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## **VILLAGE OF CALEDONIA UTILITY DISTRICT MEETING AGENDA**

**Wednesday, December 6, 2023 – 6:00 p.m.**

**Caledonia Village Hall – 5043 Chester Lane**

**THIS WILL BE AN IN-PERSON MEETING**

- 1. Meeting Called to Order**
- 2. Roll Call**
- 3. Approval of Minutes**
  - a. Utility District Regular Meeting – November 1, 2023
- 4. Citizen Comments**
- 5. Communications and Announcements**
  - a. Racine Water Utility Agenda & Minutes
  - b. Racine Wastewater Utility Agenda & Minutes
  - c. Utility Operator Staffing Update
- 6. Approval of O&M Bills**
  - a. O&M Bills related to the Sewer, Water & Storm Water Utility District
- 7. Project Updates**
  - a. Construction Contract Status
  - b. Riverbend Lift Station Safety Site, Lift Station & Forcemain Upgrade
  - c. Annual Televising Program – Sanitary Sewer
  - d. Water Impact Fee / Sewer Connection Fee Update
  - e. Central Lift Station Safety Site & Attenuation Basin
  - f. TID #4 Elevated Storage Tank & Adams Road Watermain
  - g. Hoods Creek – Aldebaran Brushing Project
  - h. Douglas Avenue OMG Ditch Project
  - i. Turtle Creek Restoration
- 8. Action Items**
  - a. Authorization of Signatures – Professional Services Contract – Information & Education Program for Meeting the Department of Natural Resources Storm Water Permit Requirements – Root Pike WIN
  - b. Change Order #3 – STH 32 Stream Restoration Project
  - c. Final Acceptance – STH 32 Stream Restoration Project
  - d. Utility Acceptance – Caledonia Corporate Park – TI Investors of Caledonia LLC
  - e. January 2024 Commission Meeting
  - f. Discussion – 6243 Charles Street – Utility Bill Concern
- 9. Adjournment**

**Village of Caledonia Utility District Meeting  
November 1, 2023**

- 1. Meeting Called to Order** – The Regular Meeting of the Village of Caledonia Utility District was held on Wednesday, November 1, 2023. The meeting was called to order by President Howard Stacey at 6:00 pm.
- 2. Roll Call** – Those present were President Howard Stacey, Commissioners Robert Kaplan, John Strack, Dave Ruffalo and Trustee Lee Wishau. Also, present was Public Services Director Anthony Bunkelman.
- 3. Approval of Minutes**
  - a. Upon a motion by Trustee Wishau and seconded by Commissioner Kaplan, the Commission approved the minutes from the Utility District's previous regular meeting held October 9, 2023. **Motion carried.**
- 4. Citizens Comments**
- 5. Communications & Announcements**
  - a. **Racine Water Utility Agenda & Minutes**

The Commission looked over the agenda and minutes from the October 17<sup>th</sup> meeting of the Racine Water Utility. Director Bunkelman gave a brief summary of the meeting.
  - b. **Racine Wastewater Utility Agenda & Minutes**

The Commission looked over the agenda and minutes from the October 17<sup>th</sup> meeting of the Racine Wastewater Utility. Director Bunkelman gave a brief summary of the meeting.
  - c. **Utility Operator Staffing Update**

Director Bunkelman indicated that Ellias Dean was hired as an Operator in Training and recently started. There is 1 position open and posted.
- 6. Approval of O&M Bills**
  - a. Trustee Wishau moved to approve the Sewer Utility Invoices in the amount of \$57,255.16 from the October 26 invoice list. Seconded by Commissioner Kaplan. **Motion carried.**
  - b. Trustee Wishau moved to approve the Water Utility Invoices in the amount of \$598,449.29 from the October 26 invoice list. Seconded by Commissioner Kaplan. **Motion carried.**
  - c. Trustee Wishau moved to approve the Storm Water Utility Invoices in the amount of \$14,333.71 from the October 26 invoice list. Seconded by Commissioner Kaplan. **Motion carried.**

## **7. Project Updates**

### **a. Construction Contract Status**

The current contract statuses were shared with the Commissioners.

### **b. Riverbend Lift Station Safety Site, Lift Station & Forcemain Upgrade**

Looking to wrap up the Facility Plan to have it reviewed by staff. Once reviewed will submit it to DNR and look to schedule a Public Hearing.

### **c. Annual Televising Program – Sanitary Sewer**

Continue to perform repairs that staff can perform.

### **d. Water Impact Fee / Sewer Connection Fee Update**

Will be taking the REU update for water meters to Committee of the Whole for recommendation to the Village Board.

### **e. Hoods Creek Attenuation Basin Expansion**

Cells / Flushing Gates 4, 5, & 6 have been tested. Flushing Gates 5 & 6 held and are acceptable. Cell / Flushing Gate 4 still leaking. The leak is from either flushing gate or epoxy sealed crack between Cell 3 & 4. Performing additional tests on Cell 4 to determine which is the issue. Operators inspected the Flushing Gate 4. The epoxy seal appears to be good. There is leaking on both flushing gates on Cell 4. Contacted Foth and Contractor for Warranty work.

### **f. Central Lift Station Safety Site & Attenuation Basin**

Have ordered a Surge Inspection Report as part of the Air release Valve replacements. This is to be completed in the next couple of weeks. This report will determine the exact valve to be installed. Racine is okay with bypass at 3 Mile Road for 7 air release valves in Racine but want to have an Agreement signed (similar to previous work on lining of forcemain).

Surge Inspection Report received. The valves have been sized. Met with a contractor to obtain pricing for installation. Will need to take order from Dorner to Sole Source the Air Release Valve Purchase.

### **g. Washington Meadows Watermain**

Minor restoration completed. Change Order #2 to be processed as a corrective Change Order for miscellaneous quantities. Final Pay Request received, and Final Acceptance is recommended.

### **h. TID #4 Elevated Storage Tank & Adams Road Watermain**

Elevated Tank Plans at DNR for approval. Awaiting comments. The Elevated Storage Tank has been submitted to Plan Commission for entitlement process and approval from the Village Board. Plan Commission approved the request and forwarded it to the Village Board.

**i. Hoods Creek – Aldebaran Brushing Project**

Contractor has expended the budget for 2023 and will continue work in 2024.

**j. Douglas Avenue – OMG Ditch Project**

Final work on restoration to be performed when crops come off of the field. Met on site 10/17 to discuss restoration. Work to be performed in approximately 1 week from meeting pending weather.

**k. Turtle Creek Restoration**

Southern Wisconsin Appraisal meeting with owners to discuss easement acquisition. Will be working with Great Lake Tree to remove some of the trees that are creating issues in the Klema Ditch. Discussed 2 properties with Southern Wisconsin Appraisal for various items. Will be providing appropriate easement documents when created.

**l. Westview Village Storm Improvements**

Contractor performed restoration work on September 22. Change Order for small drainage swale to address resident concerns. Miscellaneous quantities Change Order received along with Final Payment.

**8. Action Items**

**a. Briarwood Condo Plat**

Commissioner Ruffalo moved to approve the Briarwood Condominium Plat and forward to the Village Board subject to the conditions as outlined in the Memorandum dated October 23, 2023 from the Village Engineer. Seconded by Trustee Wishau. **Motion carried.**

**b. Storm Sewer Reroute & Watermain Extension Plan – Conditional Approval – Central Storage & Warehouse LLC.**

Trustee Wishau moved to conditionally approve the Storm Sewer Reroute & Watermain Extension Plan subject to the conditions as outlined in the Memorandum dated October 24, 2023 from the Public Services Director. Seconded by Commissioner Strack. **Motion carried.**

**c. Storm Water Management Plan & Storm Water Pond Plan – Conditional Approval – Gifford School Parking Lot**

Trustee Wishau moved to conditionally approve the Storm Water Management Plan and Storm Water Pond Plan for the Gifford School North Parking Lot Expansion subject to the conditions as outlined in the Memorandum dated October 25, 2023 from the Public Services Director. Seconded by Commissioner Kaplan. **Motion carried. Approved 4:0 – Strack abstained.**



- d. Resolution No. 2023-XXX – Resolution Imposing a Special Charge on the 2023 Tax Roll representing the Annual Storm Water Management Fee against property in the Village of Caledonia Utility District and Establishing the Storm Water Management Rate for each Equivalent Residential Unit in accordance with Sections 9-2-12(G) and (H) of the Village of Caledonia Code of Ordinances for the time period of 12/1/2023 to 11/30/2024**

Trustee Wishau moved to forward Resolution 2023-XXX with the corrected ERU's (16,243.51) and tax roll amount (\$1,058,882.62) to the Village Board for approval. Seconded by Commissioner Kaplan. **Motion carried.**

- e. Westview Village Storm Water Improvements Change Order #1**

Commissioner Kaplan moved to approve Change Order #1 for the Westview Village Storm Water Improvement Project with a contract increase of \$2,123.20. Seconded by Trustee Wishau. **Motion carried.**

- f. Westview Village Storm Water Improvements Change Order #2**

Commissioner Ruffalo moved to approve Change Order #2 for the Westview Village Storm Water Improvement Project with a contract increase of \$2,137.05. Seconded by Commissioner Strack. **Motion carried.**

- g. Westview Village Storm Water Improvements Final Acceptance**

Commissioner Ruffalo moved to recommend Final Acceptance of the Westview Village Storm Water Improvements Project. Seconded by Trustee Wishau. **Motion carried.**

- h. Washington Meadows Change Order #2**

Trustee Wishau moved to approve Change Order #2 for the Washington Meadows Watermain Project with a contract decrease of \$95,906.11. Seconded by Commissioner Kaplan. **Motion carried.**

- i. Washington Meadows Final Acceptance**

Commissioner Ruffalo moved to recommend Final Acceptance of the Washington Meadows Watermain Project. Seconded by Trustee Wishau. **Motion carried.**

- j. Hoods Creek Attenuation Basin Expansion Final Acceptance**

Trustee Wishau moved to recommend Final Acceptance of the Hoods Creek Attenuation Basin Expansion Project. Seconded by Commissioner Kaplan. **Motion carried. Approved 4-0 – Ruffalo abstained.**

**9. Adjournment**

Upon a motion by Commissioner Strack and seconded by Commissioner Kaplan, the Commission moved to adjourn the regular meeting at 6:39 pm. **Motion carried.**

Respectively submitted,  
Anthony A. Bunkelman P.E. Public Services Director



# City of Racine

City Hall  
730 Washington Ave.  
Racine, WI 53403  
[www.cityofracine.org](http://www.cityofracine.org)

## Meeting Agenda Waterworks Commission

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Tuesday, November 21, 2023

4:00 PM

City Hall, Room 207

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### ROLL CALL

[1086-23](#)

**Subject:** Approval of Minutes for the October 17, 2023, Meeting

**Fiscal Note:** N/A

**Attachments:**

[water minutes 10.17.23](#)

[1087-23](#)

**Subject:** Proposal from Foth for Solids Storage Site Study

**Fiscal Note:** Cost of the proposal not to exceed \$35,000.

**Attachments:**

[foth solids storage site proposal](#)

[1113-23](#)

