.4	1	25.2	0
21.5	1	25.3	0
21.6	1	25.4	0
21.7	1	25.5	0
21.8	1	25.6	0
21.9	1	25.7	0
22.0	1	25.8	0
22.1	1	25.9	0
22.2	1		
22.3	1		

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input/used
AREA 1EX	45.75	68.0	0.75	0.00	4.00	1.20	I.24 .24

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 45.75 acres or 0.07148 sq.mi
Peak discharge = 31 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	Input Values * Tt (hr)	Rounded Values Tc (hr)	Rounded Values * Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
AREA 1EX	0.71	0.00	0.75	0.00	Yes	--

* Travel time from subarea outfall to composite watershed outfall point.

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
AREA 1EX	31	12.7
Composite Watershed	31	12.7

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
AREA 1EX	0	0	1	1	1	2	5	10	18
Total (cfs)	0	0	1	1	1	2	5	10	18

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
AREA 1EX	26	30	31	29	21	15	11	9	7
Total (cfs)	26	30	31	29	21	15	11	9	7

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
AREA 1EX	6	5	4	4	3	3	3	2	2

Total (cfs)	6	5	4	4	3	3	3	2	2

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
AREA 1EX	2	2	2	1	0
Total (cfs)	2	2	2	1	0

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
11.0	0	14.8	4
11.1	0	14.9	4
11.2	0	15.0	4
11.3	0	15.1	4
11.4	0	15.2	4
11.5	1	15.3	3
11.6	1	15.4	3
11.7	1	15.5	3
11.8	1	15.6	3
11.9	1	15.7	3
12.0	1	15.8	3
12.1	2	15.9	3
12.2	5	16.0	3
12.3	10	16.1	3
12.4	18	16.2	3
12.5	26	16.3	3
12.6	30	16.4	3
12.7	31	16.5	3
12.8	29	16.6	3
12.9	25	16.7	3
13.0	21	16.8	2

13.1	18	16.9	2
13.2	15	17.0	2
13.3	13	17.1	2
13.4	11	17.2	2
13.5	10	17.3	2
13.6	9	17.4	2
13.7	8	17.5	2
13.8	7	17.6	2
13.9	6	17.7	2
14.0	6	17.8	2
14.1	6	17.9	2
14.2	5	18.0	2
14.3	5	18.1	2
14.4	5	18.2	2
14.5	4	18.3	2
14.6	4	18.4	2
14.7	4	18.5	2

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)
18.6	2
18.7	2
18.8	2
18.9	2
19.0	2
19.1	2
19.2	2
19.3	2
19.4	2
19.5	2
19.6	2
19.7	2
19.8	2
19.9	2
20.0	2
20.1	2
20.2	2
20.3	2
20.4	2
20.5	2
20.6	2
20.7	2
20.8	2

Time (hrs)	Flow (cfs)
22.4	1
22.5	1
22.6	1
22.7	1
22.8	1
22.9	1
23.0	1
23.1	1
23.2	1
23.3	1
23.4	1
23.5	1
23.6	1
23.7	1
23.8	1
23.9	1
24.0	0
24.1	0
24.2	0
24.3	0
24.4	0
24.5	0
24.6	0

20.9	2
21.0	2
21.1	1
21.2	1
21.3	1
21.4	1
21.5	1
21.6	1
21.7	1
21.8	1
21.9	1
22.0	1
22.1	1
22.2	1
22.3	1
24.7	0
24.8	0
24.9	0
25.0	0
25.1	0
25.2	0
25.3	0
25.4	0
25.5	0
25.6	0
25.7	0
25.8	0
25.9	0

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input/used
AREA 1EX	45.75	68.0	0.75	0.00	5.80	2.47	I.16 .16

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 45.75 acres or 0.07148 sq.mi
Peak discharge = 70 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	Input Values * Tt (hr)	Rounded Values Tc (hr)	Rounded Values * Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
AREA 1EX	0.71	0.00	0.75	0.00	Yes	--

* Travel time from subarea outfall to composite watershed outfall point.

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
AREA 1EX	70	12.6
Composite Watershed	70	12.6

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

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Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
AREA 1EX	2	2	3	4	6	9	16	29	46
Total (cfs)	2	2	3	4	6	9	16	29	46

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
AREA 1EX	61	70	69	63	44	31	23	17	14
Total (cfs)	61	70	69	63	44	31	23	17	14

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
AREA 1EX	12	10	8	7	6	5	5	4	4

Total (cfs)	12	10	8	7	6	5	5	4	4

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
AREA 1EX	4	3	3	2	0
Total (cfs)	4	3	3	2	0

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
11.0	2	14.8	8
11.1	2	14.9	7
11.2	2	15.0	7
11.3	2	15.1	7
11.4	2	15.2	7
11.5	3	15.3	6
11.6	3	15.4	6
11.7	3	15.5	6
11.8	4	15.6	6
11.9	4	15.7	6
12.0	6	15.8	5
12.1	9	15.9	5
12.2	16	16.0	5
12.3	29	16.1	5
12.4	46	16.2	5
12.5	61	16.3	5
12.6	70	16.4	5
12.7	69	16.5	5
12.8	63	16.6	5
12.9	53	16.7	5
13.0	44	16.8	4

13.1	37
13.2	31
13.3	27
13.4	23
13.5	20
13.6	17
13.7	16
13.8	14
13.9	13
14.0	12
14.1	11
14.2	11
14.3	10
14.4	9
14.5	9
14.6	8
14.7	8
16.9	4
17.0	4
17.1	4
17.2	4
17.3	4
17.4	4
17.5	4
17.6	4
17.7	4
17.8	4
17.9	4
18.0	4
18.1	4
18.2	4
18.3	4
18.4	4
18.5	4

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 12:30:37
Watershed file: --> P:\HAESTAD\ZBAS\SPREX .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPREX100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
EXISTING CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
18.6	3	22.4	2
18.7	3	22.5	2
18.8	3	22.6	2
18.9	3	22.7	2
19.0	3	22.8	2
19.1	3	22.9	2
19.2	3	23.0	2
19.3	3	23.1	1
19.4	3	23.2	1
19.5	3	23.3	1
19.6	3	23.4	1
19.7	3	23.5	1
19.8	3	23.6	1
19.9	3	23.7	1
20.0	3	23.8	1
20.1	3	23.9	1
20.2	3	24.0	1
20.3	3	24.1	1
20.4	3	24.2	1
20.5	3	24.3	1
20.6	3	24.4	1
20.7	3	24.5	1
20.8	3	24.6	1

20.9	3
21.0	2
21.1	2
21.2	2
21.3	2
21.4	2
21.5	2
21.6	2
21.7	2
21.8	2
21.9	2
22.0	2
22.1	2
22.2	2
22.3	2
24.7	1
24.8	1
24.9	1
25.0	0
25.1	0
25.2	0
25.3	0
25.4	0
25.5	0
25.6	0
25.7	0
25.8	0
25.9	0

Post Hydrographs

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR2.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input/used
AREA 1PR	45.75	81.0	0.20	0.00	2.80	1.16	I.17 .17

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 45.75 acres or 0.07148 sq.mi
Peak discharge = 63 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	* Tt (hr)	Rounded Values Tc (hr)	* Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
AREA 1PR	0.17	0.00	0.20	0.00	Yes	--

* Travel time from subarea outfall to composite watershed outfall point.

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR2.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
AREA 1PR	63	12.2
Composite Watershed	63	12.2

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR2.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
AREA 1PR	1	2	3	12	27	56	63	40	21
Total (cfs)	1	2	3	12	27	56	63	40	21

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
AREA 1PR	15	11	9	8	6	6	5	5	4
Total (cfs)	15	11	9	8	6	6	5	5	4

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
AREA 1PR	4	3	3	3	3	2	2	2	2

Total (cfs)	4	3	3	3	3	2	2	2	2

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
AREA 1PR	2	2	1	1	0
Total (cfs)	2	2	1	1	0

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR2.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
11.0	1	14.8	3
11.1	1	14.9	3
11.2	2	15.0	3
11.3	2	15.1	3
11.4	2	15.2	3
11.5	3	15.3	3
11.6	3	15.4	3
11.7	6	15.5	3
11.8	9	15.6	3
11.9	12	15.7	3
12.0	27	15.8	2
12.1	56	15.9	2
12.2	63	16.0	2
12.3	40	16.1	2
12.4	21	16.2	2
12.5	15	16.3	2
12.6	11	16.4	2
12.7	9	16.5	2
12.8	8	16.6	2
12.9	7	16.7	2
13.0	6	16.8	2

13.1	6
13.2	6
13.3	6
13.4	5
13.5	5
13.6	5
13.7	4
13.8	4
13.9	4
14.0	4
14.1	4
14.2	3
14.3	3
14.4	3
14.5	3
14.6	3
14.7	3
16.9	2
17.0	2
17.1	2
17.2	2
17.3	2
17.4	2
17.5	2
17.6	2
17.7	2
17.8	2
17.9	2
18.0	2
18.1	2
18.2	2
18.3	2
18.4	2
18.5	2

Return Frequency: 2 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR2.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
18.6	2	22.4	1
18.7	2	22.5	1
18.8	2	22.6	1
18.9	2	22.7	1
19.0	2	22.8	1
19.1	2	22.9	1
19.2	2	23.0	1
19.3	2	23.1	1
19.4	2	23.2	1
19.5	2	23.3	1
19.6	1	23.4	1
19.7	1	23.5	1
19.8	1	23.6	1
19.9	1	23.7	1
20.0	1	23.8	1
20.1	1	23.9	1
20.2	1	24.0	0
20.3	1	24.1	0
20.4	1	24.2	0
20.5	1	24.3	0
20.6	1	24.4	0
20.7	1	24.5	0
20.8	1	24.6	0

20.9	1
21.0	1
21.1	1
21.2	1
21.3	1
21.4	1
21.5	1
21.6	1
21.7	1
21.8	1
21.9	1
22.0	1
22.1	1
22.2	1
22.3	1
24.7	0
24.8	0
24.9	0
25.0	0
25.1	0
25.2	0
25.3	0
25.4	0
25.5	0
25.6	0
25.7	0
25.8	0
25.9	0

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input/used
AREA 1PR	45.75	81.0	0.20	0.00	4.00	2.12	I.12 .12

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 45.75 acres or 0.07148 sq.mi
Peak discharge = 120 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	Input Values * Tt (hr)	Rounded Values Tc (hr)	Rounded Values * Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
AREA 1PR	0.17	0.00	0.20	0.00	Yes	--

* Travel time from subarea outfall to composite watershed outfall point.

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
AREA 1PR	120	12.2
Composite Watershed	120	12.2

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
AREA 1PR	3	4	6	29	58	109	120	73	38
Total (cfs)	3	4	6	29	58	109	120	73	38

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
AREA 1PR	26	20	16	13	11	10	8	8	7
Total (cfs)	26	20	16	13	11	10	8	8	7

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
AREA 1PR	6	6	5	5	4	4	3	3	3

Total (cfs)	6	6	5	5	4	4	3	3	3

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
AREA 1PR	3	3	2	2	0
Total (cfs)	3	3	2	2	0

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
11.0	3	14.8	5
11.1	3	14.9	5
11.2	4	15.0	5
11.3	4	15.1	5
11.4	5	15.2	5
11.5	5	15.3	4
11.6	6	15.4	4
11.7	14	15.5	4
11.8	21	15.6	4
11.9	29	15.7	4
12.0	58	15.8	4
12.1	109	15.9	4
12.2	120	16.0	4
12.3	73	16.1	4
12.4	38	16.2	4
12.5	26	16.3	3
12.6	20	16.4	3
12.7	16	16.5	3
12.8	13	16.6	3
12.9	12	16.7	3
13.0	11	16.8	3

13.1	10	16.9	3
13.2	10	17.0	3
13.3	9	17.1	3
13.4	8	17.2	3
13.5	8	17.3	3
13.6	8	17.4	3
13.7	8	17.5	3
13.8	7	17.6	3
13.9	6	17.7	3
14.0	6	17.8	3
14.1	6	17.9	3
14.2	6	18.0	3
14.3	6	18.1	3
14.4	6	18.2	3
14.5	5	18.3	3
14.6	5	18.4	3
14.7	5	18.5	3

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR10.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
18.6	3	22.4	2
18.7	3	22.5	2
18.8	3	22.6	2
18.9	3	22.7	2
19.0	3	22.8	2
19.1	3	22.9	2
19.2	3	23.0	2
19.3	3	23.1	1
19.4	3	23.2	1
19.5	2	23.3	1
19.6	2	23.4	1
19.7	2	23.5	1
19.8	2	23.6	1
19.9	2	23.7	1
20.0	2	23.8	1
20.1	2	23.9	1
20.2	2	24.0	1
20.3	2	24.1	1
20.4	2	24.2	1
20.5	2	24.3	1
20.6	2	24.4	1
20.7	2	24.5	1
20.8	2	24.6	1

20.9	2
21.0	2
21.1	2
21.2	2
21.3	2
21.4	2
21.5	2
21.6	2
21.7	2
21.8	2
21.9	2
22.0	2
22.1	2
22.2	2
22.3	2
24.7	1
24.8	1
24.9	1
25.0	0
25.1	0
25.2	0
25.3	0
25.4	0
25.5	0
25.6	0
25.7	0
25.8	0
25.9	0

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input/used
AREA 1PR	45.75	81.0	0.20	0.00	5.80	3.70	I.08 .10

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 45.75 acres or 0.07148 sq.mi
Peak discharge = 212 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	Input Values * Tt (hr)	Rounded Values Tc (hr)	Rounded Values * Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
AREA 1PR	0.17	0.00	0.20	0.00	No	Computed Ia/p < .1

* Travel time from subarea outfall to composite watershed outfall point.

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
AREA 1PR	212	12.2
Composite Watershed	212	12.2

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
AREA 1PR	6	8	12	55	107	195	212	127	66
Total (cfs)	6	8	12	55	107	195	212	127	66

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
AREA 1PR	44	34	27	23	19	16	14	13	12
Total (cfs)	44	34	27	23	19	16	14	13	12

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
AREA 1PR	11	9	9	8	7	6	6	5	5

Total (cfs)	11	9	9	8	7	6	6	5	5

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
AREA 1PR	5	4	3	3	0
Total (cfs)	5	4	3	3	0

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
11.0	6	14.8	8
11.1	7	14.9	8
11.2	7	15.0	8
11.3	8	15.1	8
11.4	9	15.2	8
11.5	11	15.3	7
11.6	12	15.4	7
11.7	26	15.5	7
11.8	41	15.6	7
11.9	55	15.7	7
12.0	107	15.8	6
12.1	195	15.9	6
12.2	212	16.0	6
12.3	127	16.1	6
12.4	66	16.2	6
12.5	44	16.3	6
12.6	34	16.4	6
12.7	27	16.5	6
12.8	23	16.6	6
12.9	21	16.7	6
13.0	19	16.8	5

13.1	18	16.9	5
13.2	16	17.0	5
13.3	15	17.1	5
13.4	14	17.2	5
13.5	14	17.3	5
13.6	13	17.4	5
13.7	12	17.5	5
13.8	12	17.6	5
13.9	12	17.7	5
14.0	11	17.8	5
14.1	10	17.9	5
14.2	10	18.0	5
14.3	9	18.1	5
14.4	9	18.2	5
14.5	9	18.3	5
14.6	9	18.4	5
14.7	9	18.5	4

Return Frequency: 100 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-11-2004 13:39:02
Watershed file: --> P:\HAESTAD\ZBAS\SPRPR .MOP
Hydrograph file: --> P:\HAESTAD\ZBAS\SPRPR100.HYD

SUMMER PRAIRIE SUBDIVISION PHASES 1+2+3, CAMBRIDGE, WISCONSIN
PROPOSED CONDITIONS FOR 2, 10, 25, 50 AND 100 STORM EVENT

Time (hrs)	Flow (cfs)	Time (hrs)	Flow (cfs)
18.6	4	22.4	3
18.7	4	22.5	3
18.8	4	22.6	3
18.9	4	22.7	2
19.0	4	22.8	2
19.1	4	22.9	2
19.2	4	23.0	2
19.3	4	23.1	2
19.4	4	23.2	2
19.5	4	23.3	2
19.6	3	23.4	2
19.7	3	23.5	2
19.8	3	23.6	2
19.9	3	23.7	2
20.0	3	23.8	2
20.1	3	23.9	2
20.2	3	24.0	2
20.3	3	24.1	1
20.4	3	24.2	1
20.5	3	24.3	1
20.6	3	24.4	1
20.7	3	24.5	1
20.8	3	24.6	1

20.9	3	24.7	1
21.0	3	24.8	1
21.1	3	24.9	1
21.2	3	25.0	1
21.3	3	25.1	1
21.4	3	25.2	1
21.5	3	25.3	1
21.6	3	25.4	0
21.7	3	25.5	0
21.8	3	25.6	0
21.9	3	25.7	0
22.0	3	25.8	0
22.1	3	25.9	0
22.2	3		
22.3	3		

Routed Hydrographs

****
*
* DESIGN OF DETENTION BASIN FOR THE SUMMER PRAIRIE SUBDIVISION *
* PHASES 1,2,AND 3. *
* CONTROLLED OUTLET WITH 36 INCH PIPE AT 831 AND GABION 20 FT WIDE *
*
*
****

Inflow Hydrograph: P:\HAESTAD\ZBAS\SPRPR2 .HYD
Rating Table file: P:\HAESTAD\ZBAS\SRPR .PND

----INITIAL CONDITIONS----
Elevation = 831.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
831.00	0.0	0.000
832.00	4.1	1.270
833.00	11.7	2.690
834.00	21.4	4.220
835.00	50.1	5.850
836.00	61.3	7.580

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
0.0	0.0
307.3	311.4
651.0	662.7
1021.2	1042.6
1415.7	1465.8
1834.4	1895.7

Time increment (t) = 0.100 hrs.

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: P:\HAESTAD\ZBAS\SRPR .PND
Inflow Hydrograph: P:\HAESTAD\ZBAS\SPRPR2 .HYD
Outflow Hydrograph: P:\HAESTAD\ZBAS\SR2R .HYD

Starting Pond W.S. Elevation = 831.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	63.00 cfs
Peak Outflow	=	7.77 cfs
Peak Elevation	=	832.48 ft

***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	1.96 ac-ft
Total Storage in Pond	=	1.96 ac-ft

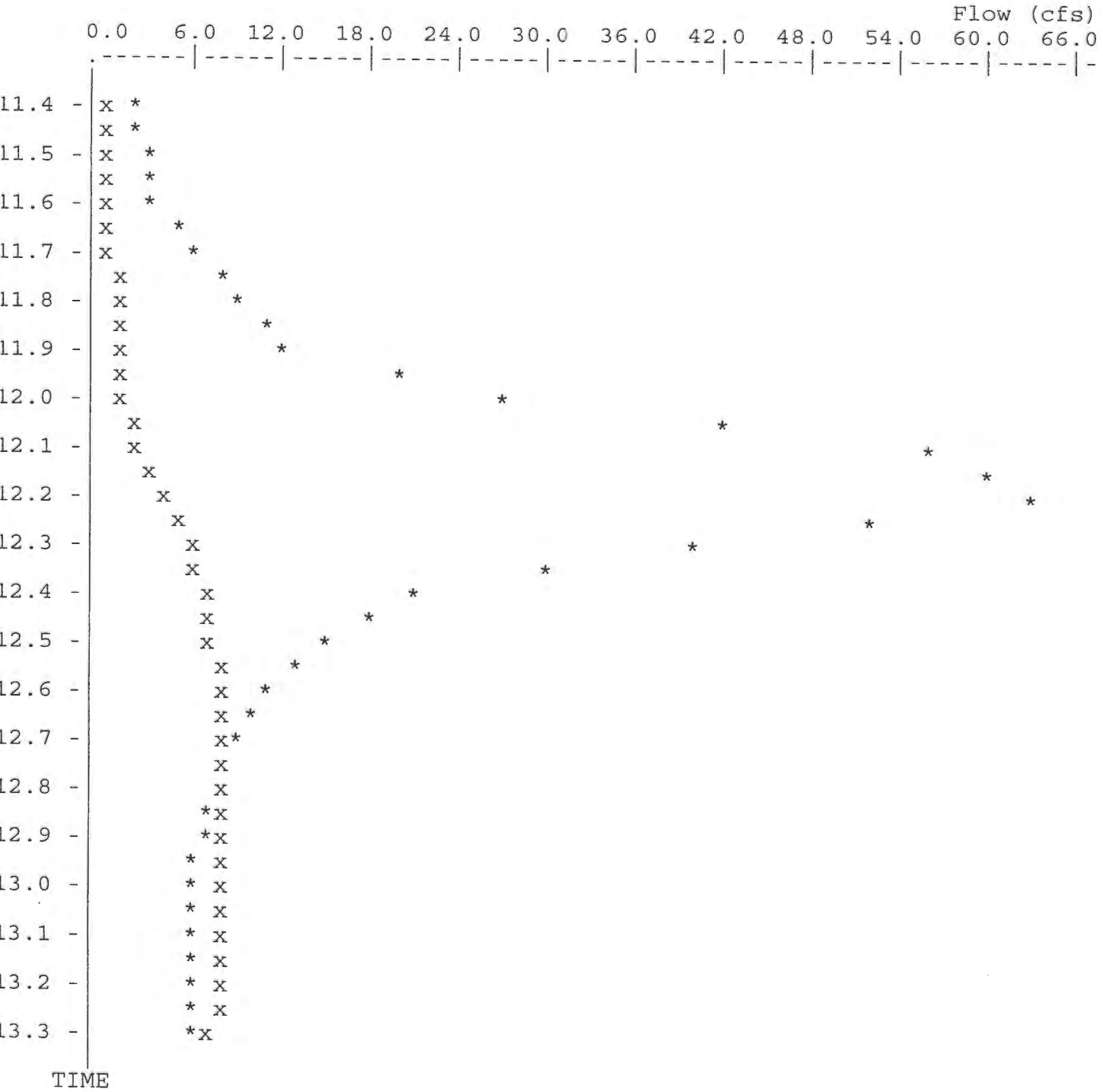
Warning: Inflow hydrograph truncated on left side.

2 YRS. STM Return Freq: 2 years

Pond File: P:\HAESTAD\ZBAS\SRPR .PND
Inflow Hydrograph: P:\HAESTAD\ZBAS\SPRPR2 .HYD
Outflow Hydrograph: P:\HAESTAD\ZBAS\SR2R .HYD

EXECUTED: 06-15-2004
15:05:09

Peak Inflow = 63.00 cfs
Peak Outflow = 7.77 cfs
Peak Elevation = 832.48 ft


Flow (cfs)
0.0
6.0
12.0
18.0
24.0
30.0
36.0
42.0
48.0
54.0
60.0
66.0
11.4
11.5
11.6
11.7
11.8
11.9
12.0
12.1
12.2
12.3
12.4
12.5
12.6
12.7
12.8
12.9
13.0
13.1
13.2
13.3
TIME

(hrs)

```
*  File:  P:\HAESTAD\ZBAS\SPRPR2  .HYD   Qmax =    63.0 cfs
x  File:  P:\HAESTAD\ZBAS\SR2R    .HYD   Qmax =     7.8 cfs
```

```
*****************************************************************
*                                                               *
*    DESIGN OF DETENTION BASIN FOR THE SUMMER PRAIRIE SUBDIVISION   *
*                        PHASES 1,2,AND 3.                      *
*  CONTROLLED OUTLET WITH 36 INCH PIPE AT 831 AND GABION 20 FT WIDE *
*                                                               *
*                                                               *
*****************************************************************
```

Inflow Hydrograph: P:\HAESTAD\ZBAS\SPRPR10 .HYD
Rating Table file: P:\HAESTAD\ZBAS\SRPR .POND

----INITIAL CONDITIONS----
Elevation = 831.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
831.00	0.0	0.000
832.00	4.1	1.270
833.00	11.7	2.690
834.00	21.4	4.220
835.00	50.1	5.850
836.00	61.3	7.580

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
0.0	0.0
307.3	311.4
651.0	662.7
1021.2	1042.6
1415.7	1465.8
1834.4	1895.7

Time increment (t) = 0.100 hrs.

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: P:\HAESTAD\ZBAS\SRPR .PND
Inflow Hydrograph: P:\HAESTAD\ZBAS\SPRPR10 .HYD
Outflow Hydrograph: P:\HAESTAD\ZBAS\SR10R .HYD

Starting Pond W.S. Elevation = 831.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	120.00 cfs
Peak Outflow	=	17.86 cfs
Peak Elevation	=	833.64 ft

***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	3.66 ac-ft
Total Storage in Pond	=	3.66 ac-ft

Warning: Inflow hydrograph truncated on left side.

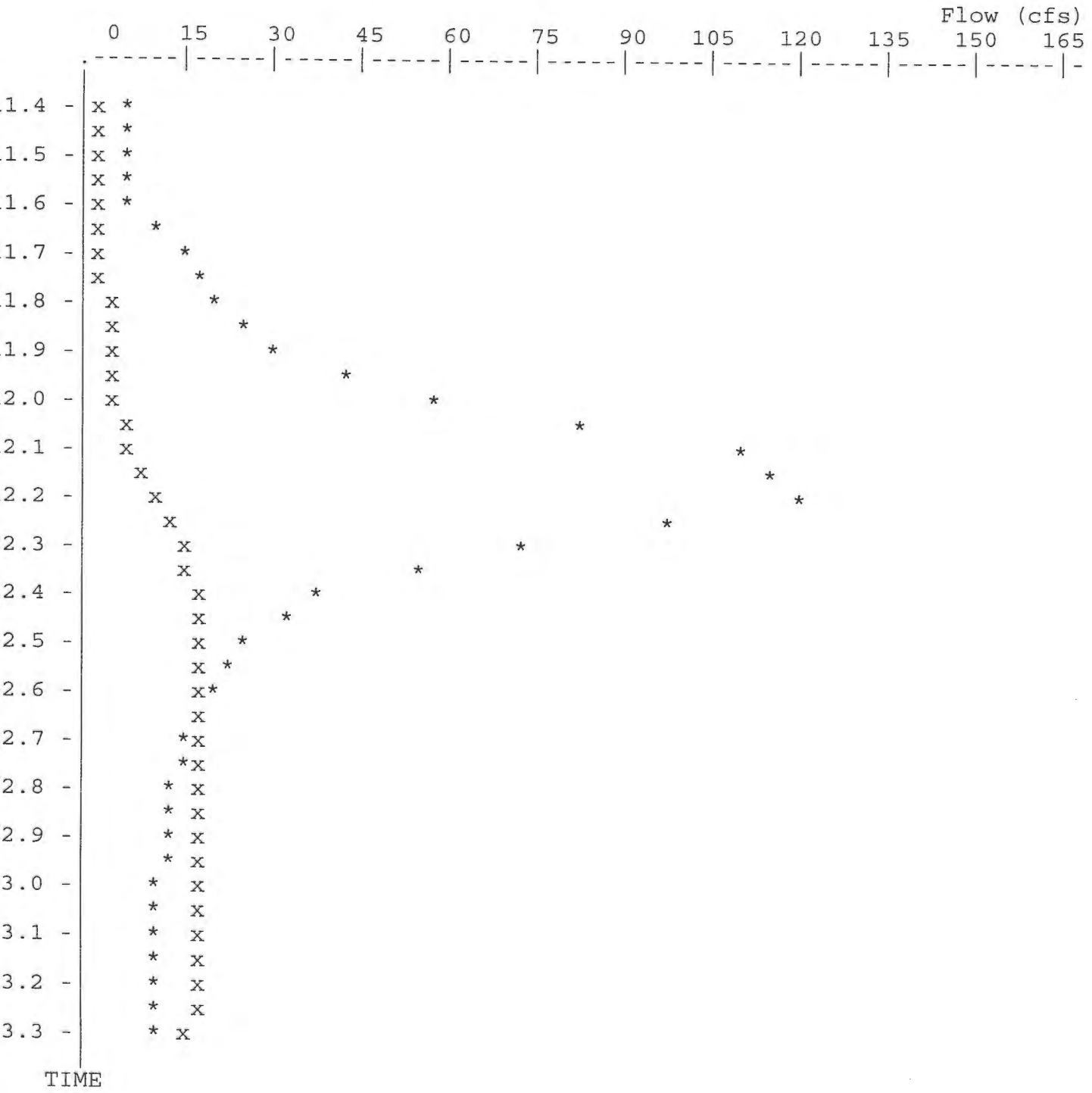
10

Return Freq: 10 years

Pond File: P:\HAESTAD\ZBAS\SRPR .PND
Inflow Hydrograph: P:\HAESTAD\ZBAS\SPRPR10 .HYD
Outflow Hydrograph: P:\HAESTAD\ZBAS\SR10R .HYD

EXECUTED: 06-15-2004
15:05:09

Peak Inflow = 120.00 cfs
Peak Outflow = 17.86 cfs
Peak Elevation = 833.64 ft


Flow (cfs)
0
15
30
45
60
75
90
105
120
135
150
165
11.4
11.5
11.6
11.7
11.8
11.9
12.0
12.1
12.2
12.3
12.4
12.5
12.6
12.7
12.8
12.9
13.0
13.1
13.2
13.3
TIME

(hrs)

```
*  File:  P:\HAESTAD\ZBAS\SPRPR10 .HYD   Qmax =   120.0 cfs
x  File:  P:\HAESTAD\ZBAS\SR10R   .HYD   Qmax =    17.9 cfs
```

```
**********************************************************************
*                                                                    *
*    DESIGN OF DETENTION BASIN FOR THE SUMMER PRAIRIE SUBDIVISION    *
*                        PHASES 1,2,AND 3.                           *
*  CONTROLLED OUTLET WITH 36 INCH PIPE AT 831 AND GABION 20 FT WIDE  *
*                                                                    *
*                                                                    *
**********************************************************************
```

Inflow Hydrograph: P:\HAESTAD\ZBAS\SPRPR100.HYD
Rating Table file: P:\HAESTAD\ZBAS\SRPR   .PND

----INITIAL CONDITIONS----
Elevation = 831.00 ft
Outflow   =   0.00 cfs
Storage   =   0.00 ac-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
831.00	0.0	0.000
832.00	4.1	1.270
833.00	11.7	2.690
834.00	21.4	4.220
835.00	50.1	5.850
836.00	61.3	7.580

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
0.0	0.0
307.3	311.4
651.0	662.7
1021.2	1042.6
1415.7	1465.8
1834.4	1895.7

Time increment (t) = 0.100 hrs.

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: P:\HAESTAD\ZBAS\SRPR .PND
Inflow Hydrograph: P:\HAESTAD\ZBAS\SPRPR100.HYD
Outflow Hydrograph: P:\HAESTAD\ZBAS\SR100R .HYD

Starting Pond W.S. Elevation = 831.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	212.00 cfs
Peak Outflow	=	51.15 cfs
Peak Elevation	=	835.10 ft

***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	6.01 ac-ft
Total Storage in Pond	=	6.01 ac-ft

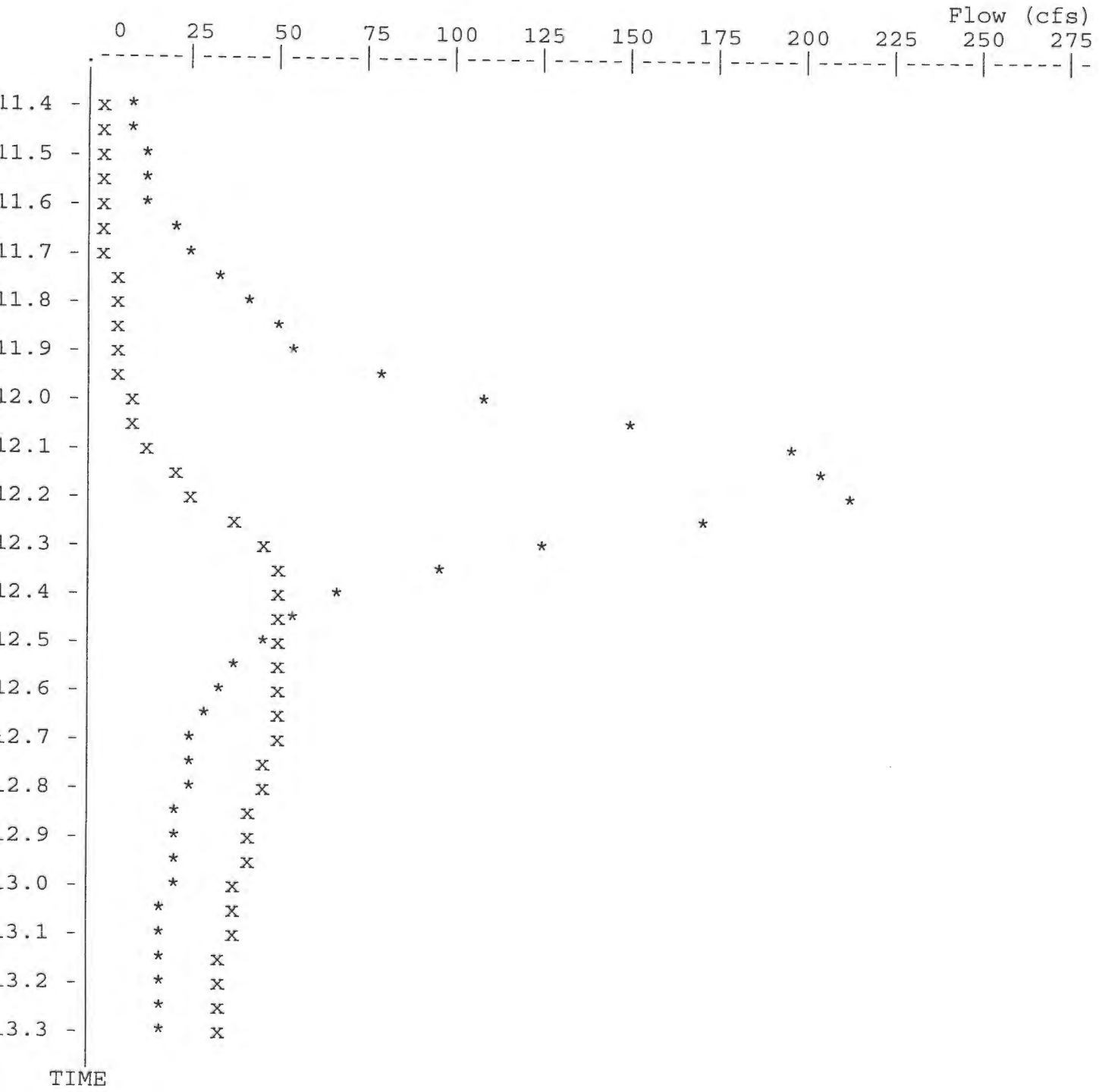
Warning: Inflow hydrograph truncated on left side.

100
Return Freq: 100 years

Pond File: P:\HAESTAD\ZBAS\SRPR .PND
Inflow Hydrograph: P:\HAESTAD\ZBAS\SPRPR100.HYD
Outflow Hydrograph: P:\HAESTAD\ZBAS\SR100R .HYD

EXECUTED: 06-15-2004
15:05:09

Peak Inflow = 212.00 cfs
Peak Outflow = 51.15 cfs
Peak Elevation = 835.10 ft


Flow (cfs)
0
25
50
75
100
125
150
175
200
225
250
275
11.4
11.5
11.6
11.7
11.8
11.9
12.0
12.1
12.2
12.3
12.4
12.5
12.6
12.7
12.8
12.9
13.0
13.1
13.2
13.3
TIME

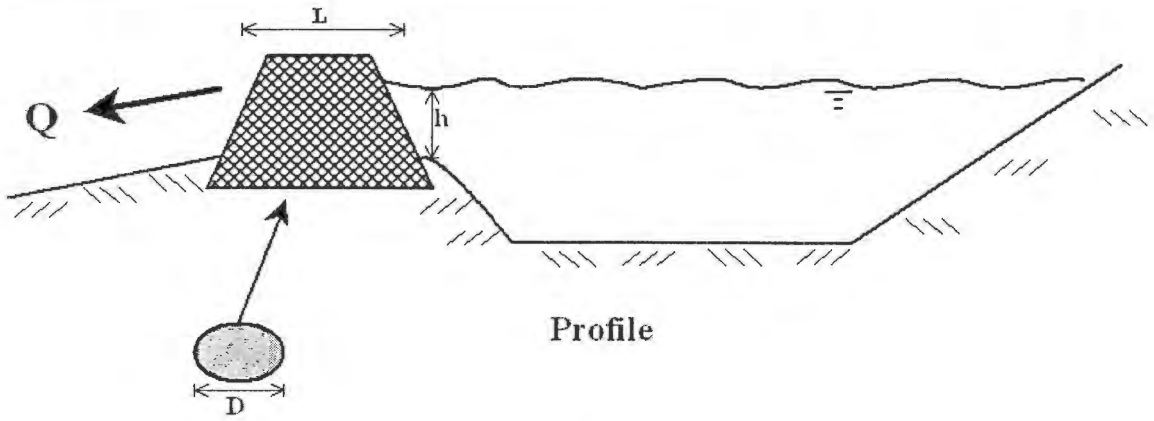
(hrs)

```
*  File:  P:\HAESTAD\ZBAS\SPRPR100.HYD   Qmax =   212.0 cfs
x  File:  P:\HAESTAD\ZBAS\SR100R  .HYD   Qmax =    51.2 cfs
```

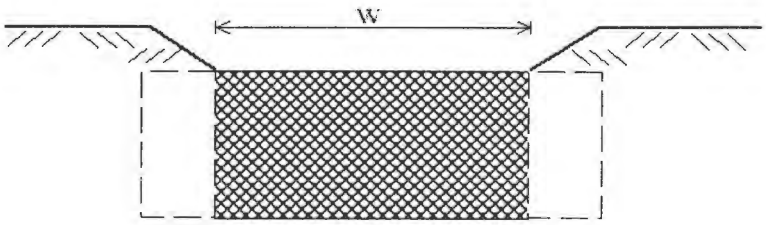
Outfall structures

Calculating Flow Through a Rock Dam

CLIENT:	**Howe - Summer Prairie**	COUNTY:	**Jefferson**	DATE:	8/3/2004
DSN BY:	**DJC**	CHK BY:	_____	DATE:	_____
COMMENTS:	Outfall - Basin 1				



Profile

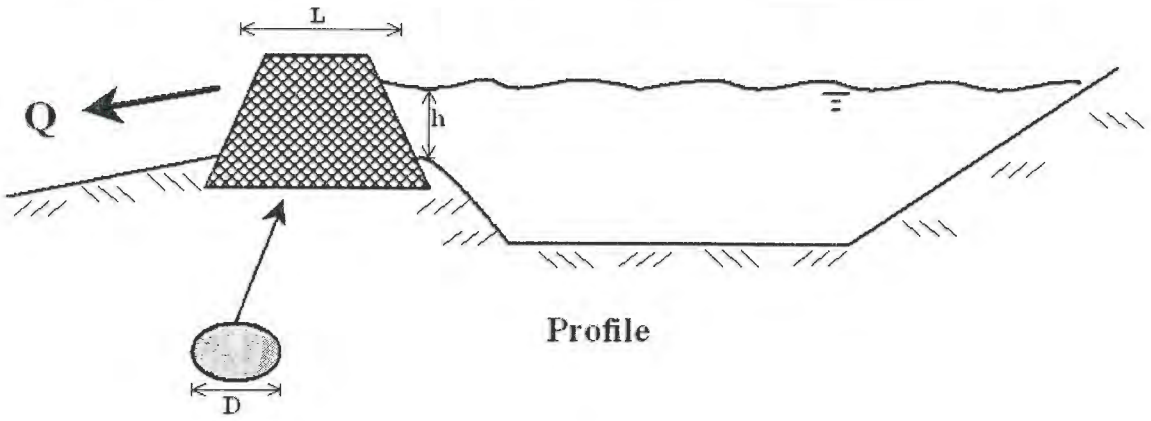


Cross-Section

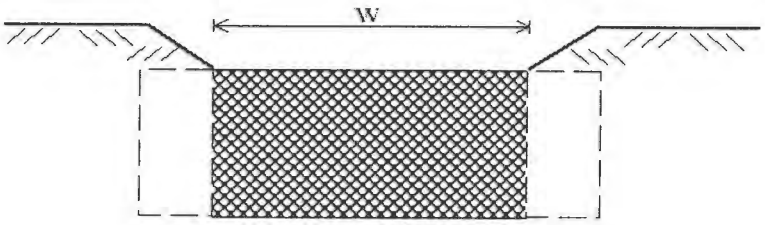
h =	0.5	feet	(ponding depth of basin)
W =	5.0	feet	(length of rock dam open to flow)
L =	3.0	feet	(average horizontal flow path length)
D =	0.25	feet	(average rock diameter)
Q =	**0.4**	cfs	(flow rate through rock dam)
Q =	**0.2**	cfs	(with 60% clogging factor)

Calculating Flow Through a Rock Dam

CLIENT:	**Howe - Summer Prairie**	COUNTY:	**Jefferson**	DATE:	8/3/2004
DSN BY:	**DJC**	CHK BY:	_____	DATE:	_____
COMMENTS:	Outfall - Basin 1				



Profile

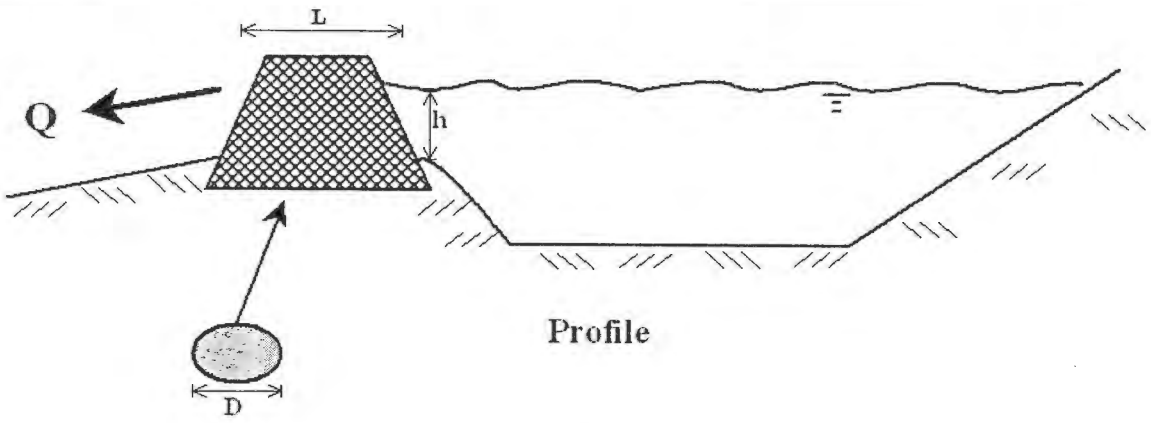


Cross-Section

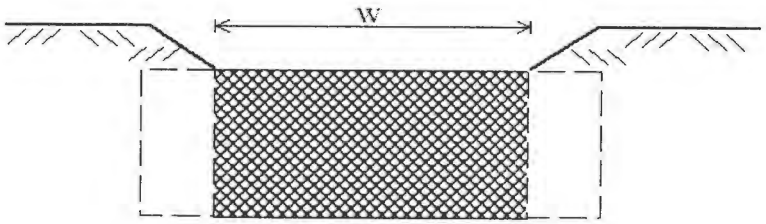
h =	0.8	feet	(ponding depth of basin)
W =	21.0	feet	(length of rock dam open to flow)
L =	3.0	feet	(average horizontal flow path length)
D =	0.25	feet	(average rock diameter)
Q =	**3.1**	cfs	(flow rate through rock dam)
Q =	**1.9**	cfs	(with 60% clogging factor)

Calculating Flow Through a Rock Dam

CLIENT:	**Howe - Summer Prairie**	COUNTY:	**Jefferson**	DATE:	8/3/2004
DSN BY:	**DJC**	CHK BY:		DATE:	
COMMENTS:	Outfall - Basin 1				



Profile



Cross-Section

h =	3.0	feet	(ponding depth of basin)
W =	33.0	feet	(length of rock dam open to flow)
L =	3.0	feet	(average horizontal flow path length)
D =	0.25	feet	(average rock diameter)
Q =	**35.4**	cfs	(flow rate through rock dam)
Q =	**21.2**	cfs	(with 60% clogging factor)

Culvert Calculator Report
summer1

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	836.00 ft	Headwater Depth/ Height	1.67
Computed Headwater Elevation	836.00 ft	Discharge	61.34 cfs
Inlet Control HW Elev	836.00 ft	Tailwater Elevation	831.00 ft
Outlet Control HW Elev	835.84 ft	Control Type	Inlet Control

Grades			
Upstream Invert	831.00 ft	Downstream Invert	830.50 ft
Length	100.00 ft	Constructed Slope	0.005000 ft/ft

Hydraulic Profile			
Profile	CompositeM2Pressure	Depth, Downstream	2.53 ft
Slope Type	Mild	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	2.53 ft
Velocity Downstream	9.66 ft/s	Critical Slope	0.008086 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	3.00 ft
Section Size	36 inch	Rise	3.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev	835.84 ft	Upstream Velocity Head	1.17 ft
Ke	0.50	Entrance Loss	0.59 ft

Inlet Control Properties			
Inlet Control HW Elev	836.00 ft	Flow Control	Submerged
Inlet Type	Square edge w/headwall	Area Full	7.1 ft²
K	0.00980	HDS 5 Chart	1
M	2.00000	HDS 5 Scale	1
C	0.03980	Equation Form	1
Y	0.67000		

Rating Table Report
summer1

Range Data:

	Minimum	Maximum	Increment
Allowable HW Elev	831.00	836.00	1.00 ft

HW Elev (ft)	Discharge (cfs)
831.00	0.00
832.00	4.39
833.00	15.96
834.00	32.04
835.00	50.08
836.00	61.34

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STORM SEWER DESIGN CRITERIA

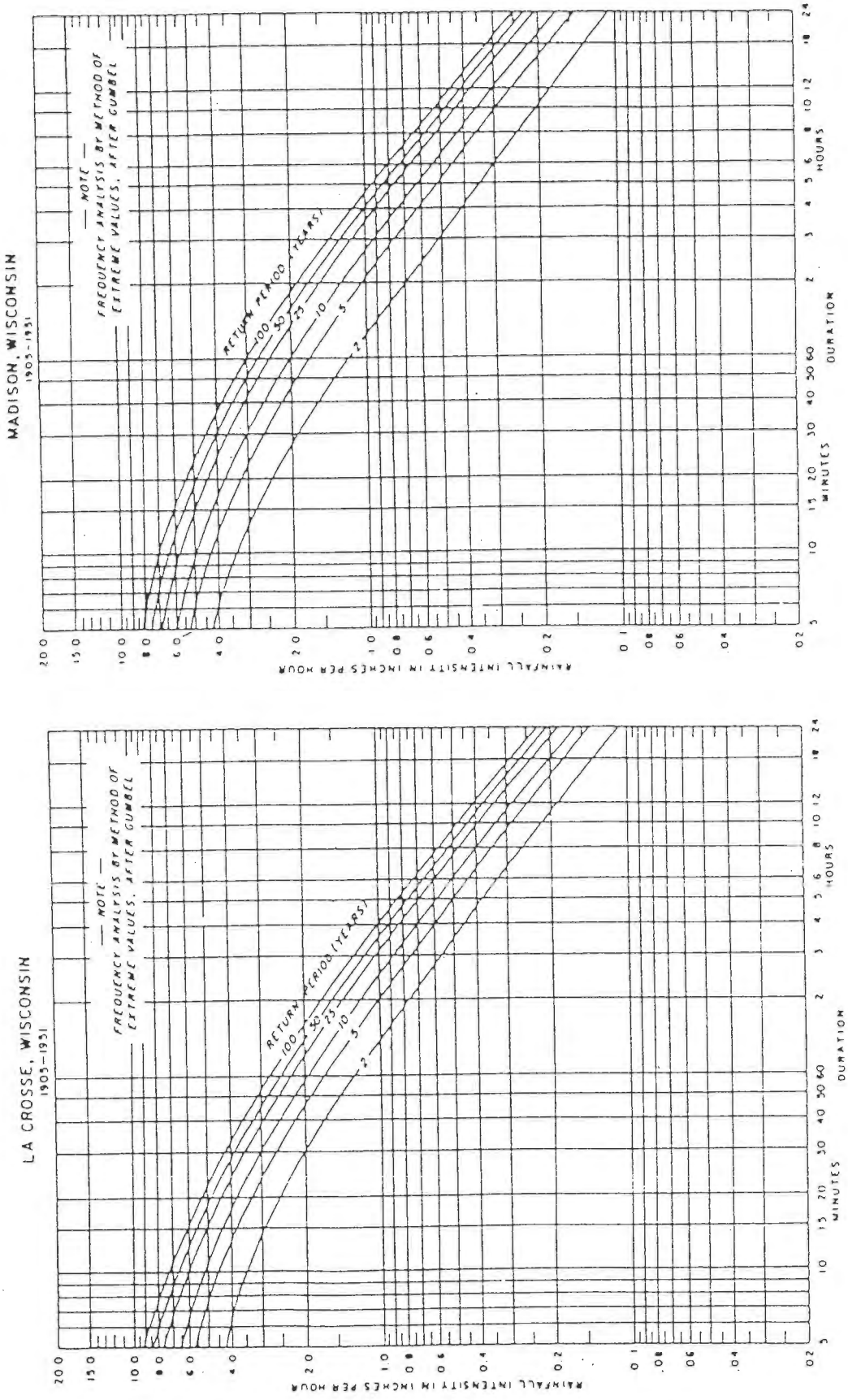
- Design Frequency: 10-year – In the pipe
  100-year – Hydraulic Grade in the Structure
- Runoff Calculation Method: Rational Formula
- Runoff Coefficient: C = .4
  See attached chart.
- Storm Intensity: See attached chart.
- Time of Concentration: 10 min. inlet time
  15 min. field inlet time

Table 3.2.2
Urban Runoff Coefficients for the Rational Method (ASCE, 1992)

Description of Area	Runoff Coefficients
Business	
Downtown	0.70 to 0.95
Neighborhood	0.50 to 0.70
Residential	
Single-family	0.30 to 0.50
Multi-units, detached	0.40 to 0.60
Multi-units, attached	0.60 to 0.75
Residential (suburban)	0.25 to 0.40
Apartment	0.50 to 0.70
Industrial	
Light	0.50 to 0.80
Heavy	0.60 to 0.90
Parks, cemeteries	0.10 to 0.25
Playgrounds	0.20 to 0.35
Railroad yard	0.20 to 0.35
Unimproved	0.10 to 0.30

Table 3.2.3
Values Used to Determine a Composite Runoff Coefficient for an Urban Area
(ASCE, 1992)