**Subject:** Proposal from CDM Smith for 2024 Lead Service Line Replacement Contract Management

**Fiscal Note:** Cost of the proposal is \$222,092.

**Attachments:**

[LSL assistance proposal cdm smith 20230627](#)

[1088-23](#)

**Subject:** Request from Utility Director for Authorization to submit SDWLP Intent to Apply (ITA) and Priority Evaluation and Ranking Form (PERF) to the Department of Natural Resources (DNR) for FY2025 42" Water Main Replacement Phase 4 Project

**Fiscal Note:** N/A

[1089-23](#)

**Subject:** Request from Utility Director for Authorization to Submit SDWLP Intent to Apply (ITA) and Priority Evaluation and Ranking Form (PERF) to the Department of Natural Resources (DNR) for FY2025 42" Water Main Replacement Phase 3 Project

**Fiscal Note:** N/A

### Adjournment

**If you are disabled and have accessibility needs or need information interpreted for you, please contact the Water Utility Administration Office at 262.636.9181, at least 48 hours prior to this meeting.**



# City of Racine

City Hall  
730 Washington Ave.  
Racine, WI 53403  
www.cityofracine.org

## Meeting Minutes - Draft

### Waterworks Commission

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Tuesday, November 21, 2023

4:00 PM

City Hall, Room 207

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#### ROLL CALL

**PRESENT:** 5 - John Tate II, Cory Mason, Paul Vornholt, Mollie Jones and Terry McCarthy

**EXCUSED:** 3 - Natalia Taft, Stacy Sheppard and Jason Meekma

[1086-23](#)

**Subject:** Approval of Minutes for the October 17, 2023, Meeting

**Recommendation:** To Approve

**Fiscal Note:** N/A

**A motion was made by Mayor Mason, seconded by Alder McCarthy, that this file be Approved**

[1087-23](#)

**Subject:** Proposal from Foth for Solids Storage Site Study

**Recommendation:** To Approve

**Fiscal Note:** Cost of the proposal not to exceed \$35,000.

*The Water Utility Director presented a proposal for Foth to conduct a study on potential storage sites for the disposal of non-hazardous material due to a significant increase in the costs for basin cleaning solids disposal. The site would also provide storage for construction spoils prior to disposal as fill material.*

**A motion was made by Alder McCarthy, seconded by Alder Jones, that this file be Approved**

[1113-23](#)

**Subject:** Proposal from CDM Smith for 2024 Lead Service Line Replacement Contract Management

**Fiscal Note:** Cost of the proposal is \$222,092.

*The Water Utility Director presented the proposal from CDM Smith for project management of combined 2024 private and public lead service line replacements. Tasks include engineering to provide bid specifications, public outreach to establish communication with homeowners, and construction administration and inspection.*

**A motion was made by Mayor Mason, seconded by Alder Jones, that this file be Deferred.**

A second motion was made by Alder McCarthy, seconded by Mayor Mason to amend the original motion language to defer the item to a date to be determined that is satisfactory with adhering to the engineering timelines for this project.

[1088-23](#)

**Subject:** Request from Utility Director for Authorization to submit SDWLP Intent to Apply (ITA) and Priority Evaluation and Ranking Form (PERF) to the Department of Natural Resources (DNR) for FY2025 42" Water Main Replacement Phase 4 Project

**Fiscal Note:** N/A

*The Water Utility Director discussed the FY2025 project financing for the 42" Phase 4 Water Main Replacement project. Loan costs may be reduced with Principal Forgiveness, to be determined.*

**A motion was made by Mayor Mason, seconded by Alder McCarthy, that this file be Approved**

[1089-23](#)

**Subject:** Request from Utility Director for Authorization to Submit SDWLP Intent to Apply (ITA) and Priority Evaluation and Ranking Form (PERF) to the Department of Natural Resources (DNR) for FY2025 42" Water Main Replacement Phase 3 Project

**Fiscal Note:** N/A

*The Water Utility Director discussed the FY2025 project financing for the 42" Phase 3 Water Main Replacement project. Loan costs may be reduced with Principal Forgiveness, to be determined.*

**A motion was made by Mayor Mason, seconded by Alder McCarthy, that this file be Approved**

## Adjournment

*There being no further business to address, the meeting was adjourned at 4:31 p.m.*



# City of Racine

City Hall  
730 Washington Ave.  
Racine, WI 53403  
[www.cityofracine.org](http://www.cityofracine.org)

## Meeting Agenda Wastewater Commission

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Tuesday, November 21, 2023

4:30 PM

City Hall, Room 207

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### ROLL CALL

[1090-23](#)

**Subject:** Approval of Minutes for the October 17, 2023, Meeting

**Fiscal Note:** N/A

**Attachments:**

[ww minutes 10.17.23](#)

[0993-23](#)

**Subject:** Bid Opening Results on Contract C-23, Johnson Park Lift Station

**Recommendation of the Wastewater Commission on 10/17/23:** To  
Defer this item until next month's meeting

**Fiscal Note:** N/A

**Attachments:**

[bid opening results C-23 johnson park L.S.](#)

[1091-23](#)

**Subject:** Submittal of Pretreatment Rates for 2024

**Fiscal Note:** N/A

**Attachments:**

[pretreatment costs 2024](#)

[0985-23](#)

**Subject:** Annual Update regarding City of Racine Peak Flow Mitigation  
Plan

**Recommendation of the Wastewater Commission on 10/17/23:** To  
Defer this item until next month's meeting

**Fiscal Note:** N/A

### Adjournment

If you are disabled and have accessibility needs or need information interpreted for you,  
please contact the Wastewater Utility Administration Office at 262.636.9181 at least 48  
hours prior to this meeting.







# City of Racine

City Hall  
730 Washington Ave.  
Racine, WI 53403  
[www.cityofracine.org](http://www.cityofracine.org)

## Meeting Minutes - Draft Wastewater Commission

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Tuesday, November 21, 2023

4:30 PM

City Hall, Room 207

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The meeting was called to order by Vice-President John Tate II, who was running the meeting in President Taft's absence, at 4:33 p.m.

### ROLL CALL

**PRESENT:** 7 - Claude Lois, John Tate II, Cory Mason, Mollie Jones, Terry McCarthy, Anthony Bunkelman and Paul Vornholt

**EXCUSED:** 5 - Natalia Taft, John Hewitt, Stacy Sheppard, Jason Meekma and Anthony Beyer

[1090-23](#)

**Subject:** Approval of Minutes for the October 17, 2023, Meeting

**Recommendation:** To Approve

**Fiscal Note:** N/A

A motion was made by Mayor Mason, seconded by Lois, that this file be Approved

[0993-23](#)

**Subject:** Bid Opening Results on Contract C-23, Johnson Park Lift Station

**Recommendation of the Wastewater Commission on 10/17/23:** To Defer this item until next month's meeting

**Recommendation of the Wastewater Commission on 11/21/23:** To Approve

**Fiscal Note:** N/A

*As this item had been previously deferred in order to confirm that the Parks & Recreation Department had secured funding in their 2023 budget for this project, the Wastewater Utility Director reviewed the specifics on the bid results that were received for Contract C-23, Johnson Park Lift Station, in the amount of \$257,600.00, and recommended approval to the lowest responsible bidder, that being August Winter & Sons. The Wastewater Utility Director is authorized and directed to execute the contract on behalf of the Wastewater Utility.*

A motion was made by Mayor Mason, seconded by Alder McCarthy, that this file be Approved

[1091-23](#)**Subject:** Submittal of Pretreatment Rates for 2024**Recommendation:** To Approve**Fiscal Note:** N/A

*The Wastewater Utility Director presented the 2024 pretreatment rates charged to industrial users for utility administrative, inspection, sampling and laboratory activities conducted under the industrial pretreatment program.*

**A motion was made by Alder McCarthy, seconded by Bunkelman, that this file be Approved**

[0985-23](#)**Subject:** Annual Update regarding City of Racine Peak Flow Mitigation Plan**Recommendation of the Wastewater Commission on 10/17/23:** To Defer this item until next month's meeting**Recommendation of the Wastewater Commission on 11/21/23:** To Receive & File**Fiscal Note:** N/A

*City of Racine Public Works Commissioner, John Rooney, presented the annual update on the City's Peak Flow Mitigation Plan, highlighting ongoing peak flow reduction strategies including mainline and lateral replacement & lining, manhole lid replacement & sealing, a pilot sump pump program, as well as Roosevelt/Kinzie backyard drainage improvements. The Wastewater Commission approved the City Plan at the October 17, 2022, meeting to remove the sewer moratorium for treatment peak hour flow capacity exceedances. This report signifies Year 1 of the City's 7-Year Plan.*

**A motion was made by Mayor Mason, seconded by Alder McCarthy, that this file be Received and Filed**

## **Adjournment**

*There being no further business to address, the meeting was adjourned at 5:08 p.m.*

FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
<b>A.W. OAKES &amp; SONS, INC</b>							
Storm Water Utility Fund	9	A.W. OAKES & SONS, INC	STH 32 - PAY	PAY APP 6 - STH 32 STREAM RE	11/21/2023	5,000.00	502-00-65154 HWY 32 Stream Restoration
Total A.W. OAKES & SONS, INC:						5,000.00	
<b>ACH - WE ENERGIES</b>							
Sewer Utility Fund	380	ACH - WE ENERGIES	4790517249	OCTOBER 23 - GAS & ELECTRI	10/30/2023	10,565.25	501-00-64140 Utilities
Water Utility Fund	380	ACH - WE ENERGIES	4790517249	OCTOBER 23 - GAS & ELECTRI	10/30/2023	1,076.86	500-00-64140 Utilities
Storm Water Utility Fund	380	ACH - WE ENERGIES	4790517249	OCTOBER 23 - GAS & ELECTRI	10/30/2023	221.63	502-00-64140 Utilities
Total ACH - WE ENERGIES:						11,863.74	
<b>APEX KEY &amp; LOCK</b>							
Sewer Utility Fund	118	APEX KEY & LOCK	INV-14954	LOCKS; HOODS CREEK BASIN	12/01/2023	201.29	501-18736-000 CIP-Hoods Creek Attenuation
Sewer Utility Fund	118	APEX KEY & LOCK	INV-14954	LOCKS; DOMINICAN LIFT STATI	12/01/2023	590.11	501-18739-000 CIP-Dominican Lift Station
Total APEX KEY & LOCK:						791.40	
<b>AURORA HEALTH CARE</b>							
Sewer Utility Fund	155	AURORA HEALTH CARE	720487	NOVEMBER 2023 PRE-EMPLOY	11/12/2023	152.00	501-00-51100 Testing/Physicals
Total AURORA HEALTH CARE:						152.00	
<b>BADGER METER INC.</b>							
Water Utility Fund	163	BADGER METER INC.	1613345	2 WATER METERS 100-7401	10/23/2023	167.41	500-18701-107 CIP - Meters
Total BADGER METER INC.:						167.41	
<b>BATTERIES PLUS</b>							
Sewer Utility Fund	176	BATTERIES PLUS	P67175655	12V 8AH LEAD	10/31/2023	100.60	501-00-64250 Equipment Repairs & Maintenanc
Total BATTERIES PLUS:						100.60	
<b>BUY RIGHT, INC.</b>							
Water Utility Fund	273	BUY RIGHT, INC.	14873-416254	DIESEL EXHAUST FLUID / VEHI	10/31/2023	44.91	500-00-63200 Fuel, Oil, Fluids
Sewer Utility Fund	273	BUY RIGHT, INC.	14873-416254	DIESEL EXHAUST FLUID / VEHI	10/31/2023	134.73	501-00-63200 Fuel, Oil, Fluids
Total BUY RIGHT, INC.:						179.64	

FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
<b>FERGUSON WATERWORKS #1476</b>							
Water Utility Fund	1810	FERGUSON WATERWORKS #14	0395014	HYDRANT PARTS	10/03/2023	1,350.00	500-00-64240 Building Repairs & Maintenance
Total FERGUSON WATERWORKS #1476:						1,350.00	
<b>FOTH INFRASTRUCTURE &amp; ENVIRO, LLC</b>							
Sewer Utility Fund	666	FOTH INFRASTRUCTURE & EN	86703	RIVER BEND LIFT STATION SAF	10/27/2023	579.80	501-18725-000 CIP-Riverbend Safety Site
Sewer Utility Fund	666	FOTH INFRASTRUCTURE & EN	86706	HOODS CREEK ATTENUATION	10/27/2023	2,222.50	501-18736-000 CIP-Hoods Creek Attenuation
Sewer Utility Fund	666	FOTH INFRASTRUCTURE & EN	86708	MMSD 2050 SEWER SERVICE A	10/27/2023	147.20	501-00-61340 Engineering Design Charges
Water Utility Fund	666	FOTH INFRASTRUCTURE & EN	86710	WASHINGTON MEADOWS WAT	10/27/2023	633.55	500-18737-107 CIP - WASHINGTON MEADOWS
Water Utility Fund	666	FOTH INFRASTRUCTURE & EN	86713	CUD GENERAL ENGINEERING	10/27/2023	2,646.80	500-00-61340 Engineering Design Charges
Water Utility Fund	666	FOTH INFRASTRUCTURE & EN	86715	SUNDANCE HEIGHTS WATER M	10/27/2023	1,071.14	500-18738-107 CIP - SUNDANCE HEIGHTS
Total FOTH INFRASTRUCTURE & ENVIRO, LLC:						7,300.99	
<b>FRANKSVILLE AUTOMOTIVE LLC</b>							
Water Utility Fund	679	FRANKSVILLE AUTOMOTIVE LL	000015385	VEHICLE REPAIRS; NEW TIRES	11/28/2023	600.16	500-00-63300 Vehicle Repairs & Maintenance
Sewer Utility Fund	679	FRANKSVILLE AUTOMOTIVE LL	000015385	VEHICLE REPAIRS; NEW TIRES	11/28/2023	600.16	501-00-63300 Vehicle Repairs & Maintenance
Total FRANKSVILLE AUTOMOTIVE LLC:						1,200.32	
<b>G &amp; F EXCAVATING</b>							
Water Utility Fund	687	G & F EXCAVATING	35904	WATER MAIN REPAIRS	11/10/2023	4,707.50	500-00-64240 Building Repairs & Maintenance
Water Utility Fund	687	G & F EXCAVATING	35966	WATER MAIN REPAIR @ CREST	11/02/2023	4,272.50	500-00-64240 Building Repairs & Maintenance
Water Utility Fund	687	G & F EXCAVATING	35982	FIRE HYDRANT - PINE TREE CI	11/29/2023	5,538.75	500-00-64240 Building Repairs & Maintenance
Total G & F EXCAVATING:						14,518.75	
<b>GRAINGER</b>							
Water Utility Fund	3290	GRAINGER	9886641514	GARAGE DOOR HINGE	10/27/2023	20.32	500-00-64240 Building Repairs & Maintenance
Sewer Utility Fund	3290	GRAINGER	9886641514	GARAGE DOOR HINGE	10/27/2023	20.32	501-00-64240 Building Repairs & Maintenance
Total GRAINGER:						40.64	
<b>KORTENDICK HARDWARE</b>							
Water Utility Fund	1096	KORTENDICK HARDWARE	161378	PROPANE & POLY PUSHES	10/26/2023	134.98	500-00-64110 Small Equipment
Water Utility Fund	1096	KORTENDICK HARDWARE	161378	PROPANE & POLY PUSHES	10/26/2023	17.09	500-00-64070 Work Supplies
Sewer Utility Fund	1096	KORTENDICK HARDWARE	161378	PROPANE & POLY PUSHES	10/26/2023	17.09	501-00-64070 Work Supplies
Water Utility Fund	1096	KORTENDICK HARDWARE	161399	PROPANE FILL/GALLON	10/27/2023	31.24	500-00-63200 Fuel, Oil, Fluids
Sewer Utility Fund	1096	KORTENDICK HARDWARE	161399	PROPANE FILL/GALLON	10/27/2023	31.24	501-00-63200 Fuel, Oil, Fluids

FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
Water Utility Fund	1096	KORTENDICK HARDWARE	161482	BATTERIES	10/31/2023	85.13	500-00-64070 Work Supplies
Sewer Utility Fund	1096	KORTENDICK HARDWARE	161482	BATTERIES	10/31/2023	85.13	501-00-64070 Work Supplies
Water Utility Fund	1096	KORTENDICK HARDWARE	161499	SHOP LIGHT MOUNTING MATE	10/31/2023	7.31	500-00-64240 Building Repairs & Maintenance
Sewer Utility Fund	1096	KORTENDICK HARDWARE	161499	SHOP LIGHT MOUNTING MATE	10/31/2023	7.30	501-00-64240 Building Repairs & Maintenance
Water Utility Fund	1096	KORTENDICK HARDWARE	161601	AIR FILTER, SAWZALL BLADE, B	11/03/2023	70.71	500-00-64070 Work Supplies
Sewer Utility Fund	1096	KORTENDICK HARDWARE	161601	AIR FILTER, SAWZALL BLADE, B	11/03/2023	70.71	501-00-64070 Work Supplies
Water Utility Fund	1096	KORTENDICK HARDWARE	161963	TOILET SEAT & PARTS	11/20/2023	28.79	500-00-64240 Building Repairs & Maintenance
Sewer Utility Fund	1096	KORTENDICK HARDWARE	161963	TOILET SEAT & PARTS	11/20/2023	28.79	501-00-64240 Building Repairs & Maintenance
Water Utility Fund	1096	KORTENDICK HARDWARE	161986	BATTERIES, VALVE CHECK, SO	11/21/2023	33.09	500-00-64070 Work Supplies
Sewer Utility Fund	1096	KORTENDICK HARDWARE	161986	BATTERIES, VALVE CHECK, SO	11/21/2023	33.10	501-00-64070 Work Supplies
Water Utility Fund	1096	KORTENDICK HARDWARE	161989	PVC PIPE	11/21/2023	6.75	500-00-64070 Work Supplies
Sewer Utility Fund	1096	KORTENDICK HARDWARE	161989	PVC PIPE	11/21/2023	6.74	501-00-64070 Work Supplies
Water Utility Fund	1096	KORTENDICK HARDWARE	162095	DOOR SWEEP	11/28/2023	7.19	500-00-64070 Work Supplies
Sewer Utility Fund	1096	KORTENDICK HARDWARE	162095	DOOR SWEEP	11/28/2023	7.20	501-00-64070 Work Supplies
Total KORTENDICK HARDWARE:						709.58	
<b>MENARDS RACINE</b>							
Water Utility Fund	1281	MENARDS RACINE	75414	PROPANE CYLINDER	10/26/2023	253.98	500-00-64110 Small Equipment
Water Utility Fund	1281	MENARDS RACINE	75414	WORK SUPPLIES	10/26/2023	20.95	500-00-64240 Building Repairs & Maintenance
Sewer Utility Fund	1281	MENARDS RACINE	75414	WORK SUPPLIES	10/26/2023	20.95	501-00-64240 Building Repairs & Maintenance
Water Utility Fund	1281	MENARDS RACINE	75681	SHOP LIGHTS	10/31/2023	39.99	500-00-64240 Building Repairs & Maintenance
Sewer Utility Fund	1281	MENARDS RACINE	75681	BATTERIES & E-STAR DEHUMID	10/31/2023	336.43	501-00-64070 Work Supplies
Sewer Utility Fund	1281	MENARDS RACINE	75681	SHOP LIGHTS	10/31/2023	39.99	501-00-64240 Building Repairs & Maintenance
Total MENARDS RACINE:						712.29	
<b>MIDWEST FORMS &amp; SUPPLY, LLC</b>							
Water Utility Fund	9262	MIDWEST FORMS & SUPPLY, LL	7405	MARKING PAINT	10/25/2023	554.40	500-00-64070 Work Supplies
Sewer Utility Fund	9262	MIDWEST FORMS & SUPPLY, LL	7405	MARKING PAINT	10/25/2023	306.54	501-00-64070 Work Supplies
Storm Water Utility Fund	9262	MIDWEST FORMS & SUPPLY, LL	7405	MARKING PAINT	10/25/2023	306.54	502-00-64070 Work Supplies
Total MIDWEST FORMS & SUPPLY, LLC:						1,167.48	
<b>MILWAUKEE LIGHTBULBS</b>							
Water Utility Fund	1337	MILWAUKEE LIGHTBULBS	0257457-IN	LAMPS AND BALLASTS FOR OF	10/31/2023	62.83	500-00-64240 Building Repairs & Maintenance
Sewer Utility Fund	1337	MILWAUKEE LIGHTBULBS	0257457-IN	LAMPS AND BALLASTS FOR OF	10/31/2023	62.83	501-00-64240 Building Repairs & Maintenance
Total MILWAUKEE LIGHTBULBS:						125.66	

FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
<b>NEWPORT BUILDERS</b>							
Sewer Utility Fund	9144	NEWPORT BUILDERS	11212023	RECONCILIATION REQUEST - H	11/21/2023	418,633.36	501-18736-000 CIP-Hoods Creek Attenuation
Total NEWPORT BUILDERS:						418,633.36	
<b>NORTH AMERICAN SAFETY SYSTEMS</b>							
Water Utility Fund	1409	NORTH AMERICAN SAFETY SY	23-1709	ONSITE TRAINING; E.DEAN	11/29/2023	400.00	500-00-51300 Education/Training/Conferences
Sewer Utility Fund	1409	NORTH AMERICAN SAFETY SY	23-1709	ONSITE TRAINING; E.DEAN	11/29/2023	400.00	501-00-51300 Education/Training/Conferences
Total NORTH AMERICAN SAFETY SYSTEMS:						800.00	
<b>NORTHERN LAKE SERVICE, INC</b>							
Water Utility Fund	1411	NORTHERN LAKE SERVICE, IN	2318920	WATER SAMPLES	10/31/2023	27.50	500-00-62560 Water Sampling and Testing
Water Utility Fund	1411	NORTHERN LAKE SERVICE, IN	2319801	WATER SAMPLES	11/15/2023	681.48	500-00-62560 Water Sampling and Testing
Total NORTHERN LAKE SERVICE, INC:						708.98	
<b>OAK CREEK WATER UTILITY</b>							
Water Utility Fund	1423	OAK CREEK WATER UTILITY	5250	WATER TESTS	10/23/2023	365.00	500-00-62560 Water Sampling and Testing
Water Utility Fund	1423	OAK CREEK WATER UTILITY	5257	WATER TESTS	11/03/2023	365.00	500-00-62560 Water Sampling and Testing
Total OAK CREEK WATER UTILITY:						730.00	
<b>RACINE WATER &amp; WASTEWATER UTILITIES</b>							
Water Utility Fund	1574	RACINE WATER & WASTEWATE	WAINV-16980	Q3-2023; BAC-T SAMPLES	10/26/2023	1,350.00	500-00-62560 Water Sampling and Testing
Total RACINE WATER & WASTEWATER UTILITIES:						1,350.00	
<b>SME SEASONAL SERVICES LLC</b>							
Storm Water Utility Fund	1813	SME SEASONAL SERVICES LL	6822	MOWING - 5 1/2 & CHARLES (10	11/10/2023	178.50	502-00-64260 Grounds Repairs & Maintenance
Storm Water Utility Fund	1813	SME SEASONAL SERVICES LL	6833	MOWING - SINGLE CUT OF ALL	11/10/2023	2,300.00	502-00-64260 Grounds Repairs & Maintenance
Total SME SEASONAL SERVICES LLC:						2,478.50	
<b>TOTAL ENERGY SYSTEMS LLC</b>							
Sewer Utility Fund	1999	TOTAL ENERGY SYSTEMS LLC	INV108163	GENERATOR REPAIR	10/25/2023	711.50	501-00-64250 Equipment Repairs & Maintenanc
Sewer Utility Fund	1999	TOTAL ENERGY SYSTEMS LLC	INV109233	GENERATOR REPAIR	11/13/2023	6,184.88	501-00-64250 Equipment Repairs & Maintenanc
TOTAL ENERGY SYSTEMS LLC:						6,896.38	

FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
<b>UTILITY VENDOR REFUND</b>							
Sewer Utility Fund	8996	UTILITY VENDOR REFUND	003-6001-00 1	DUPLICATE SEWER PAYMENT	10/27/2023	170.00	501-13120-000 Workhorse receivable
Total UTILITY VENDOR REFUND:						170.00	
Grand Totals:						477,147.72	

**PAYMENT TOTALS BY FUND**

Sewer Utility Fund	\$442,467.74
Storm Water Utility Fund	\$ 8,006.67
Water Utility Fund	\$ 26,673.31
<b>TOTAL</b>	<b>\$477,147.72</b>

## STH 32 Stream Restoration Project

Storm Water

Contractor

**A.W. Oakes**

Original Contract	\$	<b>279,831.00</b>	
Change Order #1	\$	2,609.29	0.93%
Change Order #2	\$	(9,653.00)	-3.45%
Current Contract	\$	<b>272,787.29</b>	-2.52%
Pay Request #1	\$	33,634.75	
Retainage	\$	1,770.25	
Pay Request #2	\$	49,128.30	
Retainage	\$	2,585.70	
Pay Request #3	\$	124,555.45	
Retainage	\$	6,555.55	
Pay Request #4	\$	51,829.43	
Retainage	\$	2,727.86	
Pay Request #5	\$	8,639.36	
Pay Request #6	\$	5,000.00	
Remaining on Contract (Including Retainage)	\$	(0.00)	0.0%
Design Engineering	\$	<b>237,128.50</b>	84.74%
Construction Services through 6/1/2023	\$	<b>28,143.39</b>	10.06%
Total Project Cost	\$	<b>538,059.18</b>	



# **CALEDONIA UTILITY DISTRICT PROJECT SUMMARY WORKSHEET**

## **Riverbend Drive Lift Station Safety Site & Forcemain Upgrade**

- Looking to wrap up Facility Plan to have it reviewed by staff. Once reviewed will submit to DNR and look to schedule a Public Hearing.

## **Annual Televising Program – Sanitary Sewer**

- Continue to perform repairs that staff can perform.

## **Water Impact Fee / Sewer Connection Fee Update**

- The Committee of the Whole, at their November 28 meeting, approved and recommended forwarding the REU Ratio table to the Village Board for Approval. This item will be on the Village Board on December 12.

## **Central Lift Station Safety Site & Attenuation Basin**

- The Committee of the Whole, at their November 28 meeting, approved and recommended forwarding to the Village Board the Sole Source purchase of the Air Release Valves for the forcemain. This item will be on the Village Board on December 12.

## **TID #4 Elevated Storage Tank & Adams Road Watermain**

- Elevated Storage Tank Plans at DNR for approval. Awaiting any comments. Plan Commission and Village Board approved entitlement process for Elevated Storage Tank. Final Design meeting

**CALEDONIA UTILITY DISTRICT  
STORM WATER PROJECTS  
PROJECT SUMMARY WORKSHEET**

**Hoods Creek – Aldebaran Brushing Project**

- Contractor has expended the budget for 2023 and will continue work in 2024.

**Douglas Avenue – OMG Ditch Project**

- Final work for restoration completed the first week of November. Change Order #3 on agenda for miscellaneous quantities. The Final Pay Request has been received and Final Acceptance is recommended.

**Turtle Creek Restoration**

- Southern Wisconsin Appraisal meeting with owners to discuss easement acquisition. Will be working with Great Lake Tree to remove some of the trees that are creating issues in the Klema Ditch.
- Discussed 2 properties with Southern Wisconsin Appraisal for various items. Will be providing appropriate easement documents when created.

# MEMORANDUM

**DATE:** Tuesday, November 28, 2023

**TO:** Caledonia Utility District

**FROM:** Anthony A. Bunkelman P.E.  
Public Services Director



**RE:** Authorization of Signature – Professional Services Contract –  
Information & Education Program for Meeting the Department of  
Natural Resources Storm Water Permit Requirements – Root Pike  
WIN

## BACKGROUND INFORMATION

As part of the Village's MS4 Permit, the Village is required to provide Information, Education, and Awareness to its residents and the general public about various Storm Water Issues. To meet these requirements, the Village of Caledonia joined the Southeast Wisconsin Clean Water Network, which is 20 municipalities and UW Parkside, to pool resources and to make this a more regional approach. For more than 14 years, the Southeastern Wisconsin Clean Water Network utilized the Respect our Waters Storm Water Education and Outreach Program. This program was contracted through Root Pike Watershed Initiative Network.

The Root Pike Watershed Initiative Network is still interested in performing the Respect Our Waters Storm Water Education and Outreach Program and has prepared a Professional Services Contract for 2 years to continue to meet these requirements. The cost of these services for 2 years is \$9,088. This is a slight increase (2%) from the previous contract, but this is still a low price to pay to ensure that the Village meets the requirement in the MS4 Permit.

I recommend that the Caledonia Utility District move to approve the Professional Services Contract with Root Pike Watershed Initiative Network to continue to perform the Respect Our Waters Storm Water Education and Outreach Program.

## RECOMMENDATION

**Move to approve the Professional Services Contract with the Root Pike Watershed Initiative Network for the Respect Our Waters Storm Water Education and Outreach Program for 2 years with the not to exceed amount of \$9,088 and authorize the Public Services Director to execute the Contract.**



*Restoring, Protecting and Sustaining the Root-Pike Basin*

November 3, 2023

Anthony A. Bunkelman P.E.  
Storm Water District Engineer – Village of Caledonia  
5043 Chester Lane  
Racine, WI 53402

**RE: STORMWATER PERMIT REQUIREMENTS FOR COMMUNICATIONS AND OUTREACH**

Dear Tony,

Root-Pike Watershed Initiative Network is once again pleased to offer our *Respect Our Waters* public outreach services to help the Village of Caledonia meet your DNR stormwater permit requirements. Through the creation of the *Respect Our Waters* program, we have been educating residents of southeastern Wisconsin about stormwater and water quality for more than a decade. Attached you will find a new contract for 2024 and 2025 to continue our cooperative pursuit of cleaner water, less flooding, and a stronger sense of place.

While the DNR requirements and our services and commitment remain the same, the rates for the two-year agreement have increased 2%. Root-Pike WIN has worked hard to keep costs contained over the last four years, and this increase is due to COVID impacts, inflation, and cost of living adjustments. With 19 other municipalities that we serve, Root-Pike WIN looks for every opportunity to make bulk purchases to achieve lower cost per impression for items such as printed mailers and social media posts. We are mission-driven, so we not only do this work at not-for-profit rates, but we do it with a passion for clean water.

In the following pages, you will find a report on the value Root-Pike WIN has provided, ways we meet the DNR's specific requirements, and a slightly revised two-year contract with the adjusted budget. The education and outreach requirements were confirmed with DNR stormwater specialist, Samantha Katt on August 31<sup>st</sup>, 2023. Should MS4 updates occur during the contract period, changes to the program will be implemented to meet the revised requirements. **Should you decide NOT to renew your contract with Root-Pike WIN, your municipality will be responsible for meeting these requirements on your own.**

For more than 25 years, we have been part of this community and for that we are thankful. No other 501(c)3 is dedicated to restoring, protecting, and sustaining the rivers in SE Wisconsin with DNR/EPA-approved watershed restoration plans. **The deadline for renewal with Root-Pike WIN is December 15, 2023.** We look forward to continuing this valuable relationship with the Village of Caledonia.

Very Sincerely,

Laura Buska  
Respect Our Waters Program Manager  
(262) 358-3394



## *Restoring, Protecting and Sustaining the Root-Pike Basin*

### **HISTORY**

Root-Pike WIN founded the *Respect Our Waters* program in 2009 as a way for municipalities to provide stormwater education and outreach to residents, and municipal leaders and staff in an efficient and cost-effective manner. The *Respect Our Waters* program educates residents through informational mailers, social media, emails and events through a collective of municipalities who share the cost of the program. The program is designed to change homeowner habits related to water quality while realizing economies of scale with regard to the development and management of the program. The Southeastern Wisconsin Clean Water Network (SWCWN) works with municipal leaders and staff to implement best practices for improving the quality of stormwater runoff and reducing flooding. Root-Pike WIN also advances projects and programs in our DNR/EPA-approved Nine Key Element watershed restoration plans, by working with SWCWN members. This public-private partnership is a win/win for our watersheds and SWCWN members as projects in these plans measurably reduce flooding, increase water quality, improve native habitats, and create a stronger sense of place in your municipality. Below is a recap of the 2022-23 program:

### **Respect Our Waters**

The *Respect Our Waters* program helps achieve key Education and Public Outreach recommendations in our Watershed Restoration Plans. We connect with the community through mailers, social media posts, online campaigns, articles, radio appearances, website hosting, and event giveaways. We also educate through in-person school and public presentations, volunteer days, workshops, and attendance at community events with interactive displays that share stormwater information in fun and memorable ways.

In 2023, the *Respect Our Waters* program was a part of ~ 70 events throughout Southeastern Wisconsin. Collaborations with the *Pollinator Patch* program brought to life turf-to-native prairie "living classroom" transformations at three schools in underserved areas of the Root-Pike basin. In all, the *Respect Our Waters* program reached over 7,400 event attendees, students, and volunteers about stormwater issues and solutions, and offered hundreds of free educational giveaways that promoted best management practices. In the digital realm, the *Respect Our Waters* program revamped its website, emails were sent to elected officials and hundreds of local individuals, a stormwater infiltration mailer was sent, and the *Watershed Wednesday* social media campaign with collaborator *Sweet Water* continued. In all, 11 articles, 14 emails, 1 mailer, 360 printed flyers, 13 boosted social media posts, and the relaunched website reached over 300,000 people on a variety of stormwater topics, pollutants, and solutions.

### **Southeastern Wisconsin Clean Water Network**

Part of *Respect Our Waters*, the SWCWN is made up of 21 municipalities plus the University of Wisconsin-Parkside. The goal of this program is to bring stormwater runoff pollution awareness and best management practices to these stormwater permit holders' residents. In 2020, Root-Pike WIN and *WI Salt Wise* began collaborating to provide education and events for members of the SWCWN. Collaborations will continue and promotions of *Smart Salting* training sessions virtually and in-person will be provided to DPWs. Meetings of the SWCWN will occur on a quarterly basis, either in-person or virtually, to discuss solutions to keep our water clean.

### **General Education and Outreach**

Root-Pike WIN is always considering creative, innovative, and engaging ways to connect the public to their watershed. In 2023, Valpak was used for the first time to spread educational information about native plants for stormwater infiltration to 120,000 homeowners. To target individuals impacting through construction, we connected with Municipalities to provide a flyer sharing best management practices to those seeking permits. For DPW's, a winter maintenance open house was offered as a refresh in salt equipment calibration techniques that save Municipalities money and protect from the negative impacts of oversalting. Finally, a new *Stormwater Week* campaign began this year with collaborators across the state, releasing 2 webinars and numerous press releases, articles, interviews, and social media posts throughout Wisconsin to build awareness of stormwater issues and solutions.



*Restoring, Protecting and Sustaining the Root-Pike Basin*

## **MEETING PERMIT REQUIREMENTS**

Root-Pike WIN has been working with municipalities to meet storm water discharge permit requirements with a turnkey communications program funded by a cooperative made up of each municipality and the Department of Natural Resources. The following excerpts that pertain to our services are found in the State of Wisconsin's N.R. 216 storm water discharge permit requirements. Root-Pike WIN confirmed these excerpts and potential updates with the DNR in August 2023. Should MS4 updates occur during the contract period, changes to the program will be implemented to meet the revised requirements:

*"NR 216.07 Permit requirements. The department shall issue permits using the information provided by the applicant and other pertinent information when developing permit conditions. Permits shall, at a minimum, require all of the following:*

*(1) Public education and outreach.*

*(a) A public education and outreach program to distribute materials to the public or conduct equivalent public outreach to increase awareness of storm water impacts on waters of the state. The program shall at a minimum be designed to achieve all of the following:*

- 1. Promote detection and elimination of illicit discharges or water quality impacts associated with discharges from municipal separate storm sewer systems.*
- 2. Inform and educate the public to facilitate the proper management of materials and encourage the public to change their behavior that may cause storm water pollution from sources including automobiles, pets, household hazardous waste and household practices.*
- 3. Promote beneficial onsite reuse of leaves and grass clippings and proper use of lawn and garden fertilizers and pesticides.*
- 4. Promote the management of stream banks and shorelines by riparian landowners to minimize erosion, and restore and enhance the ecological values of the waterway.*
- 5. Promote infiltration of residential storm water runoff from rooftop downspouts, driveways and sidewalks.*

*(b) A program that includes elements to achieve all of the following:*

- 1. Inform and educate those responsible for the design, installation or maintenance of construction site erosion control and storm water management practices on how to design, install and maintain the practices.*
- 2. Target businesses and activities that may pose a storm water contamination concern, and where appropriate, educate specific audiences such as lawn care companies and restaurants on methods of storm water pollution prevention.*
- 3. Promote environmentally sensitive land development designs by developers and designers.*

*Note: The public education and outreach program should be tailored, using a mix of locally appropriate strategies to educate the general public and target specific audiences likely to have significant storm water impacts."*



*Restoring, Protecting and Sustaining the Root-Pike Basin*

# Contract for Professional Services

## **Information & Education Program for Meeting the Department of Natural Resources Storm Water Permit Requirements**

January 1, 2024 to December 31, 2025

*Provided by: Root-Pike Watershed Initiative Network*



*Restoring, Protecting and Sustaining the Root-Pike Basin*

## **PART I: SERVICES**

### **A. PROGRAM Description**

1. The service contract is dated January 1, 2024, and is between Root-Pike Watershed Initiative Network, Inc. (hereinafter referred to as the “Contractor”) and the **Village of Caledonia** (hereinafter referred to as the “Client”). The Contractor will provide services to coordinate and execute a two-year public outreach, education and public participation project for the Client on behalf of Root River, Pike River, Pike Creek, Oak Creek, Wind Point and the Upper Des Plaines watersheds in fulfilling the Information and Education requirements of their State of Wisconsin issued stormwater discharge permits (Wis. Admin. Code, Chapter NR 216). The PROGRAM will continue to be known as *Respect Our Waters* (hereinafter referred to as the “PROGRAM”).
2. The PROGRAM has the following objectives during the term of this contract, per the NR 216 requirements:
  - NR 216.07(1)(b)1. Inform and educate those responsible for the design, installation or maintenance of construction site erosion control and storm water management practices on how to design, install and maintain the practices.
  - NR 216.07(1)(a)2. Inform and educate the public to facilitate the proper management of materials and encourage the public to change their behavior that may cause storm water pollution from sources including automobiles, pets, household hazardous waste and household practices;
  - NR 216.07(1)(a)3. Promote beneficial onsite reuse of leaves and grass clippings and proper use of lawn and garden fertilizers and pesticides;
  - NR 216.07(1)(a)4. Promote the management of stream banks and shorelines by riparian landowners to minimize erosion, and restore and enhance the ecological values of the waterway;
  - NR 216.07(1)(a)5. Promote infiltration of residential storm water runoff from rooftop downspouts, driveways and sidewalks;
3. The PROGRAM may address the following requirements should the opportunity arise:
  - NR 216.07(1)(a)1. Promote detection and elimination of illicit discharges or water quality impacts associated with discharges from municipal separate storm sewer systems;
  - NR 216.07(1)(b)2. Target businesses and activities that may pose a storm water contamination concern, and where appropriate, educate specific audiences such as lawn care companies and restaurants on methods of storm water pollution prevention;
  - NR 216.07(1)(b)3. Promote environmentally sensitive land development designs by developers and designers.





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## B. Scope

**Target Audience:** Based on the results from the 2010 and 2016 household surveys administered under this PROGRAM, the Contractor will target the ‘homeowner families with children’ demographic who live in the geographic area served by the Client and perform their own yard work, wash their cars, and walk their dogs. The Contractor will also target specific sub-watershed units if they are defined in one of our EPA/DNR-approved Nine Key Element Watershed Restoration Plans as a pollutant “hotspot”.

**Message:** The Contractor, and originator of the Respect Our Waters PROGRAM, will continue to utilize creative, innovate, and engaging ways to connect the public to their watershed. Outreach efforts will focus on educating individuals on managing pet waste, yard waste, lawn chemicals, leaky car chemicals, rain barrels, rain gardens, and illicit dumping into storm sewers to keep our waters clean. All other outreach activities, as outlined in the scope of work below, will use similar messaging to meet objectives described in section A.3. of this contract. The Contractor will also use the data, conclusions and recommendations in our three, EPA/DNR-approved Nine Key Element Watershed Restoration Plans for education and outreach to a variety of audiences with targeted messaging.

### 1. Community Outreach Events

Goal: Participate in at least one event in your municipality to promulgate the *Respect Our Waters* campaign.

Deliverable: The Contractor will participate in a minimum of one community event over the course of the 2024-2025 contract period for the Respect Our Waters campaign. The Contractor will engage event attendees using a stormwater runoff model demonstration, engaging displays, children’s games and activities, and numerous free giveaway publications and other items. The Contractor will provide all the necessary components to complete this part of the program by coordinating and staffing the events, supplying the materials and equipment already in the Contractors possession. This also covers travel costs and insurance. The events satisfy:

- NR 216.07(1)(a)2. Inform and educate the public about runoff pollutant issues/solutions
- NR 216.07(1)(a)3. Promote beneficial onsite reuse of lawn waste
- NR 216.07(1)(a)4. Promote healthy stream banks and shorelines
- NR 216.07(1)(a)5. Promote landowner infiltration solutions



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## **2. Storm Water “Hot Spots” Targeting**

Goal: Reduce pollution numbers for total suspended solids, chlorides phosphorus, *E. coli* and nitrogen via targeted outreach to residents in a specific Nine Element Plan-identified pollutant hotspot area in each member municipality. Reduce pollution numbers for phosphorus, *E. coli* and nitrogen.

Deliverable: The Contractor will raise awareness of hotspot issues and provide solutions to residents using targeted outreach in the form of mailings and in-person contact. The Contractor will use the EPA/DNR-approved Nine Key Element Watershed Restoration Plans as the default guide for outreach and solutions. The Contractor will adapt the messaging as necessary where a Nine Key Element plan does not exist or cover a specific runoff pollutant issue. The Contractor will work to bring awareness and action to issue and may work with The Client and/or landowner to resolve the issue as part of physical project under a separate contract/project. This outreach satisfies:

- NR 216.07(1)(a)2. Inform and educate the public about runoff pollutant issues/solutions
- NR 216.07(1)(a)3. Promote beneficial onsite reuse of lawn waste
- NR 216.07(1)(a)4. Promote healthy stream banks and shorelines
- NR 216.07(1)(a)5. Promote landowner infiltration solutions

## **3. Public Awareness Communications**

Goal: Promote solutions that address the critical watershed issues in local print and online publications.

Deliverable: The Contractor will create story pitches regarding the PROGRAM that get published in print and online to audiences using more targeted local media (newspapers, community magazines, and municipal sites, etc.). This activity satisfies:

- NR 216.07(1)(b)1. Educate contractors and selectively monitor construction erosion control
- NR 216.07(1)(a)2. Inform and educate the public about runoff pollutant issues/solutions
- NR 216.07(1)(a)3. Promote beneficial onsite reuse of lawn waste
- NR 216.07(1)(a)4. Promote healthy stream banks and shorelines
- NR 216.07(1)(a)5. Promote landowner infiltration solutions

## **4. Social Media Communications**

Goal: Bring awareness to urban watershed issues and solutions for homeowners through ongoing mass communications.

Deliverable: The Contractor will develop content, create website updates and implement social media posts. This activity satisfies:

- NR 216.07(1)(b)1. Educate contractors and selectively monitor construction erosion control
- NR 216.07(1)(a)2. Inform and educate the public about runoff pollutant issues/solutions
- NR 216.07(1)(a)3. Promote beneficial onsite reuse of lawn waste
- NR 216.07(1)(a)4. Promote healthy stream banks and shorelines
- NR 216.07(1)(a)5. Promote landowner infiltration solutions



*Restoring, Protecting and Sustaining the Root-Pike Basin*

**5. Construction Site Erosion Prevention**

Goal: Communicate the importance of erosion control practices to local construction companies by working with field staff and leadership.