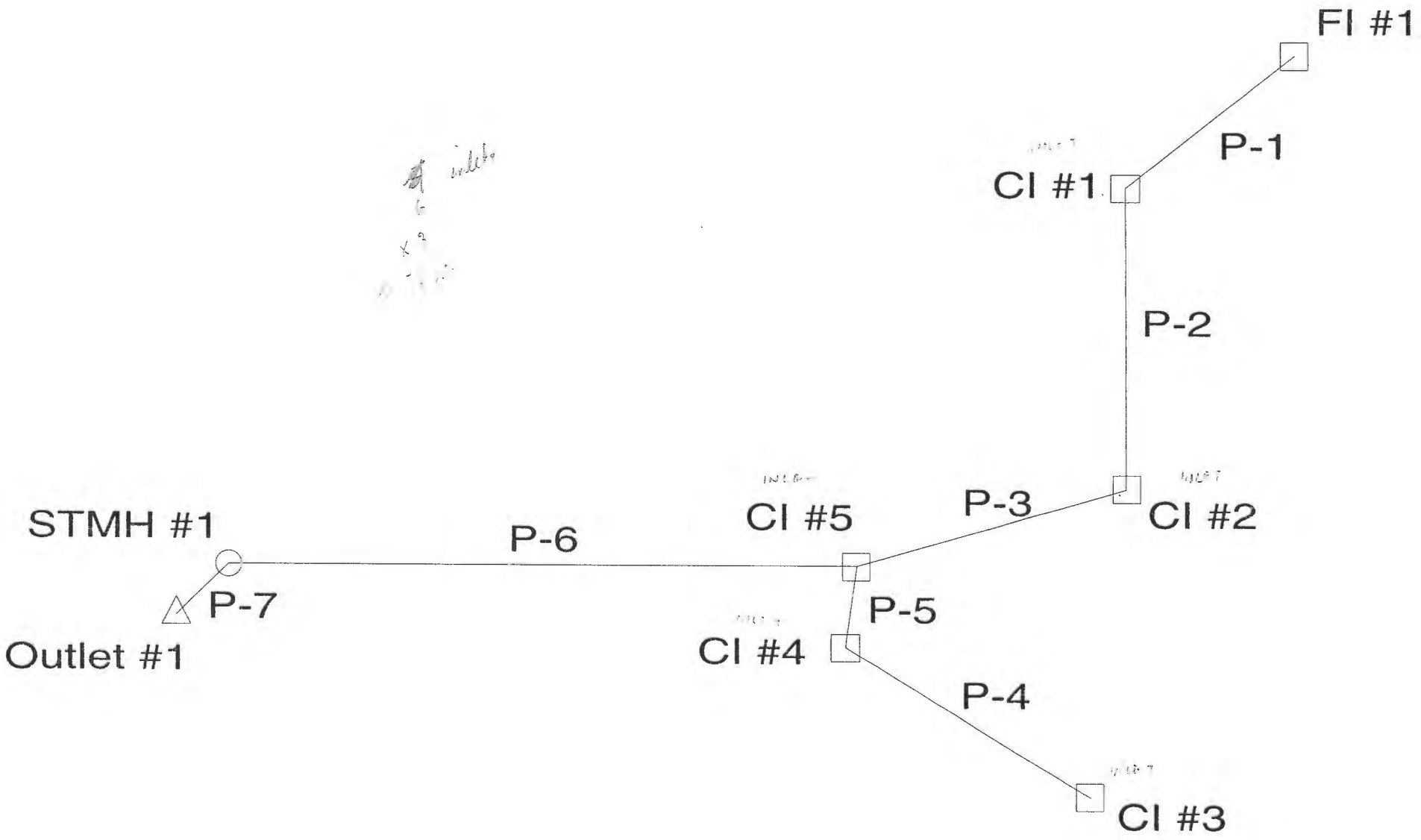
Character of Surface	Runoff Coefficients
Pavement	
Asphalt and Concrete	0.70 to 0.95
Brick	0.70 to 0.85
Roofs	0.75 to 0.95
Lawns, sandy soil	
Flat, 2 percent	0.05 to 0.10
Average, 2 to 7 percent	0.10 to 0.15
Steep, 7 percent	0.15 to 0.20
Lawns, heavy soil	
Flat, 2 percent	0.13 to 0.17
Average, 2 to 7 percent	0.18 to 0.22
Steep, 7 percent	0.25 to 0.35
Water Impoundment	1.00

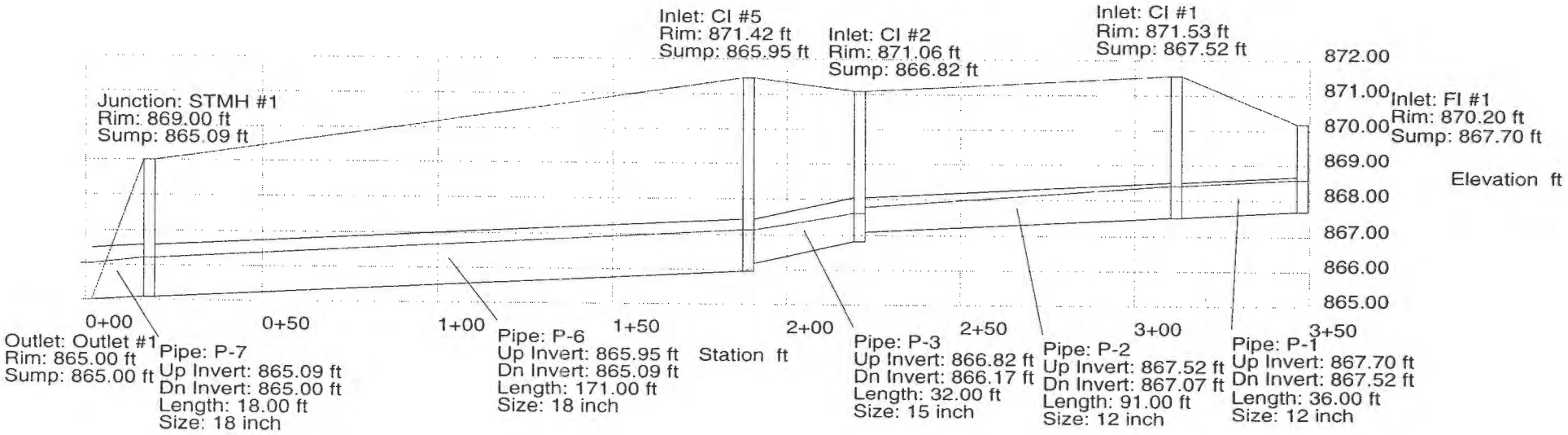


RAINFALL INTENSITY – DURATION – FREQUENCY CURVES

FIGURE 1

Intersection of Waverly Drive and Street A





10 YEAR STORM

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DOT Report

Pipe	-Node- Upstream Downstream	Inlet Area (acres)	Inlet CA (acres)	Total CA (acres)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	-Section- Shape Size	Length (ft)	Average Velocity (ft/s)	Description	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)
P-4	CI #3	1.24	0.50	0.50	870.19	867.61	0.004543	2.56	Circular	40.00	3.43		866.72	866.52
	CI #4				871.34	867.44	0.005000	2.52	12 inch					
P-5	CI #4	0.41	0.16	0.66	871.34	867.44	0.008293	3.39	Circular	13.00	4.80		866.52	866.45
	CI #5				871.42	867.24	0.005385	2.61	12 inch					
P-1	FI #1	1.51	0.60	0.60	870.20	868.59	0.004675	2.59	Circular	36.00	3.49		867.70	867.52
	CI #1				871.53	868.42	0.005000	2.52	12 inch					
P-2	CI #1	0.11	0.04	0.65	871.53	868.42	0.005740	2.77	Circular	91.00	4.16		867.52	867.07
	CI #2				871.06	867.78	0.004945	2.51	12 inch					
P-3	CI #2	0.62	0.25	0.90	871.06	867.61	0.018988	3.80	Circular	32.00	4.25		866.82	866.17
	CI #5				871.42	867.11	0.020313	9.21	15 inch					
P-6	CI #5	0.26	0.10	1.66	871.42	867.11	0.005124	7.02	Circular	171.00	4.90		865.95	865.09
	STMH #1				869.00	866.20	0.005029	7.45	18 inch					
P-7	STMH #1	N/A	N/A	1.66	869.00	866.20	0.005747	6.94	Circular	18.00	5.19		865.09	865.00
	Outlet #1				865.00	866.02	0.005000	7.43	18 inch					

10 YEAR STORM

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Combined Pipe/Node Report

Pipe	Upstream Node	Downstream Node	Length (ft)	Inlet Area (acres)	Weighted Roughness Coefficient	Inlet CA (acres)	Total CA (acres)	Inlet Discharge (cfs)	Section Size	Capacity (cfs)	Average Velocity (ft/s)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	Constructed Slope (ft/ft)	Description
P-4	CI #3	CI #4	40.00	1.24	0.40	0.50	0.50	2.56	12 inch	2.52	3.43	866.72	866.52	0.005000	
P-5	CI #4	CI #5	13.00	0.41	0.40	0.16	0.66	0.85	12 inch	2.61	4.80	866.52	866.45	0.005385	
P-1	FI #1	CI #1	36.00	1.51	0.40	0.60	0.60	2.59	12 inch	2.52	3.49	867.70	867.52	0.005000	
P-2	CI #1	CI #2	91.00	0.11	0.40	0.04	0.65	0.23	12 inch	2.51	4.16	867.52	867.07	0.004945	
P-3	CI #2	CI #5	32.00	0.62	0.40	0.25	0.90	1.28	15 inch	9.21	4.25	866.82	866.17	0.020313	
P-6	CI #5	STMH #1	171.00	0.26	0.40	0.10	1.66	0.54	18 inch	7.45	4.90	865.95	865.09	0.005029	
P-7	STMH #1	Outlet #1	18.00	N/A	N/A	N/A	1.66	N/A	18 inch	7.43	5.19	865.09	865.00	0.005000	

10 YEAR STORM

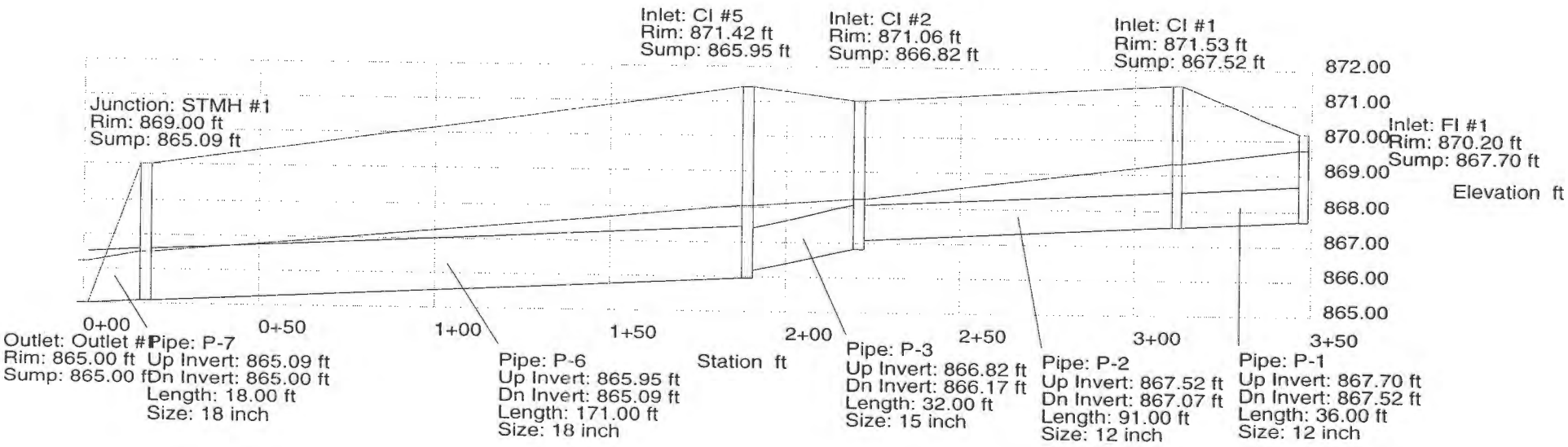
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Node Report

Node	Inlet Area (acres)	Weighted Roughness Coefficient	Inlet CA (acres)	External CA (acres)	Total CA (acres)	Inlet TC (min)	External TC (min)	Upstream Flow Time (min)	System Flow Time (min)	System Intensity (in/hr)	Total Watershed (CIA) (cfs)	Additional Flow (cfs)	Carryover (cfs)	Known Flow (cfs)	Total Upstream Added (cfs)	Discharge (cfs)	Ground Elevation (ft)	Rim Elevation (ft)	HGL In (ft)	HGL Out (ft)	Inlet Intensity (in/hr)
CI #3	1.24	0.40	0.50	0.00	0.50	10.00	0.00	0.00	10.00	5.13	2.56	0.00	0.00	0.00	0.00	2.56	870.19	870.19	867.61	867.61	5.13
CI #4	0.41	0.40	0.16	0.00	0.66	10.00	0.00	10.19	10.19	5.09	3.39	0.00	0.00	0.00	0.00	3.39	871.34	871.34	867.44	867.44	5.13
FI #1	1.51	0.40	0.60	0.00	0.60	15.00	0.00	0.00	15.00	4.25	2.59	0.00	0.00	0.00	0.00	2.59	870.20	870.20	868.59	868.59	4.25
CI #1	0.11	0.40	0.04	0.00	0.65	10.00	0.00	15.17	15.17	4.24	2.77	0.00	0.00	0.00	0.00	2.77	871.53	871.53	868.42	868.42	5.13
CI #2	0.62	0.40	0.25	0.00	0.90	10.00	0.00	15.54	15.54	4.21	3.80	0.00	0.00	0.00	0.00	3.80	871.06	871.06	867.61	867.61	5.13
CI #5	0.26	0.40	0.10	0.00	1.66	10.00	0.00	15.66	15.66	4.19	7.02	0.00	0.00	0.00	0.00	7.02	871.42	871.42	867.11	867.11	5.13
STMH #1	N/A	N/A	N/A	N/A	1.66	N/A	0.00	16.24	16.24	4.15	6.94	N/A	N/A	N/A	0.00	6.94	869.00	869.00	866.20	866.20	N/A
Outlet #1	N/A	N/A	N/A	N/A	1.66	N/A	0.00	16.30	16.30	4.14	6.93	N/A	N/A	N/A	0.00	N/A	865.00	865.00	866.02	866.02	N/A

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Vierbicher Associates Inc
37 Brookside Road Waterbury, CT 06708 USA (203) 755-1666



100 YEAR STORM

DOT Report

Pipe	-Node- Upstream Downstream	Inlet Area (acres)	Inlet CA (acres)	Total CA (acres)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	-Section- Shape Size	Length (ft)	Average Velocity (ft/s)	Description	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)
P-4	CI #3	1.24	0.50	0.50	870.19	868.63	0.009650	3.50	Circular	40.00	4.46		866.72	866.52
	CI #4				871.34	868.25	0.005000	2.52	12 inch					
P-5	CI #4	0.41	0.16	0.66	871.34	868.25	0.016941	4.64	Circular	13.00	5.90		866.52	866.45
	CI #5				871.42	868.03	0.005385	2.61	12 inch					
P-1	FI #1	1.51	0.60	0.60	870.20	869.72	0.010514	3.65	Circular	36.00	4.65		867.70	867.52
	CI #1				871.53	869.35	0.005000	2.52	12 inch					
P-2	CI #1	0.11	0.04	0.65	871.53	869.35	0.012049	3.91	Circular	91.00	4.98		867.52	867.07
	CI #2				871.06	868.25	0.004945	2.51	12 inch					
P-3	CI #2	0.62	0.25	0.90	871.06	868.25	0.006937	5.38	Circular	32.00	4.38		866.82	866.17
	CI #5				871.42	868.03	0.020313	9.21	15 inch					
P-6	CI #5	0.26	0.10	1.66	871.42	868.03	0.008831	9.95	Circular	171.00	5.72		865.95	865.09
	STMH #1				869.00	866.49	0.005029	7.45	18 inch					
P-7	STMH #1	N/A	N/A	1.66	869.00	866.49	0.007934	9.86	Circular	18.00	6.10		865.09	865.00
	Outlet #1				865.00	866.21	0.005000	7.43	18 inch					

100 YEAR STORM

Combined Pipe/Node Report

Pipe	Upstream Node	Downstream Node	Length (ft)	Inlet Area (acres)	Weighted Roughness Coefficient	Inlet CA (acres)	Total CA (acres)	Inlet Discharge (cfs)	Section Size	Capacity (cfs)	Average Velocity (ft/s)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	Constructed Slope (ft/ft)	Description
P-4	CI #3	CI #4	40.00	1.24	0.40	0.50	0.50	3.50	12 inch	2.52	4.46	866.72	866.52	0.005000	
P-5	CI #4	CI #5	13.00	0.41	0.40	0.16	0.66	1.16	12 inch	2.61	5.90	866.52	866.45	0.005385	
P-1	FI #1	CI #1	36.00	1.51	0.40	0.60	0.60	3.65	12 inch	2.52	4.65	867.70	867.52	0.005000	
P-2	CI #1	CI #2	91.00	0.11	0.40	0.04	0.65	0.31	12 inch	2.51	4.98	867.52	867.07	0.004945	
P-3	CI #2	CI #5	32.00	0.62	0.40	0.25	0.90	1.75	15 inch	9.21	4.38	866.82	866.17	0.020313	
P-6	CI #5	STMH #1	171.00	0.26	0.40	0.10	1.66	0.73	18 inch	7.45	5.72	865.95	865.09	0.005029	
P-7	STMH #1	Outlet #1	18.00	N/A	N/A	N/A	1.66	N/A	18 inch	7.43	6.10	865.09	865.00	0.005000	

100 YEAR STORM

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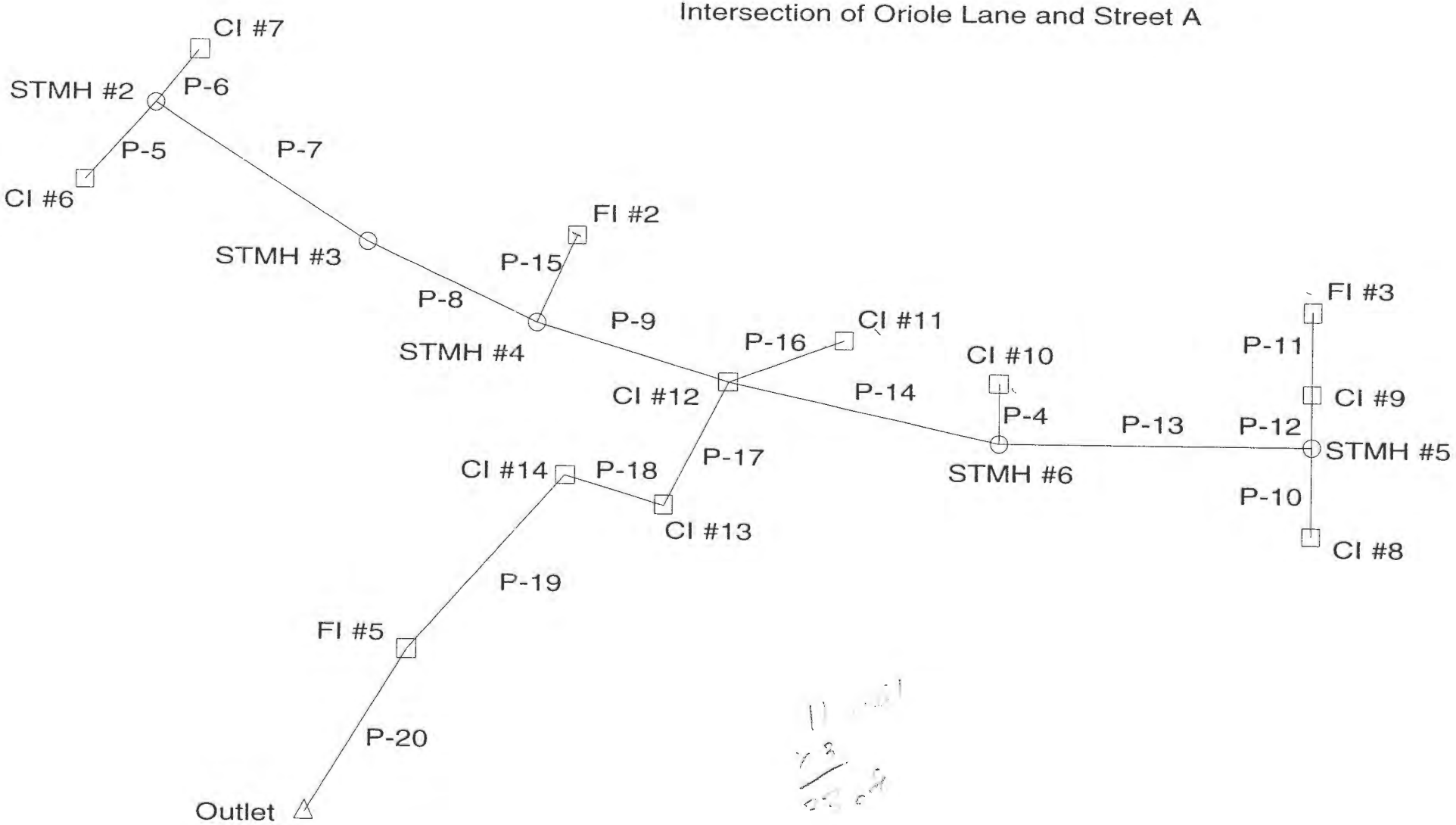
Node Report

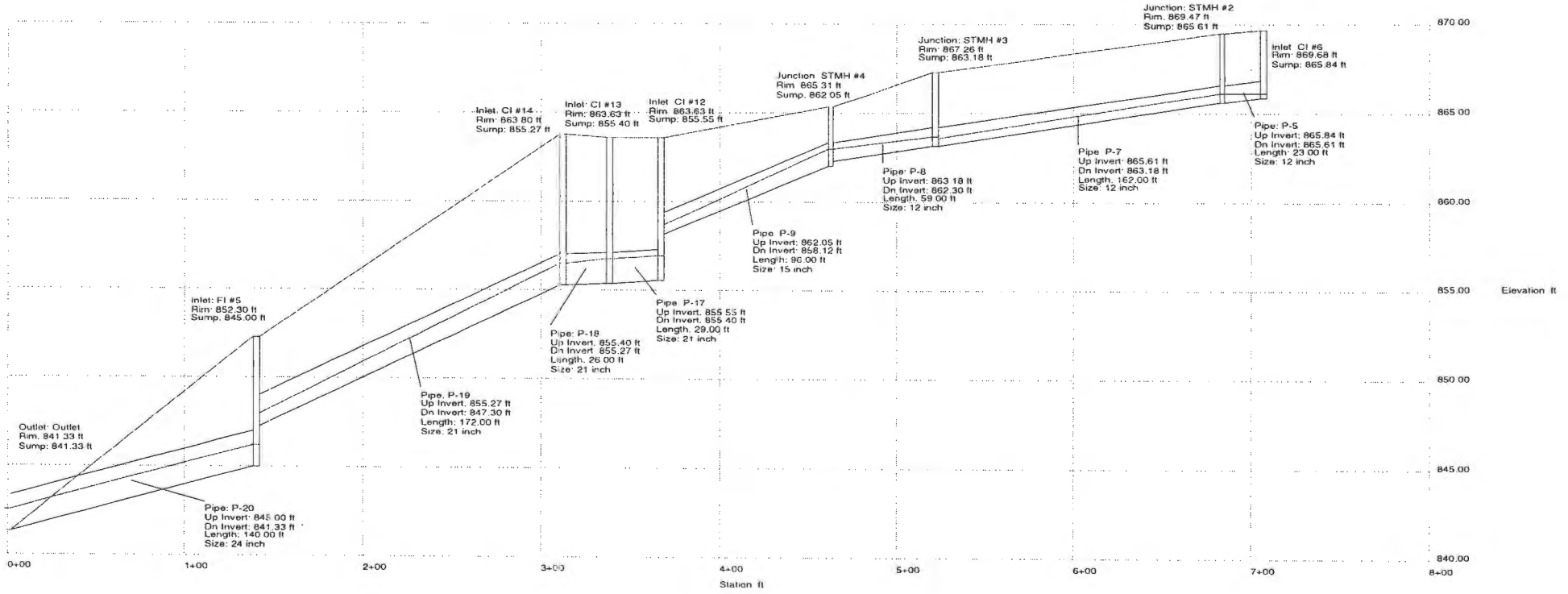
Node	Inlet Area (acres)	Weighted Roughness Coefficient	Inlet CA (acres)	External CA (acres)	Total CA (acres)	Inlet TC (min)	External TC (min)	Upstream Flow Time (min)	System Flow Time (min)	System Intensity (in/hr)	Total Watershed (CIA) (cfs)	Additional Flow (cfs)	Carryover (cfs)	Known Flow (cfs)	Total Upstream Added (cfs)	Discharge (cfs)	Ground Elevation (ft)	Rim Elevation (ft)	HGL In (ft)	HGL Out (ft)	Inlet Intensity (in/hr)
CI #3	1.24	0.40	0.50	0.00	0.50	10.00	0.00	0.00	10.00	7.00	3.50	0.00	0.00	0.00	0.00	3.50	870.19	870.19	868.63	868.63	7.00
CI #4	0.41	0.40	0.16	0.00	0.66	10.00	0.00	10.15	10.15	6.97	4.64	0.00	0.00	0.00	0.00	4.64	871.34	871.34	868.25	868.25	7.00
FI #1	1.51	0.40	0.60	0.00	0.60	15.00	0.00	0.00	15.00	6.00	3.65	0.00	0.00	0.00	0.00	3.65	870.20	870.20	869.72	869.72	6.00
CI #1	0.11	0.40	0.04	0.00	0.65	10.00	0.00	15.13	15.13	5.99	3.91	0.00	0.00	0.00	0.00	3.91	871.53	871.53	869.35	869.35	7.00
CI #2	0.62	0.40	0.25	0.00	0.90	10.00	0.00	15.43	15.43	5.96	5.38	0.00	0.00	0.00	0.00	5.38	871.06	871.06	868.25	868.25	7.00
CI #5	0.26	0.40	0.10	0.00	1.66	10.00	0.00	15.56	15.56	5.94	9.95	0.00	0.00	0.00	0.00	9.95	871.42	871.42	868.03	868.03	7.00
STMH #1	N/A	N/A	N/A	N/A	1.66	N/A	0.00	16.05	16.05	5.89	9.86	N/A	N/A	N/A	0.00	9.86	869.00	869.00	866.49	866.49	N/A
Outlet #1	N/A	N/A	N/A	N/A	1.66	N/A	0.00	16.10	16.10	5.89	9.86	N/A	N/A	N/A	0.00	N/A	865.00	865.00	866.21	866.21	N/A

MAX FLOW OVERLAND FLOW

100 YEAR STORM

Intersection of Oriole Lane and Street A





10 YEAR STORM

Project Title: Summer Prairie
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Vierbicher Associates Inc
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Project Engineer: Vierbicher Associates
StormCAD v1.0

DOT Report

Pipe	-Node- Upstream Downstream	Inlet Area (acres)	Inlet CA (acres)	Total CA (acres)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	Section- Shape Size	Length (ft)	Average Velocity (ft/s)	Description	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)
P-16	CI #11	0.32	0.13	0.13	865.88	861.22	0.046926	0.66	Circular	46.00	4.58		860.88	858.37
	CI #12				863.63	858.56	0.054565	8.32	12 inch					
P-4	CI #10	0.89	0.36	0.36	863.99	859.57	0.018249	1.84	Circular	14.00	5.16		858.99	858.52
	STMH #6				863.91	858.91	0.033571	6.53	12 inch					
P-11	FI #3	1.32	0.53	0.53	863.90	860.54	0.030571	2.26	Circular	20.00	4.04		859.90	859.28
	CI #9				863.24	859.98	0.031000	6.27	12 inch					
P-12	CI #9	0.24	0.10	0.62	863.24	859.98	0.009969	2.67	Circular	7.00	4.51		859.28	859.21
	STMH #5				863.03	859.92	0.010000	3.56	12 inch					
P-10	CI #8	0.09	0.04	0.04	863.24	859.92	0.002490	0.19	Circular	23.00	1.15		859.74	859.21
	STMH #5				863.03	859.92	0.023043	5.41	12 inch					
P-13	STMH #5	N/A	N/A	0.66	863.03	859.92	0.005059	2.82	Circular	137.00	4.05		859.21	858.52
	STMH #6				863.91	859.19	0.005036	4.58	15 inch					
P-14	STMH #6	N/A	N/A	1.02	863.91	859.09	0.005076	4.30	Circular	79.00	4.45		858.27	857.87
	CI #12				863.63	858.66	0.005063	7.47	18 inch					
P-15	FI #2	2.28	0.91	0.91	865.60	863.65	0.030786	3.91	Circular	25.00	4.36		862.85	862.05
	STMH #4				865.31	862.97	0.032000	11.56	15 inch					
P-6	CI #7	0.51	0.20	0.20	869.68	866.11	0.005505	1.05	Circular	7.00	2.87		865.68	865.61
	STMH #2				869.47	866.14	0.010000	3.56	12 inch					
P-5	CI #6	0.25	0.10	0.10	869.68	866.14	0.003556	0.52	Circular	23.00	1.92		865.84	865.61
	STMH #2				869.47	866.14	0.010000	3.56	12 inch					
P-7	STMH #2	N/A	N/A	0.30	869.47	866.14	0.014540	1.56	Circular	162.00	4.39		865.61	863.18
	STMH #3				867.26	863.59	0.015000	4.36	12 inch					
P-8	STMH #3	N/A	N/A	0.30	867.26	863.70	0.013964	1.53	Circular	59.00	3.19		863.18	862.30
	STMH #4				865.31	862.97	0.014915	4.35	12 inch					
P-9	STMH #4	N/A	N/A	1.22	865.31	862.97	0.033154	5.20	Circular	96.00	7.69		862.05	858.12
	CI #12				863.63	858.67	0.040937	13.07	15 inch					
P-17	CI #12	0.61	0.24	2.60	863.63	856.92	0.005253	10.94	Circular	29.00	5.44		855.55	855.40
	CI #13				863.63	856.76	0.005172	11.40	21 inch					
P-18	CI #13	0.10	0.04	2.64	863.63	856.76	0.005744	11.09	Circular	26.00	5.75		855.40	855.27
	CI #14				863.80	856.53	0.005000	11.20	21 inch					
P-19	CI #14	0.23	0.09	2.74	863.80	856.53	0.038289	11.46	Circular	172.00	9.48		855.27	847.30
	FI #5				852.30	848.00	0.046337	34.11	21 inch					
P-20	FI #5	0.15	0.06	2.80	852.30	846.23	0.026214	11.64	Circular	140.00	5.77		845.00	841.33
	Outlet				841.33	842.56	0.026214	36.63	24 inch					

10 YEAR STORM

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Combined Pipe/Node Report

Pipe	Upstream Node	Downstream Node	Length (ft)	Inlet Area (acres)	Weighted Roughness Coefficient	Inlet CA (acres)	Total CA (acres)	Inlet Discharge (cfs)	Section Size	Capacity (cfs)	Average Velocity (ft/s)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	Constructed Slope (ft/ft)	Description
P-16	CI #11	CI #12	46.00	0.32	0.40	0.13	0.13	0.66	12 inch	8.32	4.58	860.88	858.37	0.054565	
P-4	CI #10	STMH #6	14.00	0.89	0.40	0.36	0.36	1.84	12 inch	6.53	5.16	858.99	858.52	0.033571	
P-11	FI #3	CI #9	20.00	1.32	0.40	0.53	0.53	2.26	12 inch	6.27	4.04	859.90	859.28	0.031000	
P-12	CI #9	STMH #5	7.00	0.24	0.40	0.10	0.62	0.50	12 inch	3.56	4.51	859.28	859.21	0.010000	
P-10	CI #8	STMH #5	23.00	0.09	0.40	0.04	0.04	0.19	12 inch	5.41	1.15	859.74	859.21	0.023043	
P-13	STMH #5	STMH #6	137.00	N/A	N/A	N/A	0.66	N/A	15 inch	4.58	4.05	859.21	858.52	0.005036	
P-14	STMH #6	CI #12	79.00	N/A	N/A	N/A	1.02	N/A	18 inch	7.47	4.45	858.27	857.87	0.005063	
P-15	FI #2	STMH #4	25.00	2.28	0.40	0.91	0.91	3.91	15 inch	11.56	4.36	862.85	862.05	0.032000	
P-6	CI #7	STMH #2	7.00	0.51	0.40	0.20	0.20	1.05	12 inch	3.56	2.87	865.68	865.61	0.010000	
P-5	CI #6	STMH #2	23.00	0.25	0.40	0.10	0.10	0.52	12 inch	3.56	1.92	865.84	865.61	0.010000	
P-7	STMH #2	STMH #3	162.00	N/A	N/A	N/A	0.30	N/A	12 inch	4.36	4.39	865.61	863.18	0.015000	
P-8	STMH #3	STMH #4	59.00	N/A	N/A	N/A	0.30	N/A	12 inch	4.35	3.19	863.18	862.30	0.014915	
P-9	STMH #4	CI #12	96.00	N/A	N/A	N/A	1.22	N/A	15 inch	13.07	7.69	862.05	858.12	0.040937	
P-17	CI #12	CI #13	29.00	0.61	0.40	0.24	2.60	1.26	21 inch	11.40	5.44	855.55	855.40	0.005172	
P-18	CI #13	CI #14	26.00	0.10	0.40	0.04	2.64	0.24	21 inch	11.20	5.75	855.40	855.27	0.005000	
P-19	CI #14	FI #5	172.00	0.23	0.40	0.09	2.74	0.48	21 inch	34.11	9.48	855.27	847.30	0.046337	
P-20	FI #5	Outlet	140.00	0.15	0.40	0.06	2.80	0.26	24 inch	36.63	5.77	845.00	841.33	0.026214	

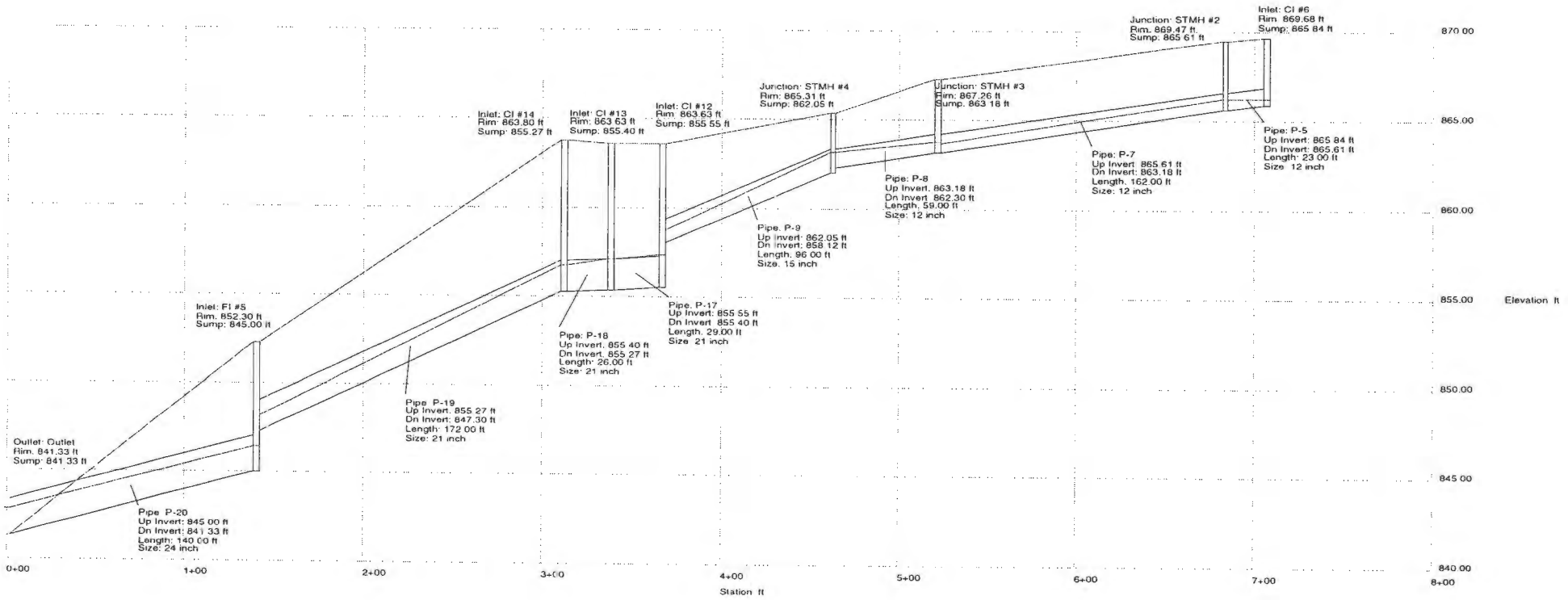
10 YEAR STORM

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Node Report

Node	Inlet Area (acres)	Weighted Roughness Coefficient	Inlet CA (acres)	External CA (acres)	Total CA (acres)	Inlet TC (min)	External TC (min)	Upstream Flow Time (min)	System Flow Time (min)	System Intensity (in/hr)	Total Watershed (CIA) (cfs)	Additional Flow (cfs)	Carryover (cfs)	Known Flow (cfs)	Total Upstream Added (cfs)	Discharge (cfs)	Ground Elevation (ft)	Rim Elevation (ft)	HGL In (ft)	HGL Out (ft)	Inlet Intensity (in/hr)
CI #11	0.32	0.40	0.13	0.00	0.13	10.00	0.00	0.00	10.00	5.13	0.66	0.00	0.00	0.00	0.00	0.66	865.88	865.88	861.22	861.22	5.13
CI #10	0.89	0.40	0.36	0.00	0.36	10.00	0.00	0.00	10.00	5.13	1.84	0.00	0.00	0.00	0.00	1.84	863.99	863.99	859.57	859.57	5.13
FI #3	1.32	0.40	0.53	0.00	0.53	15.00	0.00	0.00	15.00	4.25	2.26	0.00	0.00	0.00	0.00	2.26	863.90	863.90	860.54	860.54	4.25
CI #9	0.24	0.40	0.10	0.00	0.62	10.00	0.00	15.08	15.08	4.24	2.67	0.00	0.00	0.00	0.00	2.67	863.24	863.24	859.98	859.98	5.13
CI #8	0.09	0.40	0.04	0.00	0.04	10.00	0.00	0.00	10.00	5.13	0.19	0.00	0.00	0.00	0.00	0.19	863.24	863.24	859.92	859.92	5.13
STMH #5	N/A	N/A	N/A	N/A	0.66	N/A	0.00	15.11	15.11	4.24	2.82	N/A	N/A	N/A	0.00	2.82	863.03	863.03	859.92	859.92	N/A
STMH #6	N/A	N/A	N/A	N/A	1.02	N/A	0.00	15.67	15.67	4.19	4.30	N/A	N/A	N/A	0.00	4.30	863.91	863.91	859.09	859.09	N/A
FI #2	2.28	0.40	0.91	0.00	0.91	15.00	0.00	0.00	15.00	4.25	3.91	0.00	0.00	0.00	0.00	3.91	865.60	865.60	863.65	863.65	4.25
CI #7	0.51	0.40	0.20	0.00	0.20	10.00	0.00	0.00	10.00	5.13	1.05	0.00	0.00	0.00	0.00	1.05	869.68	869.68	866.11	866.11	5.13
CI #6	0.25	0.40	0.10	0.00	0.10	10.00	0.00	0.00	10.00	5.13	0.52	0.00	0.00	0.00	0.00	0.52	869.68	869.68	866.14	866.14	5.13
STMH #2	N/A	N/A	N/A	N/A	0.30	N/A	0.00	10.20	10.20	5.09	1.56	N/A	N/A	N/A	0.00	1.56	869.47	869.47	866.14	866.14	N/A
STMH #3	N/A	N/A	N/A	N/A	0.30	N/A	0.00	10.81	10.81	4.98	1.53	N/A	N/A	N/A	0.00	1.53	867.26	867.26	863.70	863.70	N/A
STMH #4	N/A	N/A	N/A	N/A	1.22	N/A	0.00	15.10	15.10	4.24	5.20	N/A	N/A	N/A	0.00	5.20	865.31	865.31	862.97	862.97	N/A
CI #12	0.61	0.40	0.24	0.00	2.60	10.00	0.00	15.97	15.97	4.17	10.94	0.00	0.00	0.00	0.00	10.94	863.63	863.63	856.92	856.92	5.13
CI #13	0.10	0.40	0.04	0.00	2.64	5.00	0.00	16.06	16.06	4.16	11.09	0.00	0.00	0.00	0.00	11.09	863.63	863.63	856.76	856.76	6.00
CI #14	0.23	0.40	0.09	0.00	2.74	10.00	0.00	16.13	16.13	4.16	11.46	0.00	0.00	0.00	0.00	11.46	863.80	863.80	856.53	856.53	5.13
FI #5	0.15	0.40	0.06	0.00	2.80	15.00	0.00	16.43	16.43	4.13	11.64	0.00	0.00	0.00	0.00	11.64	852.30	852.30	846.23	846.23	4.25
Outlet	N/A	N/A	N/A	N/A	2.80	N/A	0.00	16.84	16.84	4.10	11.55	N/A	N/A	N/A	0.00	N/A	841.33	841.33	842.56	842.56	N/A

10 YEAR STORM



100 YEAR STORM

Project Title: Summer Prairie
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Project Engineer: Vierbicher Associates
StormCAD v1.0

DOT Report

Pipe	-Node- Upstream Downstream	Inlet Area (acres)	Inlet CA (acres)	Total CA (acres)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	-Section- Shape Size	Length (ft)	Average Velocity (ft/s)	Description	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)
P-16	CI #11	0.32	0.13	0.13	865.88	861.28	0.045359	0.90	Circular	46.00	5.02		860.88	858.37
	CI #12				863.63	858.59	0.054565	8.32	12 inch					
P-4	CI #10	0.89	0.36	0.36	863.99	859.67	0.031937	2.51	Circular	14.00	4.13		858.99	858.52
	STMH #6				863.91	859.30	0.033571	6.53	12 inch					
P-11	FI #3	1.32	0.53	0.53	863.90	860.67	0.029051	3.19	Circular	20.00	4.62		859.90	859.28
	CI #9				863.24	860.18	0.031000	6.27	12 inch					
P-12	CI #9	0.24	0.10	0.62	863.24	860.18	0.009845	3.77	Circular	7.00	5.06		859.28	859.21
	STMH #5				863.03	860.11	0.010000	3.56	12 inch					
P-10	CI #8	0.09	0.04	0.04	863.24	860.10	0.000181	0.25	Circular	23.00	0.67		859.74	859.21
	STMH #5				863.03	860.11	0.023043	5.41	12 inch					
P-13	STMH #5	N/A	N/A	0.66	863.03	860.11	0.005165	3.99	Circular	137.00	4.48		859.21	858.52
	STMH #6				863.91	859.33	0.005036	4.58	15 inch					
P-14	STMH #6	N/A	N/A	1.02	863.91	859.30	0.005191	6.08	Circular	79.00	4.92		858.27	857.87
	CI #12				863.63	858.82	0.005063	7.47	18 inch					
P-15	FI #2	2.28	0.91	0.91	865.60	863.80	0.030787	5.52	Circular	25.00	5.20		862.85	862.05
	STMH #4				865.31	863.13	0.032000	11.56	15 inch					
P-6	CI #7	0.51	0.20	0.20	869.68	866.19	0.004732	1.44	Circular	7.00	3.19		865.68	865.61
	STMH #2				869.47	866.23	0.010000	3.56	12 inch					
P-5	CI #6	0.25	0.10	0.10	869.68	866.19	0.002411	0.71	Circular	23.00	2.12		865.84	865.61
	STMH #2				869.47	866.23	0.010000	3.56	12 inch					
P-7	STMH #2	N/A	N/A	0.30	869.47	866.23	0.014522	2.13	Circular	162.00	4.83		865.61	863.18
	STMH #3				867.26	863.67	0.015000	4.36	12 inch					
P-8	STMH #3	N/A	N/A	0.30	867.26	863.80	0.013396	2.10	Circular	59.00	3.56		863.18	862.30
	STMH #4				865.31	863.13	0.014915	4.35	12 inch					
P-9	STMH #4	N/A	N/A	1.22	865.31	863.13	0.032635	7.34	Circular	96.00	8.74		862.05	858.12
	CI #12				863.63	858.79	0.040937	13.07	15 inch					
P-17	CI #12	0.61	0.24	2.60	863.63	857.40	0.009482	15.52	Circular	29.00	6.46		855.55	855.40
	CI #13				863.63	857.13	0.005172	11.40	21 inch					
P-18	CI #13	0.10	0.04	2.64	863.63	857.13	0.008700	15.74	Circular	26.00	6.90		855.40	855.27
	CI #14				863.80	856.76	0.005000	11.20	21 inch					
P-19	CI #14	0.23	0.09	2.74	863.80	856.76	0.037332	16.27	Circular	172.00	10.74		855.27	847.30
	FI #5				852.30	848.15	0.046337	34.11	21 inch					
P-20	FI #5	0.15	0.06	2.80	852.30	846.47	0.026214	16.55	Circular	140.00	6.70		845.00	841.33
	Outlet				841.33	842.80	0.026214	36.63	24 inch					

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Combined Pipe/Node Report

Pipe	Upstream Node	Downstream Node	Length (ft)	Inlet Area (acres)	Weighted Roughness Coefficient	Inlet CA (acres)	Total CA (acres)	Inlet Discharge (cfs)	Section Size	Capacity (cfs)	Average Velocity (ft/s)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	Constructed Slope (ft/ft)	Description
P-16	CI #11	CI #12	46.00	0.32	0.40	0.13	0.13	0.90	12 inch	8.32	5.02	860.88	858.37	0.054565	
P-4	CI #10	STMH #6	14.00	0.89	0.40	0.36	0.36	2.51	12 inch	6.53	4.13	858.99	858.52	0.033571	
P-11	FI #3	CI #9	20.00	1.32	0.40	0.53	0.53	3.19	12 inch	6.27	4.62	859.90	859.28	0.031000	
P-12	CI #9	STMH #5	7.00	0.24	0.40	0.10	0.62	0.68	12 inch	3.56	5.06	859.28	859.21	0.010000	
P-10	CI #8	STMH #5	23.00	0.09	0.40	0.04	0.04	0.25	12 inch	5.41	0.67	859.74	859.21	0.023043	
P-13	STMH #5	STMH #6	137.00	N/A	N/A	N/A	0.66	N/A	15 inch	4.58	4.48	859.21	858.52	0.005036	
P-14	STMH #6	CI #12	79.00	N/A	N/A	N/A	1.02	N/A	18 inch	7.47	4.92	858.27	857.87	0.005063	
P-15	FI #2	STMH #4	25.00	2.28	0.40	0.91	0.91	5.52	15 inch	11.56	5.20	862.85	862.05	0.032000	
P-6	CI #7	STMH #2	7.00	0.51	0.40	0.20	0.20	1.44	12 inch	3.56	3.19	865.68	865.61	0.010000	
P-5	CI #6	STMH #2	23.00	0.25	0.40	0.10	0.10	0.71	12 inch	3.56	2.12	865.84	865.61	0.010000	
P-7	STMH #2	STMH #3	162.00	N/A	N/A	N/A	0.30	N/A	12 inch	4.36	4.83	865.61	863.18	0.015000	
P-8	STMH #3	STMH #4	59.00	N/A	N/A	N/A	0.30	N/A	12 inch	4.35	3.56	863.18	862.30	0.014915	
P-9	STMH #4	CI #12	96.00	N/A	N/A	N/A	1.22	N/A	15 inch	13.07	8.74	862.05	858.12	0.040937	
P-17	CI #12	CI #13	29.00	0.61	0.40	0.24	2.60	1.72	21 inch	11.40	6.46	855.55	855.40	0.005172	
P-18	CI #13	CI #14	26.00	0.10	0.40	0.04	2.64	0.32	21 inch	11.20	6.90	855.40	855.27	0.005000	
P-19	CI #14	FI #5	172.00	0.23	0.40	0.09	2.74	0.65	21 inch	34.11	10.74	855.27	847.30	0.046337	
P-20	FI #5	Outlet	140.00	0.15	0.40	0.06	2.80	0.36	24 inch	36.63	6.70	845.00	841.33	0.026214	

100 YEAR STORM

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Node Report

Node	Inlet Area (acres)	Weighted Roughness Coefficient	Inlet CA (acres)	Externa CA (acres)	Total CA (acres)	Inlet TC (min)	Externa TC (min)	Upstream Flow Time (min)	System Flow Time (min)	System Intensity (in/hr)	Total Watershed (CIA) (cfs)	Additional Flow (cfs)	Carryover (cfs)	Known Flow (cfs)	Total Upstream Added (cfs)	Discharge (cfs)	Ground Elevation (ft)	Rim Elevation (ft)	HGL In (ft)	HGL Out (ft)	Inlet Intensity (in/hr)
CI #11	0.32	0.40	0.13	0.00	0.13	10.00	0.00	0.00	10.00	7.00	0.90	0.00	0.00	0.00	0.00	0.90	865.88	865.88	861.28	861.28	7.00
CI #10	0.89	0.40	0.36	0.00	0.36	10.00	0.00	0.00	10.00	7.00	2.51	0.00	0.00	0.00	0.00	2.51	863.99	863.99	859.67	859.67	7.00
FI #3	1.32	0.40	0.53	0.00	0.53	15.00	0.00	0.00	15.00	6.00	3.19	0.00	0.00	0.00	0.00	3.19	863.90	863.90	860.67	860.67	6.00
CI #9	0.24	0.40	0.10	0.00	0.62	10.00	0.00	15.07	15.07	5.99	3.77	0.00	0.00	0.00	0.00	3.77	863.24	863.24	860.18	860.18	7.00
CI #8	0.09	0.40	0.04	0.00	0.04	10.00	0.00	0.00	10.00	7.00	0.25	0.00	0.00	0.00	0.00	0.25	863.24	863.24	860.10	860.10	7.00
STMH #5	N/A	N/A	N/A	N/A	0.66	N/A	0.00	15.10	15.10	5.99	3.99	N/A	N/A	N/A	0.00	3.99	863.03	863.03	860.11	860.11	N/A
STMH #6	N/A	N/A	N/A	N/A	1.02	N/A	0.00	15.60	15.60	5.94	6.08	N/A	N/A	N/A	0.00	6.08	863.91	863.91	859.30	859.30	N/A
FI #2	2.28	0.40	0.91	0.00	0.91	15.00	0.00	0.00	15.00	6.00	5.52	0.00	0.00	0.00	0.00	5.52	865.60	865.60	863.80	863.80	6.00
CI #7	0.51	0.40	0.20	0.00	0.20	10.00	0.00	0.00	10.00	7.00	1.44	0.00	0.00	0.00	0.00	1.44	869.68	869.68	866.19	866.19	7.00
CI #6	0.25	0.40	0.10	0.00	0.10	10.00	0.00	0.00	10.00	7.00	0.71	0.00	0.00	0.00	0.00	0.71	869.68	869.68	866.19	866.19	7.00
STMH #2	N/A	N/A	N/A	N/A	0.30	N/A	0.00	10.18	10.18	6.96	2.13	N/A	N/A	N/A	0.00	2.13	869.47	869.47	866.23	866.23	N/A
STMH #3	N/A	N/A	N/A	N/A	0.30	N/A	0.00	10.74	10.74	6.85	2.10	N/A	N/A	N/A	0.00	2.10	867.26	867.26	863.80	863.80	N/A
STMH #4	N/A	N/A	N/A	N/A	1.22	N/A	0.00	15.08	15.08	5.99	7.34	N/A	N/A	N/A	0.00	7.34	865.31	865.31	863.13	863.13	N/A
CI #12	0.61	0.40	0.24	0.00	2.60	10.00	0.00	15.87	15.87	5.91	15.52	0.00	0.00	0.00	0.00	15.52	863.63	863.63	857.40	857.40	7.00
CI #13	0.10	0.40	0.04	0.00	2.64	5.00	0.00	15.95	15.95	5.91	15.74	0.00	0.00	0.00	0.00	15.74	863.63	863.63	857.13	857.13	8.00
CI #14	0.23	0.40	0.09	0.00	2.74	10.00	0.00	16.01	16.01	5.90	16.27	0.00	0.00	0.00	0.00	16.27	863.80	863.80	856.76	856.76	7.00
FI #5	0.15	0.40	0.06	0.00	2.80	15.00	0.00	16.28	16.28	5.87	16.55	0.00	0.00	0.00	0.00	16.55	852.30	852.30	846.47	846.47	6.00
Outlet	N/A	N/A	N/A	N/A	2.80	N/A	0.00	16.62	16.62	5.84	16.45	N/A	N/A	N/A	0.00	N/A	841.33	841.33	842.80	842.80	N/A

MAX. FLOW
(IN STORM)

100 YEAR STORM

Vierbicher Associates Inc
© Haestad Methods, Inc. 37 Brookside Road Waterbury, CT 06708 USA (203) 755-1666

Universal Soil Loss Equation for Construction Sites

Dane County Land Conservation Department

Developer: Howe

Project: Summer Prairie - Phase 2 - site

Date: 8/3/2004

Version 2.1

Land Disturbing Activity	Begin Date	End Date	Period % R	Annual R Factor	Soil Map Unit	Soil Erodibility K Factor	Slope (%)	Slope Length (feet)	LS Factor	Land Cover C Factor	Soil loss A=%RxRxKxLSxC (tons/acre)	Percent Reduction Required
												(7.5 tons/acre)
bare ground	9/30/2004	5/15/2005	23.4%	150	DnB	0.37	5.4%	280	0.98	1.00	12.7	
seed and mulch	5/15/2005	7/15/2005	38.3%	150	DnB	0.37	5.4%	280	0.98	0.12	2.5	
end	7/15/2005	-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
										TOTAL	15.1	50%

Land Disturbing Activities:

input	definition
bare ground	activity which leaves the ground devoid of vegetation
seed and mulch	application of straw at 1.5 tons/acre with or without seeding
seeding	temporary or permanent seeding without the use of mulching materials
sod	installation of sod
end	end of 60 day cover establishment or permanent stabilization (required input)

Notes:

Silt fence, weepers, and riprap will be used on the site and are shown on the Erosion Control Plan.