Deliverable: The contractor will Identify and communicate with construction leaders about the importance of erosion control during rain events. This activity satisfies:

- NR 216.07(1)(b)1. Educate contractors and selectively monitor construction sites



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## C. PROGRAM Budget\*

	Caledonia
<b>INCOME</b>	
2022-23 Local Share	\$ 8,910
<b>2024-25 Budget</b>	<b>\$ 9,088</b>
<b>ACTIVITIES</b>	
1) Outreach Events (Public & SWCWN)	\$ 2,726
2) Target Nine Element Plan Hotspot	\$ 2,726
3) News Story Pitches	\$ 909
4) Outreach Media	\$ 909
5) Construction Communications	\$ 909
<b>Subtotal Program Costs</b>	<b>\$ 8,179</b>
Fiscal Agent Fees	\$ 909
<b>Total Expenses</b>	<b>\$ 9,088</b>

\*The scope and activities of the *Respect Our Waters* program may change depending on conditions (such as COVID and/or inflation), needs and opportunities, but the overall cost of the program will not.



*Restoring, Protecting and Sustaining the Root-Pike Basin*

## **D. Assumptions & Conditions**

This agreement is subject to the following terms & conditions:

1. The Client agrees to make an annual payment to the Contractor to fund the PROGRAM in the dollar amount described in the Proposal and this Contract and agree to make payments no later than February 1, 2024 and February 1, 2025 unless other arrangements are made with the Client.
2. The Contractor agrees to be the fiscal agent for the duration (two years) of the PROGRAM, commencing January 1, 2024 and ending December 31, 2025 and will receive financial remuneration (built into PROGRAM budget) for its services to cover costs incurred for program management, accounting, operations, insurance and legal needs.
3. The Contractor will complete the tasks listed in the Scope between January 1, 2024 and December 31, 2025.
4. The Contractor will submit an annual report to the Client on or before January 31, 2025 and January 31, 2026.
5. Should the DNR change the education and outreach requirements of your storm water discharge permit before the term of this contract expires, The Contractor will adjust the scope, schedule and costs to meet the new requirements, and provide The Client a revised contract for approval of the new PROGRAM.

## **E. Team**

The Contractor will provide the following personnel to provide services to the Client. If any of these persons become unavailable, the Contractor will notify and secure approval from the Client prior to replacement of such persons. Any person replacing team members shall have similar or superior qualifications. The following personnel will provide services for this PROGRAM:

- Laura Buska, Program Manager, Root-Pike Watershed Initiative Network (Primary Contact)
- Kristi Heuser, SWCWN Coordinator, Root-Pike Watershed Initiative Network
- Dave Giordano, Executive Director, Root-Pike Watershed Initiative Network
- Amy Kolb, Accounting, Root-Pike Watershed Initiative Network



*Restoring, Protecting and Sustaining the Root-Pike Basin*

## **F. Decisions**

The Contractor will follow the approved budget and scope of services with input from the Client to implement the PROGRAM. Most content can be developed and implemented by the Contractor, but final content and reach decisions will be made by the Client should a dispute arise.



*Restoring, Protecting and Sustaining the Root-Pike Basin*

## **PART II: COMPENSATION**

### **A. Compensation**

**Compensation** to the Contractor for services rendered January 1, 2024 through December 31, 2025 (two years) by employees working on the PROGRAM in accordance with PART I, services of the Agreement will be for a not-to-exceed fee of \$9,088 to implement the PROGRAM over the two-year term of the contract. This fee includes salary and reimbursable items including mileage, copies, printing, postage, materials, subcontractors, promotional items and other reimbursable expenses in the PROGRAM budget directly related to the implementation of the PROGRAM, as well as financial remuneration for the Client.

### **B. Billing and Payment**

1. The Contractor will provide a yearly accounting report of all PROGRAM expenses during the term of the contract from January 1, 2024 to December 31, 2025. The Contractor can provide standard reports from QuickBooks as needed by the Client.
2. The Contractor shall maintain accounting records of its costs in accordance with generally accepted accounting practices. Access to such records will be provided during normal business hours with reasonable notice during the term of this Agreement and for 3 years after completion.



*Restoring, Protecting and Sustaining the Root-Pike Basin*

## **PART III: CONTRACTOR STANDARD TERMS AND CONDITIONS**

**STANDARD OF CARE.** Services shall be performed in accordance with the standard of professional practice ordinarily exercised by the applicable profession at the time and within the locality where the services are performed. No warranty or guarantee, express or implied is provided, including warranties or guarantees contained in any uniform commercial code. The Contractor, upon notice from the Client, will re-perform any non-conforming services without additional compensation. If deficiencies are not corrected in a timely manner, the Client may cause the same to be corrected and deduct costs incurred by reason of such deficiency from the Contractor's compensation.

**CHANGE OF SCOPE.** The scope of Services set forth in this Agreement is based on the facts known at the time of execution of this Agreement, including, if applicable, information supplied by the Contractor and the Client. The Contractor will promptly notify the Client if any perceived changes of scope in writing and the parties shall negotiate modifications to the Agreement with input from the Wisconsin Department of Natural Resources. No payment for services beyond those described in the original scope will be authorized without a written modification to this Agreement.

**DELAYS.** If events beyond the control of the Contractor, including, but not limited to, fire, flood, explosion, riot, strike, war, process shutdown, act of God or the public enemy, and act or regulation of any government agency, result in delay to any schedule established in this Agreement, such schedule shall be extended for a period equal to the delay.

**TERMINATION/SUSPENSION.** Either party may terminate this Agreement upon 30 days written notice to the other party in the event of substantial failure by the other party to perform in accordance with its obligations under this Agreement. If the Contractor fails to correct or cause to be corrected such failure to perform within ten (10) days of written notice by the Client, the Contractor shall be deemed to be in default of this Agreement. The Contractor will return all unused and uncommitted funds within 30 days.

**REUSE OF INSTRUMENTS OF SERVICE.** All reports, publications, artwork, electronic files, and other documents prepared by the Contractor as instruments of service shall remain the property of the Contractor. The Contractor shall retain all common law, statutory and other reserved rights, including the copyright thereto. Reuse of any instruments of service including electronic media, for any purpose other than that for which such documents or deliverables were originally prepared, or alteration of such documents or deliverables without written authorization or adaptation by the Contractor for the intended purposes, shall be at the Contractor's sole risk.

**VENDOR COSTS.** Any opinion of vendor costs prepared by the Contractor is supplied for the general guidance only. Since the Contractor has no control over bidding or market conditions, the Contractor cannot guarantee the accuracy of such opinions as compared to contract bids or actual costs to the Contractor or its clients.





*Restoring, Protecting and Sustaining the Root-Pike Basin*

**SAFETY.** The Contractor shall establish and maintain PROGRAMs and procedures for the safety of its employees. The Contractor specifically disclaims an authority or responsibility for general job safety and safety of persons other than the Contractor’s employees.

**MODIFICATION.** This Agreement, upon execution by both parties hereto, can be modified only by written instrument signed by both parties.

**INSURANCE.** The Contractor shall maintain insurance coverage as described herein:

Comprehensive General Liability	\$1,000,000	occurrence/aggregate
Automobile Liability	\$1,000,000	occurrence/aggregate
Worker’s Compensation/Employers Liability	Statutory	
Professional Liability	\$1,000,000	occurrence/aggregate
Umbrella Liability	\$1,000,000	occurrence/aggregate

**INDEMNIFICATION AND HOLD HARMLESS.** To the fullest extent permitted by law, the Contractor shall indemnify and hold the Client harmless from and against any and all claims of any party or parties that make a demand, bring a claim, or institute a legal action allegedly arising out of the Agreement and/or the PROGRAM and the Contractor further agrees to indemnify and hold the Client harmless for any loss, liability, and damages sustained by the Contractor, its agents, employees, and representatives by reason of injury or death to persons or damage to tangible property. This provision extends to all attorney’s fees, costs, interest and resulting settlement amounts and/or judgments.

**ASSIGNMENT.** The rights and obligations of this Agreement cannot be assigned by either party without written permission of the other party.

**NO WAIVER.** No waiver by either party of any default by the other party in the performance of any particular section of this Agreement shall invalidate another section of the Agreement or operate as a waiver of any future default, whether like or different in character.

**SEVERABILITY.** The various terms, provisions and covenants herein contained shall be deemed to be separate and severable, and the invalidity or unenforceability of any of them shall not affect or impair the validity or enforceability of the remainder.

**INDEPENDENT CONTRACTOR STATUS.** The Contractor has “Independent Contractor Status” and will maintain complete control of and responsibility for its employees, agents, methods, and operations.



*Restoring, Protecting and Sustaining the Root-Pike Basin*

DISPUTE RESOLUTION. In the event of a dispute arising out of or relating to this Agreement or the services to be rendered hereunder, the Contractor and the Client agree to attempt to resolve such disputes in the following manner. First, the parties agree to attempt to resolve such disputes through direct negotiations between the appropriate representatives of each party. Second, if such negotiations are not fully successful, the parties agree to attempt to resolve any remaining dispute by formal nonbinding mediation conducted in accordance with rules and procedures to be agreed upon by the parties. Third, if such negotiations fail, either party may pursue an action in the circuit courts of the State of Wisconsin.



*Restoring, Protecting and Sustaining the Root-Pike Basin*

## PART IV: AGREEMENT

This Agreement is by and between the Contractor:

**Root-Pike Watershed Initiative Network**

4116 12<sup>th</sup> St.

Kenosha, WI 53144

262-883-4018 / dave@rootpikewin.org

and

The Client

**Village of Caledonia**

Who agree as follows:

Root-Pike Watershed Initiative Network hereby agrees to perform the services set forth in Part I/Services for the compensation set forth in Part II/compensation. Root-Pike Watershed Initiative Network shall be authorized to commence the Services upon execution of this Agreement and written authorization to proceed from the **Village of Caledonia**. The **Village of Caledonia** and the Root-Pike Watershed Initiative Network agree that this signature page, together with Parts I-III, constitute the entire Agreement between them relating to the PROGRAM.

Approved for

**Root-Pike Watershed Initiative Network**

Approved for

**Village of Caledonia**

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

# MEMORANDUM

**DATE:** Tuesday, November 28, 2023

**TO:** Caledonia Utility District

**FROM:** Anthony A. Bunkelman P.E.  
Public Services Director



**RE:** Change Order #3 – STH 32 Stream Restoration Project

## BACKGROUND INFORMATION

Change Order #3 is a miscellaneous change order that adjusts the quantities of the project to match the quantities that were installed as part of the project. There were 5 items that were adjusted to match the asbuilt quantities. The total of all of the pluses and minuses equal a decrease in the project cost of \$9,653.00.

This Change Order adjusts the contract by -\$9,653.00 or -3.45% of the original contract. Overall Change Orders have adjusted the contract by -2.52%.

It is recommended that Change Order #3 be approved.