Designed By:	djc
Date	6/29/2004
Checked By:	
Date	

Universal Soil Loss Equation for Construction Sites

Dane County Land Conservation Department

Developer: Howe

Project: Summer Prairie - Phase 2 - ponds

Date: 8/3/2004

Version 2.1

Land Disturbing Activity	Begin Date	End Date	Period % R	Annual R Factor	Soil Map Unit	Soil Erodibility K Factor	Slope (%)	Slope Length (feet)	LS Factor	Land Cover C Factor	Soil loss A=%RxRxKxLSxC (tons/acre)	Percent Reduction Required
												(7.5 tons/acre)
bare ground	9/30/2004	5/15/2005	23.4%	150	DnB	0.37	25.0%	16	2.48	1.00	32.2	
seed and mulch	5/15/2005	7/15/2005	38.3%	150	DnB	0.37	25.0%	16	2.48	0.12	6.3	
end	7/15/2005	-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
										TOTAL	38.5	81%

Land Disturbing Activities:

input	definition
bare ground	activity which leaves the ground devoid of vegetation
seed and mulch	application of straw at 1.5 tons/acre with or without seeding
seeding	temporary or permanent seeding without the use of mulching materials
sod	installation of sod
end	end of 60 day cover establishment or permanent stabilization (required input)

Notes:

Calculations for pond area.

Designed By:	djc
Date	6/29/2004
Checked By:	
Date	

80%
TSS

Vierbicher Associates, Inc.
999 Fourier Drive, Suite 201
Madison, WI 53717
(608) 826-0532

JOB Hoose Summer Prairie
SHEET NO. 1 OF 2
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE _____

Overland Flow Calculations

(1) Flow in R.O.W.

- Use Minimum Street Grade 0.67 %
- Use Manning's Equation
- Max 100-Year Flow Q_{100} = (15.74) cfs (At C1 = 13)

$$Q = \frac{1.486}{n} R^{2/3} S^{1/2} A$$

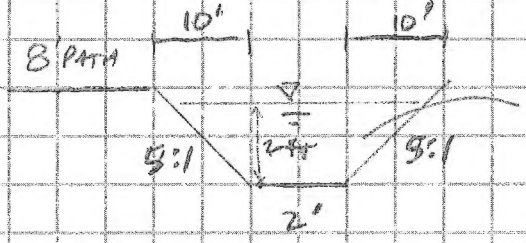
S = 0.0067 ft/ft
n = 0.03 - Concrete / Asphalt / Gravel
A = 16.5 - SF See Typ. Street Section Attached
P_w = 66-ft
R = 16.5/66 = 0.25

$$Q = 1.486/0.03 (0.25)^{2/3} (0.0067)^{1/2} 16.5$$

= 26.5 - CFS > max flow (15.74 - cfs) ✓ OK

(2) Swale between Lots 54 - 55

See Plans (Typ. Section) - Below



A = 24-SF
S = 0.03 ft/ft - Ave
P_w = 22-ft
R = 24/22 = 1.09
n = 0.15

$$Q = \frac{1.486}{0.15} (1.09)^{2/3} (0.03)^{1/2} 24$$

= 43.6 - CFS > Max. Flow (15.74 - cfs)

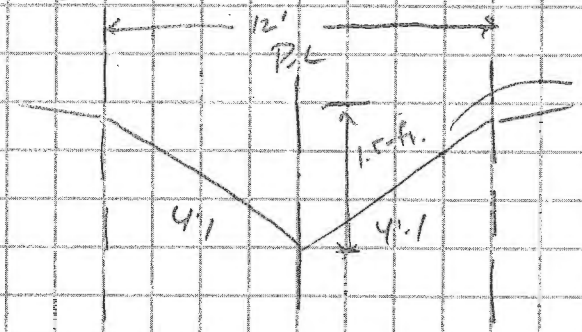
✓ OK

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Madison, WI 53717
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JOB Howe - Summer Prairie
SHEET NO. 2 OF 2
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE _____

(3) SWALE BETWEEN LOTS 34 & 35

1.5-ft. DEEP SWALE w/ 12-ft. EASEMENT

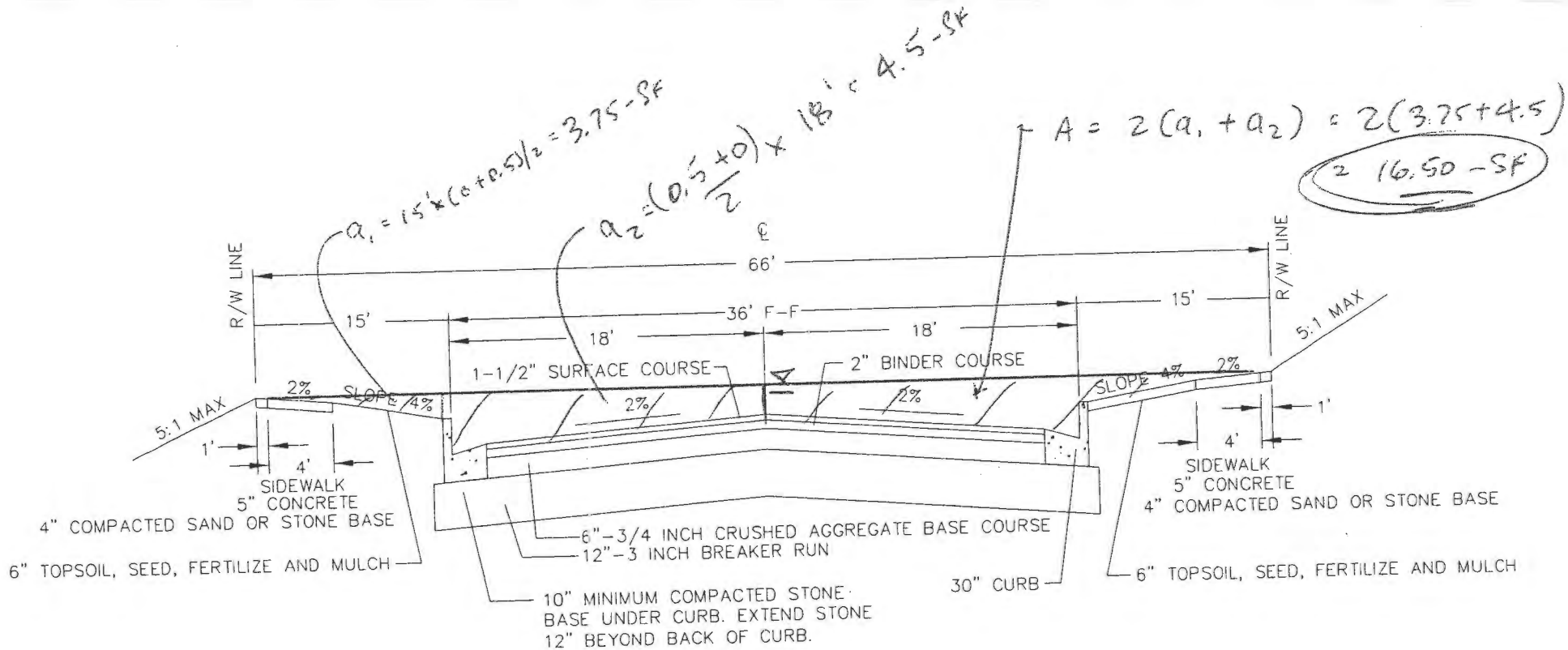


- MAX FLOW (100-YEAR) - SEE STORMCAD STUDY #1
  Q = 9.86-CFS

- n = 0.15
- S = 0.02 ft./ft.
- Pw = 12
- A = 9
- R = 9/12 = 0.75

$$Q = \frac{1.486}{0.15}(0.75)^{2/3}(0.02)^{1/2}\,9$$

= 10.41-CFS > MAX FLOW (9.86 CFS)
✓ OK



TYPICAL CROSS SECTION

NO SCALE

66' RIGHT OF WAY CROSS SECTION

VIERBICHER
ASSOCIATES
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999 Fourier Drive, Suite 201 Madison, Wisconsin 53717
Phone: (608) 826-0532 Fax: (608) 826-0530

Overland Flow Calcs.
BS 8/20/04
Flow in Row.

Summer Prairie

Cambridge, WI

28-Jun-04

Allowable Flows

North Area

$Q_{existing}$ =	4 CFS	
$Q_{proposed}$ =	27 CFS	
$V_{storage}$	1 Ac-Ft	
	43560 CF	
$Q_{allowable}$ =	$V_{storage}$/time	
$Q_{allowable}$ =	43560 CF	
	21600 sec	=> (settling time for 5 micron particle - Appendix III of Dane County EC & Stormwater Management Manual)
$Q_{allowable}$ =	**2.02 CFS**	

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-30-2004 07:37:30
Watershed file: --> L:\DCAV\SUMMER\N-EX .MOP
Hydrograph file: --> L:\DCAV\SUMMER\N-EX1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
north area - existing

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input/used
pre development	26.66	68.0	0.75	0.00	2.40	0.35	I.39 .39

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 26.66 acres or 0.04166 sq.mi
Peak discharge = 4 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	* Tt (hr)	Rounded Values Tc (hr)	* Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
›re development	0.71	0.00	0.75	0.00	Yes	--

* Travel time from subarea outfall to composite watershed outfall point.

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-30-2004 07:37:30
Watershed file: --> L:\DCAV\SUMMER\N-EX .MOP
Hydrograph file: --> L:\DCAV\SUMMER\N-EX1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
north area - existing

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
pre development	4	12.6
Composite Watershed	4	12.6

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-30-2004 07:37:30
Watershed file: --> L:\DCAV\SUMMER\N-EX .MOP
Hydrograph file: --> L:\DCAV\SUMMER\N-EX1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
north area - existing

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
›re development	0	0	0	0	0	0	0	1	2
Total (cfs)	0	0	0	0	0	0	0	1	2

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
›re development	3	4	4	4	3	2	2	2	1
Total (cfs)	3	4	4	4	3	2	2	2	1

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
›re development	1	1	1	1	1	1	1	1	1
Total (cfs)	1	1	1	1	1	1	1	1	1

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
›re development	1	0	0	0	0
Total (cfs)	1	0	0	0	0

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-30-2004 07:37:51
Watershed file: --> L:\DCAV\SUMMER\N-PR .MOP
Hydrograph file: --> L:\DCAV\SUMMER\N-PR1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
north area - proposed

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input/used
developed area	26.66	81.0	0.20	0.00	2.40	0.87	I.2 .20

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 26.66 acres or 0.04166 sq.mi
Peak discharge = 27 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	* Tt (hr)	Rounded Values Tc (hr)	* Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
developed area	0.20	0.00	**	**	Yes	--

* Travel time from subarea outfall to composite watershed outfall point.
** Tc & Tt are available in the hydrograph tables.

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-30-2004 07:37:51
Watershed file: --> L:\DCAV\SUMMER\N-PR .MOP
Hydrograph file: --> L:\DCAV\SUMMER\N-PR1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
north area - proposed

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
developed area	27	12.2
Composite Watershed	27	12.2

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-30-2004 07:37:51
Watershed file: --> L:\DCAV\SUMMER\N-PR .MOP
Hydrograph file: --> L:\DCAV\SUMMER\N-PR1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
north area - proposed

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
Developed area	0	1	1	4	11	23	27	18	10
Total (cfs)	0	1	1	4	11	23	27	18	10

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
Developed area	7	5	4	4	3	3	2	2	2
Total (cfs)	7	5	4	4	3	3	2	2	2

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
Developed area	2	2	1	1	1	1	1	1	1
Total (cfs)	2	2	1	1	1	1	1	1	1

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
Developed area	1	1	1	1	0
Total (cfs)	1	1	1	1	0

Quick TR-55 Version: 5.47 S/N:

>>>>> DETENTION STORAGE ESTIMATE <<<<<

Summer Prairie
Phases 2 and 3
North area

CALCULATED
DISK FILE: l:\dcav\summer\NORTH .DET

Drainage Area	(acres)	26.66	0.0417 sq.mi.
Rainfall Distribution	(Type)	II	

	Storm #1	Storm #2	Storm #3
Frequency (years)	1		
Peak Inflow, qi (cfs)	27		
Inflow Runoff, Q (in)	.87		
Peak Outflow, qo (cfs)	4		
qo/qi Ratio	0.148	0.000	0.000
* Vs/Vr Ratio	0.504	0.000	0.000
Inflow Volume, Vr (ac-ft)	1.9	0.0	0.0
STORAGE VOLUME, Vs (ac-ft)	1.0	0.0	0.0

Summary of Volume Computations

C0	0.682	0.682	0.682
C1	-1.430	-1.430	-1.430
C2	1.640	1.640	1.640
C3	-0.804	-0.804	-0.804
* Vs/Vr	0.504	0.000	0.000

$$* \quad Vs/Vr = C0 + (C1*(qo/qi)) + (C2*(qo/qi)^2) + (C3*(qo/qi)^3)$$

****
*
* Summer Prairie *
* Cambridge, WI *
* Phases 2 and 3 *
* north basin *
*
****

Inflow Hydrograph: l:\dcav\summer\N-PR1 .HYD
Rating Table file: l:\dcav\summer\NORTH .PND

----INITIAL CONDITIONS----
Elevation = 831.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
831.00	0.0	0.000
831.50	1.0	0.640
831.75	1.9	0.960
832.00	4.1	1.270
833.00	11.7	2.690
834.00	21.4	4.220
835.00	50.1	5.850
836.00	61.3	7.580

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
0.0	0.0
154.9	155.9
232.3	234.2
307.3	311.4
651.0	662.7
1021.2	1042.6
1415.7	1465.8
1834.4	1895.7

Time increment (t) = 0.100 hrs.

Pond File: l:\dcav\summer\NORTH .PND
Inflow Hydrograph: l:\dcav\summer\N-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\N-R1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
11.000	0.00	-----	0.0	0.0	0.00	831.00
11.100	0.00	0.0	0.0	0.0	0.00	831.00
11.200	1.00	1.0	1.0	1.0	0.01	831.00
11.300	1.00	2.0	2.9	3.0	0.02	831.01
11.400	1.00	2.0	4.9	4.9	0.03	831.02
11.500	1.00	2.0	6.8	6.9	0.04	831.02
11.600	1.00	2.0	8.7	8.8	0.06	831.03
11.700	2.00	3.0	11.5	11.7	0.07	831.04
11.800	3.00	5.0	16.3	16.5	0.11	831.05
11.900	4.00	7.0	23.0	23.3	0.15	831.07
12.000	11.00	15.0	37.5	38.0	0.24	831.12
12.100	23.00	34.0	70.6	71.5	0.46	831.23
12.200	27.00	50.0	119.1	120.6	0.77	831.39
12.300	18.00	45.0	161.9	164.1	1.09	831.53
12.400	10.00	28.0	187.1	189.9	1.39	831.61
12.500	7.00	17.0	201.0	204.1	1.55	831.65
12.600	5.00	12.0	209.7	213.0	1.66	831.68
12.700	4.00	9.0	215.2	218.7	1.72	831.70
12.800	4.00	8.0	219.7	223.2	1.77	831.71
12.900	4.00	8.0	224.0	227.7	1.82	831.73
13.000	3.00	7.0	227.3	231.0	1.86	831.74
13.100	3.00	6.0	229.5	233.3	1.89	831.75
13.200	3.00	6.0	231.7	235.5	1.94	831.75
13.300	2.00	5.0	232.7	236.7	1.97	831.76
13.400	2.00	4.0	232.8	236.7	1.97	831.76
13.500	2.00	4.0	232.8	236.8	1.97	831.76
13.600	2.00	4.0	232.9	236.8	1.97	831.76
13.700	2.00	4.0	232.9	236.9	1.98	831.76
13.800	2.00	4.0	233.0	236.9	1.98	831.76
13.900	2.00	4.0	233.0	237.0	1.98	831.76
14.000	2.00	4.0	233.1	237.0	1.98	831.76
14.100	2.00	4.0	233.1	237.1	1.98	831.76
14.200	2.00	4.0	233.1	237.1	1.98	831.76
14.300	2.00	4.0	233.2	237.1	1.98	831.76
14.400	2.00	4.0	233.2	237.2	1.98	831.76
14.500	1.00	3.0	232.3	236.2	1.96	831.76
14.600	1.00	2.0	230.5	234.3	1.90	831.75
14.700	1.00	2.0	228.7	232.5	1.88	831.74
14.800	1.00	2.0	227.0	230.7	1.86	831.74
14.900	1.00	2.0	225.3	229.0	1.84	831.73
15.000	1.00	2.0	223.7	227.3	1.82	831.73
15.100	1.00	2.0	222.1	225.7	1.80	831.72
15.200	1.00	2.0	220.5	224.1	1.78	831.72
15.300	1.00	2.0	219.0	222.5	1.77	831.71
15.400	1.00	2.0	217.5	221.0	1.75	831.71

Pond File: l:\dcav\summer\NORTH .PND
Inflow Hydrograph: l:\dcav\summer\N-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\N-R1 .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
15.500	1.00	2.0	216.0	219.5	1.73	831.70
15.600	1.00	2.0	214.6	218.0	1.71	831.70
15.700	1.00	2.0	213.2	216.6	1.70	831.69
15.800	1.00	2.0	211.8	215.2	1.68	831.69
15.900	1.00	2.0	210.5	213.8	1.67	831.68
16.000	1.00	2.0	209.2	212.5	1.65	831.68
16.100	1.00	2.0	207.9	211.2	1.64	831.68
16.200	1.00	2.0	206.7	209.9	1.62	831.67
16.300	1.00	2.0	205.5	208.7	1.61	831.67
16.400	1.00	2.0	204.3	207.5	1.59	831.66
16.500	1.00	2.0	203.1	206.3	1.58	831.66
16.600	1.00	2.0	202.0	205.1	1.57	831.66
16.700	1.00	2.0	200.9	204.0	1.55	831.65
16.800	1.00	2.0	199.8	202.9	1.54	831.65
16.900	1.00	2.0	198.8	201.8	1.53	831.65
17.000	1.00	2.0	197.7	200.8	1.52	831.64
17.100	1.00	2.0	196.7	199.7	1.50	831.64
17.200	1.00	2.0	195.7	198.7	1.49	831.64
17.300	1.00	2.0	194.8	197.7	1.48	831.63
17.400	1.00	2.0	193.8	196.8	1.47	831.63
17.500	1.00	2.0	192.9	195.8	1.46	831.63
17.600	1.00	2.0	192.0	194.9	1.45	831.62
17.700	1.00	2.0	191.1	194.0	1.44	831.62
17.800	1.00	2.0	190.3	193.1	1.43	831.62
17.900	1.00	2.0	189.5	192.3	1.42	831.62
18.000	1.00	2.0	188.6	191.5	1.41	831.61
18.100	1.00	2.0	187.8	190.6	1.40	831.61
18.200	1.00	2.0	187.1	189.8	1.39	831.61
18.300	1.00	2.0	186.3	189.1	1.38	831.61
18.400	1.00	2.0	185.5	188.3	1.37	831.60
18.500	1.00	2.0	184.8	187.5	1.36	831.60
18.600	1.00	2.0	184.1	186.8	1.36	831.60
18.700	1.00	2.0	183.4	186.1	1.35	831.60
18.800	1.00	2.0	182.7	185.4	1.34	831.59
18.900	1.00	2.0	182.1	184.7	1.33	831.59
19.000	1.00	2.0	181.4	184.1	1.32	831.59
19.100	1.00	2.0	180.8	183.4	1.32	831.59
19.200	1.00	2.0	180.2	182.8	1.31	831.59
19.300	1.00	2.0	179.6	182.2	1.30	831.58
19.400	1.00	2.0	179.0	181.6	1.30	831.58
19.500	1.00	2.0	178.4	181.0	1.29	831.58
19.600	1.00	2.0	177.8	180.4	1.28	831.58
19.700	1.00	2.0	177.3	179.8	1.28	831.58
19.800	1.00	2.0	176.8	179.3	1.27	831.57
19.900	1.00	2.0	176.2	178.8	1.26	831.57
20.000	1.00	2.0	175.7	178.2	1.26	831.57

Pond File: l:\dcav\summer\NORTH .PND
Inflow Hydrograph: l:\dcav\summer\N-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\N-R1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
20.100	1.00	2.0	175.2	177.7	1.25	831.57
20.200	1.00	2.0	174.7	177.2	1.25	831.57
20.300	1.00	2.0	174.2	176.7	1.24	831.57
20.400	1.00	2.0	173.8	176.2	1.23	831.56
20.500	1.00	2.0	173.3	175.8	1.23	831.56
20.600	1.00	2.0	172.9	175.3	1.22	831.56
20.700	1.00	2.0	172.4	174.9	1.22	831.56
20.800	1.00	2.0	172.0	174.4	1.21	831.56
20.900	1.00	2.0	171.6	174.0	1.21	831.56
21.000	1.00	2.0	171.2	173.6	1.20	831.56
21.100	1.00	2.0	170.8	173.2	1.20	831.56
21.200	1.00	2.0	170.4	172.8	1.19	831.55
21.300	1.00	2.0	170.0	172.4	1.19	831.55
21.400	1.00	2.0	169.6	172.0	1.19	831.55
21.500	1.00	2.0	169.3	171.6	1.18	831.55
21.600	1.00	2.0	168.9	171.3	1.18	831.55
21.700	1.00	2.0	168.6	170.9	1.17	831.55
21.800	1.00	2.0	168.2	170.6	1.17	831.55
21.900	1.00	2.0	167.9	170.2	1.17	831.55
22.000	1.00	2.0	167.6	169.9	1.16	831.54
22.100	1.00	2.0	167.3	169.6	1.16	831.54
22.200	1.00	2.0	167.0	169.3	1.15	831.54
22.300	1.00	2.0	166.7	169.0	1.15	831.54
22.400	1.00	2.0	166.4	168.7	1.15	831.54
22.500	1.00	2.0	166.1	168.4	1.14	831.54
22.600	1.00	2.0	165.8	168.1	1.14	831.54
22.700	1.00	2.0	165.5	167.8	1.14	831.54
22.800	1.00	2.0	165.3	167.5	1.13	831.54
22.900	1.00	2.0	165.0	167.3	1.13	831.54
23.000	1.00	2.0	164.8	167.0	1.13	831.54
23.100	1.00	2.0	164.5	166.8	1.12	831.53
23.200	1.00	2.0	164.3	166.5	1.12	831.53
23.300	1.00	2.0	164.0	166.3	1.12	831.53
23.400	1.00	2.0	163.8	166.0	1.12	831.53
23.500	1.00	2.0	163.6	165.8	1.11	831.53
23.600	1.00	2.0	163.3	165.6	1.11	831.53
23.700	1.00	2.0	163.1	165.3	1.11	831.53
23.800	1.00	2.0	162.9	165.1	1.11	831.53
23.900	1.00	2.0	162.7	164.9	1.10	831.53
24.000	0.00	1.0	161.5	163.7	1.09	831.52
24.100	0.00	0.0	159.4	161.5	1.06	831.52
24.200	0.00	0.0	157.3	159.4	1.04	831.51
24.300	0.00	0.0	155.3	157.3	1.02	831.50
24.400	0.00	0.0	153.3	155.3	1.00	831.50
24.500	0.00	0.0	151.3	153.3	0.98	831.49
24.600	0.00	0.0	149.4	151.3	0.97	831.49

Pond File: l:\dcav\summer\NORTH .PND
Inflow Hydrograph: l:\dcav\summer\N-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\N-R1 .HYD

INFLOW HYDROGRAPH

TIME (hrs)	INFLOW (cfs)
24.700	0.00
24.800	0.00
24.900	0.00
25.000	0.00
25.100	0.00
25.200	0.00
25.300	0.00
25.400	0.00
25.500	0.00
25.600	0.00
25.700	0.00
25.800	0.00
25.900	0.00

ROUTING COMPUTATIONS

I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	147.5	149.4	0.96	831.48
0.0	145.6	147.5	0.95	831.47
0.0	143.7	145.6	0.93	831.47
0.0	141.9	143.7	0.92	831.46
0.0	140.0	141.9	0.91	831.46
0.0	138.2	140.0	0.90	831.45
0.0	136.5	138.2	0.89	831.44
0.0	134.7	136.5	0.88	831.44
0.0	133.0	134.7	0.86	831.43
0.0	131.3	133.0	0.85	831.43
0.0	129.6	131.3	0.84	831.42
0.0	127.9	129.6	0.83	831.42
0.0	126.3	127.9	0.82	831.41

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: l:\dcav\summer\NORTH .PND
Inflow Hydrograph: l:\dcav\summer\N-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\N-R1 .HYD

Starting Pond W.S. Elevation = 831.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	27.00 cfs
Peak Outflow	=	1.98 cfs
Peak Elevation	=	831.76 ft

***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	0.97 ac-ft
Total Storage in Pond	=	0.97 ac-ft

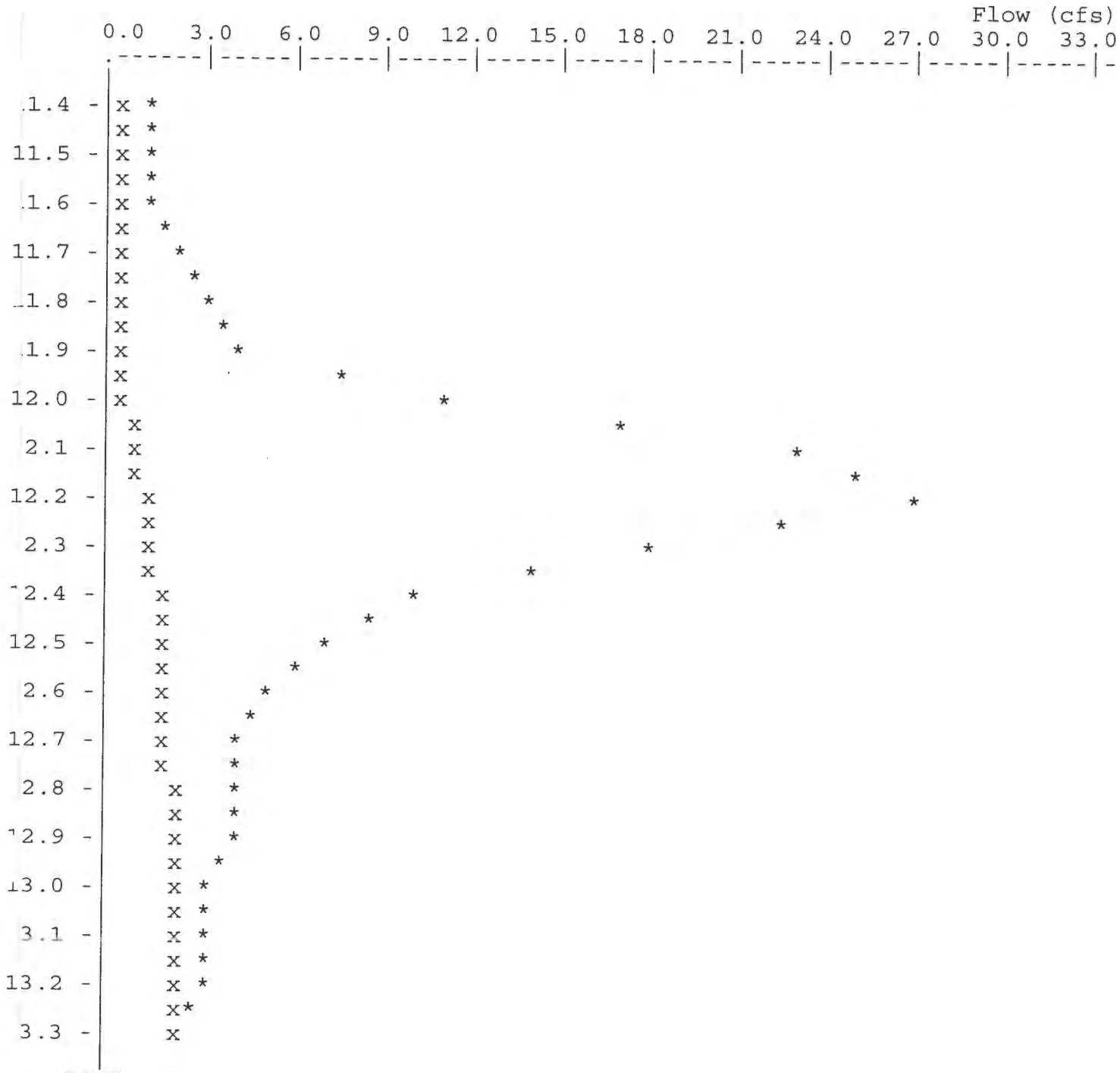
POND-2 Version: 5.21 S/N:

Return Freq: 1 years

Pond File: l:\dcav\summer\NORTH .PND
Inflow Hydrograph: l:\dcav\summer\N-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\N-R1 .HYD

EXECUTED: 06-30-2004
08:36:49

Peak Inflow = 27.00 cfs
Peak Outflow = 1.98 cfs
Peak Elevation = 831.76 ft



* File: l:\dcav\summer\N-PR1 .HYD Qmax = 27.0 cfs
x File: l:\dcav\summer\N-R1 .HYD Qmax = 2.0 cfs

Summer Prairie

Cambridge, WI

28-Jun-04

Allowable Flows

South Area

$Q_{existing}$ =	2 CFS	
$Q_{proposed}$ =	17 CFS	
$V_{storage}$	0.6 Ac-Ft	
	26136 CF	
$Q_{allowable}$ =	$V_{storage}$/time	
$Q_{allowable}$ =	26136 CF	
	21600 sec	=> (settling time for 5 micron particle - Appendix III of Dane County EC & Stormwater Management Manual)
$Q_{allowable}$ =	**1.21 CFS**	

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-28-2004 12:10:01
Watershed file: --> L:\DCAV\SUMMER\S-EX .MOP
Hydrograph file: --> L:\DCAV\SUMMER\S-EX1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
south area - existing

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input/used
existing	16.26	68.0	0.75	0.00	2.40	0.35	I.39 .39

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 16.26 acres or 0.02541 sq.mi
Peak discharge = 2 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	* Tt (hr)	Rounded Values Tc (hr)	* Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
xisting	0.71	0.00	0.75	0.00	Yes	--

* Travel time from subarea outfall to composite watershed outfall point.

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-28-2004 12:10:01
Watershed file: --> L:\DCAV\SUMMER\S-EX .MOP
Hydrograph file: --> L:\DCAV\SUMMER\S-EX1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
south area - existing

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
existing	2	12.5
Composite Watershed	2	12.5

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-28-2004 12:10:01
Watershed file: --> L:\DCAV\SUMMER\S-EX .MOP
Hydrograph file: --> L:\DCAV\SUMMER\S-EX1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
south area - existing

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
existing	0	0	0	0	0	0	0	0	1
Total (cfs)	0	0	0	0	0	0	0	0	1

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
existing	2	2	2	2	2	1	1	1	1
Total (cfs)	2	2	2	2	2	1	1	1	1

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
existing	1	1	1	0	0	0	0	0	0
Total (cfs)	1	1	1	0	0	0	0	0	0

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
existing	0	0	0	0	0
Total (cfs)	0	0	0	0	0

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-28-2004 12:11:33
Watershed file: --> L:\DCAV\SUMMER\S-PR .MOP
Hydrograph file: --> L:\DCAV\SUMMER\S-PR1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
south area - proposed

>>>> Input Parameters Used to Compute Hydrograph <<<<

Subarea Description	AREA (acres)	CN	Tc (hrs)	* Tt (hrs)	Precip. (in)	Runoff (in)	Ia/p input/used
developed	16.26	81.0	0.20	0.00	2.40	0.87	I.2 .20

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 16.26 acres or 0.02541 sq.mi
Peak discharge = 17 cfs

>>>> Computer Modifications of Input Parameters <<<<<

Subarea Description	Input Values Tc (hr)	* Tt (hr)	Rounded Values Tc (hr)	* Tt (hr)	Ia/p Interpolated (Yes/No)	Ia/p Messages
eveloped	0.20	0.00	**	**	Yes	--

* Travel time from subarea outfall to composite watershed outfall point.
** Tc & Tt are available in the hydrograph tables.

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-28-2004 12:11:33
Watershed file: --> L:\DCAV\SUMMER\S-PR .MOP
Hydrograph file: --> L:\DCAV\SUMMER\S-PR1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
south area - proposed

>>>> Summary of Subarea Times to Peak <<<<

Subarea	Peak Discharge at Composite Outfall (cfs)	Time to Peak at Composite Outfall (hrs)
developed	17	12.2
Composite Watershed	17	12.2

Return Frequency: 1 years

TR-55 TABULAR HYDROGRAPH METHOD
Type II. Distribution
(24 hr. Duration Storm)

Executed: 06-28-2004 12:11:33
Watershed file: --> L:\DCAV\SUMMER\S-PR .MOP
Hydrograph file: --> L:\DCAV\SUMMER\S-PR1.HYD

Summer Prairie
Cambridge, WI
Phases 2 and 3
south area - proposed

Composite Hydrograph Summary (cfs)

Subarea Description	11.0 hr	11.3 hr	11.6 hr	11.9 hr	12.0 hr	12.1 hr	12.2 hr	12.3 hr	12.4 hr
Developed	0	0	1	3	6	14	17	11	6
Total (cfs)	0	0	1	3	6	14	17	11	6

Subarea Description	12.5 hr	12.6 hr	12.7 hr	12.8 hr	13.0 hr	13.2 hr	13.4 hr	13.6 hr	13.8 hr
Developed	4	3	3	2	2	2	1	1	1
Total (cfs)	4	3	3	2	2	2	1	1	1

Subarea Description	14.0 hr	14.3 hr	14.6 hr	15.0 hr	15.5 hr	16.0 hr	16.5 hr	17.0 hr	17.5 hr
Developed	1	1	1	1	1	1	1	1	1
Total (cfs)	1	1	1	1	1	1	1	1	1

Subarea Description	18.0 hr	19.0 hr	20.0 hr	22.0 hr	26.0 hr
Developed	0	0	0	0	0
Total (cfs)	0	0	0	0	0

Quick TR-55 Version: 5.47 S/N:

>>>>> DETENTION STORAGE ESTIMATE <<<<<

Summer Prairie
Phases 2 and 3
South Area

CALCULATED
DISK FILE: l:\dcav\summer\SOUTH .DET

Drainage Area	(acres)	16.26	0.0254 sq.mi.
Rainfall Distribution	(Type)	II	

	Storm #1	Storm #2	Storm #3
Frequency (years)	1		
Peak Inflow, qi (cfs)	17		
Inflow Runoff, Q (in)	.87		
Peak Outflow, qo (cfs)	2		
qo/qi Ratio	0.118	0.000	0.000
* Vs/Vr Ratio	0.535	0.000	0.000
Inflow Volume, Vr (ac-ft)	1.2	0.0	0.0
STORAGE VOLUME, Vs (ac-ft)	0.6	0.0	0.0

Summary of Volume Computations

C0	0.682	0.682	0.682
C1	-1.430	-1.430	-1.430
C2	1.640	1.640	1.640
C3	-0.804	-0.804	-0.804
* Vs/Vr	0.535	0.000	0.000

$$* \quad Vs/Vr = C0 + (C1*(qo/qi)) + (C2*(qo/qi)^2) + (C3*(qo/qi)^3)$$

****
*
* Summer Prairie *
* Cambridge, WI *
* Phases 2 and 3 *
* South Basin *
*
****

Inflow Hydrograph: l:\dcav\summer\S-PR1 .HYD
Rating Table file: l:\dcav\summer\SOUTH .PND

----INITIAL CONDITIONS----
Elevation = 831.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
831.00	0.0	0.000
832.00	1.5	0.750

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
0.0	0.0
181.5	183.0

Time increment (t) = 0.100 hrs.

Pond File: l:\dcav\summer\SOUTH .PND
Inflow Hydrograph: l:\dcav\summer\S-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\S-R1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
11.000	0.00	-----	0.0	0.0	0.00	831.00
11.100	0.00	0.0	0.0	0.0	0.00	831.00
11.200	0.00	0.0	0.0	0.0	0.00	831.00
11.300	0.00	0.0	0.0	0.0	0.00	831.00
11.400	0.00	0.0	0.0	0.0	0.00	831.00
11.500	1.00	1.0	1.0	1.0	0.01	831.01
11.600	1.00	2.0	2.9	3.0	0.02	831.02
11.700	2.00	3.0	5.8	5.9	0.05	831.03
11.800	2.00	4.0	9.7	9.8	0.08	831.05
11.900	3.00	5.0	14.4	14.7	0.12	831.08
12.000	6.00	9.0	23.1	23.4	0.19	831.13
12.100	14.00	20.0	42.4	43.1	0.35	831.24
12.200	17.00	31.0	72.2	73.4	0.60	831.40
12.300	11.00	28.0	98.5	100.2	0.82	831.55
12.400	6.00	17.0	113.6	115.5	0.94	831.63
12.500	4.00	10.0	121.6	123.6	1.01	831.68
12.600	3.00	7.0	126.5	128.6	1.05	831.70
12.700	3.00	6.0	130.4	132.5	1.08	831.72
12.800	2.00	5.0	133.2	135.4	1.10	831.74
12.900	2.00	4.0	134.9	137.2	1.12	831.75
13.000	2.00	4.0	136.7	138.9	1.13	831.76
13.100	2.00	4.0	138.4	140.7	1.15	831.77
13.200	2.00	4.0	140.1	142.4	1.16	831.78
13.300	2.00	4.0	141.7	144.1	1.17	831.79
13.400	1.00	3.0	142.4	144.7	1.18	831.79
13.500	1.00	2.0	142.0	144.4	1.18	831.79
13.600	1.00	2.0	141.7	144.0	1.17	831.79
13.700	1.00	2.0	141.3	143.7	1.17	831.79
13.800	1.00	2.0	141.0	143.3	1.17	831.78
13.900	1.00	2.0	140.7	143.0	1.16	831.78
14.000	1.00	2.0	140.3	142.7	1.16	831.78
14.100	1.00	2.0	140.0	142.3	1.16	831.78
14.200	1.00	2.0	139.7	142.0	1.16	831.78
14.300	1.00	2.0	139.4	141.7	1.15	831.77
14.400	1.00	2.0	139.1	141.4	1.15	831.77
14.500	1.00	2.0	138.8	141.1	1.15	831.77
14.600	1.00	2.0	138.5	140.8	1.15	831.77
14.700	1.00	2.0	138.2	140.5	1.14	831.77
14.800	1.00	2.0	137.9	140.2	1.14	831.77
14.900	1.00	2.0	137.7	139.9	1.14	831.76
15.000	1.00	2.0	137.4	139.7	1.14	831.76
15.100	1.00	2.0	137.1	139.4	1.13	831.76
15.200	1.00	2.0	136.9	139.1	1.13	831.76
15.300	1.00	2.0	136.6	138.9	1.13	831.76
15.400	1.00	2.0	136.3	138.6	1.13	831.76

Pond File: l:\dcav\summer\SOUTH .PND
Inflow Hydrograph: l:\dcav\summer\S-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\S-R1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
15.500	1.00	2.0	136.1	138.3	1.13	831.76
15.600	1.00	2.0	135.8	138.1	1.12	831.75
15.700	1.00	2.0	135.6	137.8	1.12	831.75
15.800	1.00	2.0	135.3	137.6	1.12	831.75
15.900	1.00	2.0	135.1	137.3	1.12	831.75
16.000	1.00	2.0	134.9	137.1	1.12	831.75
16.100	1.00	2.0	134.6	136.9	1.11	831.75
16.200	1.00	2.0	134.4	136.6	1.11	831.75
16.300	1.00	2.0	134.2	136.4	1.11	831.75
16.400	1.00	2.0	134.0	136.2	1.11	831.74
16.500	1.00	2.0	133.8	136.0	1.11	831.74
16.600	1.00	2.0	133.6	135.8	1.11	831.74
16.700	1.00	2.0	133.4	135.6	1.10	831.74
16.800	1.00	2.0	133.1	135.4	1.10	831.74
16.900	1.00	2.0	132.9	135.1	1.10	831.74
17.000	1.00	2.0	132.7	134.9	1.10	831.74
17.100	1.00	2.0	132.6	134.7	1.10	831.74
17.200	1.00	2.0	132.4	134.6	1.10	831.74
17.300	1.00	2.0	132.2	134.4	1.09	831.73
17.400	1.00	2.0	132.0	134.2	1.09	831.73
17.500	1.00	2.0	131.8	134.0	1.09	831.73
17.600	1.00	2.0	131.6	133.8	1.09	831.73
17.700	1.00	2.0	131.5	133.6	1.09	831.73
17.800	0.00	1.0	130.3	132.5	1.08	831.72
17.900	0.00	0.0	128.2	130.3	1.06	831.71
18.000	0.00	0.0	126.1	128.2	1.04	831.70
18.100	0.00	0.0	124.0	126.1	1.03	831.69
18.200	0.00	0.0	122.0	124.0	1.01	831.68
18.300	0.00	0.0	120.0	122.0	0.99	831.67
18.400	0.00	0.0	118.1	120.0	0.98	831.66
18.500	0.00	0.0	116.1	118.1	0.96	831.65
18.600	0.00	0.0	114.3	116.1	0.95	831.63
18.700	0.00	0.0	112.4	114.3	0.93	831.62
18.800	0.00	0.0	110.6	112.4	0.92	831.61
18.900	0.00	0.0	108.8	110.6	0.90	831.60
19.000	0.00	0.0	107.0	108.8	0.89	831.59
19.100	0.00	0.0	105.3	107.0	0.87	831.58
19.200	0.00	0.0	103.5	105.3	0.86	831.58
19.300	0.00	0.0	101.9	103.5	0.84	831.57
19.400	0.00	0.0	100.2	101.9	0.83	831.56
19.500	0.00	0.0	98.6	100.2	0.82	831.55
19.600	0.00	0.0	97.0	98.6	0.80	831.54
19.700	0.00	0.0	95.4	97.0	0.79	831.53
19.800	0.00	0.0	93.8	95.4	0.78	831.52
19.900	0.00	0.0	92.3	93.8	0.76	831.51
20.000	0.00	0.0	90.8	92.3	0.75	831.50

Pond File: l:\dcav\summer\SOUTH .PND
Inflow Hydrograph: l:\dcav\summer\S-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\S-R1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
20.100	0.00	0.0	89.3	90.8	0.74	831.50
20.200	0.00	0.0	87.9	89.3	0.73	831.49
20.300	0.00	0.0	86.4	87.9	0.72	831.48
20.400	0.00	0.0	85.0	86.4	0.70	831.47
20.500	0.00	0.0	83.6	85.0	0.69	831.46
20.600	0.00	0.0	82.3	83.6	0.68	831.46
20.700	0.00	0.0	80.9	82.3	0.67	831.45
20.800	0.00	0.0	79.6	80.9	0.66	831.44
20.900	0.00	0.0	78.3	79.6	0.65	831.44
21.000	0.00	0.0	77.0	78.3	0.64	831.43
21.100	0.00	0.0	75.8	77.0	0.63	831.42
21.200	0.00	0.0	74.6	75.8	0.62	831.41
21.300	0.00	0.0	73.3	74.6	0.61	831.41
21.400	0.00	0.0	72.1	73.3	0.60	831.40
21.500	0.00	0.0	71.0	72.1	0.59	831.39
21.600	0.00	0.0	69.8	71.0	0.58	831.39
21.700	0.00	0.0	68.7	69.8	0.57	831.38
21.800	0.00	0.0	67.6	68.7	0.56	831.38
21.900	0.00	0.0	66.5	67.6	0.55	831.37
22.000	0.00	0.0	65.4	66.5	0.54	831.36
22.100	0.00	0.0	64.3	65.4	0.53	831.36
22.200	0.00	0.0	63.3	64.3	0.52	831.35
22.300	0.00	0.0	62.2	63.3	0.52	831.35
22.400	0.00	0.0	61.2	62.2	0.51	831.34
22.500	0.00	0.0	60.2	61.2	0.50	831.33
22.600	0.00	0.0	59.2	60.2	0.49	831.33
22.700	0.00	0.0	58.3	59.2	0.48	831.32
22.800	0.00	0.0	57.3	58.3	0.47	831.32
22.900	0.00	0.0	56.4	57.3	0.47	831.31
23.000	0.00	0.0	55.5	56.4	0.46	831.31
23.100	0.00	0.0	54.6	55.5	0.45	831.30
23.200	0.00	0.0	53.7	54.6	0.44	831.30
23.300	0.00	0.0	52.8	53.7	0.44	831.29
23.400	0.00	0.0	52.0	52.8	0.43	831.29
23.500	0.00	0.0	51.1	52.0	0.42	831.28
23.600	0.00	0.0	50.3	51.1	0.42	831.28
23.700	0.00	0.0	49.5	50.3	0.41	831.27
23.800	0.00	0.0	48.7	49.5	0.40	831.27
23.900	0.00	0.0	47.9	48.7	0.40	831.27
24.000	0.00	0.0	47.1	47.9	0.39	831.26
24.100	0.00	0.0	46.3	47.1	0.38	831.26
24.200	0.00	0.0	45.6	46.3	0.38	831.25
24.300	0.00	0.0	44.8	45.6	0.37	831.25
24.400	0.00	0.0	44.1	44.8	0.36	831.24
24.500	0.00	0.0	43.4	44.1	0.36	831.24
24.600	0.00	0.0	42.7	43.4	0.35	831.24

Pond File: l:\dcav\summer\SOUTH .PND
Inflow Hydrograph: l:\dcav\summer\S-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\S-R1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
24.700	0.00	0.0	42.0	42.7	0.35	831.23
24.800	0.00	0.0	41.3	42.0	0.34	831.23
24.900	0.00	0.0	40.6	41.3	0.34	831.23
25.000	0.00	0.0	39.9	40.6	0.33	831.22
25.100	0.00	0.0	39.3	39.9	0.33	831.22
25.200	0.00	0.0	38.7	39.3	0.32	831.21
25.300	0.00	0.0	38.0	38.7	0.31	831.21
25.400	0.00	0.0	37.4	38.0	0.31	831.21
25.500	0.00	0.0	36.8	37.4	0.30	831.20
25.600	0.00	0.0	36.2	36.8	0.30	831.20
25.700	0.00	0.0	35.6	36.2	0.29	831.20
25.800	0.00	0.0	35.0	35.6	0.29	831.19
25.900	0.00	0.0	34.5	35.0	0.29	831.19

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: l:\dcav\summer\SOUTH .PND
Inflow Hydrograph: l:\dcav\summer\S-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\S-R1 .HYD

Starting Pond W.S. Elevation = 831.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	17.00 cfs
Peak Outflow	=	1.18 cfs
Peak Elevation	=	831.79 ft

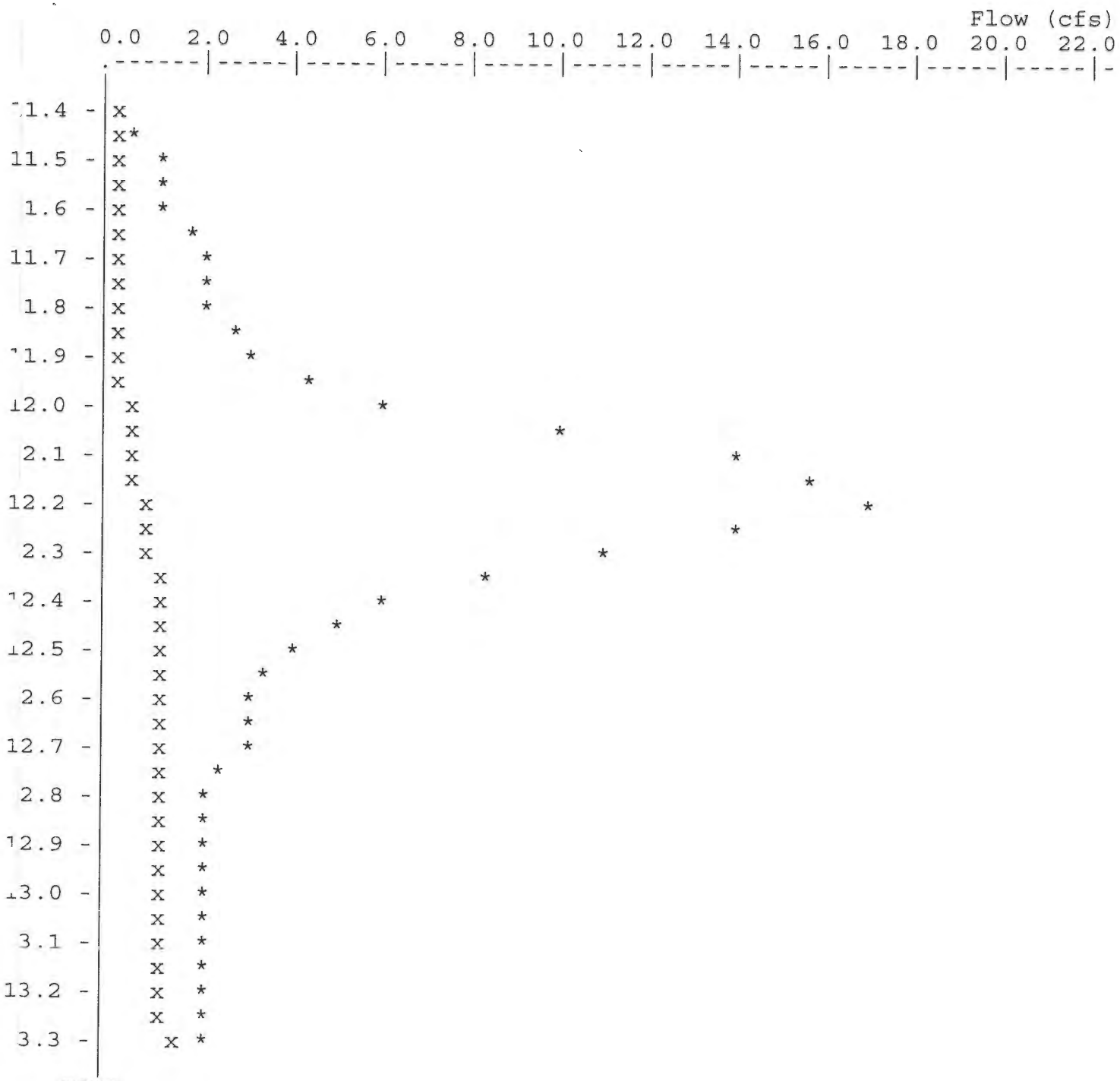
***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	0.59 ac-ft
Total Storage in Pond	=	0.59 ac-ft

Pond File: l:\dcav\summer\SOUTH .PND
Inflow Hydrograph: l:\dcav\summer\S-PR1 .HYD
Outflow Hydrograph: l:\dcav\summer\S-R1 .HYD

EXECUTED: 06-30-2004
08:45:39

Peak Inflow = 17.00 cfs
Peak Outflow = 1.18 cfs
Peak Elevation = 831.79 ft



* File: l:\dcav\summer\S-PR1 .HYD Qmax = 17.0 cfs
x File: l:\dcav\summer\S-R1 .HYD Qmax = 1.2 cfs

Culvert Designer/Analyzer Report
south basin

Analysis Component			
Storm Event	Design	Discharge	1.21 cfs

Peak Discharge Method: User-Specified			
Design Discharge	1.21 cfs	Check Discharge	1.61 cfs

Tailwater Conditions: Constant Tailwater	
Tailwater Elevation	N/A ft

Name	Description	Discharge	HW Elev	Velocity
Culvert-1	1-10 inch Circular	1.21 cfs	831.86 ft	3.62 ft/s
Weir	Not Considered	N/A	N/A	N/A

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Vierbicher Associates Inc
37 Brookside Road Waterbury, CT 06708 USA (203) 755-1666

Culvert Designer/Analyzer Report
south basin

Component:Culvert-1

Culvert Summary			
Computed Headwater Elevation	831.86 ft	Discharge	1.21 cfs
Inlet Control HW Elev	831.74 ft	Tailwater Elevation	N/A ft
Outlet Control HW Elev	831.86 ft	Control Type	Outlet Control
Headwater Depth/ Height	1.03		

Grades			
Upstream Invert	831.00 ft	Downstream Invert	830.95 ft
Length	77.00 ft	Constructed Slope	0.000649 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	0.49 ft
Slope Type	Mild	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	0.49 ft
Velocity Downstream	3.62 ft/s	Critical Slope	0.004233 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.010
Section Material	PVC	Span	0.83 ft
Section Size	10 inch	Rise	0.83 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev	831.86 ft	Upstream Velocity Head	0.09 ft
Ke	0.50	Entrance Loss	0.05 ft

Inlet Control Properties			
Inlet Control HW Elev	831.74 ft	Flow Control	N/A
Inlet Type	Square edge w/headwall	Area Full	0.5 ft²
K	0.00980	HDS 5 Chart	1
M	2.00000	HDS 5 Scale	1
C	0.03980	Equation Form	1
Y	0.67000		

Rating Table Report
south basin

Range Data:

	Minimum	Maximum	Increment
Allowable HW Elev	831.00	832.00	0.50 ft

HW Elev (ft)	Discharge (cfs)
831.00	0.00
831.50	0.48
832.00	1.49

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GRAPHIC SCALE FEET
0 40 80 160

LEGEND

- PROPOSED SANITARTY SEWER
- PROPOSED SANITARTY INTERCEPTOR
- PROPOSED SANITARTY LATERALS
- PROPOSED WATERMAIN
- PROPOSED WATER LATERALS
- PROPOSED STORM SEWER
- DRAINAGE ARROWS
- DRAINAGE SWALE
- PHASE BOUNDARY LINES
- PROPOSED SIDEWALK
- PROPOSED CURB
- PROPOSED CONTOURS

EXISTING CONDITIONS LEGEND

- WETLAND LIMITS
- 75' BUFFER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING CURB
- EXISTING CONTOURS

EROSION CONTROL LEGEND

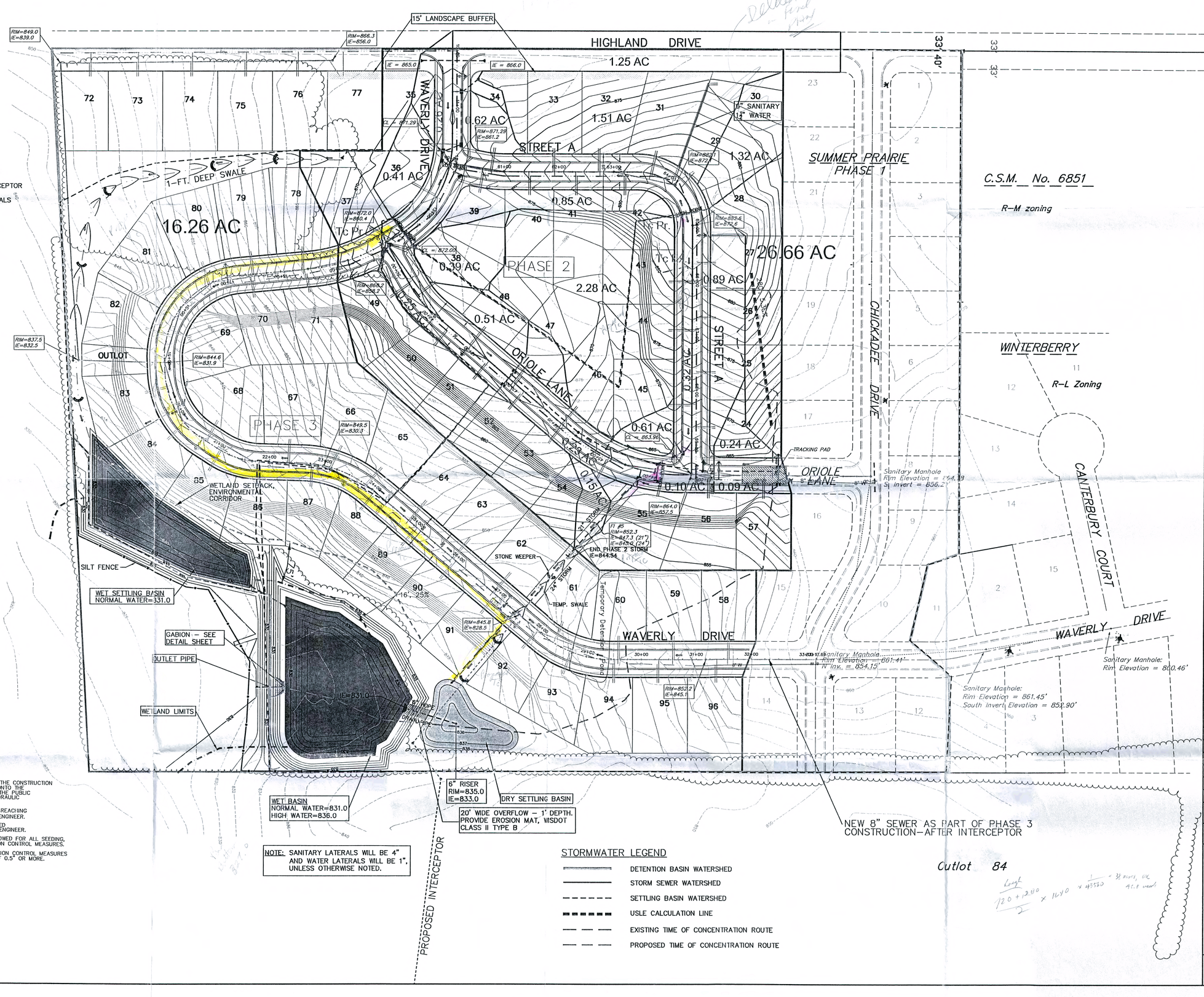
- SILT FENCE
- CONSTRUCTION ENTRANCE
- INLET PROTECTION
- STONE WEEPER
- RIP-RAP
- DRAINAGE ARROW
- 875.0 PROPOSED SPOT GRADE

CONSTRUCTION SEQUENCE

a) Install Silt Fence & Tracking Pad
b) Strip Topsoil
c) Install Detention Basin
d) Rough Grading Roads & Lots
e) Stabilize Disturbed Areas With Seeding, Within 7 Days Of Achieving Finished Grade

EROSION CONTROL NOTES

1. INSTALL A 50'x20'x6" DEEP PAD OF 3" CLEAR STONE AT THE CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
2. SILT FENCE SHALL BE USED TO PREVENT SEDIMENT FROM REACHING ADJACENT STREETS OR PROPERTIES OR AS DIRECTED BY ENGINEER.
3. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING CONSTRUCTION AS DIRECTED BY THE VILLAGE OR ENGINEER.
4. THE VILLAGE AND WISDOT SPECIFICATIONS SHALL BE FOLLOWED FOR ALL SEEDING, MULCHING, TEMPORARY SEED, SOD, OR ANY OTHER EROSION CONTROL MEASURES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING EROSION CONTROL MEASURES AT THE END OF EACH WEEK AND AFTER A RAIN EVENT OF 0.5" OR MORE.



STORMWATER LEGEND

- DETENTION BASIN WATERSHED
- STORM SEWER WATERSHED
- SETTLING BASIN WATERSHED
- USLE CALCULATION LINE
- EXISTING TIME OF CONCENTRATION ROUTE
- PROPOSED TIME OF CONCENTRATION ROUTE

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Stormwater Plan

Summer Prairie Subdivision
Phase 2
Cambridge, Wisconsin

REVISIONS

NO.	DATE	REMARKS

CAD FILE/ FIELD BOOK: Grading Plan.dwg
JOB NO. 33044617
DRAFTER: DJC/CAB
SCALE: 1"=80'
CHECKED:
DATE: 6-29-04
SHEET: 1 OF 1
DWG. NO.

30 Jun 2004 - 9:35a V:\LDD2\HOWE-Summer Prairie Phase 2\dwg\Grading Plan.dwg by: dcav

Village of Cambridge Environmental Assessment Checklist

Preliminary Plat – Arnett's Addition to Summer Prairie

Project: Arnett's Addition to Summer Prairie (Preliminary Plat)
Owner: HIGHLAND PRAIRIE LLC
Applicant: Andrew (AJ) Arnett
Location: Waverly Drive, Cambridge, Wisconsin
Parcel Number: 111/0612-123-4780-1

Question	Yes	No
Land Resources		
A. Changes in relief and drainage patterns	✓	
B. Floodplain		✓
C. Soil instability		✓
D. Prime agricultural land		✓
E. Wetlands/environmental corridors	✓	
Water Resources		
A. Navigable stream or dry run		✓
B. Lake frontage		✓
Human and Scientific Interest		
A. Archaeological/geological interest		✓
B. Historical interest		✓
C. Unique architecture		✓
Energy, Transportation & Communications		
A. Future official map street		✓
B. Existing/planned utility corridor	✓	

Explanation of 'Yes' Responses

Changes in Relief and Drainage Patterns
Preliminary grading is proposed as part of the subdivision. A preliminary grading and drainage plan and conceptual stormwater management plan are included. The subdivision will utilize the existing regional stormwater management facilities that were previously constructed and specifically designed to serve this phase of the Summer Prairie development, as well as the two previously constructed phases that have already been completed.

Wetlands and Environmental Corridors
A wetland delineation was completed in 2026 and is included with this application. The Wisconsin Department of Natural Resources Artificial Wetland Exemption Determination for the existing stormwater ponds and Wetlands W-2, W-3, and W-4 is also included. The subdivision has been designed to avoid identified wetlands and environmental resources while preserving approximately 8.5 acres of permanent open space dedicated to environmental preservation, a public multi-use trail system, and integrated stormwater management facilities.

Existing or Planned Utility Corridors
Existing public infrastructure already serves the property, including public water, sanitary sewer, and regional stormwater facilities. Public water will be provided through extensions of the existing water main system. Sanitary sewer service will utilize an E/One low-pressure grinder pump system connected to the existing 4-inch force main previously stubbed into the property.

Outlook

Arnett's Addition Consideration Before Tonight's Village Board Meeting

From Andrew Arnett [redacted]

Date Tue 9/22/2026 12:12 PM

To Paula hollenbeck <phollenbeck@cambridgewi.gov>; Jennifer Trendel <JTrendel@cambridgewi.gov>; Sharon Jacobson <SJacobson@cambridgewi.gov>; Betsy Busch <BBusch@cambridgewi.gov>; Greg Jankowski <GJankowski@cambridgewi.gov>; Mitch Sands <msands@cambridgewi.gov>; Kristin Blackwood <kblackwood@cambridgewi.gov>

Cc Aiden Arnett [redacted]; Kris Breunig <KrisBreunig@cambridgewi.gov>; Brian Wilson <BWilson@cambridgewi.gov>; Stephen Tremlett <stremlett@msa-ps.com>

Village Board Members,

Ahead of tonight's meeting, I wanted to provide some additional context regarding Arnett's Addition to Summer Prairie, particularly the Plan Commission recommendation that Lots 25–43 be revised to meet RL dimensional standards.

I understand the concerns raised regarding neighborhood character, open space, and the configuration of the lots around the curve. I am asking the Board to consider the development as a whole rather than looking only at individual lot sizes.

My proposal is not to make the entire development RM. It is intentionally a mixture of RL and RM lots. I believe that mixture creates a reasonable transition, provides different housing choices, and creates an attractive, livable residential neighborhood with substantial public open space.

Requiring these lots to conform to RL dimensions would eliminate two otherwise buildable single-family lots. I believe there are several reasons those two housing opportunities should be preserved:

• This is the end of the Village's growth area in this direction. This side of the development is surrounded by county parkland, so there is no opportunity for future outward residential expansion. That makes it especially important to make reasonable and efficient use of the developable land that remains.

• The smaller lots provide another housing choice. I am proposing homes of approximately 1,300 square feet, providing an opportunity for a smaller home rather than requiring every new home to follow the same lot and home-size pattern as the adjoining neighborhood.

• The infrastructure is essentially the same whether there are 12 homes or 14. The streets, water, sewer, utilities and other improvements still have to be constructed. Preserving the two lots allows that infrastructure to serve additional homes without extending the development farther outward.

• Those additional homes also add to the Village's tax base. Eliminating two buildable homes permanently eliminates the additional assessed value and property-tax base those homes would create. Preserving the lots allows the Village to make more productive use of infrastructure that is

already being constructed while adding two additional homes to the community's tax base.

• The development provides substantial public open space. Outlot 1 contains approximately 8.5 acres dedicated to the public. The survey identifies approximately 65,200 square feet of pond and 86,500 square feet of wetlands, leaving approximately five acres outside those identified areas.

• Using the Village's parkland dedication calculation of 0.032 acre per dwelling unit, even if the development is calculated at 61 potential dwelling units, including up to 12 units on the multifamily lot, the numerical dedication requirement is approximately 1.95 acres. The approximately five acres outside the identified pond and wetland areas is well above that numerical acreage requirement, subject to the Village determining which portions qualify under the ordinance.

I recognize that the adjoining development generally has larger lots and larger homes. However, it does not provide comparable dedicated public open space. My proposal takes a different approach by allowing a mixture of lot and home sizes while dedicating approximately 8.5 acres to the public and providing a multi-use trail connection. That trail will benefit not only the new development but also provide the existing neighborhood with access through the development to the adjoining county park and trail system.

When considering neighborhood character, I believe the Board should look at the entire development not simply individual lot size. Smaller lots in a portion of the development are balanced by substantial publicly dedicated open space, trail connectivity, additional housing choices, and more efficient use of the remaining developable land.

I am not asking the Village to sacrifice open space in exchange for smaller lots. I am proposing to use the developable land efficiently while providing substantial public open space, a multi-use trail connection, and improved access to the county park for both the existing neighborhood and the new development.

There was also concern about the two pie-shaped lots around the curve and the side view of the homes. I have demonstrated that my proposed homes fit on these lots. If the concern is architectural appearance rather than buildability, I am willing to address that through enhanced side elevations, windows, architectural details and landscaping rather than eliminating two homes.

I also think the overall neighborhood context is important. The surrounding area already contains a variety of housing types, including duplexes and four-unit buildings on the route into this neighborhood. A mixture of RL and RM within this development provides a transition between housing types rather than making the entire development one density.

I would also ask the Board to reconsider Condition 9 regarding the sidewalk along Highland Drive. I understand and accept responsibility for sidewalk improvements associated with and fronting my development. However, Condition 9 goes further and requires me to bear the cost of constructing sidewalk within the public right-of-way fronting 401 Highland Drive (Lot 34 of Summer Prairie First Addition), an existing separately owned parcel that is not part of my development.

That property is an existing corner lot where sidewalk was previously constructed along one frontage but not continued around the Highland Drive frontage. I do not believe the cost of completing a sidewalk improvement fronting an existing property should now be shifted to an adjacent developer

simply because I am developing nearby property. If the Village determines that sidewalk is required along the Highland Drive frontage of 401 Highland Drive, I respectfully ask that it use the procedures available to the Village for requiring or assessing the improvement to the property that actually abuts that sidewalk, rather than making it a condition and expense of Arnett's Addition.

I am willing to construct the sidewalk along the frontage associated with my development and coordinate it so there is a continuous pedestrian connection. I am simply asking that responsibility for the portion fronting an existing separately owned parcel remain with the appropriate property rather than being transferred to my development.

My goal is to provide additional housing choices, make responsible use of land where future outward growth is no longer possible, efficiently utilize the infrastructure being constructed, increase the Village's tax base, and create an attractive, livable neighborhood with substantial public open space.

I respectfully ask the Board to reconsider the requirement that all of the affected lots meet RL dimensional standards and allow the proposed mixture of RL and RM lots so these two buildable housing opportunities can be preserved. I also ask the Board to reconsider the portion of Condition 9 requiring Arnett's Addition to pay for sidewalk construction fronting the separately owned property at 401 Highland Drive.

Thank you for taking the time to consider this before tonight's meeting. I look forward to discussing it with you.

Andrew (AJ) Arnett

RESOLUTION 2026-15

APPROVING A PRELIMINARY PLAT FOR
ARNETT'S ADDITION TO SUMMER PRAIRIE

WHEREAS, Highland Prairie LLC, through Andrew Arnett, has submitted a Preliminary Plat for Arnett's Addition to Summer Prairie for the approximately 22.9-acre property identified as Parcel No. 111/0612-123-4780-1 along Waverly Drive in the Village of Cambridge; and

WHEREAS, the proposed Preliminary Plat includes 50 residential lots, one 8.5-acre outlot, new street right-of-way, easements, and associated improvements; and

WHEREAS, the Village of Cambridge Plan Commission reviewed the proposed Preliminary Plat and recommended approval to the Village Board subject to the following conditions:

1. Full engineering review of grading, streets, utilities to be considered with Final Plat submittal. The applicant shall address all comments and requirements identified by the Village Engineer and obtain written approval of revised preliminary engineering before submitting the Final Plat.
2. Full engineering review will be required for the E/One sanitary sewer system as part of the Final Plat:
    a) Design of the E/One system includes acceptable resident times; however, resident times are expected to be higher until full buildout occurs. Until full buildout of Arnett's Additon to Summer Prairie, resident times in the force main may exceed 6 hours which may result in odors within the Village sanitary sewer at the connecting manholes. Any required maintenance for flushing by the Village of Cambridge staff to address odors shall be the financial responsibility of the developer or HOA and shall be addressed in the developer's agreement for recoverable financial obligations.
    b) The Village will require the connecting manholes to be lined for prevention of H2S corrosion.
    c) E/One easement and flushing connections to be evaluated by Village Engineer.
3. The stormwater management plan was previously approved by the Village as part of the original phases of development. The existing ponds are not expected to require redesign; however, prior to Final Plat and final engineering approval, the developer or developer's engineer shall provide the following to the Village Engineer:
    a) As-built certification and maintenance/repair of the existing facilities.
    b) Under current proposed conditions (full build-out), confirmation that the existing stormwater ponds satisfy the density requirements for rate control and water quality for the proposed Plat.
    c) Engineering plans to demonstrate safe passage of 200-year storm through the site; however, managing the 200-year storm is not required per conversations with Dane County.
4. The revised plat shall identify the intended zoning district for every lot and correct any dimensional nonconformities.

5. Final Plat approval is contingent upon adoption of the necessary rezoning from R-L Low Density Residential to R-M Medium Density Residential and R-H High Density Residential for the applicable lots. Lots not included in the rezoning shall comply with the R-L district.
6. Park impact fees and parkland dedication or fee-in-lieu requirements shall be satisfied, with the final obligation based on projected dwelling units, including either approved plans for Lot 44 or based on maximum lots allowed by zoning designation.
7. Any multifamily development on Lot 44 shall require separate zoning and site plan review. Preliminary Plat approval does not approve a dwelling-unit count, building layout, parking plan, or access configuration for that lot.
8. The area currently occupied by Lots 25-43 shall be revised to meet the dimensional standards of the R-L Low Density Residential District.
9. Sidewalk shall be constructed along the east side of Highland Drive from Waverly Drive to the southern boundary of Lot 44. The Development Agreement shall require the developer to bear the cost of and construct the sidewalk, including the portion of public right-of-way fronting 401 Highland Drive (Lot 34 from Summer Prairie First Addition).

NOW THEREFORE BE IT RESOLVED, that the Village Board of the Village of Cambridge approves the proposed Preliminary Plat for Arnett's Addition to Summer Prairie, subject to the conditions recommended by the Plan Commission and stated above.

This Ordinance shall take effect the day after passage and publication as provided by law.

Adopted by the Village Board of the Village of Cambridge, Wisconsin, this 22nd day of September, 2026, on a roll call vote: _____ Ayes _____ Nays

VILLAGE OF CAMBRIDGE

ATTEST

_____

Paula Hollenbeck, Board President

_____

Kris Breunig, Administrator

ORDINANCE 2026-11

AN ORDINANCE TO AMEND CHAPTER 17 OF THE CAMBRIDGE MUNICIPAL CODE UNDER MIXED USE BUSINESS DISTRICT

WHEREAS, pursuant to the requirements of Wisconsin Statutes § 62.23, and applicable local ordinances, a public hearing was required prior to the adoption of this ordinance;

WHEREAS, notice of said public hearing was published as a Class 2 notice under Chapter 985 of the Wisconsin Statutes, with the first publication occurring at least two weeks prior to the hearing date, and the final publication occurring at least seven days prior to the hearing;

WHEREAS, the Village Plan Commission held a duly noticed public hearing on September 14th, 2026, at Village Hall, to consider the proposed ordinance and receive public comment;

WHEREAS, the Village Board of the Village of Cambridge, Dane and Jefferson Counties, Wisconsin, do ordain as follows:

- Remove Commercial Condos as a conditional use from the Mixed Use Business zoning district.

This Ordinance shall take effect the day after passage and publication as provided by law.

Adopted by the Village Board of the Village of Cambridge, Wisconsin, this 22nd day of September, 2026, on a roll call vote: _____ Ayes _____ Nays

VILLAGE OF CAMBRIDGE

ATTEST

_____

Paula Hollenbeck, Board President

_____

Kris Breunig, Administrator

MSA Memo

To:	Village of Cambridge Plan Commission
From:	Steve Tremlett, AICP, Zoning Administrator
Subject:	230 Bilstad Road Development Final Plat Staff Report
Date:	September 9th, 2026

Overview of Request

Michael Coughlin has submitted the Palmer Meadows Final Plat for the property at 230 Bilstad Road (Parcel No. 111/0612-124-0010-2). The Final Plat creates eight residential lots (Lots 1-8) and one stormwater outlot (Outlot 1). Lot 1 contains the existing residence, while Lots 2-8 would create new half-acre single-family residential building sites. Outlot 1 is reserved for stormwater and drainage purposes.

Alongside the Final Plat application, the previously reviewed rezoning application has be re-requested with changes reflecting the updated development layout. **A public hearing was held at the August Plan Commission meeting. The rezone is on tonight's agenda as a separate item.**

Background of the Request

In June 2026, the Village reviewed and conditionally approved a Preliminary Plat for the development. That proposal included the existing parent lot, six new residential lots, and an outlot. Preliminary approval was conditioned on:

1. addressing MSA Engineering comments, including modify alignment of reserved right-of-way outside of the wetland and wetland setback, if feasible.
2. paying applicable park impact and fee-in-lieu-of-land fees
3. completing the necessary rezoning for the new residential lots and the outlot.

A public hearing was held at the August Plan Commission meeting with no public comments received. Action on the rezone was postponed until the Final Plat is submitted and reviewed for concurrent consideration. As a result of the addition of another residential lot and shifting lot lines required revisions to the original rezoning approval.

Final Plat Conformance with Preliminary Plat

The Final Plat generally maintains the development pattern reviewed with the Preliminary Plat, including single-family lots along Bilstad Road, outlot for stormwater management behind the new single-family lots, and easements for private E/One System back to existing sanitary manhole. The principal changes are the addition of one residential lot and the shifting of some lot lines and sizes. The Preliminary Plat contained six new residential lots, while the Final Plat contains seven new lots. The revised lots are as follows:

- Lot 1: 13.462 acres, containing the existing residence.
- Lots 2-8: seven new residential lots ranging from approximately 0.500 to 0.611 acres.
- Outlot 1: approximately 0.698 acres with stormwater management BMPs.

The overall land use, access pattern, stormwater concept, and general subdivision layout remain substantially the same. Staff considers the revision consistent with the overall concept approved at the Preliminary Plat stage.

Submitted Plans



Final Plat (exerprt0, and recent aerial view of site

Ordinance Requirements

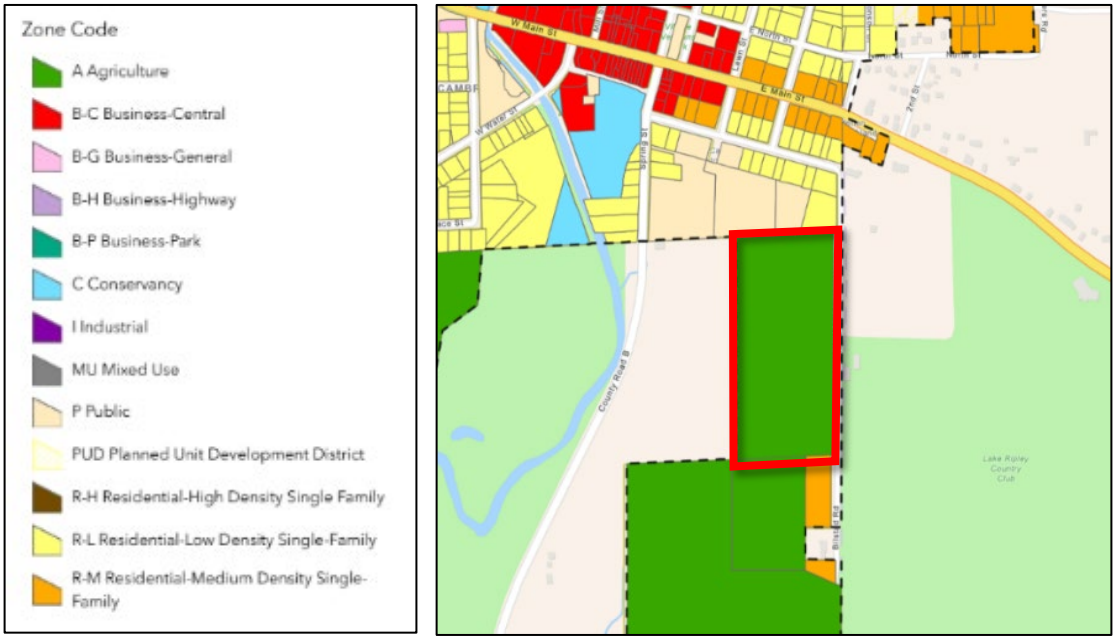
Applicable Zoning & Development Code Regulations

- Title 16, Subdivision.
- Title 17, Zoning

Zoning

The residential lots are intended to be rezoned from A Agriculture to R-L Low Density Residential, while Outlot 1 is intended to be zoned C Conservancy. This zoning arrangement is consistent with the residential and stormwater functions shown on the Final Plat.

The rezoning and Final Plat are separate actions. Further review of the rezoning is provided in the rezoning staff report. Final Plat approval should remain contingent upon adoption of the zoning map amendment, and the plat should not be recorded until the zoning has been issued.



Zoning Map with Legend

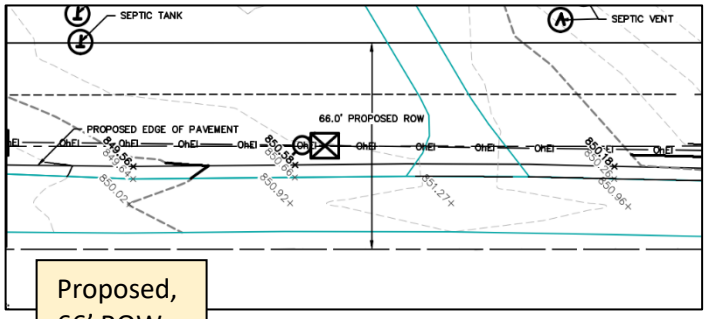
Land Use and Lots

Surrounding uses include farmland to the west, single family housing to the north, attached housing to the south, and the golf course to the east. Directly across from the proposed lots on Bilstad, there is a storage structure owned and operated by the Country Club. These surrounding uses are generally considered compatible with low-density residential development and do not raise concern.

Access and Road

A primary issue during Preliminary Plat review was the condition and width of Bilstad Road. The applicant has agreed to widen Bilstad Road by four feet in front of his existing home lot through the planned development. The final plat will dedicate land to establish a typical 66-foot right-of-way along Bilstad Road.

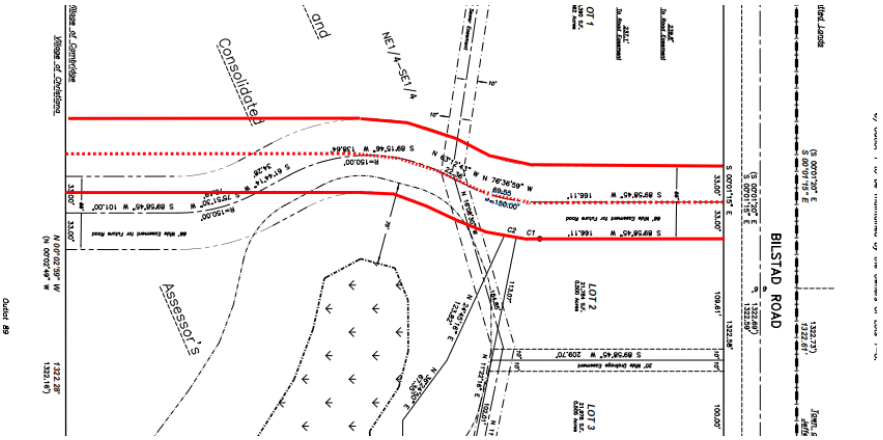




Proposed, 66' ROW:

The Preliminary Plat review also reserved land for a future roadway connection toward County Highway B. The alignment, originally shown as straight, was subsequently curved to avoid impacts to nearby wetlands. The Final Plat currently identifies this corridor as a 66-foot-wide easement for a future road. Based on prior discussions with the applicant and the Village, the intent is for this area to remain reserved for a future public roadway with future dedicdation should the land to the west (along Spring Street) develop. This would provide better connectivity in this area, as well as reduce the length of the dead-end Bilstad Road. The Development Agreement and plat should be revised as necessary to clearly reflect that intent and the conditions under which future dedication would occur. Additionally, it should be verified if future road area is properly set back from existing septic systems.

There is concern with the "C"-shaped future roadway alignment as it could create potential visibility or sight-distance issues. The recommendation is to have the road curve to be outside of the wetland setback, but should not curve back north and instead extend west directly after the initial bend. This is demonstrated below. Plan Commission is invited to discuss and provide input on a possible condition of approval that would require this change.



Stormwater Management

Quam Engineering submitted a revised Erosion Control and Stormwater Management Report dated July 29, 2026. The report evaluates the development, road widening, and future potential road construction. Three bio-retention

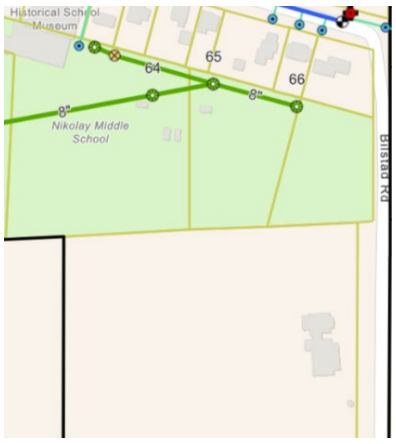
basins serving the development are proposed to allow the planned development. There are three additional bio-retention basins expected associated with the future roadway – not approved in this review as it will be dependent on future engineering should a road be needed to serve future development to the west. Approximately 25% impervious area is expected for each of the new residential lots.' The three basins are a revision from the initial plans, where one large basin was planned. The report concludes pre-development peak runoff rates for the 1, 2, 10, 100, and 200 year, 24-hour storm event are maintained.

- We have correspondence from the County that stormwater management improvements will serve the current development. Future review will be necessary with the future roadway if constructed. We have not received an official letter approving the stormwater management plan (SWMP) from the County. This should be a condition of approval.
- Dane County erosion control and stormwater management permits are required, alongside a Wisconsin DNR Notice of Intent. These approvals should be a condition of final plat approval.

During the Preliminary Plat process questions were raised about whether stormwater basins will remain private or be dedicated to the public. The basins will remain private. The SWMP includes a draft long-term maintenance agreement for the stormwater facilities. Under that agreement, the property owner/future owners would be responsible for maintaining the stormwater system. The agreement establishes ongoing inspection and maintenance requirements for storm sewers, grassed swales, and bio-retention basins. It is intended to run with the land. It also gives Dane County the ability to perform required maintenance and recover its costs if the responsible property owners fail to maintain the facilities.

- Before recording, the maintenance agreement should be finalized so that responsibility for Outlot 1 is clearly assigned to the affected property owners and remains enforceable after the lots are sold. Also, future development of the lots should remain consistent with the approved stormwater assumptions.
- Because the Outlot is currently only accessible via the roadway that has not yet been dedicated, engineering has also requested access easement should be provided from Bilstad Road to the private stormwater facilities to ensure long-term access for inspection and maintenance.

Utilities



The applicant's engineer submitted revised construction plans and written responses to the Village's previous engineering comments. The applicant's response letter documents resolves some of the engineering comments. Acceptance of the engineering plans will require additional review. The primary focus of review of the engineering plans for the plat approval is if there are any issues with the planned lot and outlot layout to allow for necessary grading, utilities and stormwater management. MSA has confirmed that the lot configuration will allow for the necessary improvements.

The sanitary system serving Lots 2-8 will consist of individual E-One grinder pumps connected to a shared private two-inch force force main, which will connect to an existing manhole in the school property. Easements will be necessary to allow the forcemain into the School property and for a portion presently crossing into the landowner to the east of the school property. Final Plat approval should remain conditioned upon resolution of all outstanding engineering comments and written approval of the final plans by MSA. Engineering has requested the plans show all necessary sanitary easements for the full length of the private

force main, including the portion crossing private property north of the plat, and clearly identify responsibility for ownership, maintenance, and access.

Homeowners Association

Although the Preliminary Plat indicated that no HOA would be established, the applicant has since indicated that an HOA will be created. The HOA is intended to share responsibility for the private sanitary force main and other common infrastructure associated with the development. The HOA agreement shall be submitted to the Village and accepted by the Village Attorney prior to signing the plat.

Parkland Dedication

The Preliminary Plat calculation was based on six new dwelling units. Because the Final Plat now creates seven new residential lots, the fee obligation should also be based on seven new dwelling units. Using the amount identified during Preliminary Plat review, this would equal $10,668, subject to any applicable adjustment under the current fee schedule. Fees remain due on a per-lot basis as provided by the Village's ordinance. These fees should be paid prior to signing the plat.

Potential Action

If the Plan Commission recommends to the Village Board approval of the Palmer Meadows Final Plat, we recommend the following conditions:

1. Prior to the Village signing the Final Plat, the following shall be completed:
    a. Easements within the plat shall be verified by Village Engineer and proof of approved easements required outside of the plat shall be provided.
    b. Lots 1-8 shall be rezoned to R-L Low Density Residential and Outlot 1 rezoned to C Conservancy.
    c. Acceptance letter from Dane County on the SWMP is provided to the Village.
    d. Pay the applicable park impact fee and parkland fee-in-lieu-of-land for each of the seven new residential lots at the rate in effect when payment is due, consistent with the conditions of Preliminary Plat approval.
    e. Provide the Village with the proposed HOA documents. The documents shall be reviewed and approved in a form acceptable to Village staff and the Village Attorney.
    f. Review and approval by DOA with acceptance letter provided to the Village.
2. The Final Plat and Development Agreement shall clearly identify the 66-foot-wide road reservation for a future public roadway connection to County Highway B. The documents shall provide for dedication of the corridor to the Village if and when future westward development requires construction of the roadway, in a form acceptable to Village. The plat shall be revised as necessary so the corridor is identified consistently with this intended reservation and future dedication.
3. The long-term stormwater maintenance agreement shall be accepted by the Village prior to building permit issuance.
4. The applicant shall address all remaining Village Engineering comments and obtain written approval of the final construction plans from MSA Engineering prior to a building permit issuance. Final construction plans shall be signed and stamped as required.
5. The applicant shall obtain all required Dane County erosion control and stormwater approvals and WDNR approvals prior to building permit issuance. Construction of the future roadway and associated additional

stormwater facilities shall be subject to separate Dane County stormwater review and approval prior to construction.

Palmer Meadows

Outlot 90 of Revised and Consolidated Assessor's Plat of Cambridge, Located in the Northeast 1/4 of the Southeast 1/4 of Section 12, T6N, R12E, Village of Cambridge, Dane County, Wisconsin.

0 60 120

Scale: 1"= 60'

There are no objections to this plat with respect to Secs. 236.15, 236.16, 236.20 and 236.21(1) and (2), Wis. Stats. as provided by s. 236.12, Wis. Stats.

Certified _____, 20____

Department of Administration

Notes

1) This survey is subject to any and all agreements and easements of record and those that may have not been recorded.

2) Before any digging, boring, construction, etc., is done on or near the lands in this subdivision, Diggers Hotline shall be called at 1-800-242-8511 for the safety and liability purposes for all involved.

3) Wetlands delineation per report prepared by Heartland Ecological Group INC., Project Number: 20251714, dated June 10, 2026.

4) Lots 2-8 to be served by its own grinder pump system. These lots will convey the proposed waste water via shared 2-inch force main to the public manhole.

5) All underground utilities to be served via public utilites in Bilstad Road Right-of-way.

6) Outlot 1 to be maintained by the owners of Lots 1-8.

Surveyor's Certificate:

I, Chris K. Casson, Professional Land Surveyor S-3264, do hereby certify that in full compliance with the provisions of Chapter 236 of the Wisconsin Statutes and the Village of Cambridge Code of Ordinances, and under the direction of the owners listed hereon, I have surveyed, divided and mapped Palmer Meadows and that such plat correctly represents all exterior boundaries and the subdivision of the land surveyed and is a parcel of land as described below:

Outlot 90 of Revised and Consolidated Assessor's Plat of Cambridge, Located in the Northeast 1/4 of the Southeast 1/4 of Section 12, T6N, R12E, Village of Cambridge, Dane County, Wisconsin.

_____
Chris K. Casson, PLS No. 3264

Dane County Register of Deeds Certificate:

Received for recording this _____ day of _____,

2026, at _____ O'clock, __M. and recorded in Vol. _____

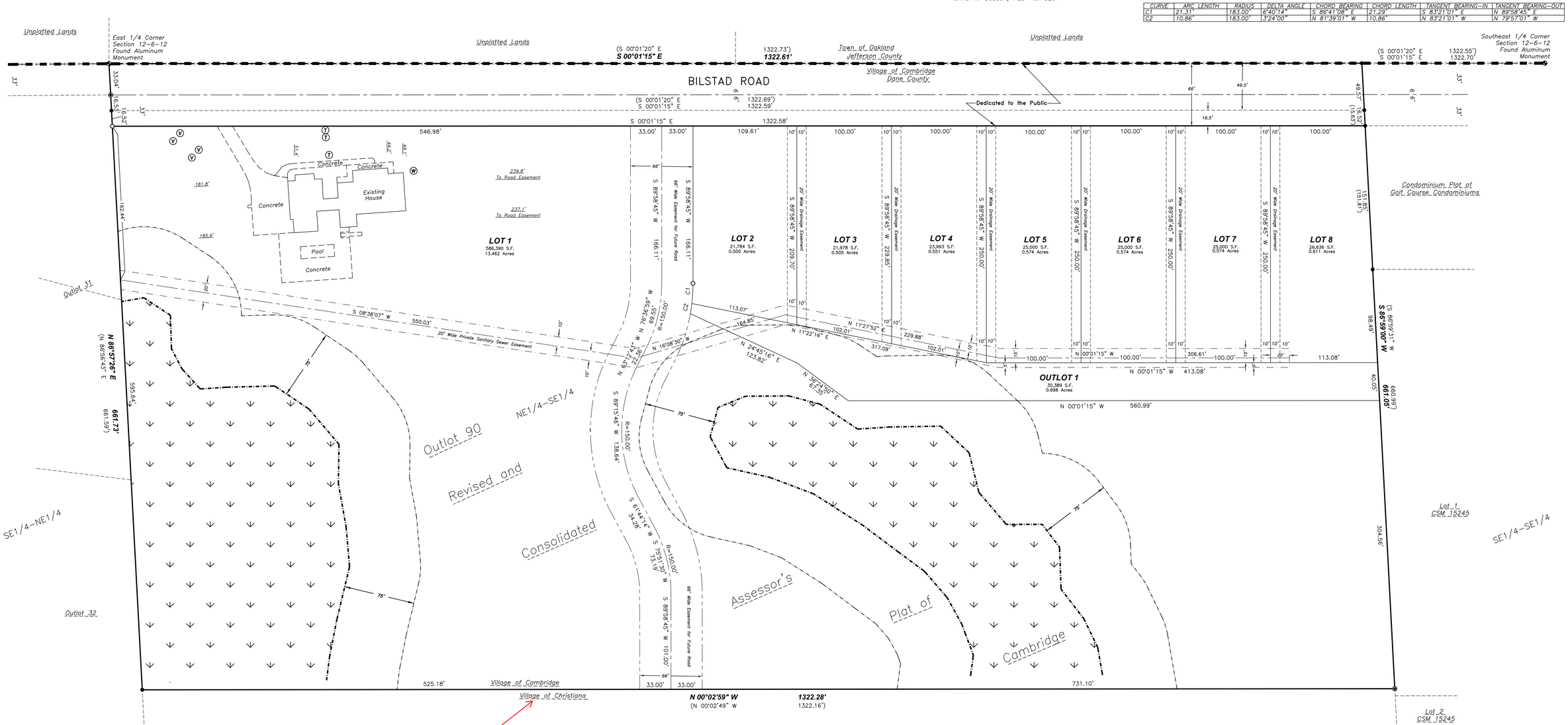
of Plats on Page _____ as Document No. _____.

_____ Date: _____

Kristi Chlebowski, Register of Deeds
County of Dane

Curve Table

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH	TANGENT BEARING-IN	TANGENT BEARING-OUT
C1	21.31'	183.00'	6°40'14"	S 86°41'08" E	21.29'	S 83°21'01" E	N 89°58'45" E
C2	10.86'	183.00'	3°24'00"	N 81°39'01" W	10.86'	N 83°21'01" W	N 79°57'01" W



Bearings referenced to the East line of the Southeast 1/4 of Section 12, bearing S00°01'15"E

ADD MORTGAGE CERTIFICATES (MULTIPLE)

TOWN

L:\2026\260189-Coughlin-Bilstad\260189_FinalPlatv3
J:\2026\Carlson\260189

Office Map No. 260189

BIRRENKOTT SURVEYING

BIRRENKOTT SURVEYING
1677 N. BRISTOL STREET
SUN PRAIRIE, WIS. 53590
608-837-7463

PREPARED FOR:
Coughlin Building Concepts
230 Bilstad Road
Cambridge, WI 53523
608-598-0639

Village of Cambridge Certificate:

Resolved that the plat of Palmer Meadows, being a subdivision located in the Northeast ¼ of the Southeast ¼ of Section 12, T6N, R12E, Village of Cambridge, Dane County, Wisconsin, and that said resolution further provided for acceptance of those lands and rights dedicated by said Palmer Meadows to the Village of Cambridge for public use.

I, Brian Wilson, do hereby certify that I am the duly appointed, qualified and acting Village Clerk of the Village of Cambridge and this plat was approved by the Village Board of the Village of Cambridge, Dane County, Wisconsin, and do further certify that the foregoing is a true copy of the resolution to that effect adopted by said Village Board on the _____ day of _____, 2026.

_____ _____
Brian Wilson, Clerk Date
Village of Cambridge

Owner's Certificate:

Michael Coughlin, as owner, hereby certify that I have caused the land described on this plat of Palmer Meadows to be surveyed, divided, mapped and dedicated as represented hereon. I also certify that this plat is required by S. 236.10 and S. 236.12 to be submitted to the following agencies for approval or objection:

Department of Administration
Village Board, Village of Cambridge

In witness hereof, Michael Coughlin, members, have caused these presents to be executed this _____ day of _____, 2026

_____
Michael Coughlin, Owner

State of Wisconsin)
County of Dane) ss

Personally came before me this _____ day of _____, 2026, the above-named Michael Coughlin, to me known to be the persons who executed the foregoing instrument and acknowledged the same.

_____
Notary Public, Dane County, State of Wisconsin

_____ My commission expires_____
(printed name)

County Treasurer's Certificate:

I, Adam Gallagher, being the duly elected, qualified and acting Treasurer for the County of Dane, hereby certify that in accordance with the records in my office, there are no unpaid taxes and no unpaid special assessments as of _____ affecting any of the lands included in the plat of Palmer Meadows

_____ Date: _____
Adam Gallagher, Treasurer
County of Dane

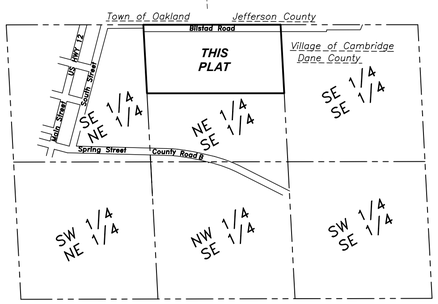
Village Treasurer's Certificate:

I, Brian Wilson, being the duly elected, qualified and acting Treasurer for the Village of Cambridge, hereby certify that in accordance with the records in my office, there are no unpaid taxes and no unpaid special assessments as of _____ affecting any of the lands included in the plat of Palmer Meadows

_____ Date: _____
Brian Wilson, Treasurer
Village of Cambridge

Legend:

- ◔ = Section Corner
- ● = Found 3/4" Iron Bar
- ◉ = Found 1" Iron Pipe
- ○ = 1¼" x 18" Iron Rebar Set, Weight = 4.303 Lbs/Ft
  All other Lot and Outlot corners are marked with a ¾"x18" Rebar weighing 1.502 lbs./lin. ft.
- ( ) = Recorded as data
- Ⓦ = Well
- Ⓣ = Septic Tank
- Ⓥ = Septic Vent
- Wetland Boundary
- 75' = 75' Wetland buffer



LOCATION SKETCH
Section 12, T6N, R12E
Village of Cambridge
NOT TO SCALE

Village of Cambridge Land Division Application

200 Spring Street, PO Box 99, Cambridge, WI 53523 ♦ Phone (608) 423- 3712
https://cambridgewi.gov

Application Information

The Plan Commission meets on the second Monday of each month at 6:30 p.m. in the Amundson Community Center. To be considered for the meeting agenda, submit your complete application (including fee) at least 25 days in advance. Include: 5 hard copies and 1 digital copy of all materials and Environmental Assessment Checklist (required for all land divisions).

If your proposal affects land outside the plat or changes the Village's official zoning map, a public hearing may be required. In that case, the Village will publish a Class 2 notice per §15.08.040 of the Municipal Code. **If you have any questions about the requirements, please contact Steve Tremlett, Zoning Administrator, at (608) 242-4828 or stremlett@msa-ps.com.**

Owner Name(s): Michael Coughlin	
Applicant Name (if different than above):	
Project Address: 230 Bilstad Road Cambridge, WI	***Parcel #(s):*** 111-0612-124-0010-2
Applicant Address (if different than above):	
Applicant Email: Michael@coughlingrp.com	***Surveyor:*** Birrenkott Surveying
Surveyor Phone:	***Surveyor Email:***
Current Zoning: AG	***Existing Use of Property:*** Farmland
Development Size: 4 *acres and* _____ *lots*	***Acres Remaining in Parent Parcel:*** 16
Proposed Zoning: R-L	***Plat Name:*** Palmer Meadows

Land Division Submittal Checklist:		
	Fee (see information at right)	• Sketch Plan: No fee. • CSM: $350 plus $50 per lot over 2 lots. • Preliminary Plat: $350 plus $50 per lot. • Final Plat: $350 plus $50 per lot.
	Complete Application (this page)	
	Sketch plan/CSM/Plat (one hard copy)	
	Environmental Assessment Checklist (Appendix A under Section 16.12)	
	Project Description & Intent Form (attached)	

Applicant Signature: Michael Coughlin _____ ***Date:*** 7-10-26

Owner Signature: _____ ***Date:*** _____

For Staff Use Only		
Date Received:	***Fee Amount:***	***Paid?***
Project to Appear before Plan Commission on:		***PH Publication Dates:***
Plan Commission Recommendation: ☐ Denied ☐ Approved ***Subject to:***		
Village Board Decision: ☐ Denied ☐ Approved (Res #_____) ***Subject to:***		

Project Description & Intent – Land Division Application
Please complete the following sections to describe your proposed land division. This form replaces the need for a separate letter of intent.

1. **Project Overview**:
   Summarize the proposed land division, including the number of lots, intended use, and any phasing plans.

   The proposed land division will consist of (7) single family lots, approximately .6ac allow for single family homes.

2. **Purpose of the Land Division**:
   Explain why the division is being requested and how it supports the goals of the property owner or developer.

   This land division is being requested by the homeowner, to help fit with the asthetic of the road. The frontage of this land is best served as single family homes while allowing the back to remain in its current state.

3. **Infrastructure and Utility Needs**:
   Identify any new or modified infrastructure (roads, water/sewer, stormwater) required for the development. Provide preliminary engineering, inclusive of conceptual stormwater management plan, for Preliminary Plat review. Provide final engineering plans for Final Plat review.

   We have provided all the documentation we believe is needed for the review including; Preliminary plat and enginnering, storm water review, road design, etc.

4. **Environmental Features and Considerations**:
   Note any known environmental constraints (wetlands, floodplains, steep slopes, etc.) and how they will be addressed. Provide wetland delineation report if lands are identified with mapped or wetland type soils per Wisconsin DNR.

   WEtland deliation has been completed by Heartland and submitted to the DNR

5. **Additional Information or Special Considerations**:
   Include any other relevant details that may assist staff and the Plan Commission in reviewing your application.

July 27, 2026

MSA
Attn: William Pinnow, PE

Re: Bilstad Road - Plan Review

Dear Mr. Pinnow:

Enclosed is the revised Plan Set dated July 27, 2026. This letter and the above referenced submittal correspond to your review comments dated May 3rd, 2026. Attached to this letter are the revised Plan Set.

Our responses and revisions to your comments are as follows:
Engineering Comments

1. Quam's plans submitted at 1"=100' scale when printed on 11"x17" paper. Resubmit at 1"=40' formatted for 11" x17" paper.
    a. The scale has been reduced as much as possible.
2. Outlot 1 not shown on Quam's plans.
    a. Outlot 1 is shown on the provided plans.
3. Identify the datum used.
    a. Williamson Surveying will provide datum information.
4. Show tax key numbers for all parcels
    a. Provided, see Sheet C-2.
5. Show owners name and addresses for all parcels
    a. Provided, see Sheet C-2.
6. Show easements for future private utilities such as power, telecommunications, gas, etc.
    a. Future private utilities will be located within the right-of-way.
7. Need to provide erosion control plans
    a. Provided, see Sheet C-2.
8. Need to provide traffic control plans
    a. Provided, see C-12 and C-13.
9. Final plans will need to be stamped by a Wisconsin licensed engineer.
    a. Final Plans will be stamped once approved.
10. Right of way draining across private property will require a drainage easement.
    a. Drainage easements have been added to the plans.
11. What are the "mounds" in the front yards of the lots as shown on Sheet 3? How will driveways navigate these mounds?
    a. The mounds have been removed.
12. Draining into the outlot and onto the adjacent parcel will require a drainage easement.
    a. Drainage easements have been provided.
13. Outlot 1 and Lot 2 appear to encroach on the wetland buffer. This will need additional permitting/review.
    a. This will not require additional review after consulting with MSA.
14. Provide finished floor elevations, property corner elevations and driveway grades for review. As-builts will be required post-construction.

a. Finished floor elevations will be provided with building permits for the homes. Property corner elevations are provided on Sheet C-2. The As-built requirement has been noted.