## RECOMMENDATION

**Move to approve Change Order #3 in the amount of \$9,653.00 for the STH 32 Stream Restoration Project.**

**SECTION 00 63 62  
CHANGE ORDER**

No. 3

Date of Issuance: 11/14/2023	Effective Date: 11/14/2023
Owner: Caledonia Utility District	Owner's Contract No.: 19C035.01
Contractor: A.W. Oakes and Son, Inc.	Contractor's Project No.:
Engineer: Foth Infrastructure & Environment, LLC	Engineer's Project No.: 19C035.01
Project: STH 32 Stream Restoration	Contract Name:

The Contract is modified as follows upon execution of this Change Order:

Description: Final rebalance of unit price quantities.

Attachments: Rebalance calculation spreadsheet.

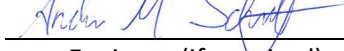
All increases to contract price shall include costs for bonding and insurance.

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes in Milestones if applicable]</i>
Original Contract Price:  \$ <u>279,831.00</u>	Original Contract Times: Substantial Completion: <u>March 17, 2023</u> Ready for Final Payment: <u>June 30, 2023</u> days or dates
[Increase] [Decrease] from previously approved Change Orders No. <u>1</u> to No. <u>2</u> :  \$ <u>2,609.29</u>	[Increase] [Decrease] from previously approved Change Orders No. <u>  </u> to No. <u>  </u> : Substantial Completion: <u>NA</u> Ready for Final Payment: <u>NA</u> days
Contract Price prior to this Change Order:  \$ <u>282,440.29</u>	Contract Times prior to this Change Order: Substantial Completion: <u>March 17, 2023</u> Ready for Final Payment: <u>June 30, 2023</u> days or dates
[Increase] [Decrease] of this Change Order:  \$ <u>9,653.00</u>	[Increase] [Decrease] of this Change Order: Substantial Completion: <u>No Change</u> Ready for Final Payment: <u>No Change</u> days or dates
Contract Price incorporating this Change Order:  \$ <u>272,787.29</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>March 17, 2023</u> Ready for Final Payment: <u>June 30, 2023</u> days or dates

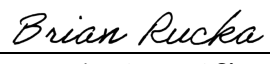
RECOMMENDED:

ACCEPTED:

ACCEPTED:

By:   
Engineer (if required)  
Title: Project Manager  
Date: 11/14/2023

By: \_\_\_\_\_  
Owner (Authorized Signature)  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

By:   
Contractor (Authorized Signature)  
Title: Project Manager  
Date: 11/15/2023

Approved by Funding Agency (if applicable)

By: \_\_\_\_\_  
Title: \_\_\_\_\_

Date: \_\_\_\_\_

Bid Item	Description	Current Contract Quantity	Unit	Unit Price	Total
1	Mobilization	1	LS	\$ 14,000.00	\$ 14,000.00
2	Clearing and Grubbing	1	LS	\$ 12,000.00	\$ 12,000.00
3	Tree Removal	1,910	ID	\$ 18.00	\$ 34,380.00
4	Traffic Control	1	LS	\$ 2,700.00	\$ 2,700.00
5	Silt Fence or Geotextile Sediment Logs	2,504	LF	\$ 2.60	\$ 6,510.40
6	Stone Tracking Pad	1	EA	\$ 3,700.00	\$ 3,700.00
7	Topsoil	830	CY	\$ 23.00	\$ 19,090.00
8	Temporary 36" Culvert	47	LF	\$ 490.00	\$ 23,030.00
9	Channel Cleanup	1	LS	\$ 16,000.00	\$ 16,000.00
10	Salvage farm implement	1	EA	\$ 400.00	\$ 400.00
11	Common Excavation	1,821	CY	\$ 30.00	\$ 54,630.00
12	Repair Drain Tile	80	LF	\$ 15.00	\$ 1,200.00
13	Ford Crossing Installation	1	LS	\$ 30,000.00	\$ 30,000.00
14	Heavy Riprap	90	CY	\$ 110.00	\$ 9,900.00
15	3/4" Dense Graded Base	40	TON	\$ 40.00	\$ 1,600.00
16	Topsoil, Seed, Fertilizer, and Erosion Mat	9,256	SY	\$ 2.60	\$ 24,065.60
17	Topsoil, Seed, Fertilizer, and Instaturf Matting	355	SY	\$ 75.00	\$ 26,625.00
CO 2	Ford Crossing Modifications	1	LS	\$ 2,609.29	\$ 2,609.29

Totals= \$282,440.29

Installed Quantity	Installed Total
1	\$ 14,000.00
1	\$ 12,000.00
1910	\$ 34,380.00
1	\$ 2,700.00
0	\$ -
1	\$ 3,700.00
830	\$ 19,090.00
47	\$ 23,030.00
1	\$ 16,000.00
1	\$ 400.00
1821	\$ 54,630.00
0	\$ -
1	\$ 30,000.00
90	\$ 9,900.00
0	\$ -
8980	\$ 23,348.00
360	\$ 27,000.00
1	\$ 2,609.29

\$272,787.29

CO 2 Quantity Adjustment	CO 2 Total Adjustment
0	\$ -
0	\$ -
0	\$ -
0	\$ -
-2,504	\$ (6,510.40)
0	\$ -
0	\$ -
0	\$ -
0	\$ -
0	\$ -
0	\$ -
-80	\$ (1,200.00)
0	\$ -
0	\$ -
-40	\$ (1,600.00)
-276	\$ (717.60)
5	\$ 375.00
0	\$ -

-\$9,653.00

# MEMORANDUM

**DATE:** Tuesday, November 28, 2023

**TO:** Caledonia Utility District

**FROM:** Anthony A. Bunkelman P.E.  
Public Services Director



**RE:** Final Acceptance – STH 32 Stream Restoration Project

## BACKGROUND INFORMATION

A.W. Oakes & Son Inc. has submitted the final pay request for the STH 32 Stream Restoration Project. The work was started late 2022 and was completed in 2023. This payment is for the final adjustment of quantities and retainage.

The Final Lien waivers have been requested and will be submitted prior to issuing the check.


## RECOMMENDATION

**Move to recommend Final Acceptance of the STH 32 Stream Restoration Project.**

# MEMORANDUM

**DATE:** Wednesday, November 29, 2023

**TO:** Caledonia Utility District

**FROM:** Anthony A. Bunkelman P.E.  
Public Services Director 

**RE:** Utility Acceptance – Caledonia Corporate Park – TI Investors of Caledonia LLC

## BACKGROUND INFORMATION

The Village of Caledonia and TI Investors of Caledonia LLC have entered into a Development Agreement for the Commercial/Light Industrial Development of Caledonia Corporate Park. Caledonia Corporate Park requires public improvements such as sanitary sewer, sanitary sewer laterals, watermain, water laterals, and storm water facilities to be installed.

The work for the Caledonia Corporate Park, including the sanitary sewer, sanitary sewer laterals, watermain, water laterals, and storm water facilities have been completed and have been inspected for compliance with the approved plans and specifications. Asbuilt plans are being prepared and will be reviewed when received.

It is hereby recommended that the sanitary sewer, sanitary sewer laterals, watermain, water laterals, and storm water facilities be accepted by the Utility District.

## RECOMMENDATION

**Move to accept the Sanitary Sewer, Sanitary Sewer Laterals, Watermain, Water Laterals, and Storm Water Facilities for the Caledonia Corporate Park subject to a satisfactory review of the Asbuilts and the execution of the Storm Water Pond Easements.**

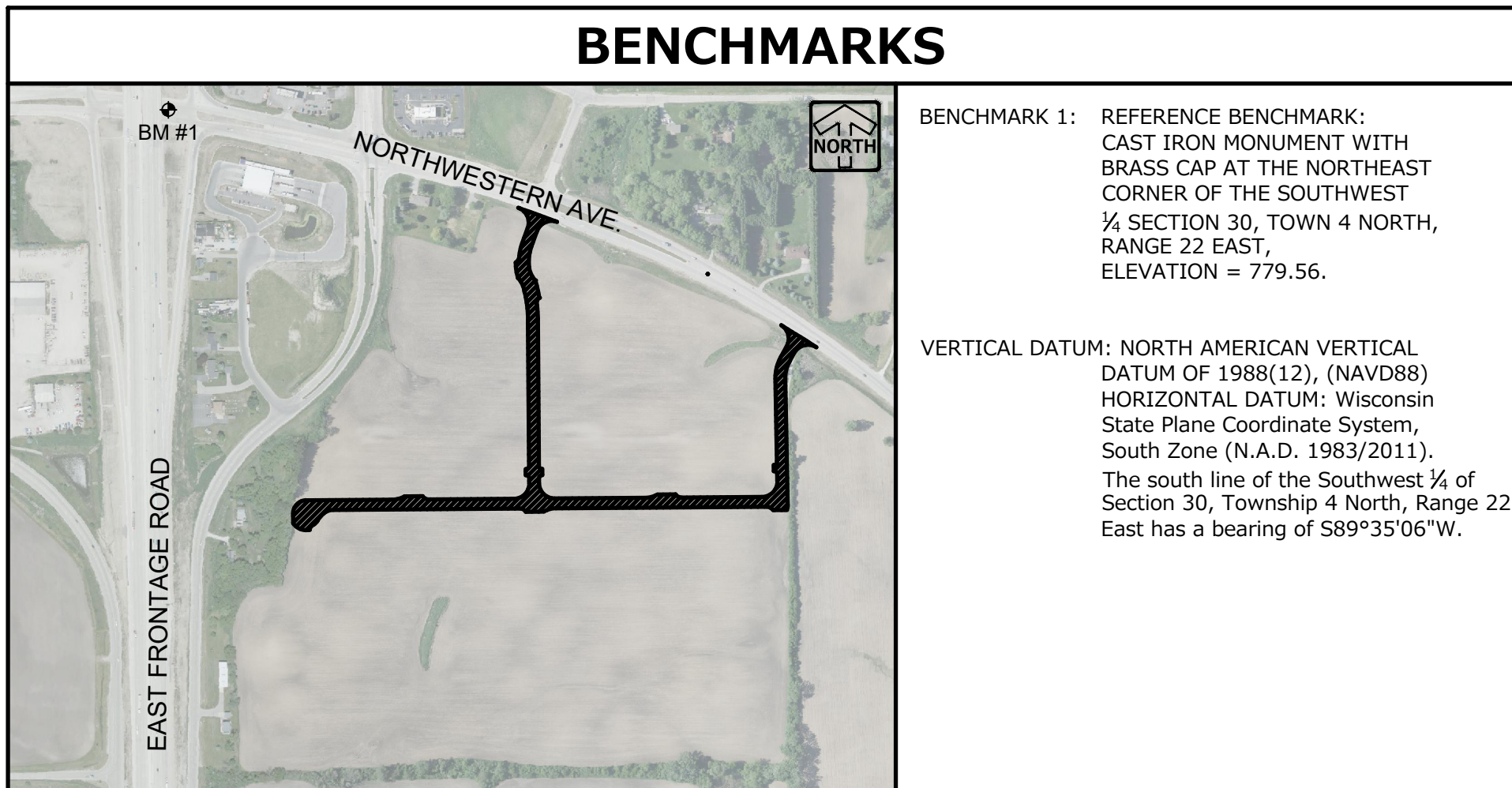
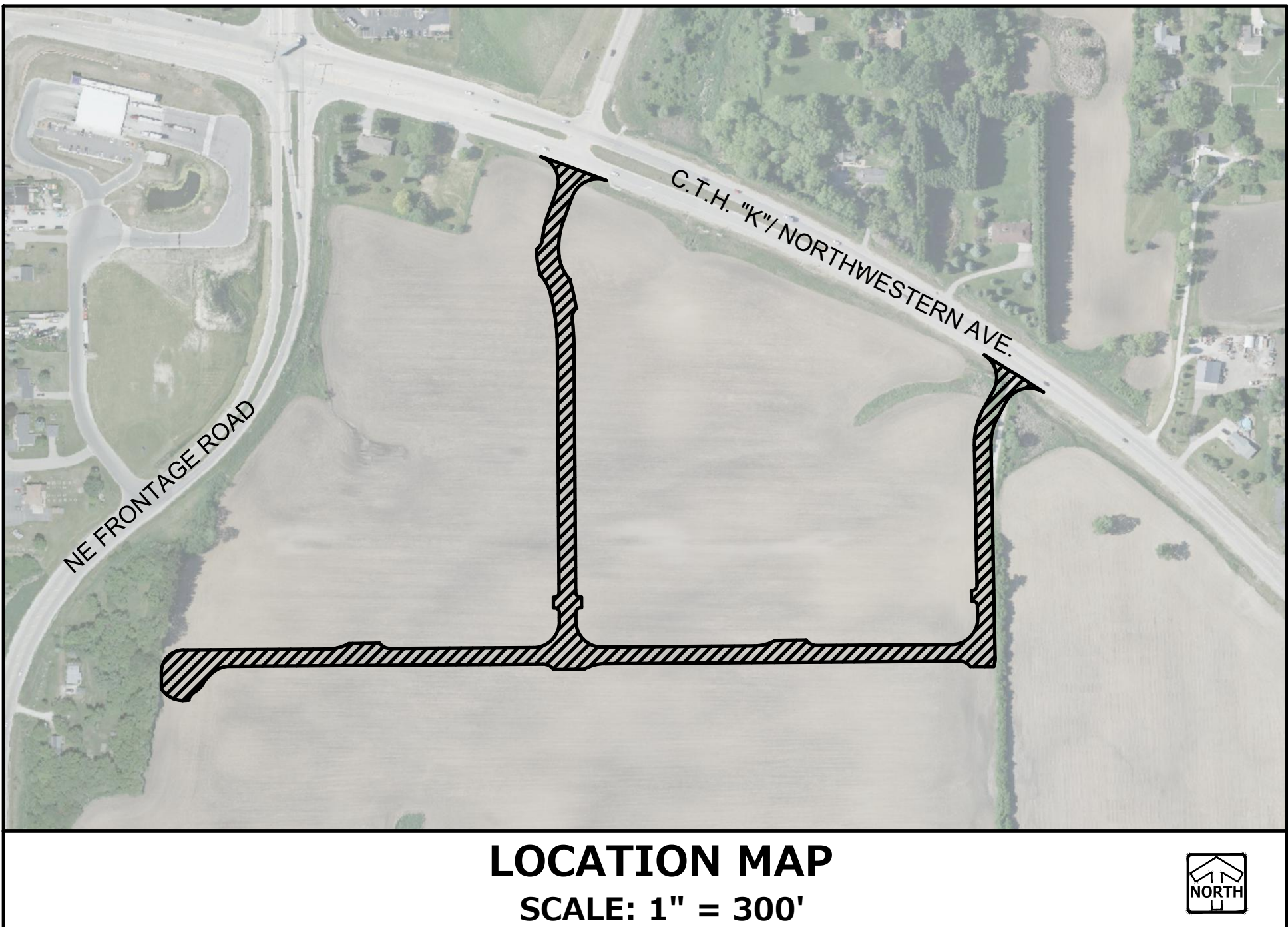