15. Excess onsite material shall not be used as fill material within the Public Right-of-Way.
    a. Noted; this has been added to Sheet C-2.

Streets

16. Existing right of way not labelled and dimensioned.
    a. Added, see Sheets C-3 to C-5.
17. Proposed right of way dedication not labeled and dimensioned.
    a. Added, see Sheets C-3 to C-5.
18. We will need engineered roadway drawings showing the new pavement thickness design, widths & grades, cross culvert improvements, regrading of the drainage ditches, etc
    a. Added, see Sheets C-3 to C-5, and C10.
19. Need to show preliminary road layout for the future road reservation located north of lot 2 showing how it fits with the proposed grading shown within the future right of way.
    a. See C-9 & C-10.
20. Future road right of way goes through wetlands. Can this be relocation to go around the wetlands?
    a. The future road right of way has been relocated.
21. Driveway culverts will need to be located and calculations for slopes and sizes provided.
    a. There will be no driveway culverts, the drainage ditches between the lots will provide drainage between the driveways to the rear of the lots.
22. Any trees located in the right of way should be identified on the drawings.
    a. The existing trees will be added to the plans once collected before final stamp.
23. Any work within the right of way requires a street opening permit from the Village.
    a. Noted, this permit will be applied for during the construction phase. A note has been added to C-2.

Sanitary Sewer

24. Provide calculations and designs for the E-One system.
    a. Provided.
25. Who will own and operate the force main? If by the Village then it should be located within Village right of way. If private it will need a long-term maintenance agreement.
    a. The force main will be private, owned by the residents.
26. 27. Force main will require easements where located on private property.
    a. Easements for the force main will be provided.
27. Force main will require tracer wire.
    a. Note added to sheets C-6 to C-8.
28. Easements to be minimum 20-feet wide. Show how to access any manhole located within an easement.
    a. There are no manholes, the cleanouts and easement for the sanitary sewer can be accessed from the 66' wide future road reservation.
29. Force main sizing should incorporate accommodations for future development.
    a. The force main is private and will not be sized for future development.
30. Sheet 1 has contour line labeled as a force main.
    a. This has been corrected.

31. Show location of well for existing house and dimension setback from that well to the force main.
    a. The existing well is 160-ft from the force main, shown on C-7.
32. Show location of septic system existing house and dimension setback from that system to the force main. Will that house be connecting to the force main?
    a. The existing septic system will not be connecting to the force main, it is located 139-ft from the force main.
33. Provide plan and profile sheets for the force main, details on proposed sanitary manholes, and connection to existing manhole.
    a. Plan and profiles have been created for the sanitary force main, additional details are included in the E-One PDF.
34. Force main appears to impact the wetland buffer. This will require additional permitting and review.
    a. This has been discussed with MSA and will not require additional permitting provided it receives DNR approval during the NOI process.

Water Supply

35. Provide location or allowable areas to locate each of the proposed residential wells, meeting DNR well setback requirements.
    a. The proposed well locations are shown on Sheet C-2.

Storm Sewer and Drainage

36. Provide copy of stormwater management plan approved by Dane County.
    a. The stormwater management plan is currently under review with Dane County.
37. Provide details and calculations for the bio-basins.
    a. The details and calculations are included in the stormwater management report.
38. Provide details and calculations for the storm sewers.
    a. The details and calculations are included in the stormwater management report.
39. Provide long term maintenance agreement(s) for the biobasins, drainage ditches on private property, and storm sewers.
    a. The maintenance agreements are included in the stormwater management report.
40. Provide 4H:1V slopes on side slopes of proposed drainage ditches to make them mowable.
    a. The slopes have been changed to 4:1 as requested.
41. Show rip rap at outfalls.
    a. Rip rap has been added to outfall locations.

If you have any questions or comments, please feel free to contact me.

Sincerely,



Adam Ryan

Cc: Michael Coughlin via michael@coughlingrp.com

FN: MC-52

Environment One Corporation

Pressure Sewer Preliminary Cost and Design Analysis For Bilstad Rd, WI Rev1

Prepared For:
Quam Engineering, LLC
4604 Siggelkow Road, Suite A
McFarland WI 53558 USA
Tel: 608-838-7750
Fax:
Prepared By: M. Crowley
July 20, 2026

Bilstad Rd, WI
Rev1

Prepared by : M. Crowley **On:** July 20, 2026

Notes :
Analysis based upon drawings and data provided. Station recommendations are preliminary.

GPD values impact retention times only, not line sizing or hydraulics. GP laterals to be 1.25".

Analysis valid only with pipe type listed.

General recommendations for valve placement are: clean out valves at intervals of approximately 1,000 ft and at branch ends and junctions; isolation valves at branch junctions; and air release valves at changes in grade of 20 to 25 ft or more and/or at intervals of 2,000 to 2,500 ft. Lateral kits comprised of a ball and check valve are required to be installed between the pump discharge and street main on all installations. Laterals should be located as close to the public right of way as possible.

Quantities of grinder pumps, pipe, and valves are indicated on the cost page. The model of grinder pump(s) indicated is based upon the initial information provided to us but may not be the most appropriate for the specific location or requirements of the project. Costs of these items and their installation are best obtained from sources in your region. We recommend you contact your local distributor of Environment One products for additional recommendations.

04.28.2026 - Initial analysis.
07.20.2026 - Rev1.

<<<<< E N D O F N O T E S >>>>>

July 20, 2026

Budgetary Low Pressure Sewer System Costs

Bilstad Rd, WI
Rev1

	Quantity	Description	Unit Cost	Installation	Sub Total
Valves	2	Clean Out	$0.00	0.00	$0.00
					$0.00
Pumps	7	DH071-129	$0.00	0.00	$0.00
	7	Lateral Kits (Includes Ball\Check Valve Assembly)	$0.00	0.00	$0.00
	7	Lateral (Boundary) Installation	$0.00	0.00	$0.00
	7	Pump/Panel Installation	$0.00	0.00	$0.00
	350	LF of 1.25" Lateral Pipe	$0.00	0.00	$0.00
					$0.00
Piping	1,470	2.00" Pipe	$0.00	0.00	$0.00
					$0.00

Number of Connections	**7**		
Total Per Connection	**$0.00**	**Total (w/o other)** >>>>>>>>>>>>	**$0.00**
Grand Total Per Connection	**$0.00**	**Grand Total (including other)** >>>>>>>>>>>>	**$0.00**

Note: The System Costs above are based on piping sized for, and Grinder Pumps manufactured by Environment One Corporation.

PRELIMINARY PRESSURE SEWER - PIPE SIZING AND BRANCH ANALYSIS

Prepared By: Bilstad Rd, WI

M. Crowley Rev1 July 20, 2026

Zone Number	Connects to Zone	Number of Pumps in Zone	Accum Pumps in Zone	Gals/day per Pump	Max Flow Per Pump (gpm)	Max Sim Ops	Max Flow (GPM)	Pipe Size (inches)	Max Velocity (FPS)	Length of Main this Zone	Friction Loss Factor (ft/100 ft)	Friction Loss This Zone	Accum Fric Loss (feet)	Max Main Elevation	Minimum Pump Elevation	Static Head (feet)	Total Dynamic Head (ft)
This spreadsheet was calculated using pipe diameters for: SDR11HDPE											Friction loss calculations were based on a Constant for inside roughness "C" of: 150						
1.00	2.00	3	3	200	11.00	2	22.00	2.00	2.38	234.00	1.19	2.78	33.92	856.00	838.00	18.00	51.92
2.00	2.00	4	7	200	11.00	3	33.00	2.00	3.57	1,236.00	2.52	31.14	31.14	856.00	838.00	18.00	49.14

Note: This analysis is valid only with the use of progressive cavity type grinder pumps as manufactured by Environment One.

PRELIMINARY PRESSURE SEWER - ACCUMULATED RETENTION TIME(HR)

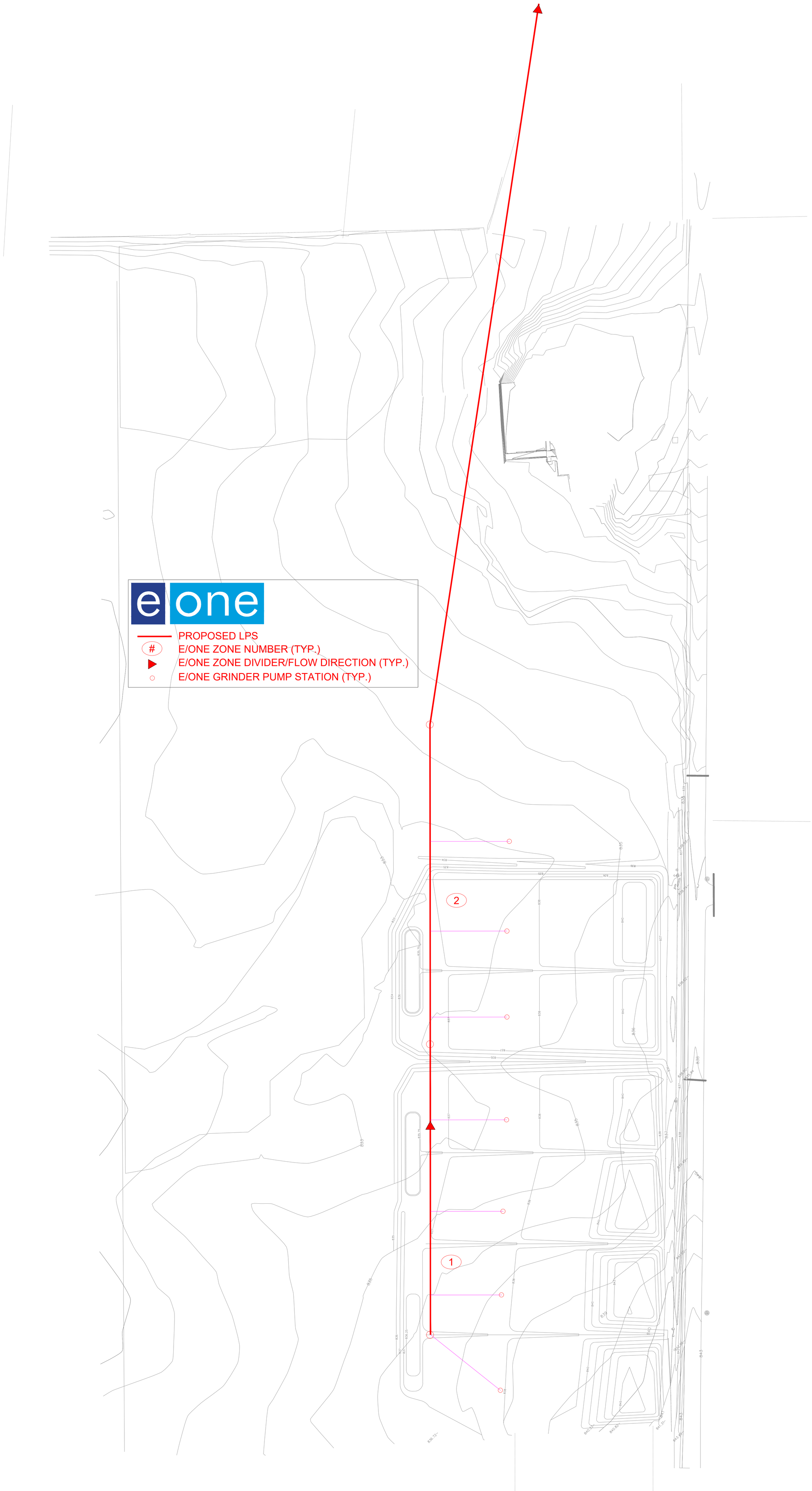
Prepared By:
M. Crowley

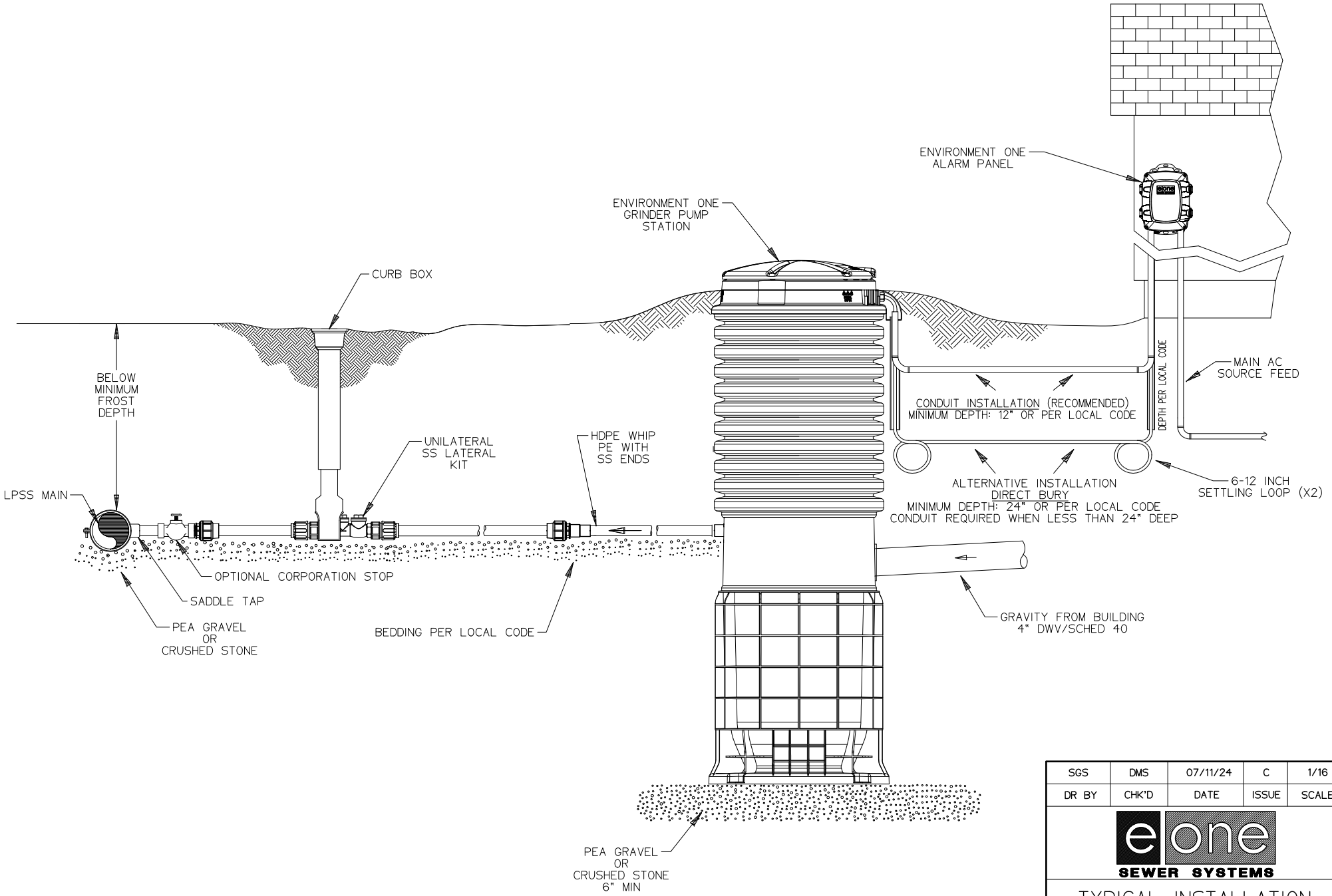
Bilstad Rd, WI
Rev1

July 20, 2026

Zone Number	Connects to Zone	Accumulated Total of Pumps this Zone	Pipe Size (inches)	Gallons per 100 lineal feet	Length of Zone	Capacity of Zone	Average Daily Flow	Average Fluid Changes per Day	Average Retention Time (Hr)	Accumulated Retention Time (Hr)
This spreadsheet was calculated using pipe diameters for: SDR11HDPE								Gals per Day per Dwelling		200
1.00	2.00	3	2.00	15.40	234.00	36.04	600	16.65	1.44	4.71
2.00	2.00	7	2.00	15.40	1,236.00	190.38	1,400	7.35	3.26	3.26

Note: This analysis is valid only with the use of progressive cavity type grinder pumps as manufactured by Environment One


e one
PROPOSED LPS
E/ONE ZONE NUMBER (TYP.)
E/ONE ZONE DIVIDER/FLOW DIRECTION (TYP.)
E/ONE GRINDER PUMP STATION (TYP.)
2
1



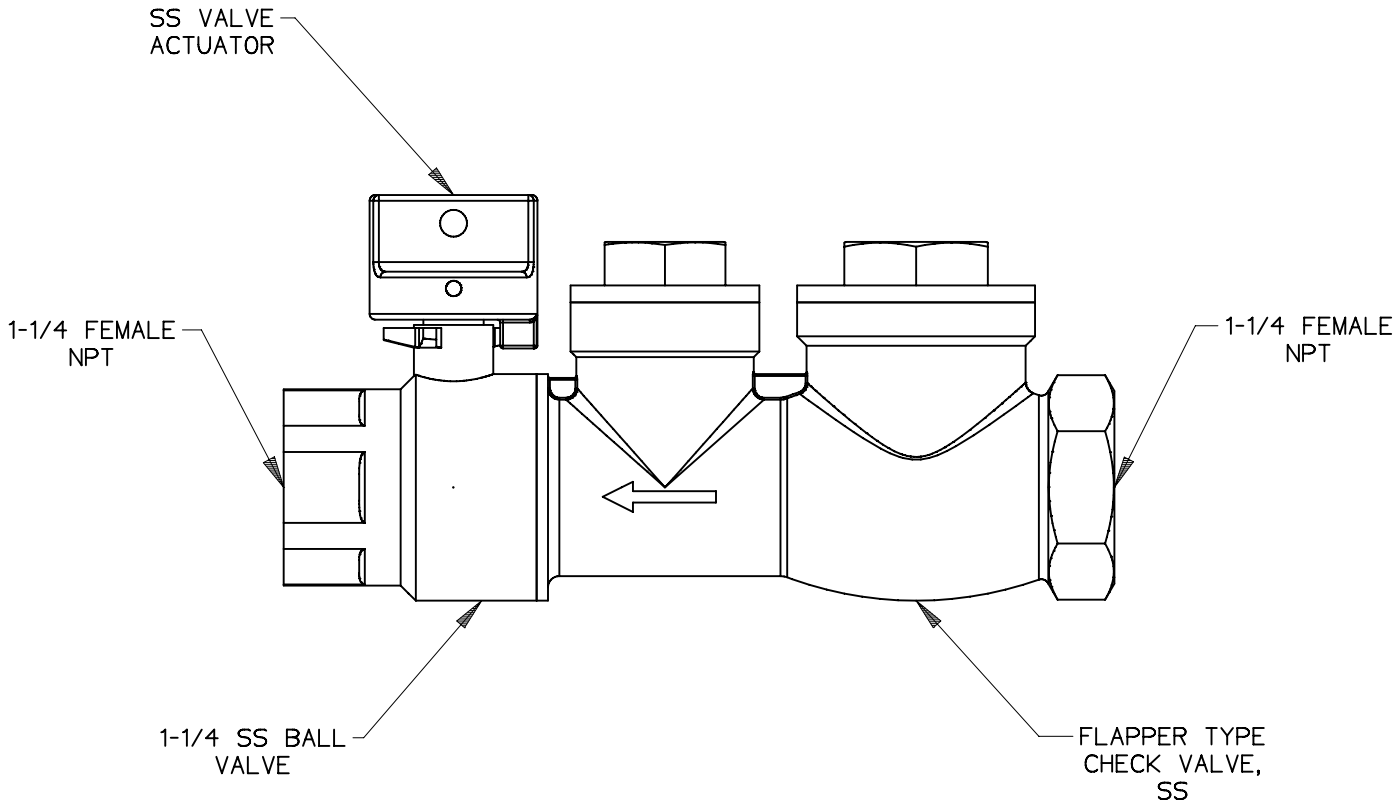
SGS	DMS	07/11/24	C	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE

SEWER SYSTEMS

TYPICAL INSTALLATION

LM000114

STAINLESS STEEL LATERAL ASSEMBLY NO FITTINGS



PART IS A BALL VALVE CURB STOP WITH FEMALE PIPE THREADS,
VALVE POSITION STOPS (OPEN/CLOSED), AND INTEGRAL CHECK VALVE
MATERIAL: STAINLESS STEEL

PRESSURE RATING: 235 PSI

TO ORDER SS LATERAL, NO FITTINGS
USE PART NUMBER NB0184P01

SGS	DN	09/20/11	-	3/16
DR BY	CHK'D	DATE	ISSUE	SCALE

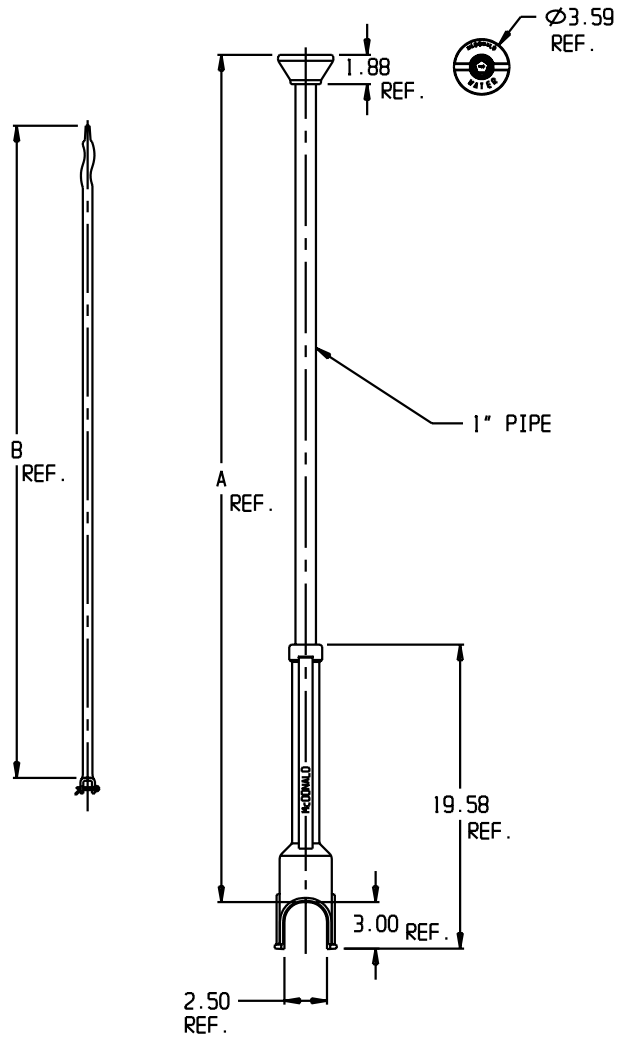
SEWER SYSTEMS

STAINLESS STEEL LATERAL ASSEMBLY
NO FITTINGS

NA0330P05

4513-124	-
PATT. No.	
CORE No.	

MODEL NO.	EXTENDED LENGTH "A"	STATIONARY ROD LENGTH "B"
5607 2 1/2	2' - 6"	12"
5607 3	3' - 0"	18"
5607 3 1/2	3' - 6"	24"
5607 4	4' - 0"	30"
5607 4 1/2	4' - 6"	36"
5607 5	5' - 0"	42"
5607 5 1/2	5' - 6"	48"
5607 6	6' - 0"	54"
5607 6 1/2	6' - 6"	60"
5607 7	7' - 0"	66"
5607 7 1/2	7' - 6"	72"
5607 8	8' - 0"	78"



MATERIAL SPECIFICATIONS		
UNLESS OTHERWISE SPECIFIED - TOLERANCES, ETC.		
CASTINGS: +/- .025		
2 PLACE DECIMALS (.00) +/- .015		
3 PLACE DECIMALS (.000) +/- .005		
FINISH 125 max.	RADII:	DRAFT:
T.I.R. .010 max., O-RING GROOVES .004 max.		DIM. IN INCHES

A. Y. McDONALD CONSIDERS THE INFORMATION ON THIS ASSEMBLY DRAWING CORRECT WHEN PUBLISHED. ITEM AND OPTION AVAILABILITY INCLUDING SPECIFICATIONS, ARE SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE VERIFY THAT PRODUCT INFORMATION IS CURRENT.

4513-124 -

C.O. No.	SYM.	REVISIONS
08-102	---	RELEASED TO SALES ASSY DIRECTORY

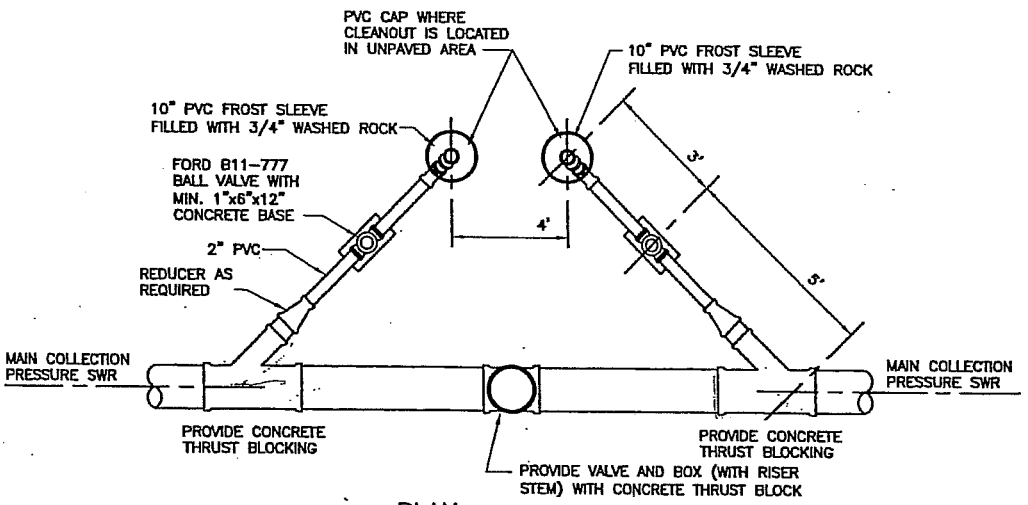
This print is the property of A.Y. McDONALD MFG. CO., Dubuque, Iowa and is loaned subject to return upon demand. It is issued with the expressed agreement that it will not be issued directly or indirectly in any way detrimental to our interests. The acceptance of this drawing will be construed as an acceptance of the foregoing agreement.

5607 CURB BOX

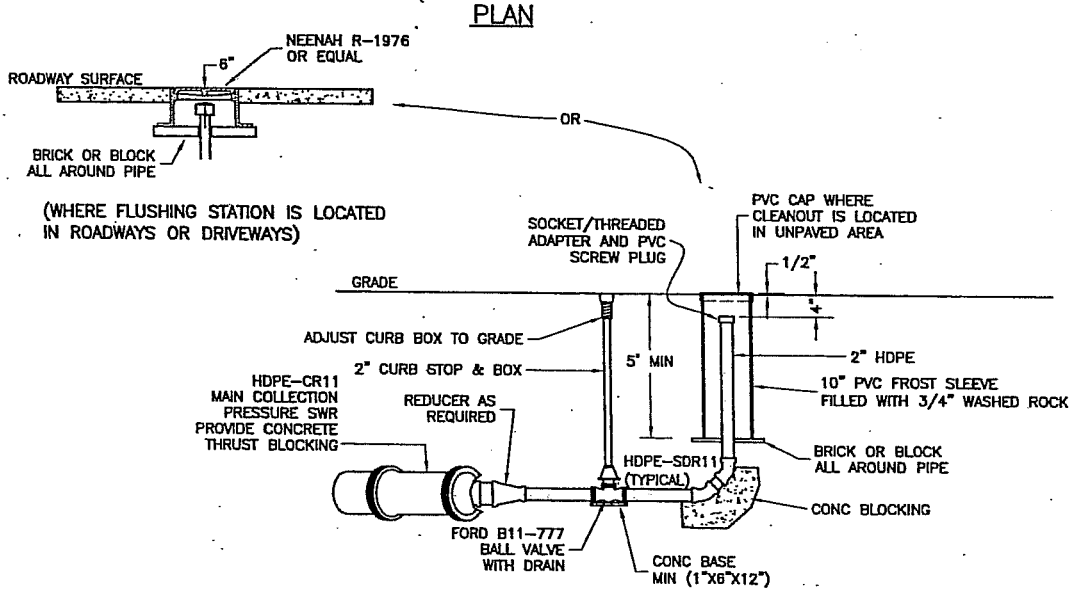
DRAWN	CHECKED
DJC 04-21-08	
SCALE	APPROVED

A.Y. McDonald Mfg. Co.
DUBUQUE, IOWA

4513-124 -



PLAN



SECTION

2" FLUSHING CONNECTION DETAILS

BILSTAD ROAD DEVELOPMENT

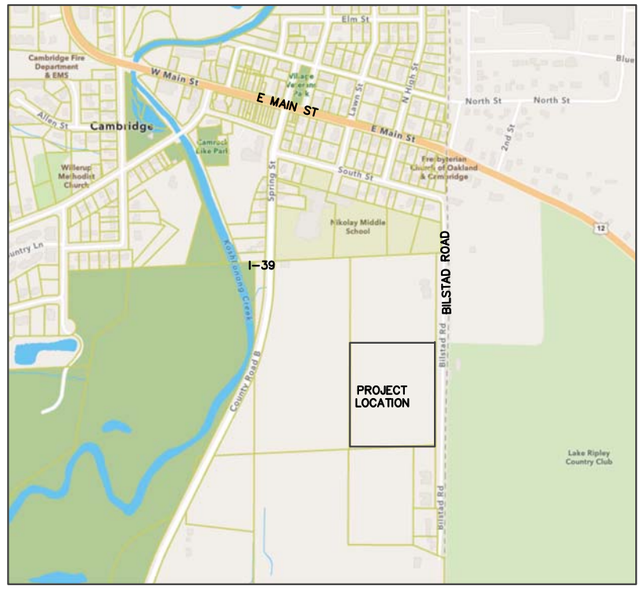
STREET AND UTILITY CONSTRUCTION

VILLAGE OF CAMBRIDGE
DANE COUNTY, WISCONSIN

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A; McFarland, WI 53558 (608) 838-7750

INDEX

SHEET	STATIONS	DESCRIPTION
C-0		COVER PAGE
C-1		EXISTING SITE PLAN
C-2		GRADING AND EROSION CONTROL PLAN
C-3		BILSTAD IMPROVEMENTS PLAN
C-4		BILSTAD IMPROVEMENTS PLAN
C-5		BILSTAD IMPROVEMENTS PLAN
C-6		SANITARY PLAN AND PROFILE
C-7		SANITARY PLAN AND PROFILE
C-8		SANITARY PLAN AND PROFILE
C-9		FUTURE PLAN AND PROFILE
C-10		FUTURE ROAD PLAN AND PROFILE
C-11		DETAILS
C-12		BILSTAD TRAFFIC CONTROL PLAN #1
C-13		BILSTAD TRAFFIC CONTROL PLAN #1



QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A; McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52BASE.DWG

25.0'

75' WETLAND SETBACK

EXISTING DELINEATED WETLAND

75' WETLAND SETBACK

EXISTING DELINEATED WETLAND

15.0'

LOT 1
R-M

TEST PIT #2
EL=836.5

USLE SLOPE LINE
(350' @ 1.5%)

TEST PIT #3
EL=833.8

TEST PIT #4
EL=833.0

TEST PIT #1
EL=836.0

300'

80'

150'

33' EX. ROW

BILSTAD ROAD

EX. WALL

EX. CONCRETE

EX. POOL

EX. WALLS

EX. CONCRETE
DRIVEWAY

EX.
HOUSE

EX.
GARAGE

EX. CONCRETE
SIDEWALK

SEPTIC TANK

SEPTIC VENT

EX.
SILO

EX. SAN MH
RIM=856.00
6" NORTH IE=852.45
8" WEST IE=852.17

OHEI

18" CMP CULVERT
W IE=835.94
E IE=836.02

18" CMP CULVERT
W IE=836.84
E IE=836.76

0 50 100

BILSTAD ROAD DEVELOPMENT

EXISTING SITE PLAN

SHEET: C-1
DATED: JULY 27, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52BASE.DWG

PROPOSED BIO-BASIN #2
PLANTING AREA: 1,200 SQFT
3' WIDE BIO-BASIN #2 BERM; EL=836.75
1' WIDE BERM
ELEV=837.25
3'X9'X15'X1.5'
MEDIUM RIPRAP
W/FABRIC (SEE DETAIL)
69'-12" HDPE STORM SEWER
@ 0.36% – NORTH IE=834.00
28'-8" HDPE STORM SEWER
@ 0.90% – NORTH IE=833.50
STANDPIPE #2
(SEE DETAIL)
RIM=836.25
6" IE=833.75
10" IE=833.75
(2) 3'X9'X15'X1.5'
MEDIUM RIPRAP
W/FABRIC
(SEE DETAIL)
WETLAND BOUNDARY
30'-10" HDPE STORM SEWER
@ 0.83% – SOUTH IE=833.50
PROPOSED BIO-BASIN #1
PLANTING AREA: 2,000 SQFT
WETLAND BOUNDARY
75' WETLAND SETBACK
129'-6" PVC PERFORATED
UNDERDRAIN (SEE DETAIL)
STANDPIPE #3 (SEE DETAIL)
RIM=836.75; 6" IE=834.25
10" IE=834.25
30'x3'
OVERFLOW WEIR
ELEV=836.50
(BASIN #3)
20'x3' OVERFLOW WEIR
ELEV=836.50 (BASIN #1)
FUTURE OUTFALL=833.50
3' WIDE BIO-BASIN #3 BERM
EL=837.25
3' WIDE BIO #1 BERM
EL=837.00
SILT FENCE (SEE DETAIL)
PRIVATE
OUTLOT 1
SILT FENCE
OR SOCK
(SEE DETAIL)
FUTURE 100'-15" RCP STORM SEWER @ 0.25%
CLEANOUT
CLEANOUT
PROPOSED BIO-BASIN #3
PLANTING AREA: 1,500 SQFT
10'x3' OVERFLOW WEIR
ELEV=837.00 (BASIN #3)
1' WIDE BERM
ELEV=837.25
130'-6" PVC PERFORATED
UNDERDRAIN (SEE DETAIL)
132'-6" PVC PERFORATED
UNDERDRAIN (SEE DETAIL)
STANDPIPE #1
(SEE DETAIL)
RIM=836.25
6" IE=833.75
10" IE=833.75
CLEANOUT
205'-6" PVC PERFORATED
UNDERDRAIN W/TEE (SEE DETAIL)
FUTURE STANDPIPE #1
(3' DIA)
RIM=836.50
IE=833.75
LIMITS OF DISTURBANCE
(235,000 SQFT)
STRAW WATTLE
DITCH CHECK
(TYP)
(SEE DETAIL)
FUTURE BIO BASIN AND UNDERDRAIN
BIO BOTTOM=835.75
UNDERDRAIN=833.75
20.0'
DRAINAGE
EASEMENT
20.0'
DRAINAGE
EASEMENT
20.0'
DRAINAGE
EASEMENT
20.0'
DRAINAGE
EASEMENT
20.0'
DRAINAGE LOT 2
EASEMENT R-M
20.0'
DRAINAGE
EASEMENT
LOT 7
R-M
LOT 6
R-M
LOT 5
R-M
LOT 4
R-M
LOT 3
R-M
USLE FINAL SLOPE LINE
(32' @ 12%)
66.0'
FUTURE
ROAD
RESERVATION
PROPOSED WELL
LOCATION
PROPOSED WELL
LOCATION
PROPOSED WELL
LOCATION
PROPOSED WELL
LOCATION
PROPOSED WELL LOCATION
PROPOSED WELL LOCATION
PROPOSED WELL LOCATION
STONE CONSTRUCTION ENTRANCE
(SEE DETAIL)
20'-18" CULVERT
EXTENSION
PRO IE=836.77
13'-18" CULVERT
EXTENSION
PRO IE=835.91
PROPOSED EDGE
OF PAVEMENT
EX. POLE (TO
REMAIN)
BILSTAD ROAD
EX. POLE (TO
REMAIN)
PROPOSED EDGE
OF PAVEMENT
EX. POLE (TO
REMAIN)
PROPOSED EDGE
OF PAVEMENT
24'-18" EX. CMP CULVERT @ 0.3%
W IE=835.94
E IE=836.02
24'-18" EX. CMP CULVERT @ 0.33%
W IE=836.84
E IE=836.76
LAKE RIPLEY
COUNTRY CLUB
MAINTENANCE SHED

NOTES:
1. EXCESS ONSITE MATERIAL SHALL NOT BE USED AS FILL MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
2. ANY WORK WITHIN THE RIGHT OF WAY WILL REQUIRE A STREET OPENING PERMIT.

EROSION CONTROL LEGEND

INSTALL WISDOT CLASS I TYPE B
UBRAN EROSION MAT

0 30 60

VERTICAL DATUM: NAVD 88
HORIZONTAL DATUM: DANE COUNTY COORDINATE SYSTEM NAD83 (2011)

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

TDD(FOR THE HEARING IMPAIRED)(800)542-2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

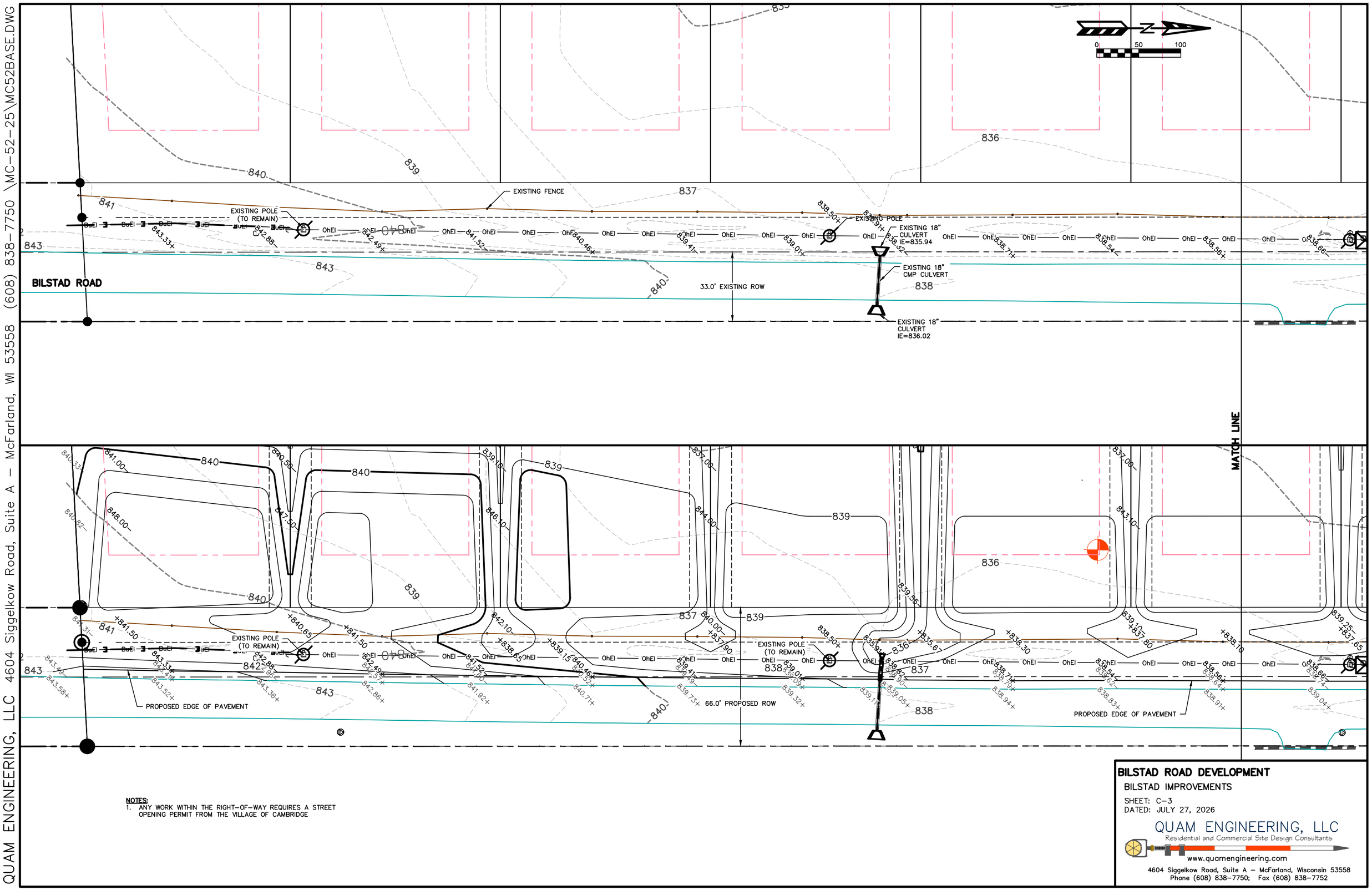
BILSTAD ROAD DEVELOPMENT

GRADING & EROSION CONTROL PLAN

SHEET: C-2
DATED: JULY 27, 2026

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Residential and Commercial Site Design Consultants
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4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
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NOTES:
1. ANY WORK WITHIN THE RIGHT-OF-WAY REQUIRES A STREET OPENING PERMIT FROM THE VILLAGE OF CAMBRIDGE

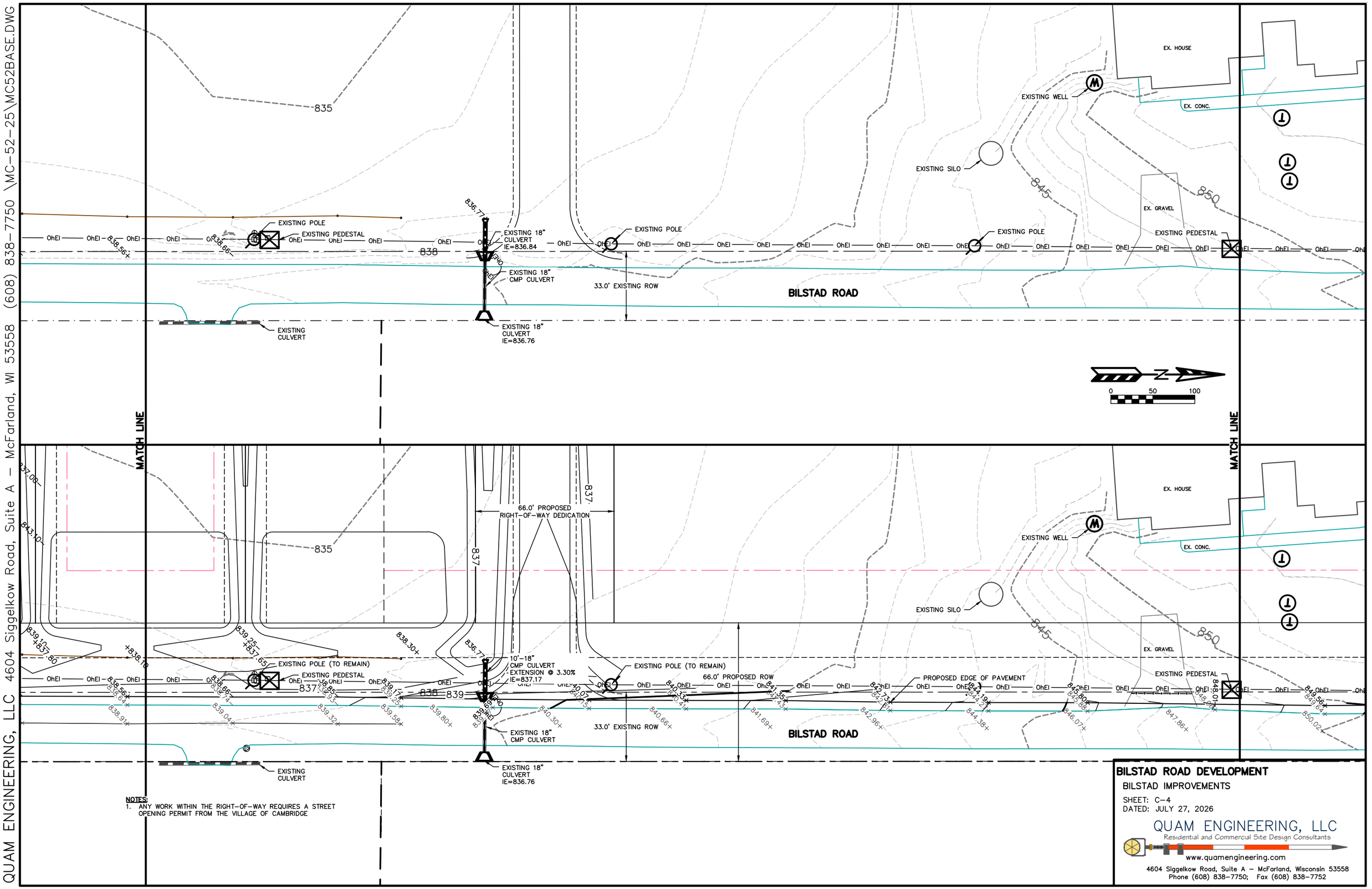
BILSTAD ROAD DEVELOPMENT

BILSTAD IMPROVEMENTS

SHEET: C-3
DATED: JULY 27, 2026

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NOTES:
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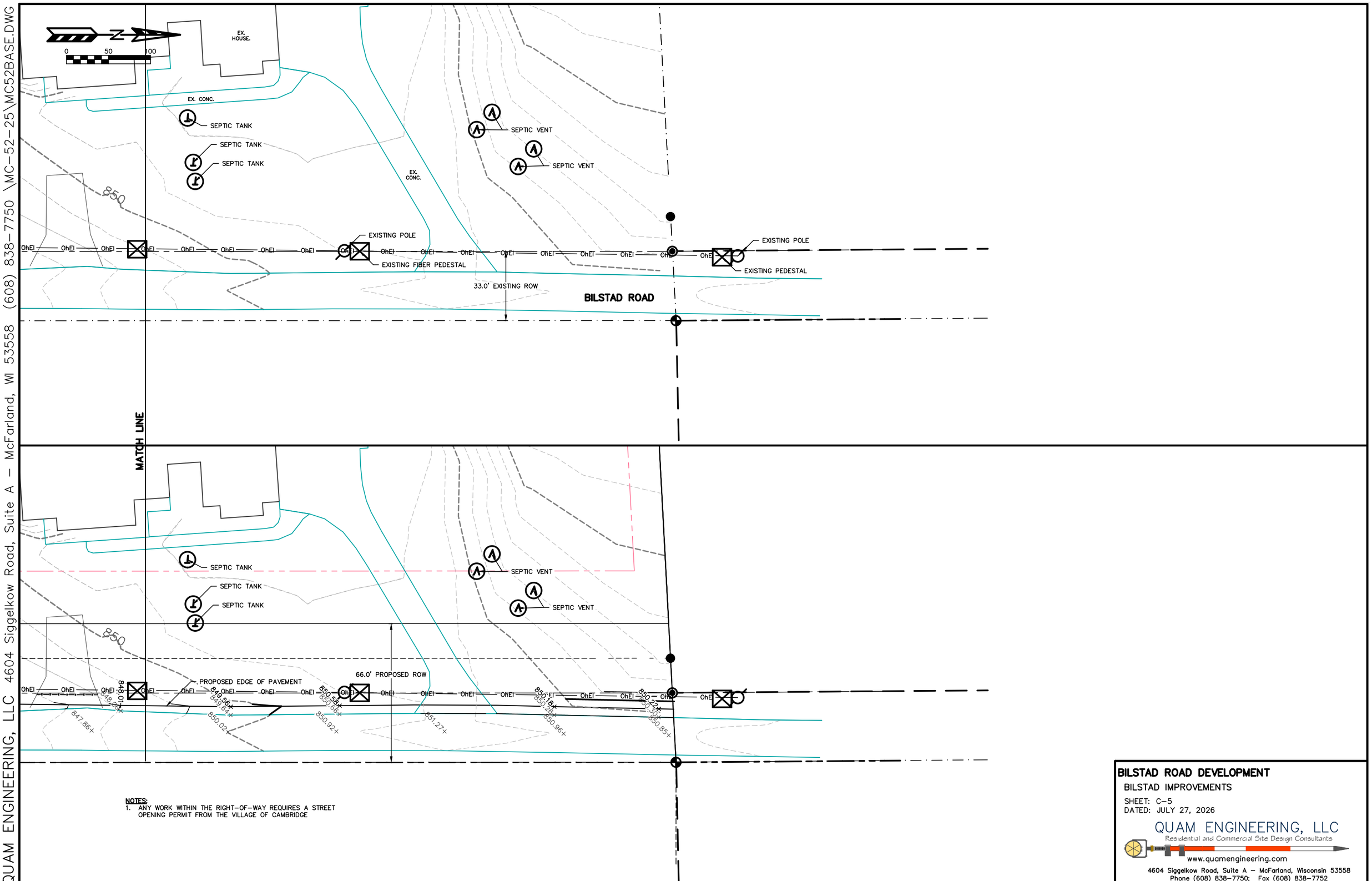
BILSTAD ROAD DEVELOPMENT

BILSTAD IMPROVEMENTS

SHEET: C–4
DATED: JULY 27, 2026

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Phone (608) 838–7750; Fax (608) 838–7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838–7750 \MC–52–25\MC52BASE.DWG



NOTES:
1. ANY WORK WITHIN THE RIGHT–OF–WAY REQUIRES A STREET OPENING PERMIT FROM THE VILLAGE OF CAMBRIDGE

BILSTAD ROAD DEVELOPMENT

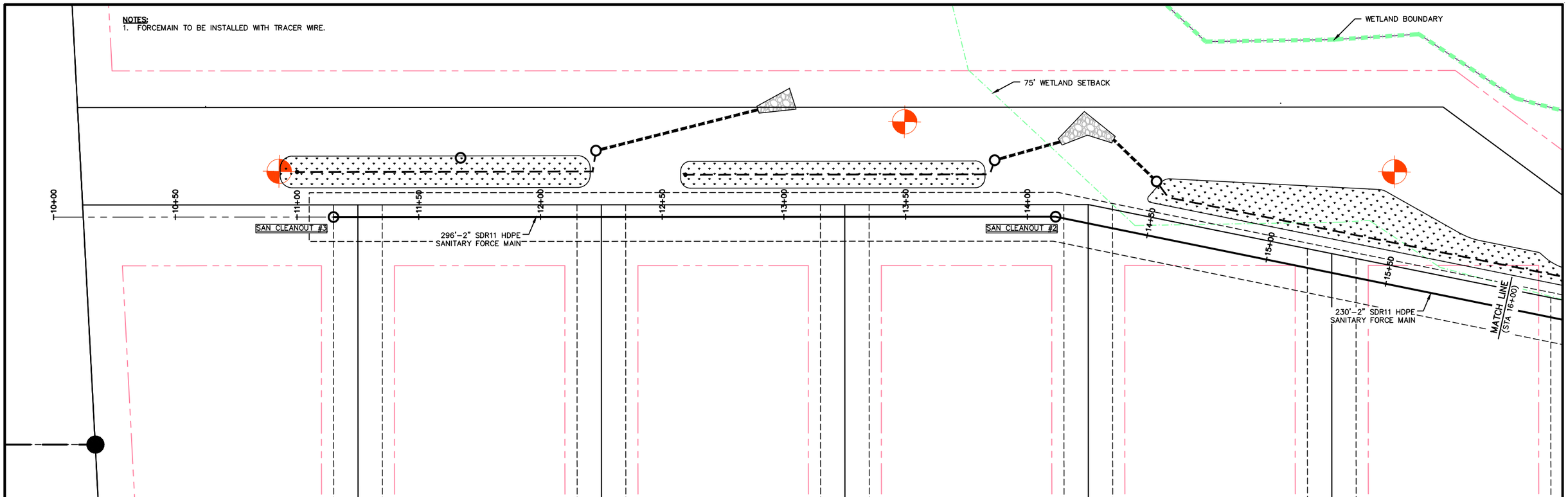
BILSTAD IMPROVEMENTS

SHEET: C–5
DATED: JULY 27, 2026

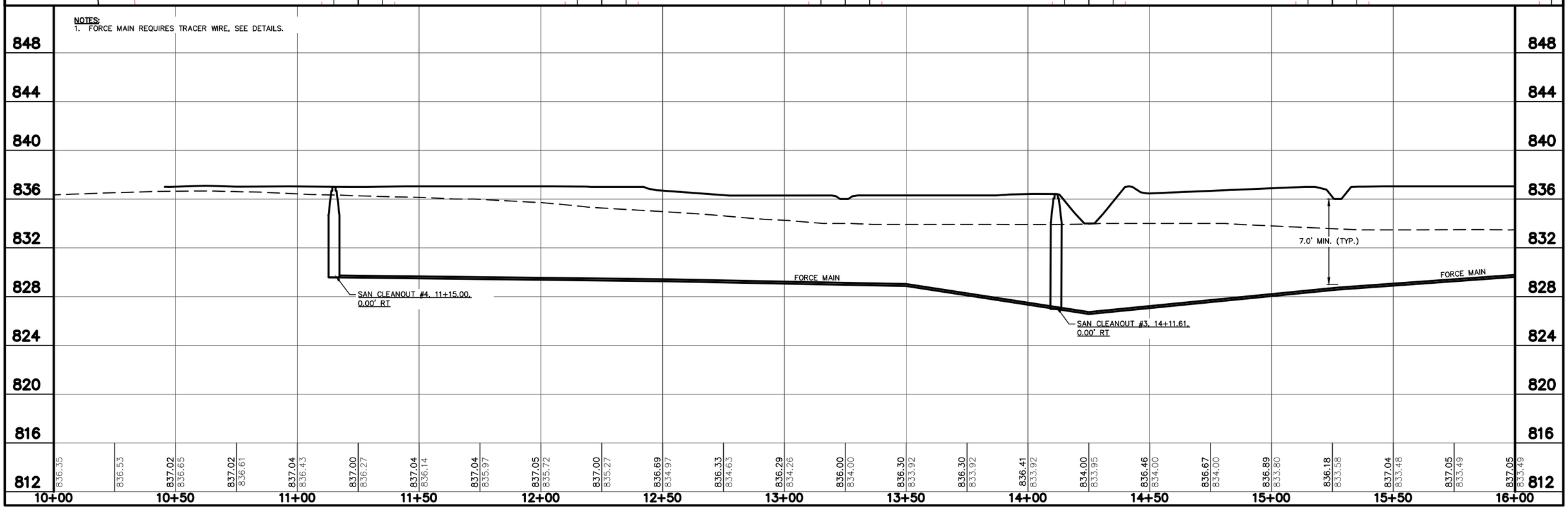
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Phone (608) 838–7750; Fax (608) 838–7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A; McFarland, WI 53558 (608) 838-7750

NOTES:
1. FORCEMAIN TO BE INSTALLED WITH TRACER WIRE.



NOTES:
1. FORCE MAIN REQUIRES TRACER WIRE, SEE DETAILS.



NOTES:
1. FORCEMAIN TO BE INSTALLED WITH TRACER WIRE.

WETLAND BOUNDARY

75' WETLAND SETBACK

SAN CLEANOUT #1

SAN CLEANOUT #2

MATCH LINE (STA 16+00)

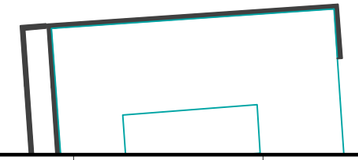
2" SDR11 HDPE SANITARY FORCE MAIN

165'-2" SDR11 HDPE SANITARY FORCE MAIN

799'-2" SDR11 HDPE SANITARY FORCE MAIN

MATCH LINE (STA 22+00)

161.0' TO EXISTING PRIVATE WELL



16+00 16+50 17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50 21+00 21+50 22+00

848 844 840 836 832 828 824 820 816 812

837.05 833.49 | 836.71 833.71 | 837.02 833.88 | 835.39 833.99 | 834.25 | 834.58 | 834.86 | 835.11 | 835.34 | 835.61 | 835.94 | 836.32 | 836.66 | 836.95 | 837.26 | 837.67 | 838.25 | 838.95 | 839.68 | 840.90 | 841.58 | 842.00 | 841.74 | 841.65 | 842.08

FUTURE STREET SURFACE

7.0' MIN. (TYP.)

SAN CLEANOUT #2, 16+41.49, 0.00' RT

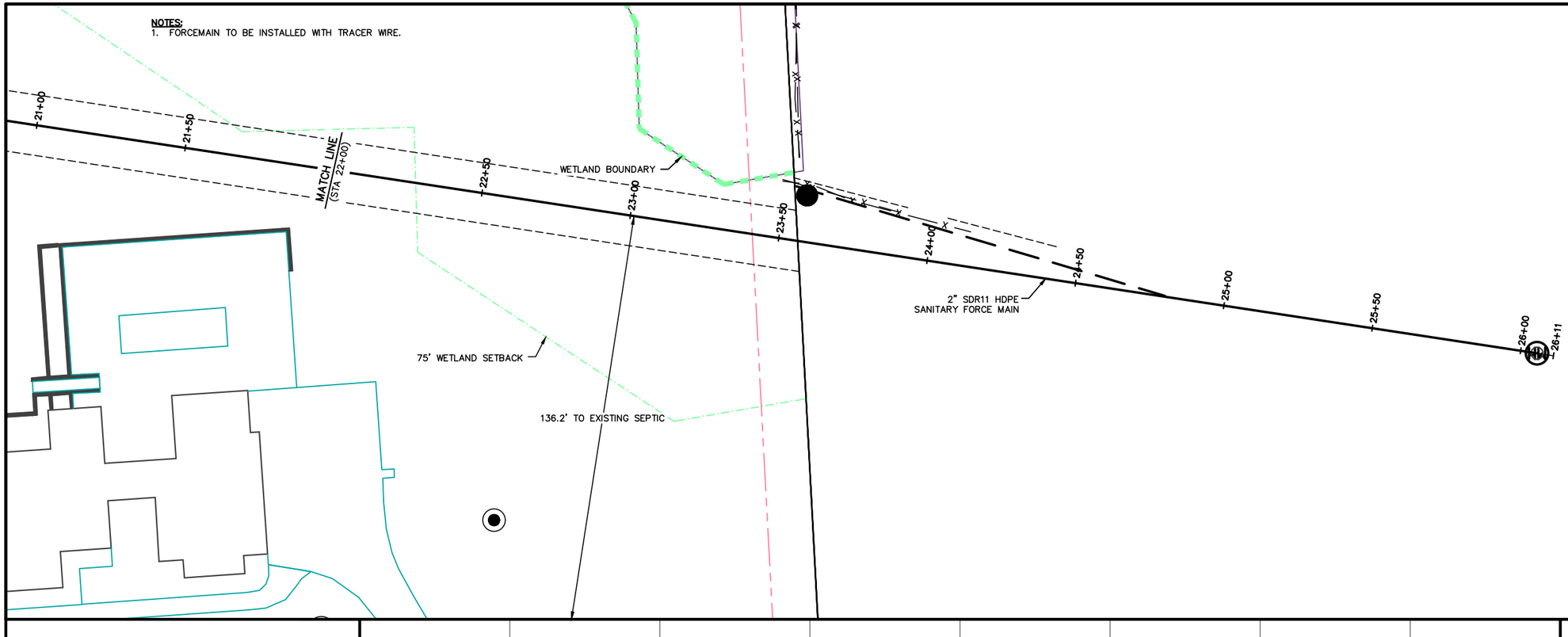
FORCE MAIN

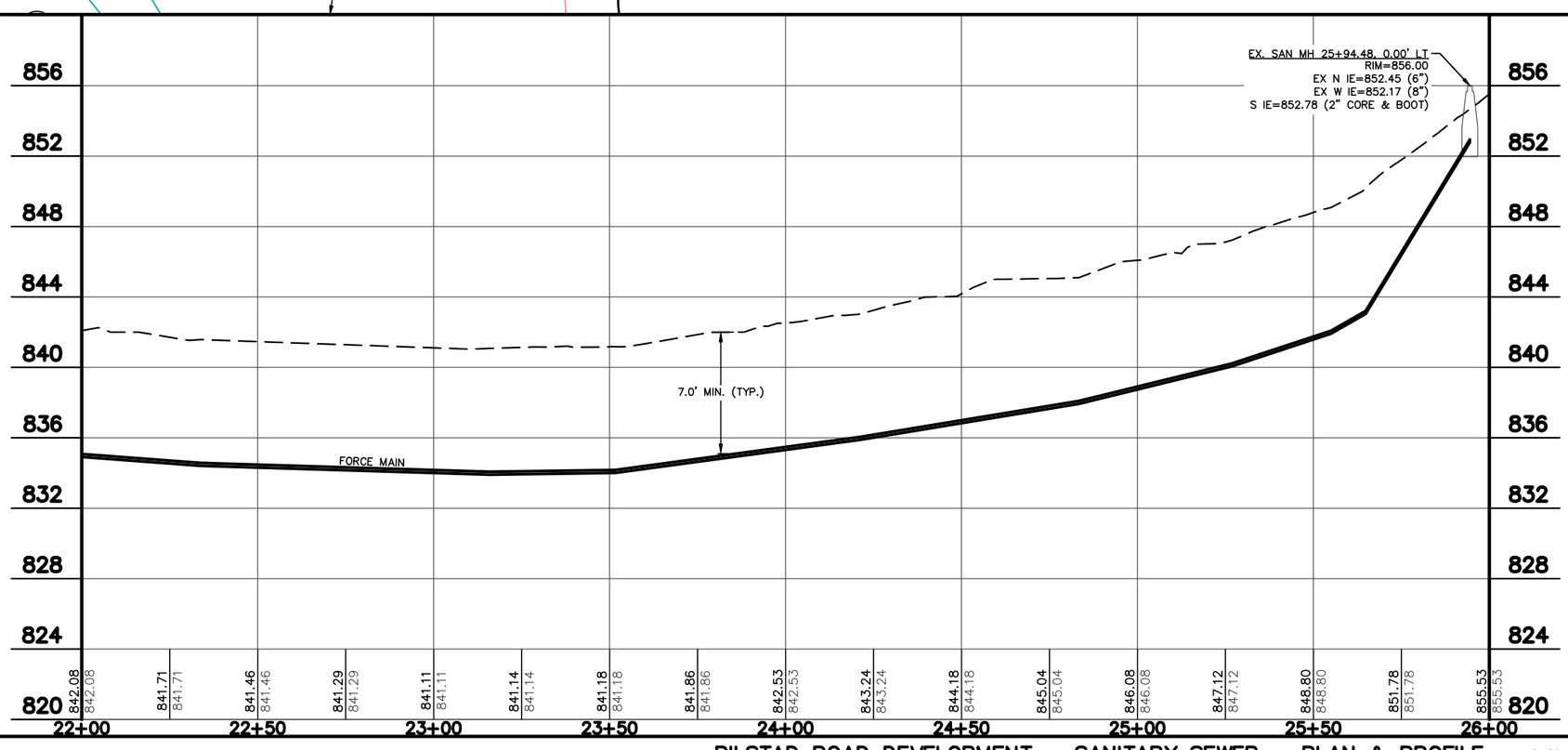
SAN CLEANOUT #1, 18+06.34, 0.00' RT

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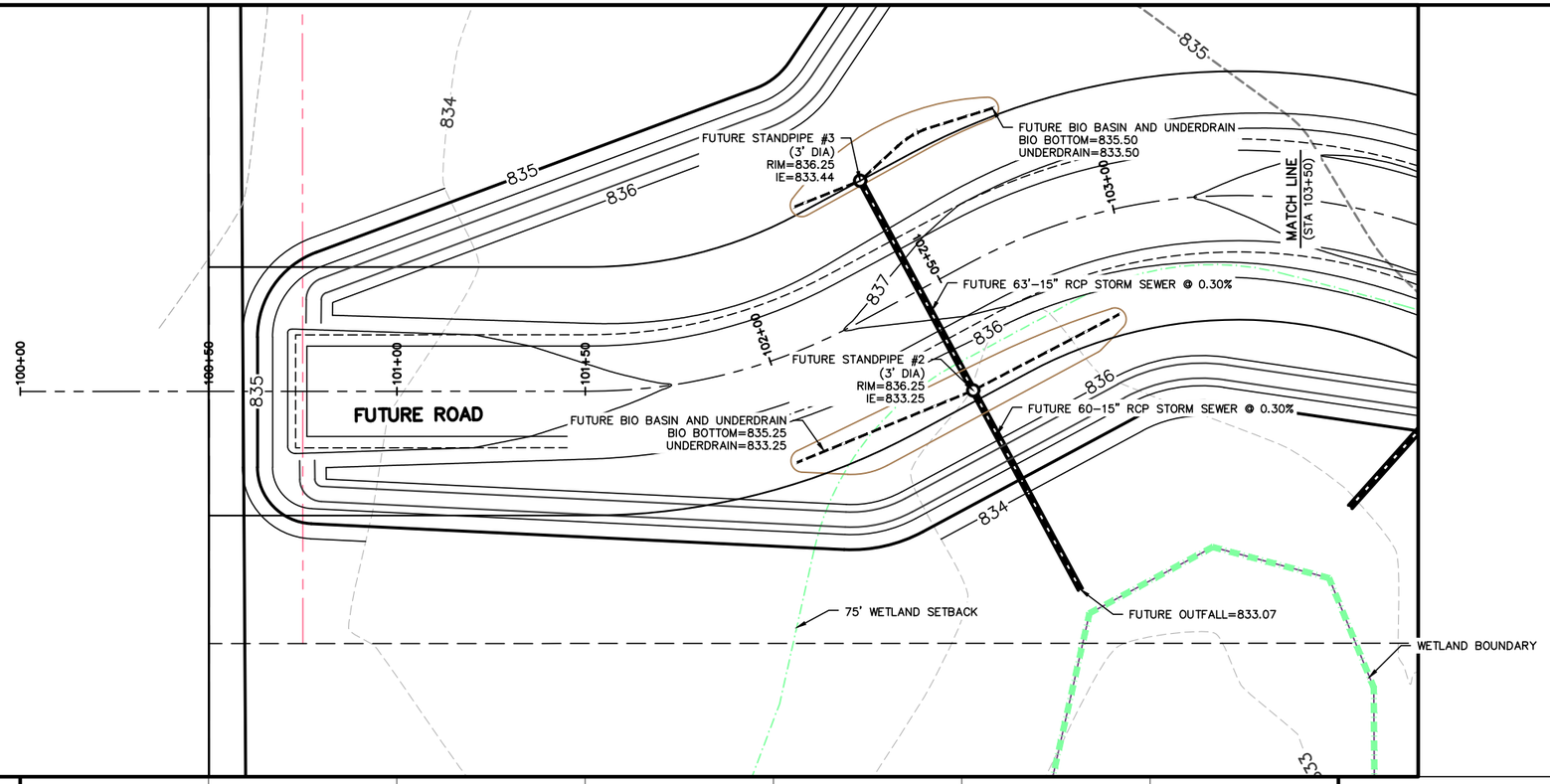
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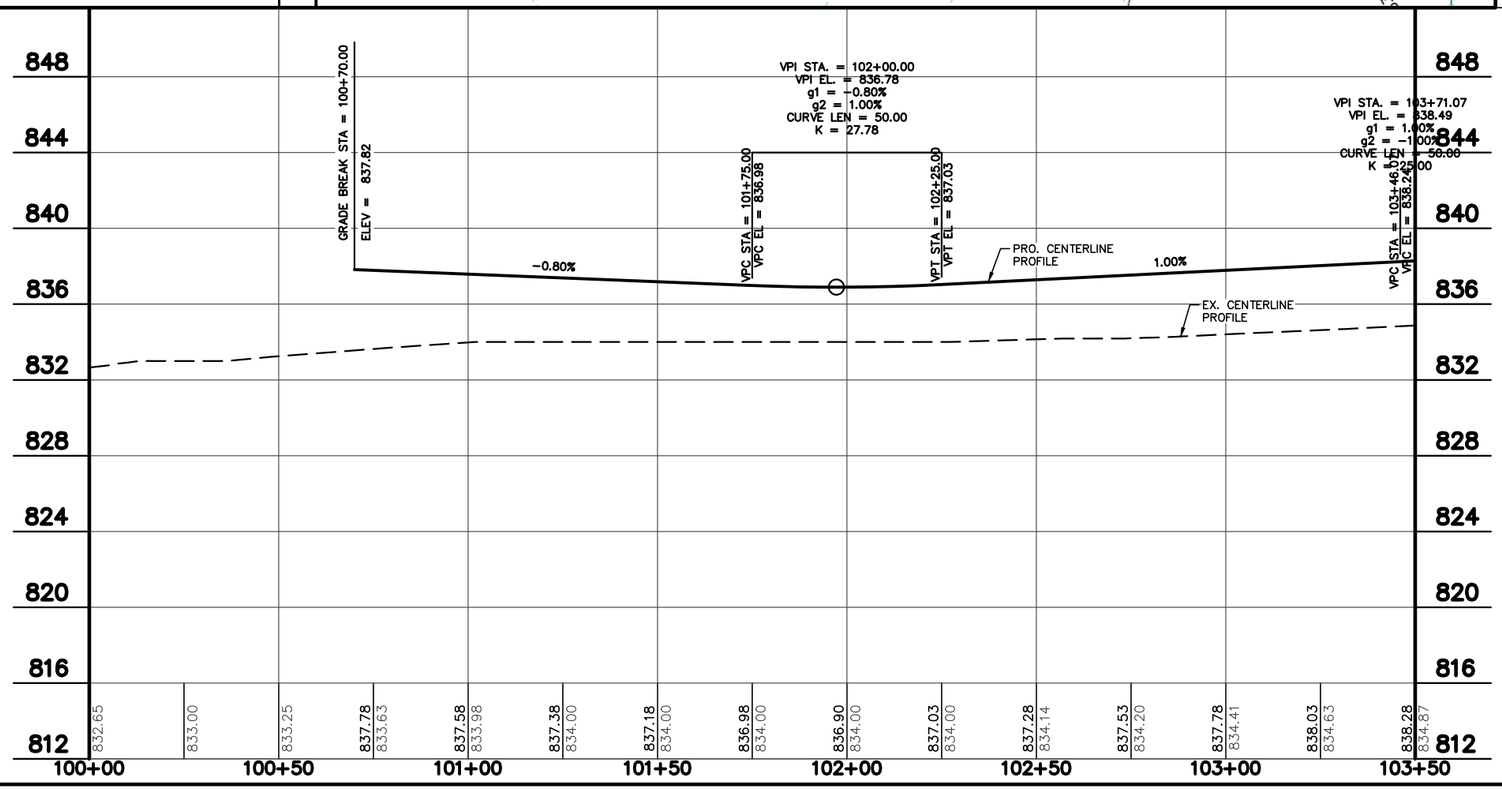
NOTES:
1. FORCEMAIN TO BE INSTALLED WITH TRACER WIRE.





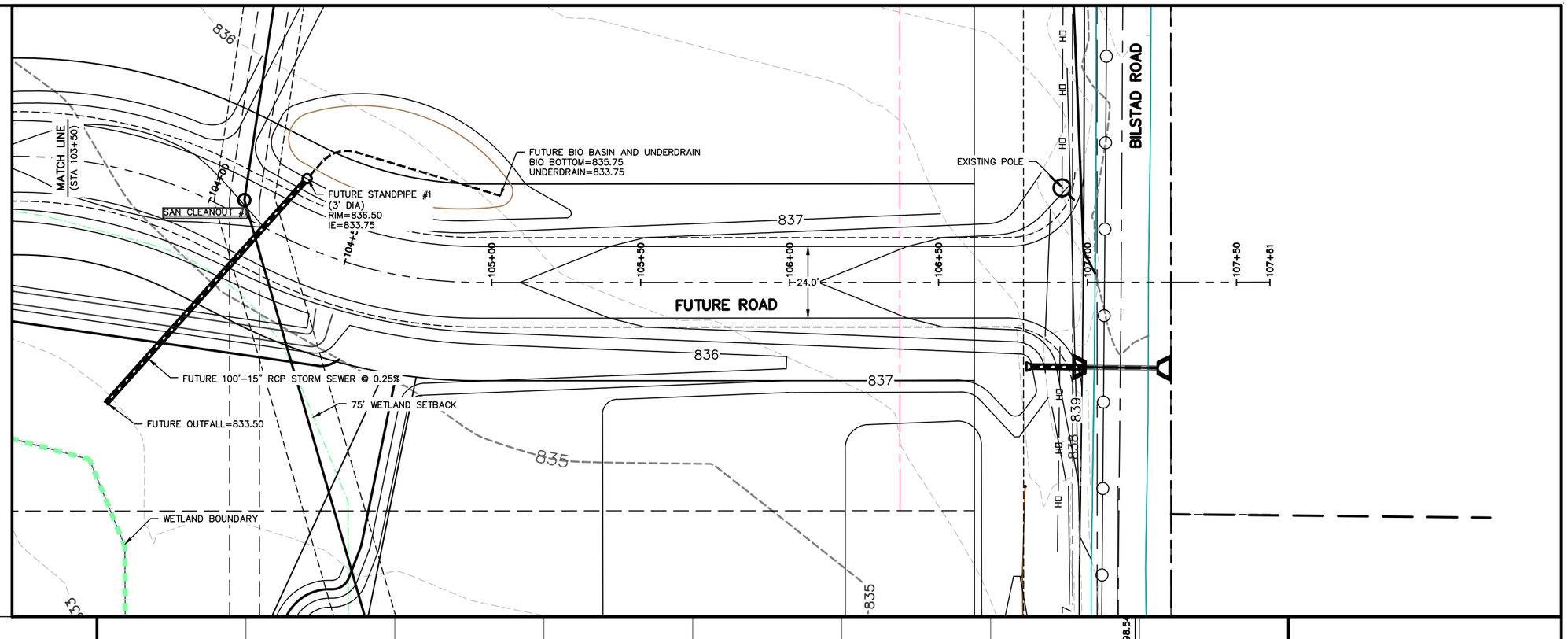
NOTES:
1. FORCEMAIN TO BE INSTALLED WITH TRACER WIRE.



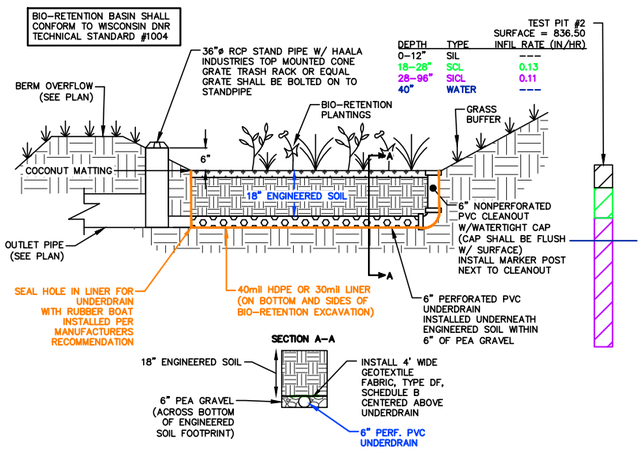


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SEE PLAN VIEW FOR SURFACE ELEVATIONS AND OTHER INFORMATION.

ENGINEERED SOIL SHALL CONSIST OF THE FOLLOWING:
70% SILICA SAND; 30% COMPOST W/ PH 5.5–6.5
COMPOST SHALL MEET WDNR SPECIFICATION S100.

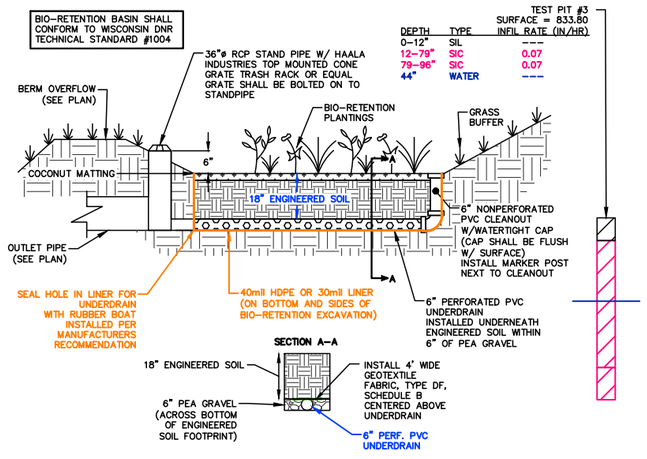
BIO–RETENTION PLANTINGS TO BE PLANTED AT ONE PLUG PER SQUARE FOOT UNLESS SPECIES SELECTED REQUIRES GREATER SPACING. PLUGS TO BE PLANT STOCK NAMED IN THE RAINWATER RENEWAL MIX FROM AGRECOL CORPORATION OR APPROVED EQUIVALENT. A MINIMUM OF 10 DIFFERENT PLANT STOCK NAMES SHALL BE SELECTED.

TO PREVENT COMPACTION OF ENGINEERED SOIL AND SUBSOILS, CONTRACTOR SHALL PROTECT AGAINST MACHINERY ENTERING OR COMPACTING THE BIO–RETENTION AREA.

CONTRACTOR SHALL PROVIDE COPY OF DELIVERY TICKET OR INVOICE FOR ENGINEERED SOIL, 4' WIDE GEOTEXTILE FABRIC, PEA GRAVEL, AND LINER FOR AS–BUILT CERTIFICATION PURPOSES.

CONTRACTOR SHALL PROVIDE PICTURES OF EXCAVATED BASIN PRIOR TO BACKFILLING WITH PEA GRAVEL, AND AGAIN PRIOR TO BACKFILLING WITH ENGINEERED SOIL (SHOWING THE 4' WIDE GEOTEXTILE FABRIC).

BIO–RETENTION BASIN #3 DETAIL



SEE PLAN VIEW FOR SURFACE ELEVATIONS AND OTHER INFORMATION.

ENGINEERED SOIL SHALL CONSIST OF THE FOLLOWING:
70% SILICA SAND; 30% COMPOST W/ PH 5.5–6.5
COMPOST SHALL MEET WDNR SPECIFICATION S100.

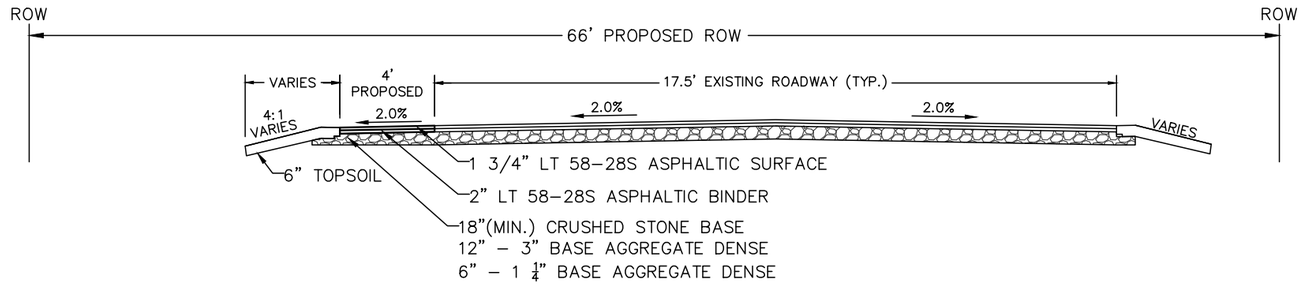
BIO–RETENTION PLANTINGS TO BE PLANTED AT ONE PLUG PER SQUARE FOOT UNLESS SPECIES SELECTED REQUIRES GREATER SPACING. PLUGS TO BE PLANT STOCK NAMED IN THE RAINWATER RENEWAL MIX FROM AGRECOL CORPORATION OR APPROVED EQUIVALENT. A MINIMUM OF 10 DIFFERENT PLANT STOCK NAMES SHALL BE SELECTED.

TO PREVENT COMPACTION OF ENGINEERED SOIL AND SUBSOILS, CONTRACTOR SHALL PROTECT AGAINST MACHINERY ENTERING OR COMPACTING THE BIO–RETENTION AREA.

CONTRACTOR SHALL PROVIDE COPY OF DELIVERY TICKET OR INVOICE FOR ENGINEERED SOIL, 4' WIDE GEOTEXTILE FABRIC, PEA GRAVEL, AND LINER FOR AS–BUILT CERTIFICATION PURPOSES.

CONTRACTOR SHALL PROVIDE PICTURES OF EXCAVATED BASIN PRIOR TO BACKFILLING WITH PEA GRAVEL, AND AGAIN PRIOR TO BACKFILLING WITH ENGINEERED SOIL (SHOWING THE 4' WIDE GEOTEXTILE FABRIC).

BIO–RETENTION BASIN #1 & #2 DETAIL



BILSTAD ROAD IMPROVEMENTS TYPICAL SECTION
(NOT O SCALE)

EROSION CONTROL NOTES:

1. CONSTRUCT AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR AND DANE COUNTY REQUIREMENTS.
2. INSTALL EROSION CONTROL PRACTICES PRIOR TO INITIATING OTHER LAND DISTURBING ACTIVITIES.
3. INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT EXCEEDING 0.5 INCHES WITHIN 24 HOURS. REPAIR TO EROSION CONTROL MEASURES SHALL OCCUR WITHIN 24 HOURS OF INSPECTION.
4. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR OR LANDOWNER UNTIL SITE IS STABILIZED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY REGULATORY AGENTS OR OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
5. INSTALL TRACKING CONTROLS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ADJACENT ROADWAYS. SEDIMENT IN THE ROADWAY SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
6. DIVERT CHANNELIZED RUNOFF FROM ADJACENT LAND AROUND DISTURBED AREAS.
7. INSTALL PERIMETER CONTROL AROUND STOCKPILES AND STABILIZE STOCKPILES THAT WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
8. TEMPORARILY STABILIZE DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS.
9. PERMANENTLY STABILIZE ANY PORTION OF THE SITE WITHIN 7 DAYS OF REACHING FINAL GRADE.
10. INSTALL AND MAINTAIN A CONCRETE WASHOUT. CHUTE WASHWATER MAY NOT BE DUMPED ON THE GROUND.
11. DE–WATERING SHALL CONFORM TO DNR TECHNICAL STANDARD 1061 AND MAY NOT INCREASE EROSION.
12. REMOVE ACCUMULATED SEDIMENT FROM DITCH CHECKS AND STONE WEEPERS WHEN IT REACHES 1/2 OF THE DEVICE HEIGHT.
13. NOTIFY THE DANE COUNTY WATER RESOURCES ENGINEERING DEPARTMENT WITHIN 10 DAYS OF INSTALLING ALL EROSION CONTROL PRACTICES AND UPON SITE STABILIZATION.
14. REMOVE ALL EROSION CONTROL MEASURES ONCE ALL DISTURBED AREAS ARE VEGETATED.

TIME SCHEDULE:

AUG 15, 2026	INSTALL INITIAL EROSION CONTROL DEVICES.
AUG 15 – 19, 2026	INSTALL FORCE MAIN.
AUG 19 – SEPT 10, 2026	ROUGH GRADE SITE.
SEPT 6 – SEPT 10, 2026	RESTORE ALL PERVIOUS DISTURBED AREAS, AND CONSTRUCT THE BIO–BASINS PER DETAILS.

RESTORATION NOTES:

RESTORATION SHALL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL.

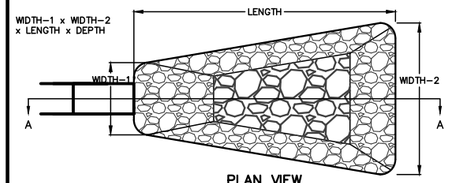
ALL PERVIOUS DISTURBED AREAS SHALL RECEIVE A MINIMUM OF FOUR (4) INCHES OF TOPSOIL, SEED, AND MULCH OR EROSION MAT. EROSION MAT LIMITS ARE SHOWN ON THE GRADING & EROSION CONTROL PLAN. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. THE BIO–RETENTION BASIN SHALL BE RESTORED PER THE BIO–RETENTION BASIN DETAIL. SEED MIXTURE 40 SHALL BE USED ON ALL OTHER DISTURBED AREAS. ALL SEED MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX.

ALL PERVIOUS DISTURBED AREAS SHALL RECEIVE FERTILIZER EXCEPT NATIVE PLANTING AREAS. FERTILIZER SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 8%; POTASH, NOT LESS THAN 8%. FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. SEED MIXTURE 40 SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. MULCH SHALL CONSIST OF HAY OR STRAW APPLIED AT THE RATE OF TWO (2) TONS PER ACRE.

SEEDING FROM SEPTEMBER 16 THROUGH NOVEMBER 15 IS TO BE AVOIDED TO PREVENT FREEZING OF NEW GROWTH. DORMANT SEEDING, IF NECESSARY, SHALL BE COMPLETED AFTER NOVEMBER 15. DORMANT SEEDING SHALL NOT BE APPLIED ON TOP OF SNOW. DISTURBED AREAS SHALL HAVE EROSION MAT APPLIED OVER DORMANT SEEDING. IF DORMANT SEEDING DOES NOT RESULT IN AT LEAST 70% COVER BY MAY 15, ADDITIONAL SEEDING SHALL BE REQUIRED.

OWNER:
COUGHLIN BUILDING CONCEPTS
ATTN: MIKE COUGHLIN
230 BILSTAD ROAD
CAMBRIDGE, WI 53523

ENGINEER:
QUAM ENGINEERING, LLC
ATTN: RYAN QUAM
4604 SIGGELKOW ROAD, SUITE A
MCFARLAND, WI 53558

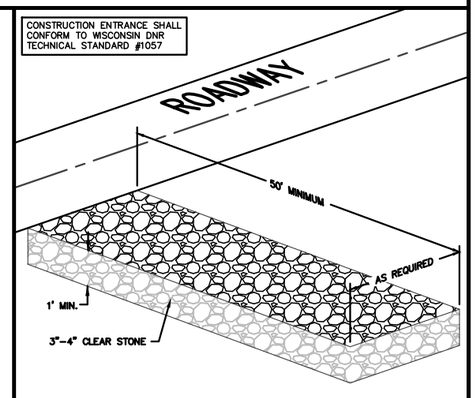


% PASSING BY WEIGHT	SIZE (INCHES)
100	20
50–85	15
20–50	10
5–20	5
0–5	2

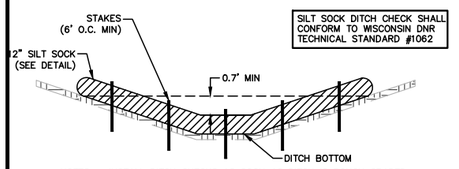
RIPRAP SHALL BE PLACED AS DEFINED IN SECTION 606 OF WISCONSIN D.O.T. SPECIFICATIONS. STONE PIECES SHALL BE WELL GRADED, RANGING IN DIAMETER AS DESCRIBED IN THE ADJACENT CHART.

SIZES CALCULATED IN BEST D.5.2

RIPRAP DETAIL

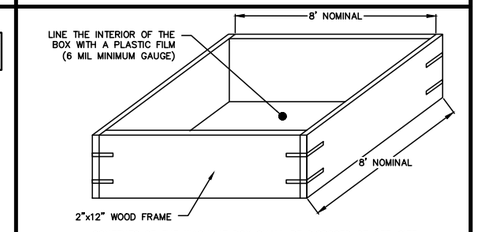


STONE CONSTRUCTION ENTRANCE



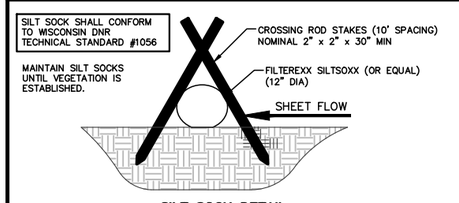
NOTES: INSTALL DITCH CHECKS AS SOON AS DITCH IS ROUGH GRADED
REMOVE DITCH CHECKS DURING PERMANENT SEEDING.
REFER TO THE WISDOT PAL FOR ACCEPTABLE PRODUCTS

TEMPORARY SILT SOCK DITCH CHECK

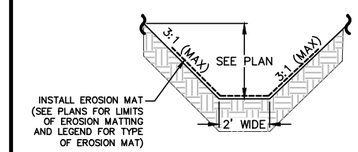


CONTENTS OF THE WASHOUT BOX SHALL BE DISPOSED OF OFF–SITE

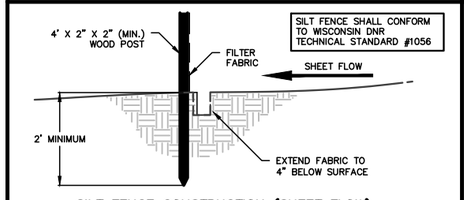
CONCRETE WASHOUT BOX DETAIL



SILT SOCK DETAIL



SWALE CROSS SECTION



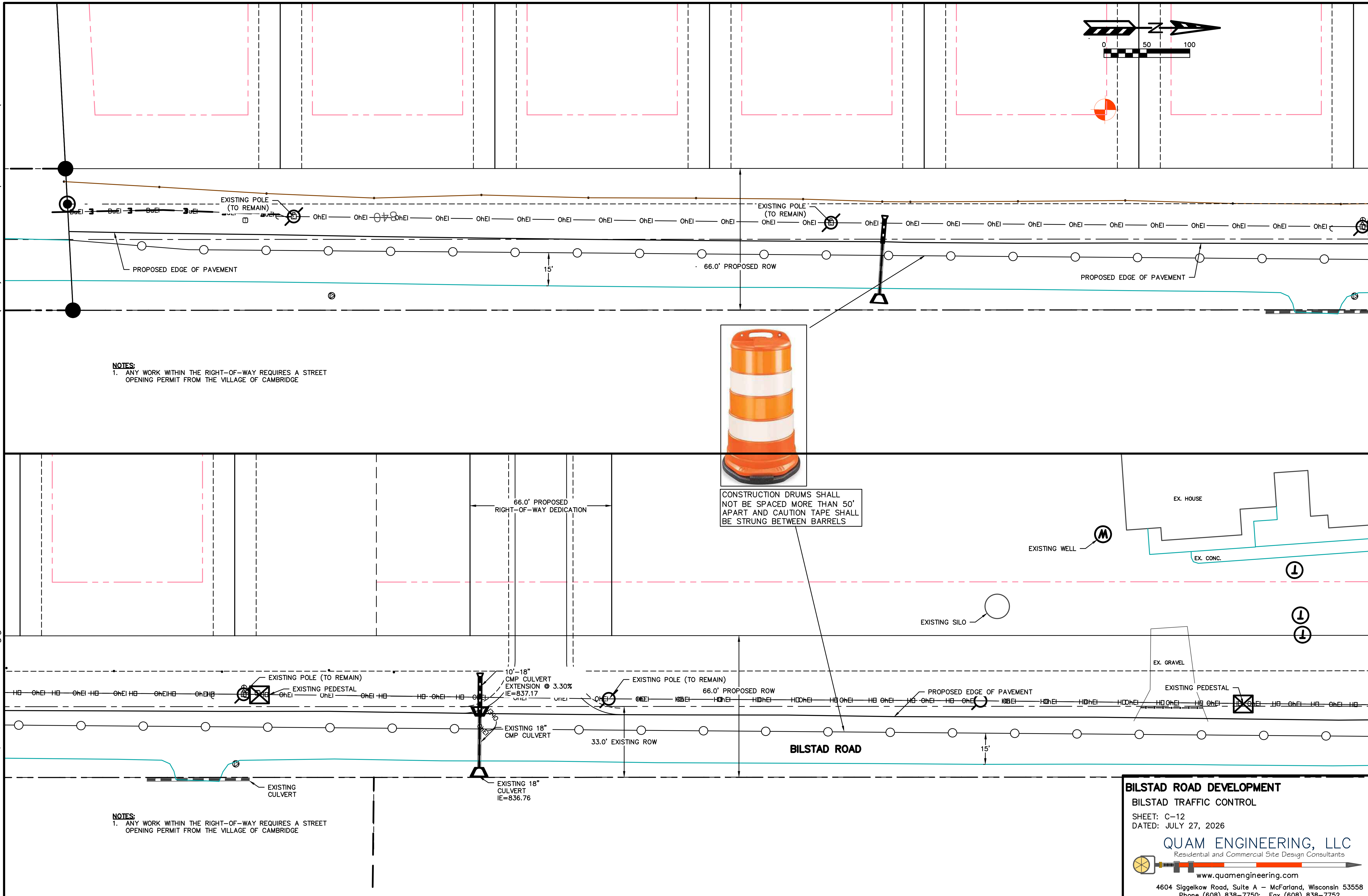
SILT FENCE CONSTRUCTION (SHEET FLOW)

BILSTAD ROAD DEVELOPMENT

CONSTRUCTION DETAILS

SHEET: C–11
DATED: JULY 27, 2026

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Residential and Commercial Site Design Consultants
www.quamengineering.com
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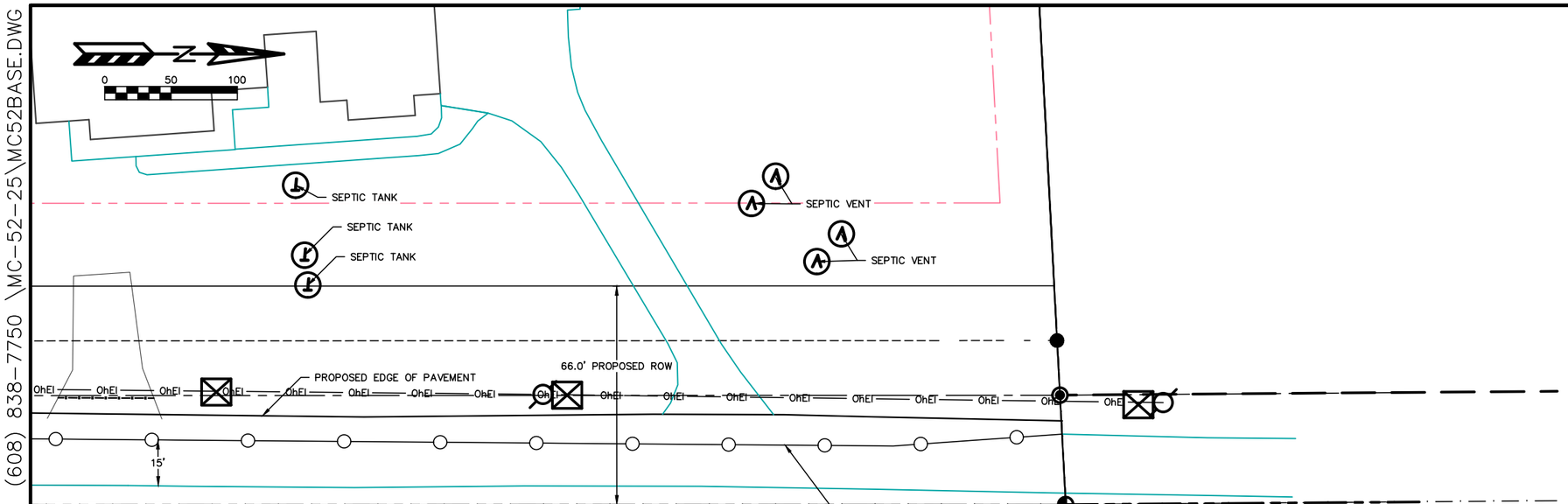
BILSTAD ROAD DEVELOPMENT

BILSTAD TRAFFIC CONTROL

SHEET: C-12
DATED: JULY 27, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
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QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52BASE.DWG



NOTES:
1. ANY WORK WITHIN THE RIGHT-OF-WAY REQUIRES A STREET OPENING PERMIT FROM THE VILLAGE OF CAMBRIDGE



CONSTRUCTION DRUMS SHALL NOT BE SPACED MORE THAN 50' APART AND CAUTION TAPE SHALL BE STRUNG BETWEEN BARRELS

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52BASE.DWG

BILSTAD ROAD DEVELOPMENT

BILSTAD TRAFFIC CONTROL

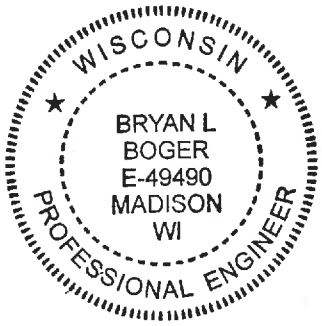
SHEET: C-13
DATED: JULY 27, 2026

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EROSION CONTROL AND STORMWATER MANAGEMENT REPORT

BILSTAD ROAD DEVELOPMENT
VILLAGE OF CAMBRIDGE, DANE COUNTY

July 29, 2026



7/29/2026

PREPARED FOR:
Coughlin Building Concepts
Attn: Mike Coughlin
230 Bilstad Road
Cambridge, WI 53523

PREPARED BY:
Quam Engineering, LLC
4604 Siggelkow Road, Suite A
McFarland, WI 53558

MC-52-25

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Dane County Stormwater Management Application Checklist Comments 13

EXHIBITS

1. Location Map
2. Preliminary Plat
3. Existing Site Plan (Sheet C-1)
4. Grading and Erosion Control Plan (Sheet C-2)
5. Bilstad Improvements (Sheets C-3 – C-5)
6. Future Street Plans (Sheets C-9 – C-10)
7. Construction Details (Sheet C-11)
8. Existing Drainage Plans
9. Proposed Drainage Plans
10. Universal Soil Loss Equation (USLE) Worksheet
11. Riprap Sizing Worksheet
12. Rational Method Worksheet
13. Channel Velocity Worksheet
14. Erosion Mat Design Sheet

APPENDICES

A. Pre-Development HydroCAD Calculations
    a. Phase 1
    b. Ultimate
B. Post-Development HydroCAD Calculations
    a. Phase 1
    b. Ultimate
C. Sediment Control and Infiltration Calculations
D. Soil Information
E. Maintenance Agreement

INTRODUCTION

The proposed development is located on Bilstad Road in the Village of Cambridge, Dane County, Wisconsin. The property is part of a new plat which will separate 230 Bilstad Road from the proposed development as shown in Exhibit 2. The development is in the NE ¼ of the SW ¼ of Section 12, T06N, R12E, as shown on the Location Map included as Exhibit #1. The existing site consists of an empty agricultural field, as shown on Exhibit #3. The proposed project includes constructing seven single-family lots, as shown on Exhibit #4. Additionally, 1300 linear feet of Bilstad Road will be widened by 4 feet to the west. The single-family lots and the Bilstad Road expansion make up phase 1 of this project. The ultimate buildout also includes a 650 linear feet future roadway. Six total bio-retention basins are proposed to address stormwater management standards for the full buildout of the site: three for the residential lots and three future bio-retention basins for the future roadway construction.

In phase 1, 2,979 square feet of the Bilstad Road expansion will flow uncontrolled, while 5,329 square feet of existing road drains to bio-retention basins #1-3. Since the bio-basins will treat a greater amount of existing impervious areas than the proposed impervious area that is uncontrolled, these areas are traded. Therefore, no uncontrolled impervious area is included in phase 1 stormwater models. Like phase 1, the proposed impervious areas that are uncontrolled for the ultimate buildout will total 4,924 square feet, which is less than the 5,329 square feet of existing roadway draining to bio-retention basins #1-3.

The stormwater modeling is designed for the lots to be fully built out with an average of 25% impervious area (based on HydroCAD modeling of half-acre lots) distributed between roof area, paved driveway area, and patio/walkway area. Stormwater modeling is included to show the site meets stormwater management standards after Phase 1 and after the Ultimate buildout.

The proposed project includes land disturbing activity exceeding 4,000 square feet and a cumulative addition of greater than 20,000 square feet of impervious surface for the full build-out of the lots. Therefore, according to Chapter 14 of the Dane County Ordinance, the site requires erosion control and stormwater management permits.

The project also includes land disturbing activity greater than one acre. Therefore, according to NR 216 the site requires a Department of Natural Resources Notice of Intent permit.

The intent of this report is to provide details on how the stormwater will be collected and managed so that it leaves the proposed project site in accordance with applicable erosion control and stormwater standards.

STANDARDS

The stormwater management system for the proposed site will meet the following development performance standards as defined in the Wisconsin Administrative Code NR 151 and Chapter 14 of the Dane County Ordinance:

Erosion Control
The proposed construction shall include erosion control measures to prevent gully and bank erosion and limit total off-site erosion to less than 5.0 tons per acre per year.

Sediment Control
The proposed construction shall include design practices to retain soil particles greater than five microns (80% reduction) on the entire site resulting from the one-year 24-hour storm event.

Oil and Grease Control
The first ½" runoff from commercial or industrial developments shall be treated using oil and grease removal technology.

Runoff Rate Control
All storm water facilities shall be designed, installed and maintained to effectively maintain pre-development peak runoff rates for the 1, 2, 10, 100, and 200 year, 24-hour storm event. The Dane County rainfall values for all storm events are as follows:

Storm Event (Year)	Rainfall Depth (inches)
1	2.49
2	2.84
10	4.09
100	6.66
200	7.53

Outlets
Discharges from the development must have a stable outlet capable of carrying designed flow at a non-erosive velocity.

Infiltration
For residential and non-residential development, design practices to infiltrate sufficient runoff volume so that post-development infiltration volume shall be at least 90 percent of the pre-development infiltration volume, based on average annual rainfall. When designing appropriate infiltration systems, if more than two percent (2%) of the site is required to be used as effective infiltration area, an alternative design to meet or exceed the estimated average annual recharge rate of 7.6 inches/year may be used.

Thermal Control
The stormwater management plan shall include provisions and practices to reduce the temperature of runoff for sites located within the watershed of a river or stream identified by the Wisconsin DNR as a cold water community.

SEDIMENTATION AND EROSION CONTROL MEASURES

Exhibit #4 contains the Grading and Erosion Control Plan. During construction, all sedimentation and erosion control items will be maintained for maximum effectiveness. Sediment trapped by the silt fence or sock will be removed when it reaches a depth of approximately one-half foot.

All pervious disturbed areas will be restored with a minimum of four inches of topsoil, seed, and mulch. Restoration will occur as soon after the disturbance as practical. The bio-retention basin will be restored per the bio-retention basin detail. Seed Mixture 40 will be used on all other pervious disturbed areas. All seed mixtures will be in accordance with Section 630 of D.O.T. Specifications. An equal amount of annual ryegrass will be added to the mix.

All pervious disturbed areas will receive fertilizer except native planting areas. Fertilizer will meet the following minimum requirements: Nitrogen, not less than 16%; Phosphoric Acid, not less than 8%; Potash, not less than 8%. Fertilizer will be applied at the rate of four (4) pounds per 1,000 square feet. The total seed mixtures will be applied at the rate of four (4) pounds per 1,000 square feet. Mulch will consist of straw or hay, applied at a rate of two (2) tons per acre.

Seeding from September 16th through November 15th will be avoided to prevent freezing of new growth. Dormant seeding, if necessary, will be completed after November 15th. Disturbed areas will have erosion matting applied over dormant seeding. Dormant seeding will not be applied on top of snow. If dormant seeding does not result in at least 70% cover by May 15th, additional seeding may be required.

All disturbed areas will be temporarily stabilized within 14 days of last activity. All disturbed areas will be stabilized within 7 days of final grading. Perimeter control will be installed around stockpiles, and stockpiles will be stabilized that will remain inactive for 7 days or longer.

All runoff during construction will be directed to flow through erosion control measures as shown on the Grading and Erosion Control Plan. Exhibit #10 contains the Universal Soil Loss Equation calculation worksheet.

STORMWATER MANAGEMENT MEASURES

Exhibit #4 is the Grading and Erosion Control Plan. The plan shows the stormwater management measures required to meet the standards listed on Page 2 of this report. The standards will be met as follows:

Sediment Control
The proposed bio-retention basins are designed to retain soil particles greater than five microns (80% reduction) on the entire site resulting from the one-year 24-hour storm event.

The sediment control calculations are included in Appendix C.

Oil and Grease Control
The proposed bio-retention basins will provide oil and grease control for this project.

Runoff Rate Control
The proposed bio-retention basins will effectively maintain pre-development peak runoff rates for the 1, 2, 10, 100, and 200 year, 24-hour storm event. The stormwater modeling calculations are included in Appendices A and B of this report. A summary of the results is on page 6.

Outlets
The restored lawn area, bio-retention basins, riprap pads, and swales will provide a stable outlet for the site.

Infiltration
The proposed bio-retention basins provide 90% infiltration. The infiltration calculations are included as Appendix C of this report.

Thermal Control
This site is not located within the watershed of a river or stream identified by the Wisconsin DNR as a cold-water community.

COST ESTIMATE

The following table summarizes the estimated cost of completion and installation of all elements of erosion control and stormwater management for the phase 1 development.

No.	Description	Estimated Quantity	Unit	Unit Price	Amount
1.	Stone Construction Entrance	1	EA	$1,000.00	$1,000.00
2.	Silt Fence or Sock	700	LF	$2.00	$1,400.00
3.	Straw Wattle Ditch Check	7	EA	$40.00	$280.00
4.	Medium Riprap w/ Fabric	14	CY	$25.00	$350.00
5.	Bio-Retention Basin w/ 6” underdrain	5,750	SF	$25.00	$143,750.00
6.	10” HDPE Storm Sewer	100	LF	$15.00	$1,500.00
7.	12” HDPE Storm Sewer	28	LF	$20.00	$560.00
8.	18” CMP Culvert Extensions	33	LF	$30.00	$990.00
9.	3’ Dia Outlet Structure w/ Haala Trash Rack	3	EA	$1,750.00	$5,250.00
10.	Restoration (Seed and WisDOT Class I, Type B, Erosion Mat)	7,000	SY	$1.50	$10,500.00
11.	Restoration (seed and mulch)	16,000	SY	$0.50	$8,000.00
	Total				**$173,580.00**

RESULTS

The following tables summarize the existing and proposed runoff curve numbers used in the rate runoff models and show how the proposed stormwater management practices meet standards for peak flow rates, sediment control, and infiltration.

Runoff Curve Numbers Table				
Runoff Curve Number	Hydrologic Soil Group			
	A	B	C	D
Woodland	30	55	70	77
Grassland	39	61	71	78
Cropland	51	68	78	83
Restored Lawn	39	61	74	80
Pond/Infiltration Area	100			
Impervious	98			

Phase 1 Peak Flow Rate Summary Table			
Storm Event (Year)	Total Existing Flow Rate (cfs)	Total Proposed Flow Rate Without Bio-Basins (cfs)	Total Proposed Flow Rate With Bio-Basins (cfs)
1	5.67	9.26	3.61
2	7.50	11.46	6.26
10	14.82	19.87	14.07
100	31.23	38.24	31.01
200	36.94	44.56	36.94

Phase 1 Sediment Control Summary Table	
Post Construction Sediment Load Generated	1,025 lbs
Calculated Sediment Reduction Goal (80%)	820 lbs
Sediment Load Removed	884.0 lbs

Phase 1 Infiltration Summary Table	
Pre-Development Infiltration Volume	528,432 cf
90% of Pre-Development Infiltration Volume	475,589 cf
Post-Development Infiltration Volume	488,325 cf

Ultimate Peak Flow Rate Summary Table			
Storm Event (Year)	Total Existing Flow Rate (cfs)	Total Proposed Flow Rate Without Bio-Basins (cfs)	Total Proposed Flow Rate With Bio-Basins (cfs)
1	7.54	13.74	4.23
2	10.02	17.01	7.15
10	19.92	29.54	15.97
100	42.62	56.95	40.46
200	50.58	66.39	48.26

Ultimate Sediment Control Summary Table	
Post Construction Sediment Load Generated	2,026 lbs
Calculated Sediment Reduction Goal (80%)	1,620.8 lbs
Sediment Load Removed	1,802.9 lbs

Ultimate Infiltration Summary Table	
Pre-Development Infiltration Volume	693,263 cf
90% of Pre-Development Infiltration Volume	623,937 cf
Post-Development Infiltration Volume	634,188 cf

CONCLUSIONS

Exhibit #10 contains the Universal Soil Loss Equation calculation worksheet. The worksheet indicates soil loss during development of the site will be controlled such that it does not exceed 5.0 tons per acre per year. Therefore, the erosion control measures for the proposed development meet Dane County and DNR standards. In addition, sediment control, oil and grease control, rate runoff control, stable outlet, and infiltration standards are satisfied.

Erosion Control Application Checklist

Project Name: Bilstad Road Development

Applications must include the following materials. The erosion control plan must be designed to meet all standards and requirements presented on the following page.

	Plan Materials	Specific Location of Information
1.	**Narrative describing proposed development**	See Page 1
2.	**Site plan with scale** that includes: property lines, limits of disturbance, land cover limits (existing and proposed), natural and artificial water features, 100-yr floodplain, delineated wetland boundaries, location of all erosion control practices	Exhibit #4
3.	**Construction details of erosion control practices**	Exhibit #7
4.	**Contours (existing and proposed)** Note: Grading within 5' of the property line requires department approval	Exhibits #3 & #4
5.	**Site watershed map** (including runoff draining to site)	Exhibits #8 & #9
6.	**Culvert sizes** (existing and proposed)	Exhibit #4
7.	**Cross sections and profiles of conveyance features** (existing and proposed)	Exhibit #7
8.	**Direction of runoff flow from impervious surfaces**	Exhibit #9
9.	**Design calculations of conveyance features** (velocity and capacity)	Exhibits #11 - #14, App B
10.	**Universal soil loss (USLE) calculations** (corresponding to construction schedule)	Exhibit #10
11.	**Site stabilization materials and methods**	Exhibit #7
	Permit Application Materials	——
12.	**Detailed construction schedule**	Exhibit #7
13.	**Copies of completed applications or approved permits from other regulatory bodies**	See Page 11
14.	**Itemized cost estimate of erosion control plan implementation** (Financial security instrument required if over $10,000)	See Page 5

DANE COUNTY EROSION CONTROL
APPLICATION CHECKLIST COMMENTS

The following comments supplement the Dane County Erosion Control Application Checklist on page 9. Each comment heading relates to an item on the Checklist.

1. Narrative Describing Proposed Development
   See the report introduction on page 1 and the construction schedule on the Construction Details Sheet, Exhibit #7.

2. Site Plan with scale
   The Grading and Erosion Plan, Exhibit #4, shows land cover type, disturbed area limits, and the location of all proposed erosion control practices for the site.

3. Construction Details of Erosion Control Practices
   The details for erosion control practices are shown on the Construction Details Sheets, Exhibit #7.

4. Contours (existing and proposed)
   The existing contours are shown on the Existing Site Plan, Exhibit #3. The proposed contours are shown on the Grading and Erosion Control Plan, Exhibit #4.

5. Watershed Size for Each Drainage Area
   The existing drainage areas are shown on the Existing Drainage Plan, Exhibit #8. The drainage areas for the bio-retention basins are shown on the Proposed Drainage Plan, Exhibit #9.

6. Culvert Sizes
   The culvert sizes are shown on the Grading and Erosion Control Plans, Exhibit #4.

7. Cross Sections and Profiles of Conveyance Features
   Cross sections of the swales are shown on the on the Construction Details Sheet, Exhibit #7.

8. Direction of Flow from Impervious Surfaces
   The direction of flow is shown on the Proposed Drainage Plans, Exhibit #9.

9. Design Calculations for Conveyances Features
   Design calculations for structural measures are shown on the Rational Method Worksheet (Exhibit #12), RipRap Sizing Worksheet (Exhibit #11), Channel Velocity Worksheet (Exhibit #13), Erosion Mat Worksheet (Exhibit #14), and the Post-Development HydroCAD report (Appendix B).

10. Universal Soil Loss Equation (USLE) worksheet(s)
    A Universal Soil Loss Equation worksheet has been prepared and is included as Exhibit #10. The worksheet shows that the expected soil loss is less than 5.0 tons/acre/year for each element of the Erosion Control Plan.

11. Site Stabilization Materials and Methods

All pervious disturbed areas will be restored with a minimum of four inches of topsoil, seed, and mulch. Restoration will occur as soon after the disturbance as practical. The bio-retention basin will be restored per the bio-retention basin detail. Seed Mixture 40 will be used on all pervious disturbed areas. All seed mixtures will be in accordance with Section 630 of D.O.T. Specifications. An equal amount of annual ryegrass will be added to the mix.

All pervious disturbed areas will receive fertilizer except native planting areas. Fertilizer will meet the following minimum requirements: Nitrogen, not less than 16%; Phosphoric Acid, not less than 8%; Potash, not less than 8%. Fertilizer will be applied at the rate of four (4) pounds per 1,000 square feet. The total seed mixtures will be applied at the rate of four (4) pounds per 1,000 square feet. Mulch will consist of straw or hay, applied at a rate of two (2) tons per acre.

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All disturbed areas will be temporarily stabilized within 14 days of last activity. All disturbed areas will be stabilized within 7 days of final grading. Perimeter control will be installed around stockpiles, and stockpiles will be stabilized that will remain inactive for 7 days or longer.

12. Timetable and Construction Schedule

The construction schedule is included on the Construction Details Sheet, Exhibit #7. All erosion control measures will be installed prior to land disturbance.

13. Copy of Permits or Approvals by Other Agencies

A copy of this report will be submitted to the DNR for a DNR NOI and to the Town.

14. Itemized Estimated Cost for All Elements of the Erosion Control Plan

The itemized estimated cost, including labor, for installation of all elements of the erosion control plan is included on Page 5 of this report. If the estimated cost of the stormwater and erosion control measures is over $10,000, a financial security instrument will be provided upon approval of this report.

Stormwater Management Application Checklist

Project Name: Bilstad Road Development

Applications must include the following materials. The stormwater management plan must be designed to meet all standards and requirements presented on the following page.

As-built certification, prepared by a professional engineer as required by Ch.14.10(5)(e) must be submitted upon completion of all permitted activity.

Plan Materials	Specific Location of Information
1. **Narrative describing proposed development and how standards are being achieved** (redevelopment must meet green infrastructure requirements of sec. 14.12(2)(a)a.)	See Page 1
2. **Summary table of existing and proposed land cover types with respective areas**	Appendices A & B
3. **Summary tables of peak rate, infiltration and sediment control modeling** (see table requirements on next page)	See Pages 6-7
4. **Detailed model inputs and results**	Appendices A - C
5. **Site watershed map with Tc flow paths** (Including runoff draining to site)	Exhibit #8
6. **Site plan** (see detailed requirements on next page)	Exhibits #4-7
7. **Engineered designs of management practices**	Exhibits #11 - #14, App B
8. **Soils Information** (see detailed requirements on next page)	Appendix D
Permit Application Materials	——
9. **Detailed construction schedule**	Exhibit #7
10. **Draft maintenance agreement**	Appendix E
11. **Itemized cost estimate of stormwater management plan implementation** (Financial security instrument required if over $10,000)	See Page 5
12. **Copies of applications or permits from other regulatory bodies**	See Page 13

DANE COUNTY STORMWATER MANAGEMENT
APPLICATION CHECKLIST COMMENTS

The following comments supplement the Dane County Stormwater Management Application Checklist on page 12. Each comment heading relates to an item on the Checklist.

1. Narrative Description of the Project
   See the report introduction on page 1.

2. Summary Table of Existing and Proposed Land Cover Types with Respective Areas
   The existing land cover summary is shown in the Pre-Development HydroCAD report, Appendix A and the proposed land cover summary is shown in the Post-Development HydroCAD Report, Appendix B

3. Summary Table of Peak Rate, Infiltration, and Sediment Control Modeling
   The peak rate, infiltration, and sediment control modeling results are shown on page 6.

4. Detailed Modeling Inputs and Results
   Modeling inputs and results are shown in the Pre-Development HydroCAD Results (Appendix A), the Post-Development HydroCAD Results (Appendix B), and the Sediment Control and Infiltration Calculations (Appendix C).

5. Site Watershed Map with Tc Flow Paths
   The watershed map with Tc flow paths are shown on the Proposed Drainage Plan, Exhibit #8.

6. Site Plan
   The plans and specifications are included on Exhibits #4 - 7.

7. Engineered Design for Structural Management Practices
   Design calculations for structural measures are shown on the Rational Method Worksheet, Exhibit #12, RipRap Sizing Worksheet, Exhibit #11, Channel Velocity Worksheet, Exhibit #13, Erosion Mat Worksheet, Exhibit #14, and the Post-Development HydroCAD report, Appendix B.

8. Soils Information
   Soils Information is included as Appendix D.

9. Detailed Construction Schedule
   The construction schedule is shown on the Construction Details Sheet, Exhibit #7. All erosion control measures will be installed prior to land disturbance.

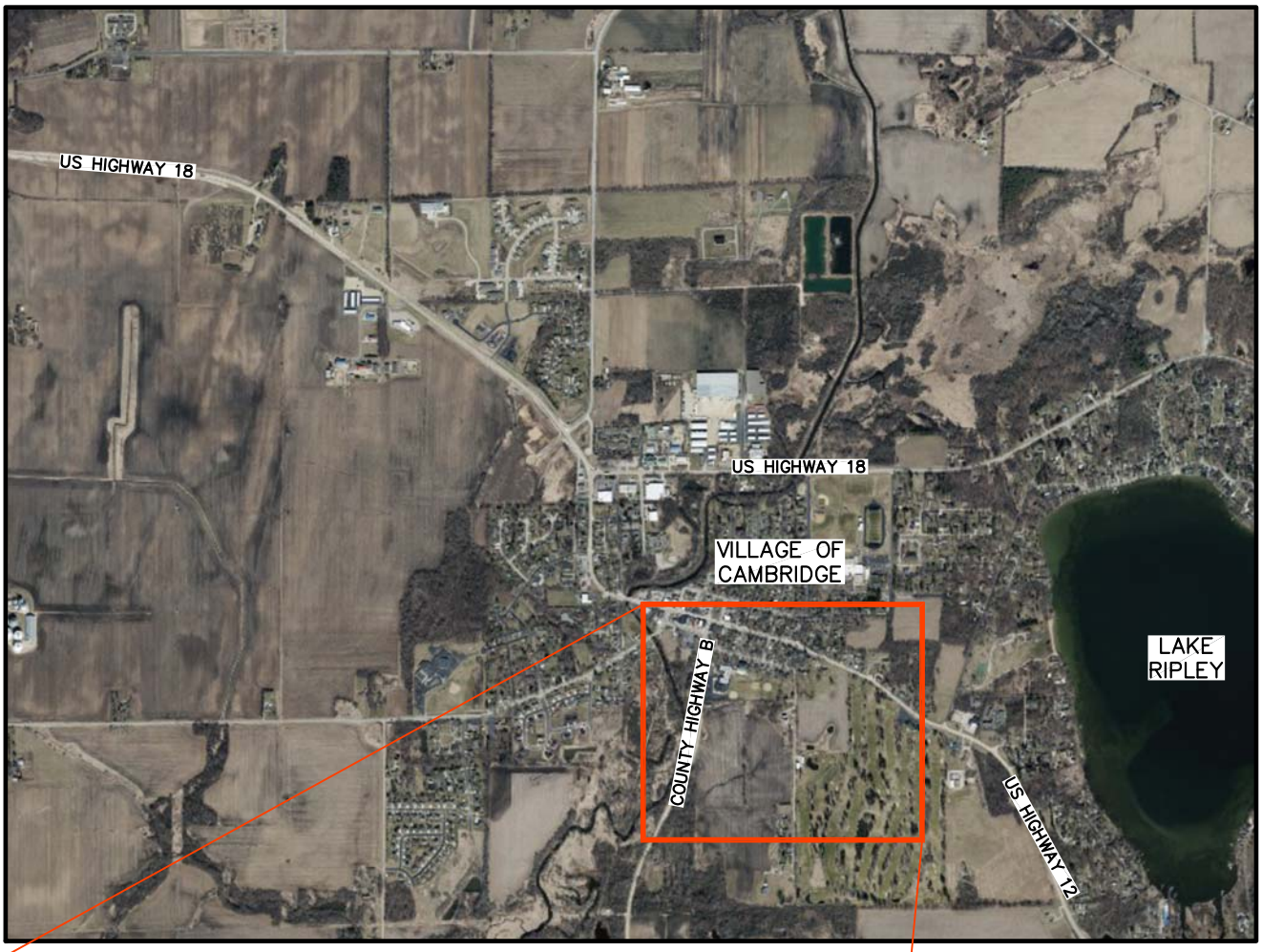
10. Draft Maintenance Agreement
    The maintenance agreement for all permanent stormwater management practices is included as Appendix E.

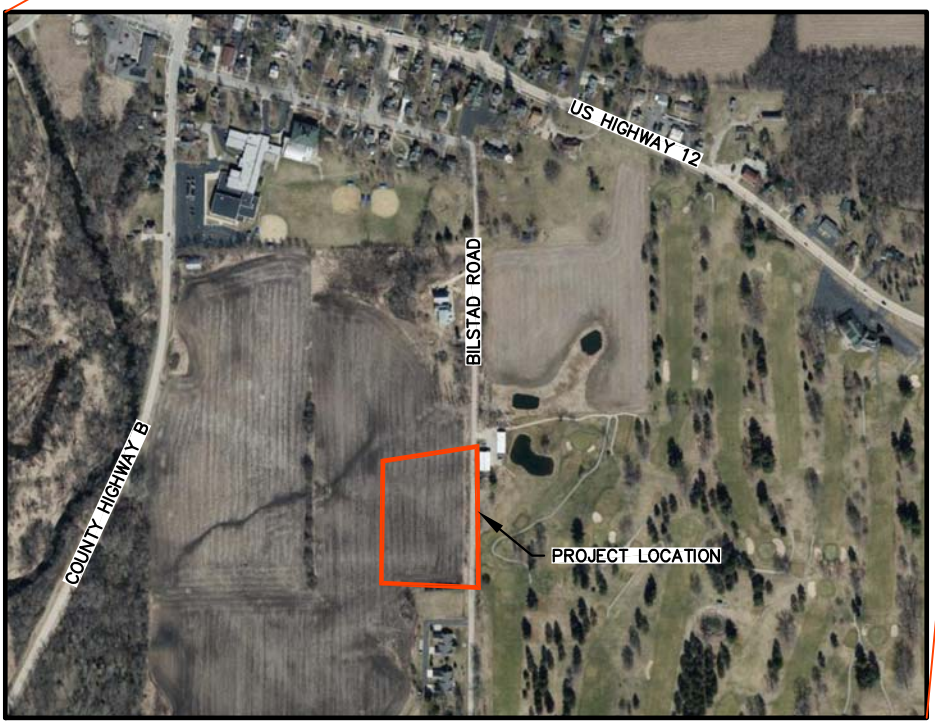
11. Itemized Cost Estimate for Stormwater Plan Implementation
    The itemized estimated cost for installation of all elements of the stormwater plan can be viewed on Page 5 of this report. If the estimated cost of the mitigation and erosion control measures is over $10,000, financial surety will be provided upon approval of this report.

12. Copies of Permits or Approvals from Other Regulatory Bodies
    A copy of this report will be submitted to the DNR for a DNR NOI.

EXHIBITS

LOCATION MAP
EXHIBIT #1





N

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A, McFarland, WI 53558 (608) 838-7750

Palmer Meadows

Outlot 90 of Revised and Consolidated Assessor's Plat of Cambridge, Located in the Northeast 1/4 of the Southeast 1/4 of Section 12, T6N, R12E, Village of Cambridge, Dane County, Wisconsin.

0 60 120

Scale: 1"= 60'

There are no objections to this plat with respect to Secs. 236.15, 236.16, 236.20 and 236.21(1) and (2), Wis. Stats. as provided by s. 236.12, Wis. Stats.

Certified _____, 20____

Department of Administration

Notes

1) This survey is subject to any and all agreements and easements of record and those that may have not been recorded.

2) Before any digging, boring, construction, etc., is done on or near the lands in this subdivision, Diggers Hotline shall be called at 1-800-242-8511 for the safety and liability purposes for all involved.

3) Wetlands delineation per report prepared by Heartland Ecological Group INC., Project Number: 20251714, dated June 10, 2026.

4) Lots 2-8 to be served by its own grinder pump system. These lots will convey the proposed waste water via shared 2-inch force main to the public manhole.

5) All underground utilities to be served via public utilites in Bilstad Road Right-of-way.

6) Outlot 1 to be maintained by the owners of Lots 1-8.

Surveyor's Certificate:

I, Chris K. Casson, Professional Land Surveyor S-3264, do hereby certify that in full compliance with the provisions of Chapter 236 of the Wisconsin Statutes and the Village of Cambridge Code of Ordinances, and under the direction of the owners listed hereon, I have surveyed, divided and mapped Palmer Meadows and that such plat correctly represents all exterior boundaries and the subdivision of the land surveyed and is a parcel of land as described below:

Outlot 90 of Revised and Consolidated Assessor's Plat of Cambridge, Located in the Northeast 1/4 of the Southeast 1/4 of Section 12, T6N, R12E, Village of Cambridge, Dane County, Wisconsin.

_____
Chris K. Casson, PLS No. 3264

Dane County Register of Deeds Certificate:

Received for recording this _____ day of _____,

2026, at _____ O'clock, __M. and recorded in Vol. _____

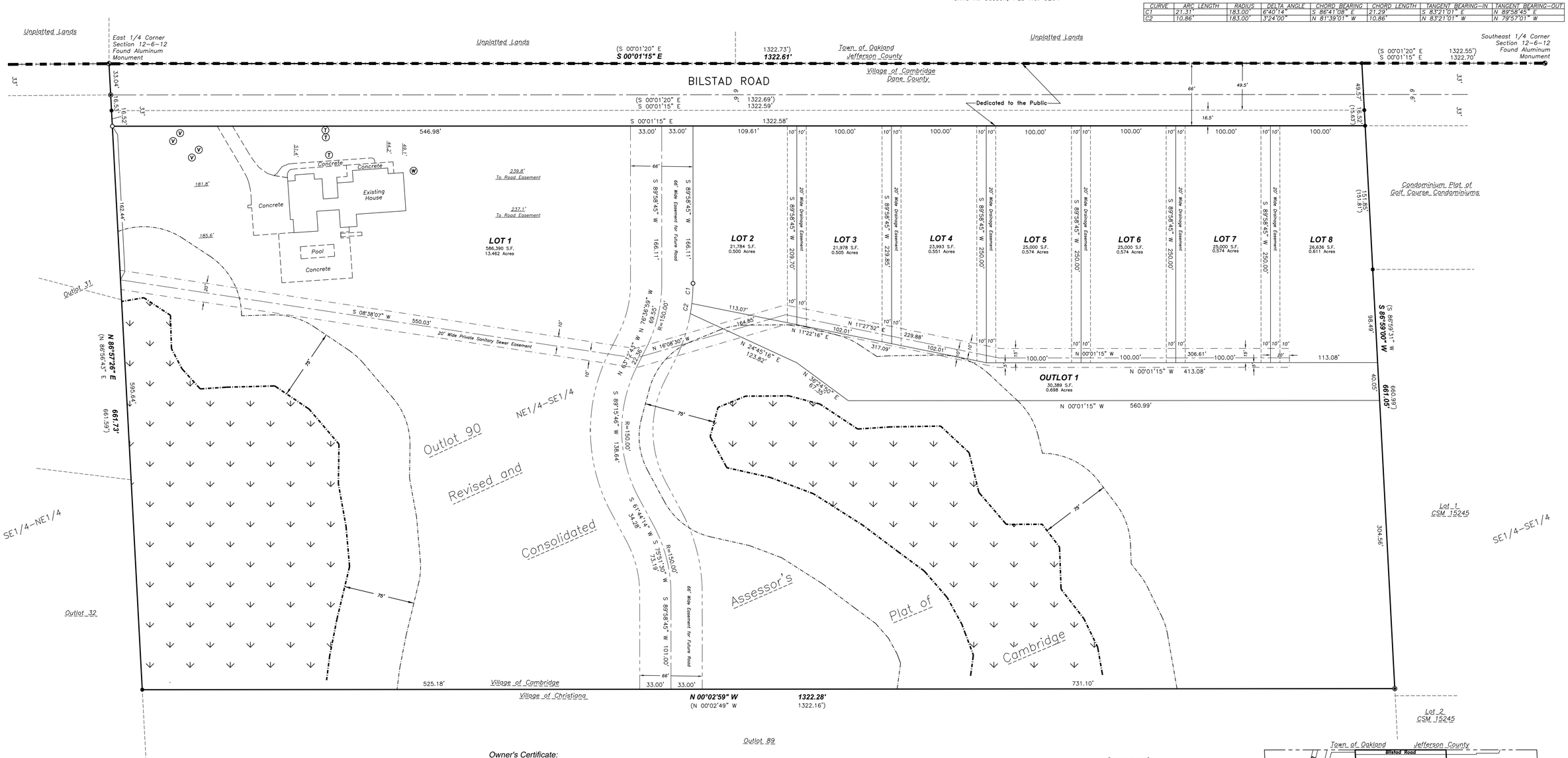
of Plats on Page _____ as Document No. _____.

_____ Date: _____

Kristi Chlebowski, Register of Deeds
County of Dane

Curve Table

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH	TANGENT BEARING-IN	TANGENT BEARING-OUT
C1	21.31'	183.00'	6°40'14"	S 86°41'08" E	21.29'	S 83°21'01" E	N 89°58'45" E
C2	10.86'	183.00'	3°24'00"	N 81°39'01" W	10.86'	N 83°21'01" W	N 79°57'01" W



Bearings referenced to the East line of the Southeast 1/4 of Section 12, bearing S00°01'15"E

L:\2026\260189-Coughlin-Bilstad\260189_FinalPlatv3
J:\2026\Carlson\260189

Office Map No. 260189

BIRRENKOTT SURVEYING

BIRRENKOTT SURVEYING
1677 N. BRISTOL STREET
SUN PRAIRIE, WIS. 53590
608-837-7463

PREPARED FOR:
Coughlin Building Concepts
230 Bilstad Road
Cambridge, WI 53523
608-598-0639

Village of Cambridge Certificate:

Resolved that the plat of Palmer Meadows, being a subdivision located in the Northeast ¼ of the Southeast ¼ of Section 12, T6N, R12E, Village of Cambridge, Dane County, Wisconsin, and that said resolution further provided for acceptance of those lands and rights dedicated by said Palmer Meadows to the Village of Cambridge for public use.

I, Brian Wilson, do hereby certify that I am the duly appointed, qualified and acting Village Clerk of the Village of Cambridge and this plat was approved by the Village Board of the Village of Cambridge, Dane County, Wisconsin, and do further certify that the foregoing is a true copy of the resolution to that effect adopted by said Village Board on the _____ day of _____, 2026.

_____ _____
Brian Wilson, Clerk Date
Village of Cambridge

Owner's Certificate:

Michael Coughlin, as owner, hereby certify that I have caused the land described on this plat of Palmer Meadows to be surveyed, divided, mapped and dedicated as represented hereon. I also certify that this plat is required by S. 236.10 and S. 236.12 to be submitted to the following agencies for approval or objection:

Department of Administration
Village Board, Village of Cambridge

In witness hereof, Michael Coughlin, members, have caused these presents to be executed this _____ day of _____, 2026

_____
Michael Coughlin, Owner

State of Wisconsin)
County of Dane) ss

Personally came before me this _____ day of _____, 2026, the above-named Michael Coughlin, to me known to be the persons who executed the foregoing instrument and acknowledged the same.

_____
Notary Public, Dane County, State of Wisconsin

_____ My commission expires_____
(printed name)

County Treasurer's Certificate:

I, Adam Gallagher, being the duly elected, qualified and acting Treasurer for the County of Dane, hereby certify that in accordance with the records in my office, there are no unpaid taxes and no unpaid special assessments as of _____ affecting any of the lands included in the plat of Palmer Meadows

_____ Date: _____
Adam Gallagher, Treasurer
County of Dane

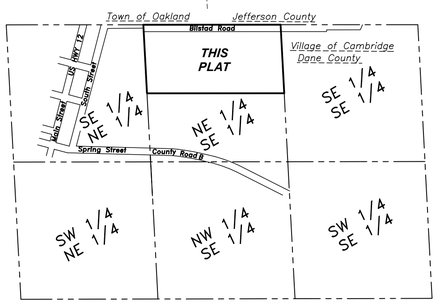
Village Treasurer's Certificate:

I, Brian Wilson, being the duly elected, qualified and acting Treasurer for the Village of Cambridge, hereby certify that in accordance with the records in my office, there are no unpaid taxes and no unpaid special assessments as of _____ affecting any of the lands included in the plat of Palmer Meadows

_____ Date: _____
Brian Wilson, Treasurer
Village of Cambridge

Legend:

- ◔ = Section Corner
- ● = Found 3/4" Iron Bar
- ◉ = Found 1" Iron Pipe
- ○ = 1¼" x 18" Iron Rebar Set, Weight = 4.303 Lbs/Ft
  All other Lot and Outlot corners are marked with a ¾"x18" Rebar weighing 1.502 lbs./lin. ft.
- ( ) = Recorded as data
- Ⓦ = Well
- Ⓣ = Septic Tank
- Ⓥ = Septic Vent
- Wetland Boundary
- 75' = 75' Wetland buffer



LOCATION SKETCH
Section 12, T6N, R12E
Village of Cambridge
NOT TO SCALE

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52BASE.DWG

75' WETLAND SETBACK

EXISTING DELINEATED WETLAND

75' WETLAND SETBACK

EXISTING DELINEATED WETLAND

LOT 1
R-M

15.0'

TEST PIT #2
EL=836.5

USLE SLOPE LINE
(350' @ 1.5%)

TEST PIT #3
EL=833.8

TEST PIT #4
EL=833.0

TEST PIT #1
EL=836.0

EX. WALL

EX. CONCRETE

EX. POOL

EX. WALLS

EX. CONCRETE
DRIVEWAY

EX.
HOUSE

EX.
GARAGE

EX. CONCRETE
SIDEWALK

SEPTIC TANK

SEPTIC VENT

EX.
SILO

EX. SAN MH
RIM=856.00
6" NORTH IE=852.45
8" WEST IE=852.17

OHEL

150'

33' EX. ROW

BILSTAD ROAD

18" CMP CULVERT
W IE=835.94
E IE=836.02

18" CMP CULVERT
W IE=836.84
E IE=836.76

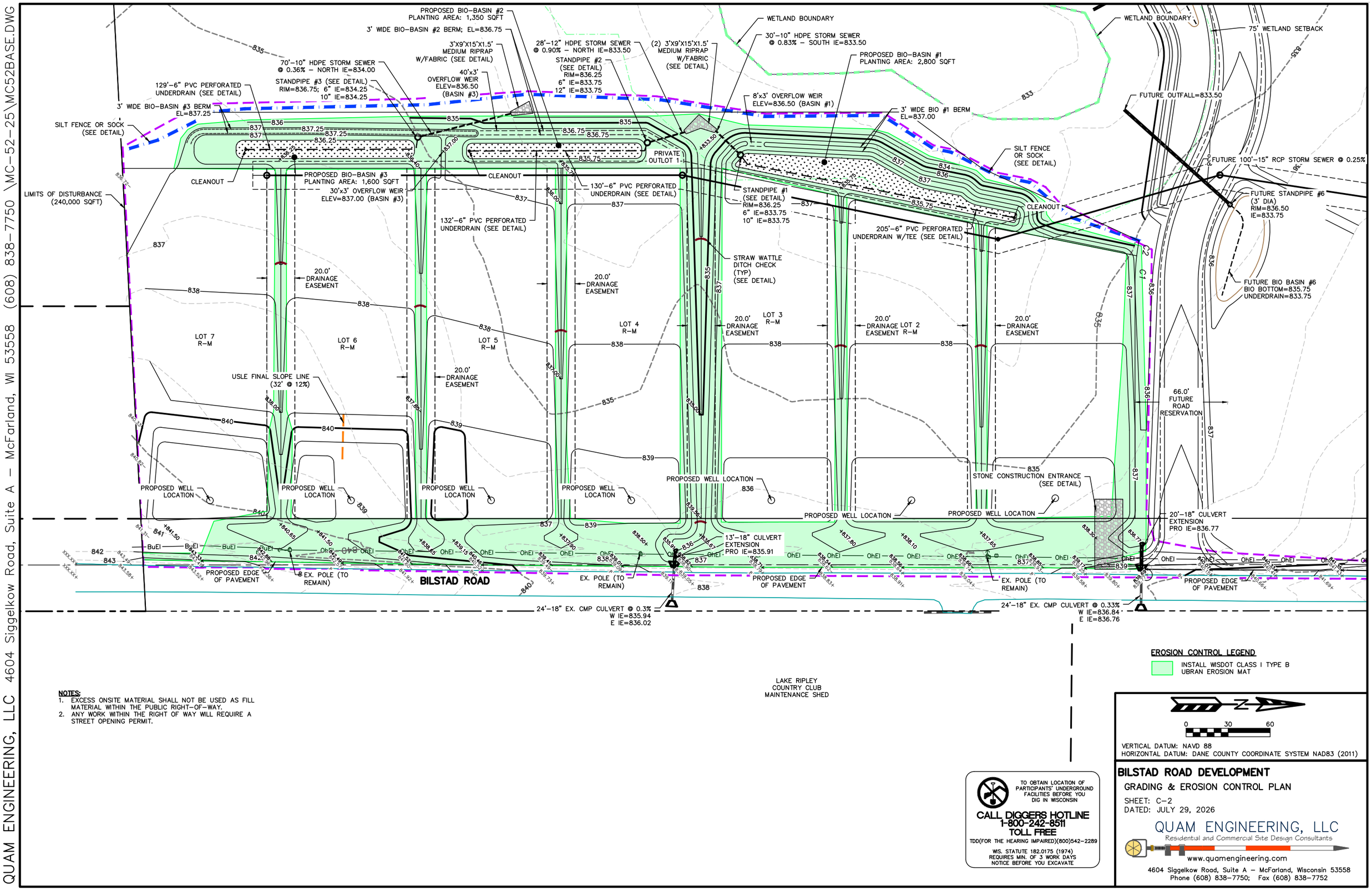
0 50 100

BILSTAD ROAD DEVELOPMENT

EXISTING SITE PLAN

SHEET: C-1
DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752



NOTES:
1. EXCESS ONSITE MATERIAL SHALL NOT BE USED AS FILL MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
2. ANY WORK WITHIN THE RIGHT OF WAY WILL REQUIRE A STREET OPENING PERMIT.

EROSION CONTROL LEGEND

INSTALL WISDOT CLASS I TYPE B UBRAN EROSION MAT

0 30 60

VERTICAL DATUM: NAVD 88
HORIZONTAL DATUM: DANE COUNTY COORDINATE SYSTEM NAD83 (2011)

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

TDD(FOR THE HEARING IMPAIRED)(800)542-2289

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

BILSTAD ROAD DEVELOPMENT

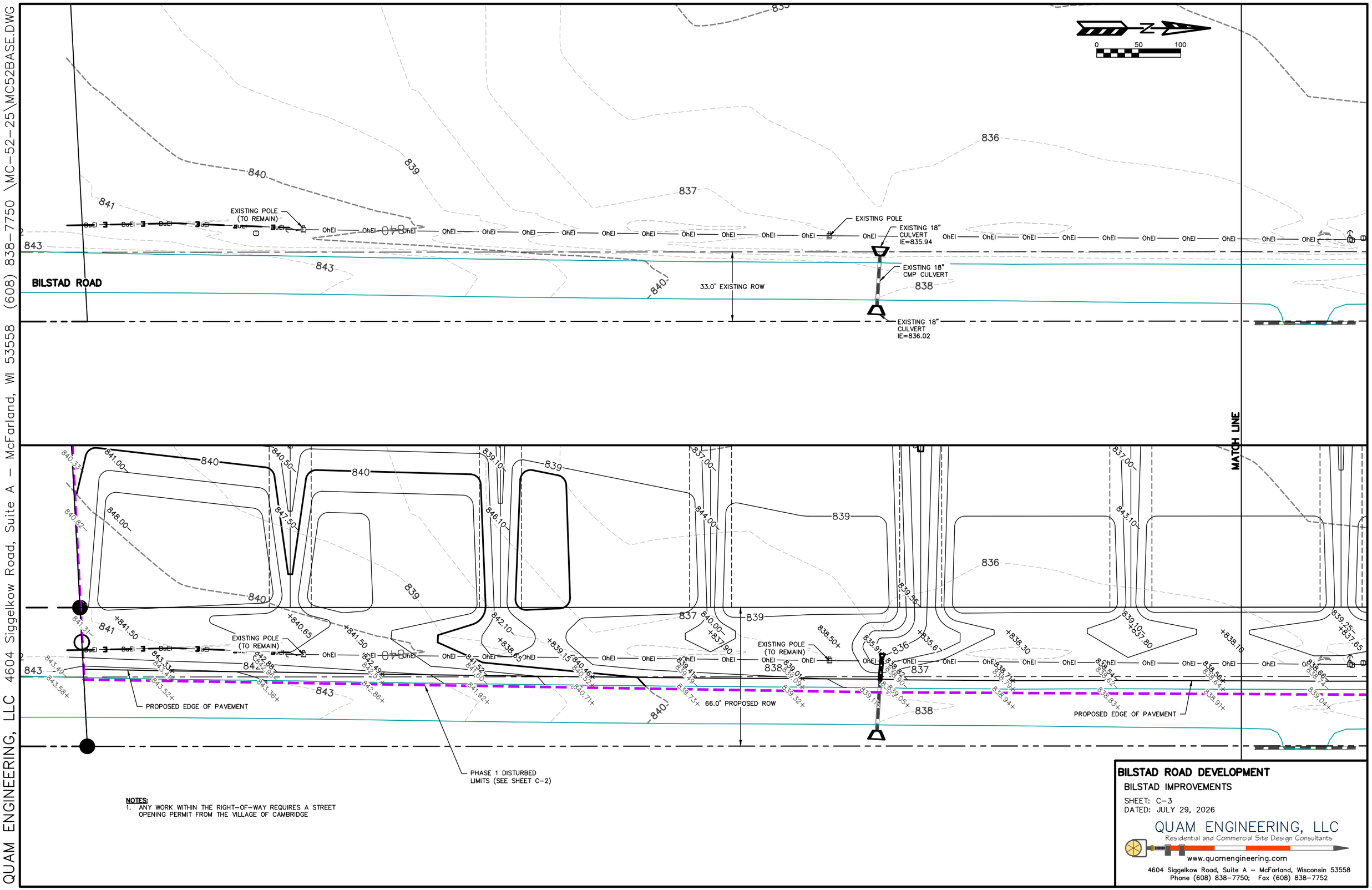
GRADING & EROSION CONTROL PLAN

SHEET: C-2
DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A - McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A - McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52BASE.DWG

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52BASE.DWG



NOTES:
1. ANY WORK WITHIN THE RIGHT-OF-WAY REQUIRES A STREET OPENING PERMIT FROM THE VILLAGE OF CAMBRIDGE

BILSTAD ROAD DEVELOPMENT

BILSTAD IMPROVEMENTS

SHEET: C-3
DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838–7750 \MC–52–25\MC52BASE.DWG

MATCH LINE

MATCH LINE

835

837

838

839

840

845

850

EX. HOUSE

EX. CONC.

EXISTING WELL

EXISTING SILO

EX. GRAVEL

EXISTING POLE

EXISTING PEDESTAL

EXISTING 18" CULVERT IE=836.84

EXISTING 18" CMP CULVERT

EXISTING 18" CULVERT IE=836.76

EXISTING CULVERT

33.0' EXISTING ROW

BILSTAD ROAD

OhEl

0 50 100

66.0' PROPOSED RIGHT–OF–WAY DEDICATION

10'–18" CMP CULVERT EXTENSION @ 3.30% IE=837.17

EXISTING POLE (TO REMAIN)

66.0' PROPOSED ROW

PROPOSED EDGE OF PAVEMENT

PHASE 1 DISTURBED LIMITS (SEE SHEET C–2)

NOTES:

1. ANY WORK WITHIN THE RIGHT–OF–WAY REQUIRES A STREET OPENING PERMIT FROM THE VILLAGE OF CAMBRIDGE

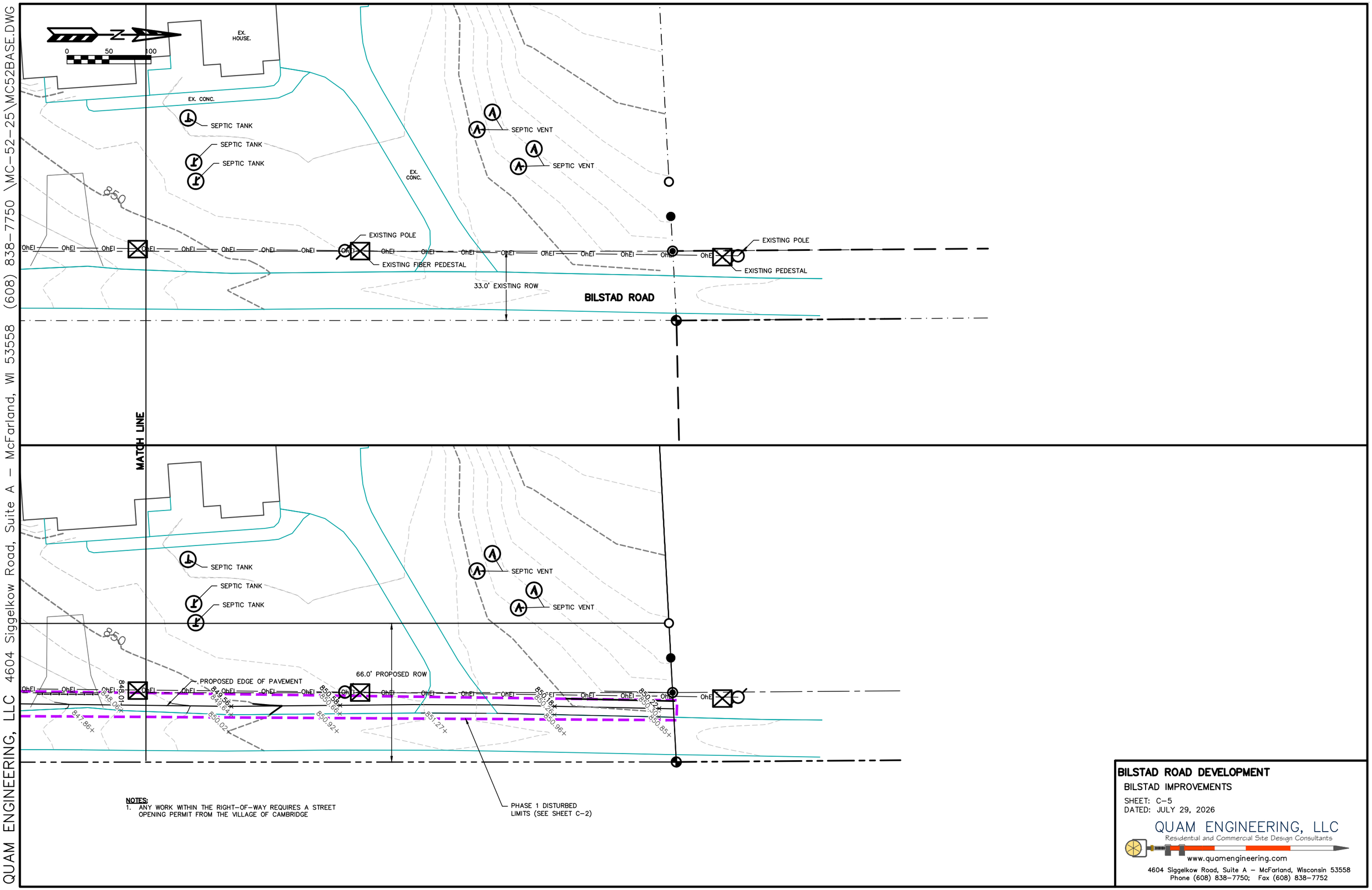
BILSTAD ROAD DEVELOPMENT

BILSTAD IMPROVEMENTS

SHEET: C–4

DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838–7750; Fax (608) 838–7752



NOTES:
1. ANY WORK WITHIN THE RIGHT-OF-WAY REQUIRES A STREET OPENING PERMIT FROM THE VILLAGE OF CAMBRIDGE

BILSTAD ROAD DEVELOPMENT

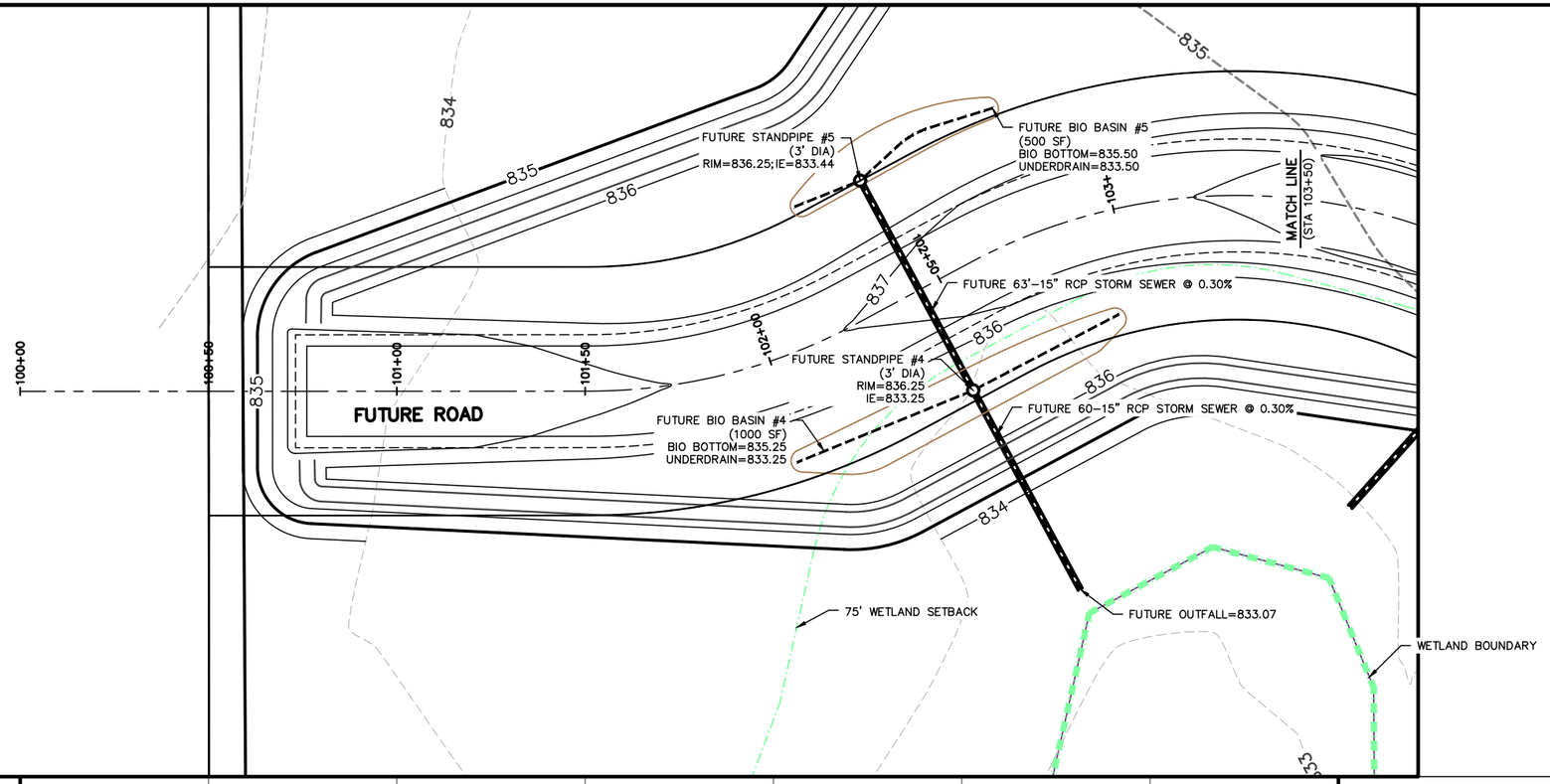
BILSTAD IMPROVEMENTS

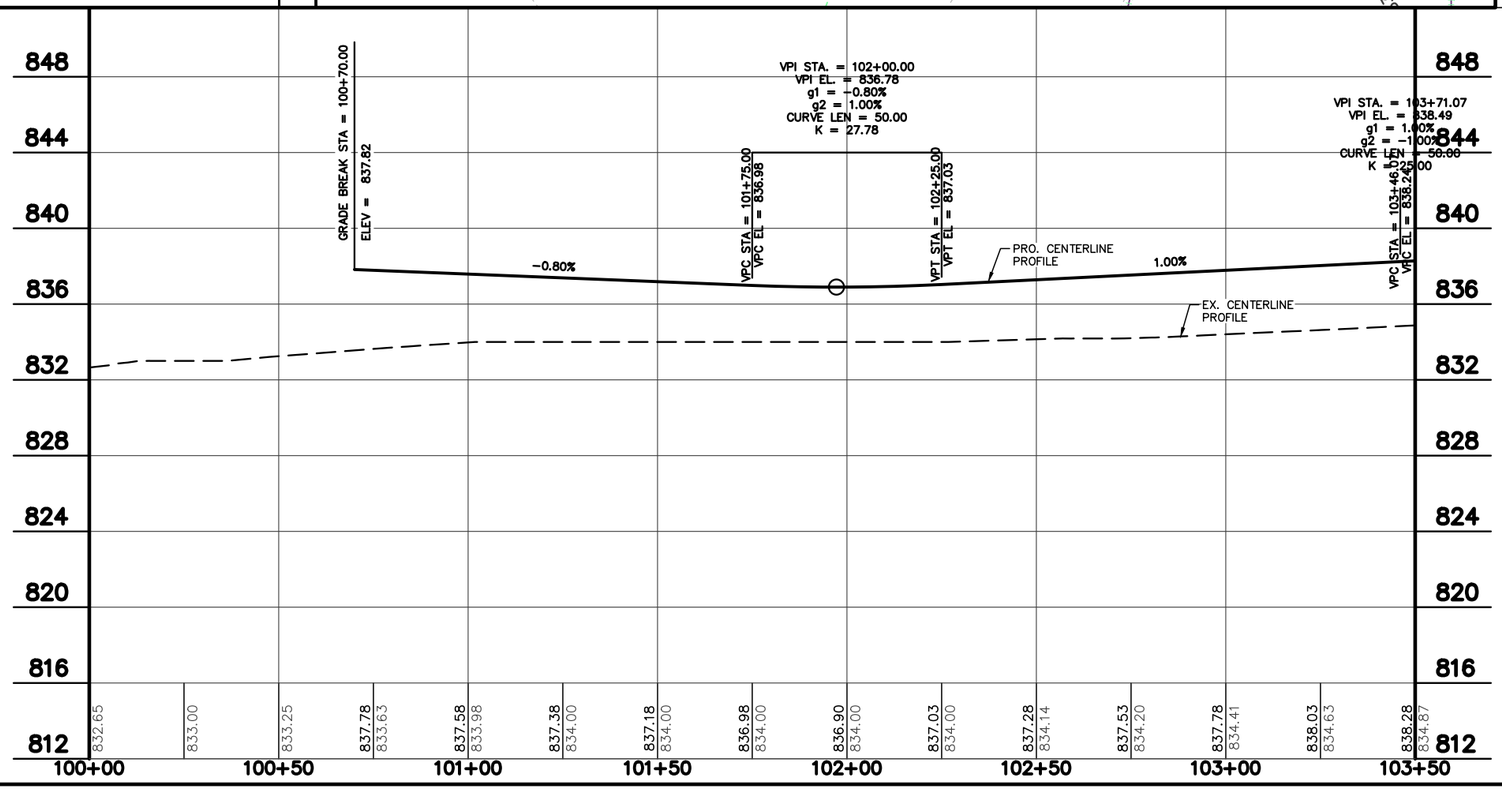
SHEET: C-5
DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

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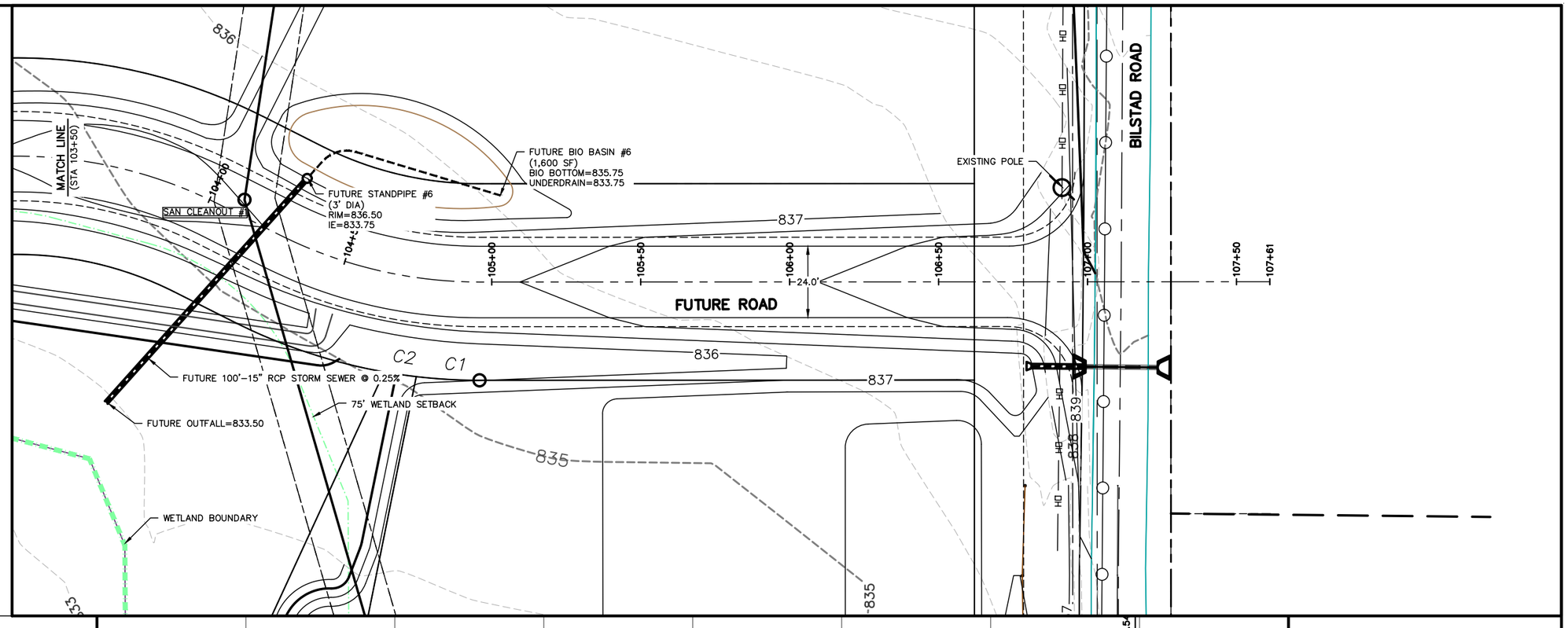
NOTES:
1. FORCEMAIN TO BE INSTALLED WITH TRACER WIRE.

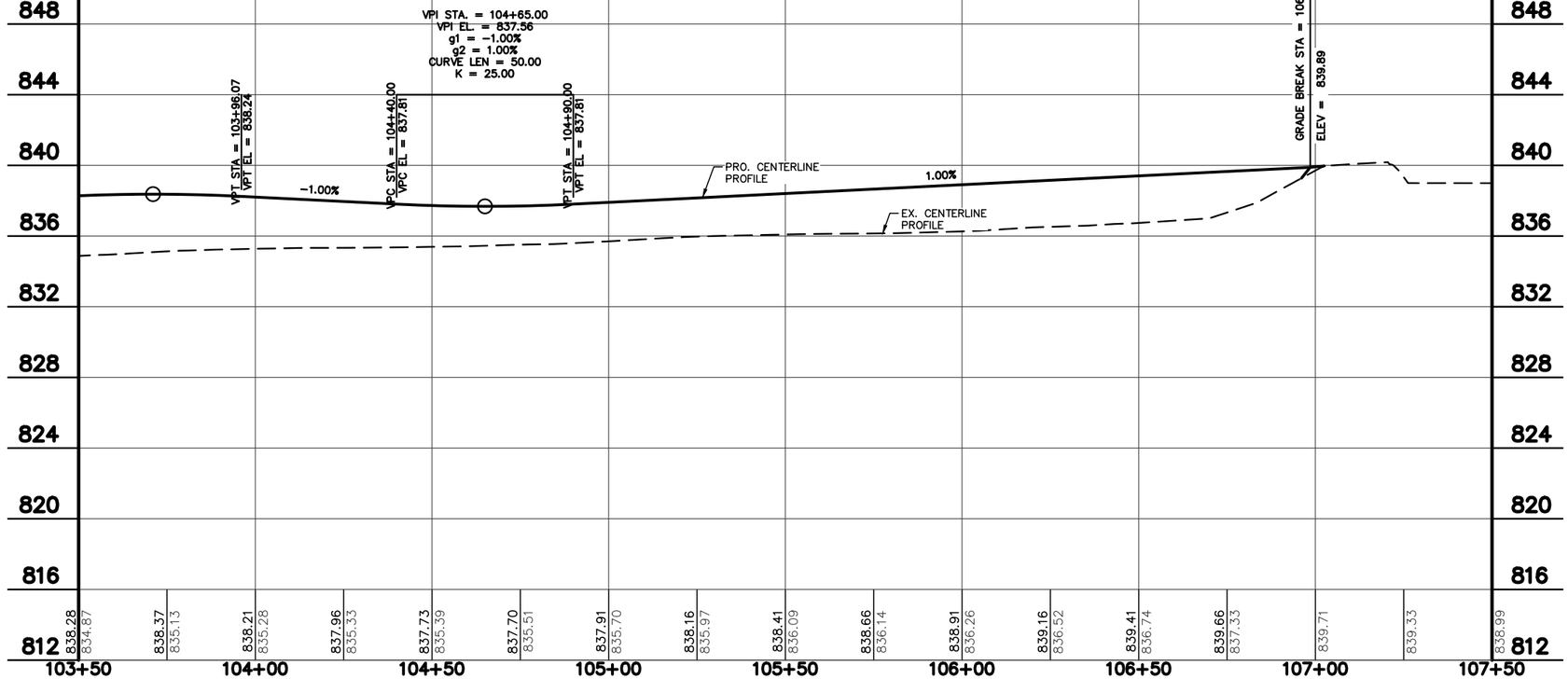




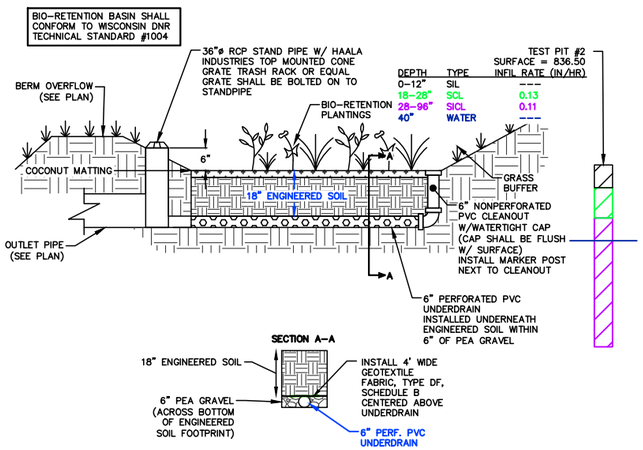
QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A; McFarland, WI 53558 (608) 838-7750

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A; McFarland, WI 53558 (608) 838-7750





QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52BASE.DWG



SEE PLAN VIEW FOR SURFACE ELEVATIONS AND OTHER INFORMATION.

ENGINEERED SOIL SHALL CONSIST OF THE FOLLOWING:
70% SILICA SAND; 30% COMPOST W/ PH 5.5–6.5
COMPOST SHALL MEET WDNR SPECIFICATION S100.

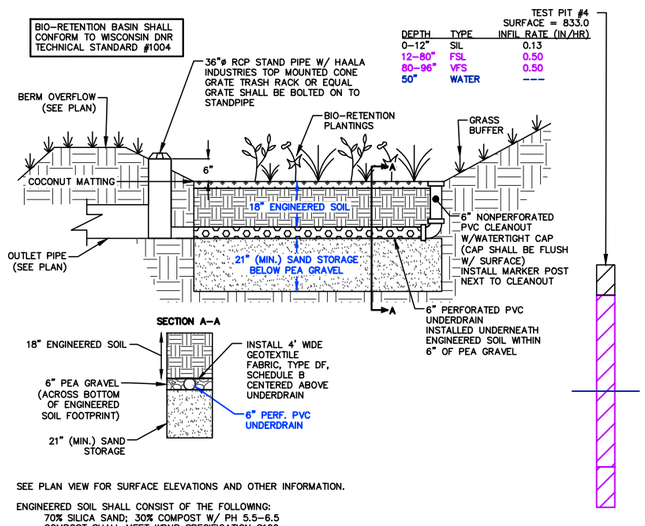
BIO-RETENTION PLANTINGS TO BE PLANTED AT ONE PLUG PER SQUARE FOOT UNLESS SPECIES SELECTED REQUIRES GREATER SPACING. PLUGS TO BE PLANT STOCK NAMED IN THE RAINWATER RENEWAL MIX FROM AGRECOL CORPORATION OR APPROVED EQUIVALENT. A MINIMUM OF 10 DIFFERENT PLANT STOCK NAMES SHALL BE SELECTED.

TO PREVENT COMPACTION OF ENGINEERED SOIL AND SUBSOILS, CONTRACTOR SHALL PROTECT AGAINST MACHINERY ENTERING OR COMPACTING THE BIO-RETENTION AREA.

CONTRACTOR SHALL PROVIDE COPY OF DELIVERY TICKET OR INVOICE FOR ENGINEERED SOIL, 4' WIDE GEOTEXTILE FABRIC, AND PEA GRAVEL FOR AS-BUILT CERTIFICATION PURPOSES.

CONTRACTOR SHALL PROVIDE PICTURES OF EXCAVATED BASIN PRIOR TO BACKFILLING WITH PEA GRAVEL, AND AGAIN PRIOR TO BACKFILLING WITH ENGINEERED SOIL (SHOWING THE 4' WIDE GEOTEXTILE FABRIC).

BIO-RETENTION BASIN #2 AND 3 DETAIL



SEE PLAN VIEW FOR SURFACE ELEVATIONS AND OTHER INFORMATION.

ENGINEERED SOIL SHALL CONSIST OF THE FOLLOWING:
70% SILICA SAND; 30% COMPOST W/ PH 5.5–6.5
COMPOST SHALL MEET WDNR SPECIFICATION S100.
SAND STORAGE LAYER SHALL CONSIST OF SAND AS FOLLOWS:
USDA COURSE SAND (0.02 – 0.04 INCHES)
–OR–
ASTM C33 (FINE AGGREGATE CONCRETE SAND)

BIO-RETENTION PLANTINGS TO BE PLANTED AT ONE PLUG PER SQUARE FOOT UNLESS SPECIES SELECTED REQUIRES GREATER SPACING. PLUGS TO BE PLANT STOCK NAMED IN THE RAINWATER RENEWAL MIX FROM AGRECOL CORPORATION OR APPROVED EQUIVALENT. A MINIMUM OF 10 DIFFERENT PLANT STOCK NAMES SHALL BE SELECTED.

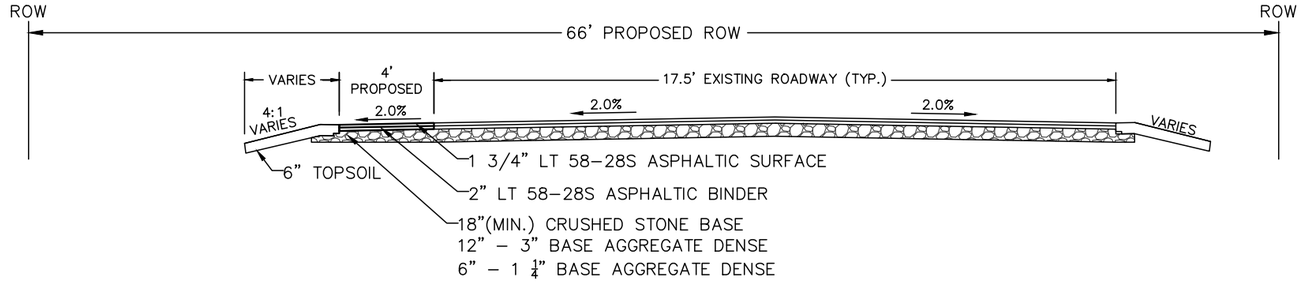
TO PREVENT COMPACTION OF ENGINEERED SOIL AND SUBSOILS, CONTRACTOR SHALL PROTECT AGAINST MACHINERY ENTERING OR COMPACTING THE BIO-RETENTION AREA.

CONTRACTOR SHALL PROVIDE COPY OF DELIVERY TICKET OR INVOICE FOR ENGINEERED SOIL, 4' WIDE GEOTEXTILE FABRIC, PEA GRAVEL, AND SAND STORAGE FOR AS-BUILT CERTIFICATION PURPOSES.

CONTRACTOR SHALL PROVIDE PICTURES OF EXCAVATED BASIN PRIOR TO BACKFILLING WITH PEA GRAVEL, AND AGAIN PRIOR TO BACKFILLING WITH ENGINEERED SOIL (SHOWING THE 4' WIDE GEOTEXTILE FABRIC).

CONTRACTOR SHALL PROVIDE VERIFICATION BY CERTIFIED SOIL TESTER OF CONNECTION TO FINE SANDY LOAM SOILS.

BIO-RETENTION BASIN #1 DETAIL



BILSTAD ROAD IMPROVEMENTS TYPICAL SECTION
(NOT TO SCALE)

EROSION CONTROL NOTES:

1. CONSTRUCT AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR AND DANE COUNTY REQUIREMENTS.
2. INSTALL EROSION CONTROL PRACTICES PRIOR TO INITIATING OTHER LAND DISTURBING ACTIVITIES.
3. INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT EXCEEDING 0.5 INCHES WITHIN 24 HOURS. REPAIR TO EROSION CONTROL MEASURES SHALL OCCUR WITHIN 24 HOURS OF INSPECTION.
4. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR OR LANDOWNER UNTIL SITE IS STABILIZED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY REGULATORY AGENTS OR OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
5. INSTALL TRACKING CONTROLS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ADJACENT ROADWAYS. SEDIMENT IN THE ROADWAY SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
6. DIVERT CHANNELIZED RUNOFF FROM ADJACENT LAND AROUND DISTURBED AREAS.
7. INSTALL PERIMETER CONTROL AROUND STOCKPILES AND STABILIZE STOCKPILES THAT WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
8. TEMPORARILY STABILIZE DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS.
9. PERMANENTLY STABILIZE ANY PORTION OF THE SITE WITHIN 7 DAYS OF REACHING FINAL GRADE.
10. INSTALL AND MAINTAIN A CONCRETE WASHOUT. CHUTE WASHWATER MAY NOT BE DUMPED ON THE GROUND.
11. DE-WATERING SHALL CONFORM TO DNR TECHNICAL STANDARD 1061 AND MAY NOT INCREASE EROSION.
12. REMOVE ACCUMULATED SEDIMENT FROM DITCH CHECKS AND STONE WEEPERS WHEN IT REACHES 1/2 OF THE DEVICE HEIGHT.
13. NOTIFY THE DANE COUNTY WATER RESOURCES ENGINEERING DEPARTMENT WITHIN 10 DAYS OF INSTALLING ALL EROSION CONTROL PRACTICES AND UPON SITE STABILIZATION.
14. REMOVE ALL EROSION CONTROL MEASURES ONCE ALL DISTURBED AREAS ARE VEGETATED.

TIME SCHEDULE:

SEPTEMBER 1, 2026	INSTALL INITIAL EROSION CONTROL DEVICES.
SEPTEMBER 1 – 8, 2026	INSTALL FORCE MAIN.
SEPTEMBER 5 – NOVEMBER 15, 2026	ROUGH GRADE SITE, COMPLETE ROAD EXPANSION, AND INSTALL STORM SEWER.
NOVEMBER 1 – NOVEMBER 16, 2026	RESTORE ALL PERVIOUS DISTURBED AREAS, AND CONSTRUCT THE BIO-BASINS PER DETAILS.
MAY 1 – 15, 2027	INSTALL PLANTS IN BIO-BASINS AND PROVIDE ADDITIONAL SEEDING TO ALL PERVIOUS DISTURBED AREAS AS NEEDED.

RESTORATION NOTES:

RESTORATION SHALL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL.

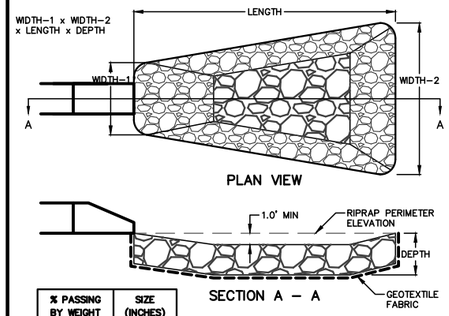
ALL PERVIOUS DISTURBED AREAS SHALL RECEIVE A MINIMUM OF FOUR (4) INCHES OF TOPSOIL, SEED, AND MULCH OR EROSION MAT. EROSION MAT LIMITS ARE SHOWN ON THE GRADING & EROSION CONTROL PLAN. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. THE BIO-RETENTION BASIN SHALL BE RESTORED PER THE BIO-RETENTION BASIN DETAIL. SEED MIXTURE 40 SHALL BE USED ON ALL OTHER DISTURBED AREAS. ALL SEED MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX.

ALL PERVIOUS DISTURBED AREAS SHALL RECEIVE FERTILIZER EXCEPT NATIVE PLANTING AREAS. FERTILIZER SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 8%; POTASH, NOT LESS THAN 8%. FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. SEED MIXTURE 40 SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. MULCH SHALL CONSIST OF HAY OR STRAW APPLIED AT THE RATE OF TWO (2) TONS PER ACRE.

SEEDING FROM SEPTEMBER 16 THROUGH NOVEMBER 15 IS TO BE AVOIDED TO PREVENT FREEZING OF NEW GROWTH. DORMANT SEEDING, IF NECESSARY, SHALL BE COMPLETED AFTER NOVEMBER 15. DORMANT SEEDING SHALL NOT BE APPLIED ON TOP OF SNOW. DISTURBED AREAS SHALL HAVE EROSION MAT APPLIED OVER DORMANT SEEDING. IF DORMANT SEEDING DOES NOT RESULT IN AT LEAST 70% COVER BY MAY 15, ADDITIONAL SEEDING SHALL BE REQUIRED.

OWNER:
COUGHLIN BUILDING CONCEPTS
ATTN: MIKE COUGHLIN
230 BILSTAD ROAD
CAMBRIDGE, WI 53523

ENGINEER:
QUAM ENGINEERING, LLC
ATTN: RYAN QUAM
4604 SIGGELKOW ROAD, SUITE A
MCFARLAND, WI 53558



% PASSING BY WEIGHT	SIZE (INCHES)
100	20
50–85	15
20–50	10
5–20	5
0–5	2

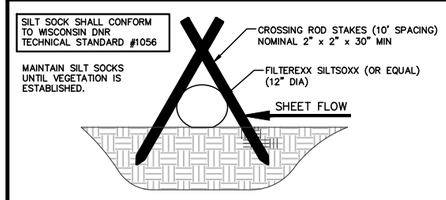
SIZES CALCULATED IN BEST D.5.2

RIPRAP SHALL BE PLACED AS DEFINED IN SECTION 606 OF WISCONSIN D.O.T. SPECIFICATIONS. STONE PIECES SHALL BE WELL GRADED, RANGING IN DIAMETER AS DESCRIBED IN THE ADJACENT CHART.

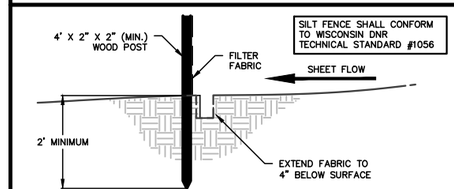
RIPRAP DETAIL

NOTES: INSTALL DITCH CHECKS AS SOON AS DITCH IS ROUGH GRADED
REMOVE DITCH CHECKS DURING PERMANENT SEEDING.
REFER TO THE WISDOT PAL FOR ACCEPTABLE PRODUCTS

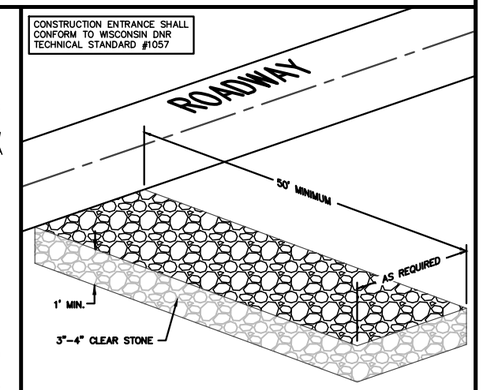
TEMPORARY SILT SOCK DITCH CHECK



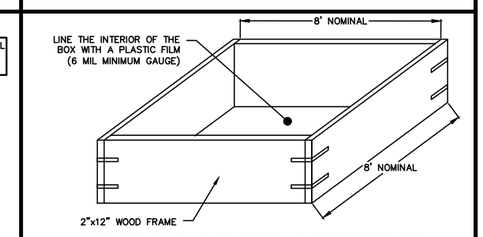
SILT SOCK DETAIL



SILT FENCE CONSTRUCTION (SHEET FLOW)

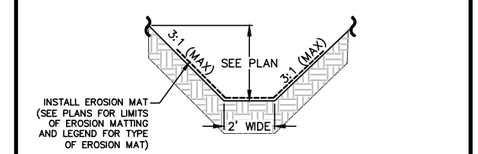


STONE CONSTRUCTION ENTRANCE



CONTENTS OF THE WASHOUT BOX SHALL BE DISPOSED OF OFF-SITE

CONCRETE WASHOUT BOX DETAIL



SWALE CROSS SECTION

BILSTAD ROAD DEVELOPMENT

CONSTRUCTION DETAILS

SHEET: C-11
DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52STORM.DWG

0 50 100

LEGEND FOR DRAINAGE AREAS:

TOTAL DRAINAGE AREA
AREA = 5.524 ACRES
TC = 9.4 MINUTES

EX. WETLAND

EX. WETLAND

TIME OF CONCENTRATION FLOWLINE

LOT 8 R-M

LOT 7 R-M

LOT 6 R-M

LOT 5 R-M

LOT 4 R-M

LOT 3 R-M

LOT 2 R-M

LOT 1 R-M

230 BILSTAD ROAD

BILSTAD ROAD

EXISTING EDGE OF PAVEMENT

EX. CULVERT

EX. CULVERT

EX. CULVERT

EXISTING EDGE OF PAVEMENT

BILSTAD ROAD DEVELOPMENT

EXISTING DRAINAGE PLAN – PHASE 1

EXHIBIT #8A
DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52STORM.DWG

0 50 100

LEGEND FOR DRAINAGE AREAS:

TOTAL DRAINAGE AREA
AREA = 9.431 ACRES
TC = 15.6 MINUTES

EX. WETLAND

EX. WETLAND

TIME OF CONCENTRATION FLOWLINE

LOT 8 R-M

LOT 7 R-M

LOT 6 R-M

LOT 5 R-M

LOT 4 R-M

LOT 3 R-M

LOT 2 R-M

LOT 1 R-M

230 BILSTAD ROAD

EXISTING EDGE OF PAVEMENT

EX. CULVERT

EX. CULVERT

EX. CULVERT

BILSTAD ROAD

EXISTING EDGE OF PAVEMENT

BILSTAD ROAD DEVELOPMENT

EXISTING DRAINAGE PLAN – ULTIMATE

EXHIBIT #8B
DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52STORM.DWG

0 50 100

LEGEND FOR DRAINAGE AREAS:

- UNCONTROLLED DRAINAGE AREA
  AREA = 1.123 ACRES
  TC = 6 MINUTES
- BIO #1 DRAINAGE AREA
  AREA = 1.744 ACRES
  TC = 6 MINUTES
- BIO #2 DRAINAGE AREA
  AREA = 1.174 ACRES
  TC = 6 MINUTES
- BIO #3 DRAINAGE AREA
  AREA = 1.483 ACRES
  TC = 6 MINUTES

EX. WETLAND

EX. WETLAND

BIO #3

BIO #2

BIO #1

LOT 8 R-M

LOT 7 R-M

LOT 6 R-M

LOT 5 R-M

LOT 4 R-M

LOT 3 R-M

LOT 2 R-M

LOT 1 R-M

BYPASS SWALE

230 BILSTAD ROAD

PROPOSED EDGE OF PAVEMENT

EXISTING EDGE OF PAVEMENT

EX. CULVERT (BYPASS SWALE SIZED BASED ON CULVERT CAPACITY)

EX. CULVERT

EX. CULVERT

BILSTAD ROAD

PROPOSED EDGE OF PAVEMENT

EXISTING EDGE OF PAVEMENT

BILSTAD ROAD DEVELOPMENT

PROPOSED DRAINAGE PLAN – PHASE 1

EXHIBIT #9A

DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \MC-52-25\MC52STORM.DWG

0 50 100

LEGEND FOR DRAINAGE AREAS:

- UNCONTROLLED DRAINAGE AREA
  AREA = 1.450 ACRES
  TC = 6 MINUTES
- BIO #1 DRAINAGE AREA
  AREA = 1.744 ACRES
  TC = 6 MINUTES
- BIO #2 DRAINAGE AREA
  AREA = 1.174 ACRES
  TC = 6 MINUTES
- BIO #3 DRAINAGE AREA
  AREA = 1.483 ACRES
  TC = 6 MINUTES
- FUTURE BIO #4 DRAINAGE AREA
  AREA = 0.334 ACRES
  TC = 6 MINUTES
- FUTURE BIO #5 DRAINAGE AREA
  ON-SITE AREA = 0.554 ACRES
  OFF-SITE AREA = 0.842 ACRES
  TOTAL AREA = 1.396 ACRES
  TC = 13.5 MINUTES
- FUTURE BIO #6 DRAINAGE AREA
  ON-SITE AREA = 0.445 ACRES
  OFF-SITE AREA = 1.405 ACRES
  TOTAL AREA = 1.850 ACRES
  TC = 13.6 MINUTES

EX. WETLAND

EX. WETLAND

BIO #4

BIO #5

BIO #6

BIO #3

BIO #2

BIO #1

LOT 8 R-M

LOT 7 R-M

LOT 6 R-M

LOT 5 R-M

LOT 4 R-M

LOT 3 R-M

LOT 2 R-M

LOT 1 R-M

BYPASS SWALE

BIO-BASIN #5 TIME OF CONCENTRATION FLOWLINE

230 BILSTAD ROAD

BIO-BASIN #6 TIME OF CONCENTRATION FLOWLINE

PROPOSED EDGE OF PAVEMENT

EXISTING EDGE OF PAVEMENT

EX. CULVERT (BYPASS SWALE SIZED BASED ON CULVERT CAPACITY)

EX. CULVERT

EX. CULVERT

BILSTAD ROAD

PROPOSED EDGE OF PAVEMENT

EXISTING EDGE OF PAVEMENT

BILSTAD ROAD DEVELOPMENT

PROPOSED DRAINAGE PLAN – ULTIMATE

EXHIBIT #9B

DATED: JULY 29, 2026

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

Village of Cambridge
Amendments to Zoning Text and Map (Rezone) Application

200 Spring Street, PO Box 99, Cambridge, WI 53523 ♦ Phone (608) 423- 3712
https://cambridgewi.gov

The Plan Commission meets on the second Monday of each month at 6:30 p.m. in the Amundson Community Center. Submit your complete rezoning application (with $600 fee) at least **30 days before the meeting** with 1 hard copy and 1 digital copy of all required materials listed below.

The review begins only when the application is complete, and the fee is paid to the Village Clerk. Applicants or their representatives should attend the meeting to present the rezoning request and answer questions. A public hearing is required, with a Class 2 notice published at least 20 days in advance. The Plan Commission will make a recommendation to the Village Board within 60 days of referral.

If you have any questions about the requirements, please contact Steve Tremlett, Zoning Administrator, at (608) 242-6621 or stremlett@msa-ps.com.

Owner Name(s): Michael Coughlin	
Applicant Name (if different than above):	
Property Address: 230 Bilstad Road Cambridge, WI	***Parcel #:*** 111-0612-124-0010-2
Applicant Address (if different than above):	
Applicant Phone: 608-5980639	***Applicant Email:*** MIchael@coughlingrp.com
Current Zoning Designation: ag	***Current Property Use:*** R-L

The fee for a rezoning request is $600, payable to the Village of Cambridge. Additional costs may apply if mapping updates or legal review are required. In addition to the required fee, one hard copy and one digital version each of the following items must be provided:

- A scaled plot drawing showing the location, boundaries, dimensions, uses, and size of the subject site; existing and proposed structures; parking; floodplain boundaries (if any); and yard setbacks.
- Complete Rezone Applicant Response Form on the following pages.

I (we) certify that all of the above statement and the statements contained in any papers or plans submitted herewith are true to the best of my (our) knowledge and belief. I (we) consent to the entry in or upon the premises described in this application by any authorized official of the Village of Cambridge for the purpose of securing information, and posting, maintaining and removing such notices as may be required by law.

Applicant Signature: Michael Coughlin ***Date:*** 7-16-26

Owner Signature: _____ ***Date:*** _____

For Staff Use Only	
Date Received:	***Fee Paid?***
Public Hearing Date:	***Public Hearing Publication Dates:***
Plan Commission Recommendation: ☐ Denied ☐ Approved ***Subject to:***	
Village Board Decision: ☐ Denied ☐ Approved (Ord #_____) ***Subject to:***	

Map Amendment (Rezone) – Applicant Response Form

Please answer the following questions to help the Plan Commission and Village Board evaluate your rezoning request:

1. **Zoning District:** What is the current zoning designation? What zoning district are you requesting? *Note: confirm current zoning by going to Zoning Viewer located in Village's Plan Commission and Zoning webpage: https://cambridgewi.gov/long-range-plans/.*

Response:

The current designation is AG. We are requestiong to zone the additional 7 lots as R-L

2. **Purpose:** What is the purpose of the rezoning request?

Response:

Take approx 4ac of ag land and create (7) R-L single family home parcels

3. **Current and Proposed Use:** What is the current use of the property? What is the proposed use?

Response:

The current use under AG, is tillable farm land. The proposed use will allow for 7 single family homes to be built

4. **Compatibility with Surrounding Development:** How is the proposed zoning compatible with surrounding land uses and development patterns?

Response:

I believe this rezone fits well, as the road is already consisting of similar development.

5. **Other Relevant Factors:** Are there any other factors the Plan Commission should consider when reviewing this request?

Response:

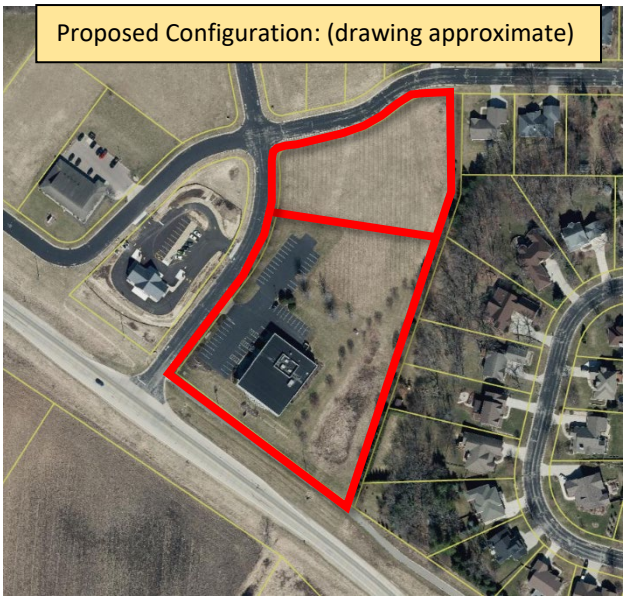
MSA Memo

To: Village of Cambridge Planning Commission
From: MSA Planning Staff
Subject: 600 Kenseth Way Two-Lot Certified Survey Map (CSM)
Date: September 4th, 2026

Request

Frank Peregrine, with Michael Coughlin acting as applicant, requests approval of a two-lot Certified Survey Map (CSM) for the ~5.2-acre property located at 600 Kenseth Way in Cambridge (Parcel No. 111/0612-013-0501-1). The property is currently developed and used as a winery and event center. The proposed CSM splits this use with a 1.55 acre lot to the north for future residential use (no rezone requested at this time).





Background

The subject property is zoned B-MU Mixed Use Business and contains the Cambridge Winery event center. The property fronts Kenseth Way near US Highway 12/18, which serves as a prominent western gateway into the Village. The highway corridor to the south has a primarily commercial character, while the area to the north and east has transitioned to residential development over the past two decades.

Lot 1 consists of the undeveloped northern portion of the property. The applicant anticipates dividing this lot further in the future to create approximately three or four single-family residential lots. Future residential development would require a separate land division application and rezoning.

Lot 2 contains the existing winery event center. There have also been preliminary discussions regarding a possible rezoning associated with interest from a church in occupying the property. Any future rezoning or change of use would require a separate application and review once a specific proposal is submitted.

Consistency with the Comprehensive Plan

Future Land Use Map (2045 Cambridge Comprehensive Plan):



The 2045 Comprehensive Plan's Future Land Use Map divides the parent property with the Neighborhood Residential to the north and General Commercial to the south. Proposed Lot 1 is designated entirely as Neighborhood Residential. Lot 2 is primarily in general commercial with some neighborhood residential remaining in this lot. While the exact break in future land use does not specifically align, the intent is still met with residential to the north and commercial to the south. Creation of the new lot line does not create a new inconsistency with the Comprehensive Plan.

Consistency with the Subdivision and Zoning Ordinances

Authority

Section 16.12.050(C) of the Village Code provides the Village with authority to review land divisions created by Certified Survey Map for consistency with the Comprehensive Plan and applicable Village ordinances.

Subdivision Ordinance

The lot design standards of Sec. 16.24.040 are met by the proposed land division. This includes:

1. >45 ft of frontage (proposed lots have 75ft and 77ft of frontage) **(met)**
2. No excessive depth in relation to width **(met)**
3. Side lot lines at right angles **(met)**

Zoning Ordinance

The dimensional requirements of the B-MU (Mixed-Use Business) district are met by the proposed land division. This includes:

1. At least 12,000 square feet in area (proposed lots are 10,010 and 10,393 square feet) **(met)**
2. At least 80 feet in width at the building line **(met)**
3. The new lot line must not create a zoning nonconformity affecting the existing winery and event center. This includes:
    a. Front Yard. Minimum thirty-five (35) feet **(met)**
    b. Side Yards. Minimum ten (10) feet **(met)**
    c. Rear Yard. Minimum thirty (30) feet **(met)**
    d. Building Height. Maximum thirty-five (35) feet **(met)**
    e. Percentage of Lot Coverage. Maximum forty (40) percent. **(met)**
    f. All off-street parking lots adjoining lots zoned for residential use shall have a minimum setback of ten (10) feet from any interior lot line, except if the adjoining lot is used for legally conforming parking purposes. **(30-foot setback from parking to lot line- planned future residential will be compliant)**

Technical Comments

Review by engineer/surveyor, identified several items requiring correction before final approval:

1. Correct the 0.65-foot boundary misclosure and corresponding shortage in the line between Lots 1 and 2.
2. Verify the section-line bearing, corner monument, tie line, lot areas, and related survey data.
3. Correct the zoning designation from B-C to B-MU.
4. Clarify all existing and proposed easements, including the detention pond, vision-corner, and overlapping Kenseth Way easements.
5. Revise the Owner's and Village Board certificates to address the granting or dedication of easements.

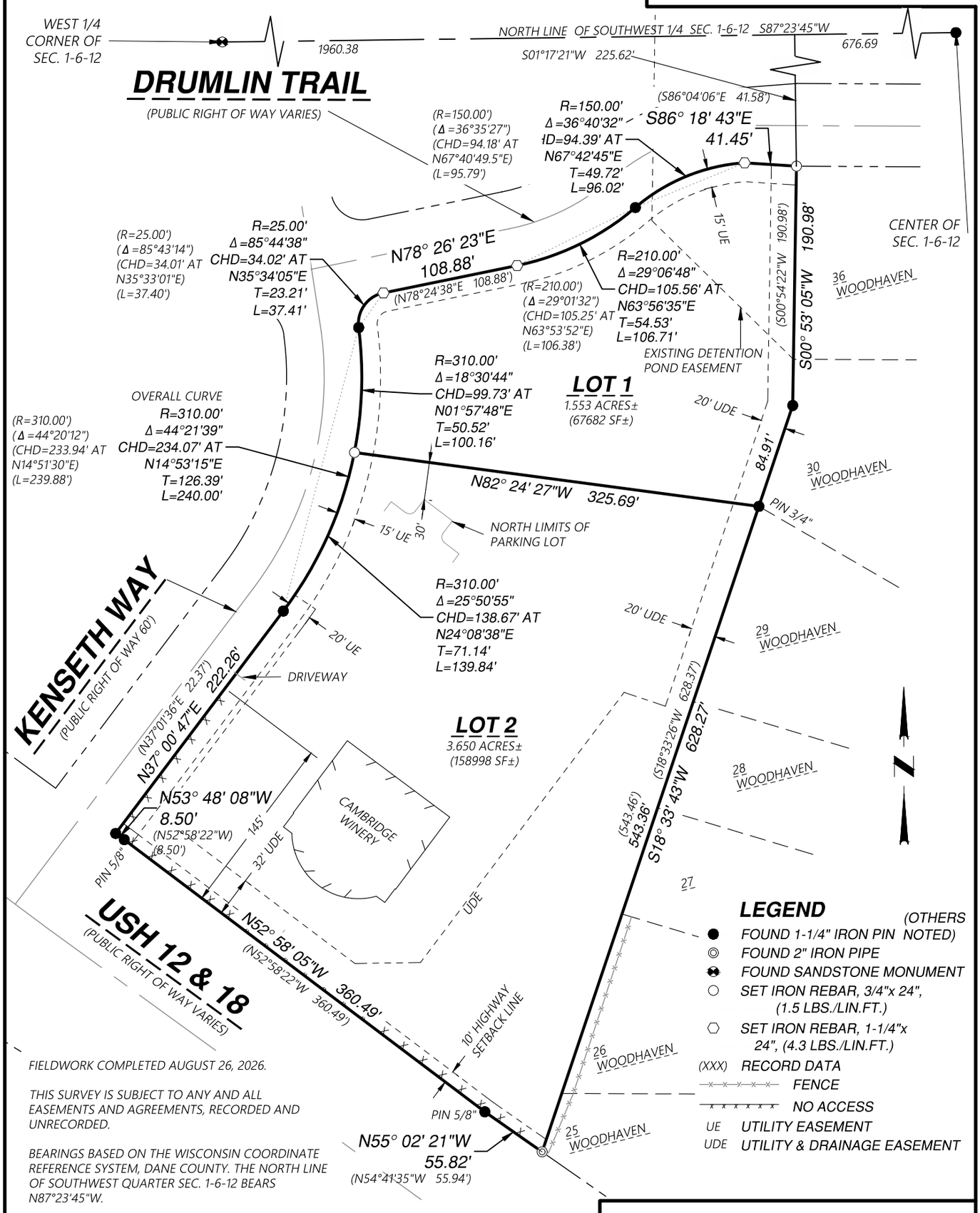
Potential Action

Should Plan Commission recommend approval by Village Board of the two-lot CSM for Parcel No. 0612-013-0501-1, staff recommend the following conditions:

1. Prior to recording the CSM, the necessary revisions are made to the satisfaction of the Zoning Administrator and Village Engineer.
2. All applicable Village review fees shall be paid, and a recorded copy of the CSM shall be provided to the Village following recording with the Dane County Register of Deeds.

CERTIFIED SURVEY MAP NO. _____

OF LOT 1 OF MATT'S PLAT TO THE VILLAGE OF CAMBRIDGE, BEING PART OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 1, T.6N., R.12E., OF THE 4TH PM, VILLAGE OF CAMBRIDGE, DANE COUNTY, WISCONSIN.



LEGEND

- FOUND 1-1/4" IRON PIN (OTHERS NOTED)
- FOUND 2" IRON PIPE
- FOUND SANDSTONE MONUMENT
- SET IRON REBAR, 3/4"x 24", (1.5 LBS./LIN.FT.)
- SET IRON REBAR, 1-1/4"x 24", (4.3 LBS./LIN.FT.)
- (XXX) RECORD DATA
- FENCE
- NO ACCESS
- UE UTILITY EASEMENT
- UDE UTILITY & DRAINAGE EASEMENT

FIELDWORK COMPLETED AUGUST 26, 2026.

THIS SURVEY IS SUBJECT TO ANY AND ALL EASEMENTS AND AGREEMENTS, RECORDED AND UNRECORDED.

BEARINGS BASED ON THE WISCONSIN COORDINATE REFERENCE SYSTEM, DANE COUNTY. THE NORTH LINE OF SOUTHWEST QUARTER SEC. 1-6-12 BEARS N87°23'45"W.

DISTANCE UNITS BASED ON THE US SURVEY FOOT.

GRAPHIC SCALE: 1" = 100'

0 50' 100' 150'

Project No. 126 - 376
For: CAMBRIDGE WINERY

SHEET 1 OF 4

Combs & ASSOCIATES INC
109 W. MILWAUKEE ST
JANESVILLE, WI 53548
www.combssurvey.com
tel: 608-752-0575
fax: 608-752-0534

- LAND SURVEYING
- LAND PLANNING
- CIVIL ENGINEERING

CERTIFIED SURVEY MAP NO. _____

OF LOT 1 OF MATT'S PLAT TO THE VILLAGE OF CAMBRIDGE, BEING PART OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 1, T.6N., R.12E., OF THE 4TH PM, VILLAGE OF CAMBRIDGE, DANE COUNTY, WISCONSIN.

CORPORATE OWNER'S CERTIFICATE

CAMBRIDGE WINERY LLC, A CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN, AS OWNER, DOES HEREBY CERTIFY THAT SAID CORPORATION CAUSED THE LAND DESCRIBED ON THIS MAP TO BE SURVEYED, DIVIDED, AND MAPPED AS REPRESENTED HEREON. WE ALSO CERTIFY THAT THIS CERTIFIED SURVEY MAP IS REQUIRED BY SEC. 75.17(1)(A), DANE COUNTY CODE OF ORDINANCES, TO BE SUBMITTED TO THE DANE COUNTY ZONING AND LAND REGULATION COMMITTEE. IN WITNESS WHEREOF, THE SAID CAMBRIDGE WINERY LLC HAS CAUSED THESE PRESENTS TO BE SIGNED BY

*X*_____

FRANK PEREGRINE - OWNER

STATE OF WISCONSIN}
COUNTY OF _____ } SS.

PERSONALLY CAME BEFORE ME THIS _____ DAY OF _____ , 20____ , FRANK PEREGRINE, OWNER OF THE ABOVE NAMED CORPORATION, TO ME KNOWN TO BE THE PERSON WHO EXECUTED THE FOREGOING INSTRUMENT AND TO ME KNOWN TO BE SUCH OFFICERS OF SAID CORPORATION, AND ACKNOWLEDGED THAT THEY EXECUTED THE FOREGOING INSTRUMENT AS SUCH OFFICERS AS THE DEED OF SAID CORPORATION BY ITS AUTHORITY.

NOTARY PUBLIC, _____ COUNTY, WISCONSIN

X _____

MY COMMISSION EXPIRES _____

Project No. 126 - 376
For: CAMBRIDGE WINERY

Combs & ASSOCIATES INC
109 W. MILWAUKEE ST
JANESVILLE, WI 53548
www.combssurvey.com

- *LAND SURVEYING*
- *LAND PLANNING*
- *CIVIL ENGINEERING*

tel: 608-752-0575
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CERTIFIED SURVEY MAP NO. _____

OF LOT 1 OF MATT'S PLAT TO THE VILLAGE OF CAMBRIDGE, BEING PART OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 1, T.6N., R.12E., OF THE 4TH PM, VILLAGE OF CAMBRIDGE, DANE COUNTY, WISCONSIN.

VILLAGE BOARD APPROVAL

APPROVED BY THE BOARD OF THE VILLAGE OF CAMBRIDGE AND ACCEPTING THE DEDICATION

THIS _____ DAY OF _____ , 20____ .

TOWN CLERK _____

CERTIFICATE OF COUNTY PLANNING

APPROVED BY THE DANE COUNTY ZONING AND LAND REGULATION COMMITTEE.

X_____ _____

AUTHORIZED SIGNATURE DATE

Project No. 126-376
For: CAMBRIDGE WINERY

Combs & ASSOCIATES INC
109 W. MILWAUKEE ST
JANESVILLE, WI 53548
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CERTIFIED SURVEY MAP NO. _____

OF LOT 1 OF MATT'S PLAT TO THE VILLAGE OF CAMBRIDGE, BEING PART OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 1, T.6N., R.12E., OF THE 4TH PM, VILLAGE OF CAMBRIDGE, DANE COUNTY, WISCONSIN.

SURVEYOR'S CERTIFICATE

STATE OF WISCONSIN}
COUNTY OF ROCK } SS. *I, RYAN M. COMBS, PROFESSIONAL LAND SURVEYOR NO.2677, DO HEREBY CERTIFY THAT I HAVE SURVEYED, DIVIDED AND MAPPED:*

LOT 1 OF MATT'S PLAT TO THE VILLAGE OF CAMBRIDGE, SITUATED IN PART OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 1, T.6N., R.12E., OF THE 4TH PM, VILLAGE OF CAMBRIDGE, DANE COUNTY, WISCONSIN.

CONTAINING 226680 SQUARE FEET OR 5.203 ACRES, MORE OR LESS.

THAT SUCH MAP IS A CORRECT REPRESENTATION OF ALL EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND THE DIVISION OF THAT LAND. THAT I HAVE MADE SUCH SURVEY, DIVISION AND MAP BY THE DIRECTION OF FRANK PEREGRINE AND THAT I HAVE FULLY COMPLIED WITH THE PROVISIONS OF CHAPTER 236.34 OF THE WISCONSIN STATUTES IN SURVEYING, DIVIDING AND MAPPING THE SAME.

GIVEN UNDER MY HAND AND SEAL THIS 27TH DAY OF AUGUST, 2026 AT JANESVILLE, WISCONSIN.

RECORDING DATA

C.S.M. NO. _____ RECEIVED FOR RECORD THIS _____ DAY OF _____, 20____, AT

_____ O'CLOCK ____.M., AND RECORDED AS _____, OF CERTIFIED SURVEY MAPS OF DANE COUNTY,

WISCONSIN, AS DOCUMENT NO. _____.

X_____
REGISTER OF DEEDS

Project No. 126 - 376
For: CAMBRIDGE WINERY

Combs & ASSOCIATES INC
109 W. MILWAUKEE ST
JANESVILLE, WI 53548
www.combssurvey.com

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VILLAGE OF CAMBRIDGE RESOLUTION NO. 2026-16

APPROVING ADDITIONAL ELECTION INSPECTORS FOR THE 2026-2027 TERM

WHEREAS, by December 31 of odd numbered years the Village Board must approve a list of election inspectors for the upcoming two-year election cycle; and

WHEREAS, by November 30th of each odd numbered year political parties may submit a certified list of election inspector nominees to each municipal governing body; and these names will be added to the list of workers upon confirmation from the nominees of their desire to be included; and

WHEREAS, all inspectors must sign an oath and complete training to be placed on the lists to work on election day and will be paid $12.00 per hour; and

WHEREAS, inspectors have already been approved for the 2026-2027 term and additional volunteers have come forward;

NOW, THEREFORE, BE IT RESOLVED, by the Board of Trustees of the Village of Cambridge, portions in Dane and Jefferson Counties, Wisconsin, does approve the following list of additional election inspectors for the 2026-2027 election cycle:

Allen, Mary Jo
Benzinger, Jan
Engler, Colleen
Keiser, Marilyn
Wayne, Wendy

Approved this 22nd day of September, 2026.

Vote: Ayes-_____ Noes-_____

APPROVED: _____ _____
Paula Hollenbeck, Village President Date

ATTEST: _____ _____
Kris Breunig, Village Administrator Date

RESOLUTION 2026-17

ATTENDANCE OF VILLAGE STAFF AT ELECTION TRAINING GIVEN BY "ALL VOTING IS LOCAL – WISCONSIN"

WHEREAS, Village Staff Brian Wilson and Josie Stein (Henceforth "Staff") have been invited by the Dane County Clerk and Jefferson County Clerk to attend election training hosted by group by the name of "All Voting is Local – Wisconsin" in October, 2026.

WHEREAS, All Voting is Local is a partisan organization. On the surface, the organization looks like a group that simply wants to make it easier to vote. While this may be part of their mission, this is not their only mission. In the "Laying the Groundwork for 2026" section of their website, the first line states, *"The moment President Trump took office for his second term in January 2025, the world shifted. The regime stoked violence against our communities at a dizzying pace, all in an effort to advance their agenda of intimidation—pulling families apart, detaining lawful residents and U.S. citizens without cause, and deploying federal law enforcement in our cities. This assault was an effort to seize more power, and it has included aggressively undertaking plans to keep people from voting."* Whether staff or members of the Village Board agree with the above statement or not, it is most certainly partisan.

WHEREAS, taxpayers in the Village of Cambridge should never have to be concerned that Village staff is receiving training from an organization such as All Voting is Local, or any other organization that takes a political side – whether it be on the political Left **or** Right. If staff needs training, it should come from County or State agencies.

WHEREAS, it would not be appropriate for Village staff, in their official capacities, to attend any event sponsored by All Voting is Local and in the future, would encourage Village staff, if they are unsure if attending similar training is appropriate, they should consult the Village Board.

WHEREAS, Should Staff feel the need to attend this event, it should be done so on their own time and at their own expense. If this event takes place during normal Village business hours, we expect that staff use vacation time.

NOW THEREFORE BE IT RESOLVED, that the Village Board of the Village of Cambridge approves the proposed Resolution 2026-16 stating that Village Staff must not use Village resources and must take vacation time should they choose to attend election training given by All Voting is Local – Wisconsin.

Adopted by the Village Board of the Village of Cambridge, Wisconsin this 22nd day of October, 2026 on a roll call vote: _____Ayes _____ Nays

VILLAGE OF CAMBRIDGE

_____
Paula Hollenbeck, Board President

ATTEST

_____
Kris Breunig, Administrator