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DESIGNED: AJS  
DRAFTED: ED  
REVIEWED: AJS

PUBLIC CIVIL ENGINEERING INFRASTRUCTURE PLANS  
FOR  
**CALEDONIA CORPORATE PARK  
INFRASTRUCTURE PLANS**  
CALEDONIA, WI  
PLANS PREPARED  
FOR  
**ZILBER**  
PROPERTY GROUP<sup>SM</sup>

LEGEND		
	EXISTING	PROPOSED
SANITARY SEWER MANHOLE		
STORM SEWER MANHOLE		
STORM SEWER AREA DRAIN		
STORM SEWER INLET (ROUND CASTING)		
STORM SEWER INLET (RECTANGULAR CASTING)		
PRECAST FLARED END SECTION		
CONCRETE HEADWALL		
AIR RELEASE ASSEMBLY		
VALVE BOX		
FIRE HYDRANT		
BUFFALO BOX		
CLEANOUT		
SANITARY SEWER		
FORCE MAIN		
STORM SEWER		
DRAIN TILE		
WATER MAIN		
UTILITY CROSSING		
LIGHTING		
ELECTRICAL CABLE		
OVERHEAD WIRES		
CAUTION EXISTING UTILITIES NEARBY		
ELECTRICAL TRANSFORMER OR PEDESTAL		
POWER POLE		
POWER POLE WITH LIGHT		
STREET SIGN		
GAS MAIN		
TELEPHONE LINE		
CONTOUR		
SPOT ELEVATION		
WETLANDS		
FLOODWAY		
FLOODPLAIN		
HIGH WATER LEVEL (HWL)		
NORMAL WATER LEVEL (NWL)		
DIRECTION OF SURFACE FLOW		
DITCH OR SWALE		
DIVERSION SWALE		
OVERFLOW RELIEF ROUTING		
TREE WITH TRUNK SIZE		
SOIL BORING		
TOPSOIL PROBE		
FENCE LINE, TEMPORARY SILT		
FENCE LINE, WIRE		
FENCE LINE, CHAIN LINK OR IRON		
FENCE LINE, WOOD OR PLASTIC		
CONCRETE SIDEWALK		
CURB AND GUTTER		
DEPRESSED CURB		
REVERSE PITCH CURB & GUTTER		
EASEMENT LINE		



ABBREVIATIONS			
BL	BASE LINE	NWL	NORMAL WATER LEVEL
C	LONG CHORD OF CURVE	PC	POINT OF CURVATURE
C & G	CURB AND GUTTER	PT	POINT OF TANGENCY
CB	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
CL	CENTERLINE	R	RADIUS
D	DEGREE OF CURVE	ROW	RIGHT-OF-WAY
EP	EDGE OF PAVEMENT	SAN	SANITARY SEWER
FF	FINISHED FLOOR	ST	STORM SEWER
FG	FINISHED GRADE	T	TANGENCY OF CURVE
FL	FLOW LINE	TB	TOP OF BANK
FP	FLOODPLAIN	TC	TOP OF CURB
FR	FRAME	TF	TOP OF FOUNDATION
FW	FLOODWAY	TP	TOP OF PIPE
HWL	HIGH WATER LEVEL	TS	TOP OF SIDEWALK
INV	INVERT	TW	TOP OF WALK
L	LENGTH OF CURVE	WM	WATER MAIN
MH	MANHOLE	Δ	INTERSECTION ANGLE

INDEX OF SHEETS	
C-1	COVER SHEET
C-2	PROJECT OVERVIEW
C-3	TYPICAL SECTION
C-4	DEMOLITION PLAN
C-5 - C-10	EROSION CONTROL PLAN
C-11 - C-20	PLAN DETAILS
C-21 - C-30	GRADING PLAN AND PROFILE
C-31 - C-40	STORM SEWER PLAN AND PROFILE
C-41 - C-50	UTILITY PLAN AND PROFILE
C-51 - C-56	TRAFFIC CONTROL
C-57 - C-59	CONSTRUCTION DETAILS
	WISDOT STANDARD DETAILS
	WISDOT SIGN PLATES
XS-1 - XS-8	CROSS SECTIONS
L-1 - L-8	LANDSCAPE PLAN

REQUIRED SUBMITTALS FOR APPROVAL	
1.	PIPE BEDDING & TRENCH BACKFILL - GRADATION
2.	MANHOLE BACKFILL - GRADATION

REQUIRED SUBMITTALS FOR RECORDS	
1.	WATER MAIN PIPES, VALVES, HYDRANTS & FITTINGS
2.	SANITARY SEWER PIPE & FITTINGS
3.	STORM SEWER PIPE, STRUCTURES, & FITTINGS
4.	TRACER WIRE
5.	UNDERGROUND UTILITY LOCATION RECORD DRAWINGS
6.	CHEMICAL SOIL STABILIZATION MIX DESIGN (IF APPLICABLE)
7.	DOWEL & TIE BARS

PROJECT TEAM CONTACTS	
<b>CIVIL ENGINEER:</b> ANDREW SHOAF, P.E. <b>PINNACLE ENGINEERING GROUP</b> 20725 WATERTOWN ROAD BROOKFIELD, WI 53186 MAIN: (262) 754-8888 E-MAIL: andrew.shoaf@pinnacle-engr.com	<b>ARCHITECT:</b> MARK NATZKE SENIOR ASSOCIATE <b>ZIMMERMAN ARCHITECTURAL STUDIOS, INC.</b> 2122 WEST MT. VERNON AVENUE MILWAUKEE, WI 53233 (414) 918-1413
<b>SURVEYOR:</b> JOHN KONOPACKI, P.L.S. <b>PINNACLE ENGINEERING GROUP</b> 20725 WATERTOWN ROAD BROOKFIELD, WI 53186 MAIN: (262) 754-8888 E-MAIL: john.konopacki@pinnacle-engr.com	<b>APPLICANT:</b> JASON LUEDERS <b>ZILBER PROPERTY GROUP</b> 710 N. PLANKINGTON AVENUE MILWAUKEE, WI 53202 (630) 344-3718

**DIGGERS HOTLINE**  
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Milwaukee Area (414) 259-1181  
Hearing Impaired TDD (800) 542-2289  
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**PINNACLE ENGINEERING GROUP, LLC - ENGINEER'S LIMITATION**

PINNACLE ENGINEERING GROUP, LLC AND THEIR CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE DELIVERABLES HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE DELIVERABLES, THE ENGINEER SHALL BE PROMPTLY NOTIFIED PRIOR TO BID SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT TO THE ENGINEER, OR IN CONTRADICTION TO THE ENGINEER'S DELIVERABLES OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER BUT OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

FURTHERMORE, PINNACLE ENGINEERING GROUP, LLC IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY OR THE MEANS AND METHODS OF CONSTRUCTION.

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**CALEDONIA CORPORATE PARK  
INFRASTRUCTURE PLANS**  
CALEDONIA, WI

COVER SHEET

REVISIONS		SHEET C-1 C-59
1.	DRT CHECKSET 7/8/22	
2.	MUNICIPAL SUBMITTAL 7/25/22	
3.	MUNICIPAL SUBMITTAL 11/04/22	
4.	VILLAGE COMMENTS 12/12/22	
5.	FIRE HYDRANT REVISIONS 04/26/23	
6.	FOOT UPDATES 05/01/23	
7.	CONSTRUCTION SET 05/05/23	

REG JOB NO: 1912.00 WI

REG PM: AJS

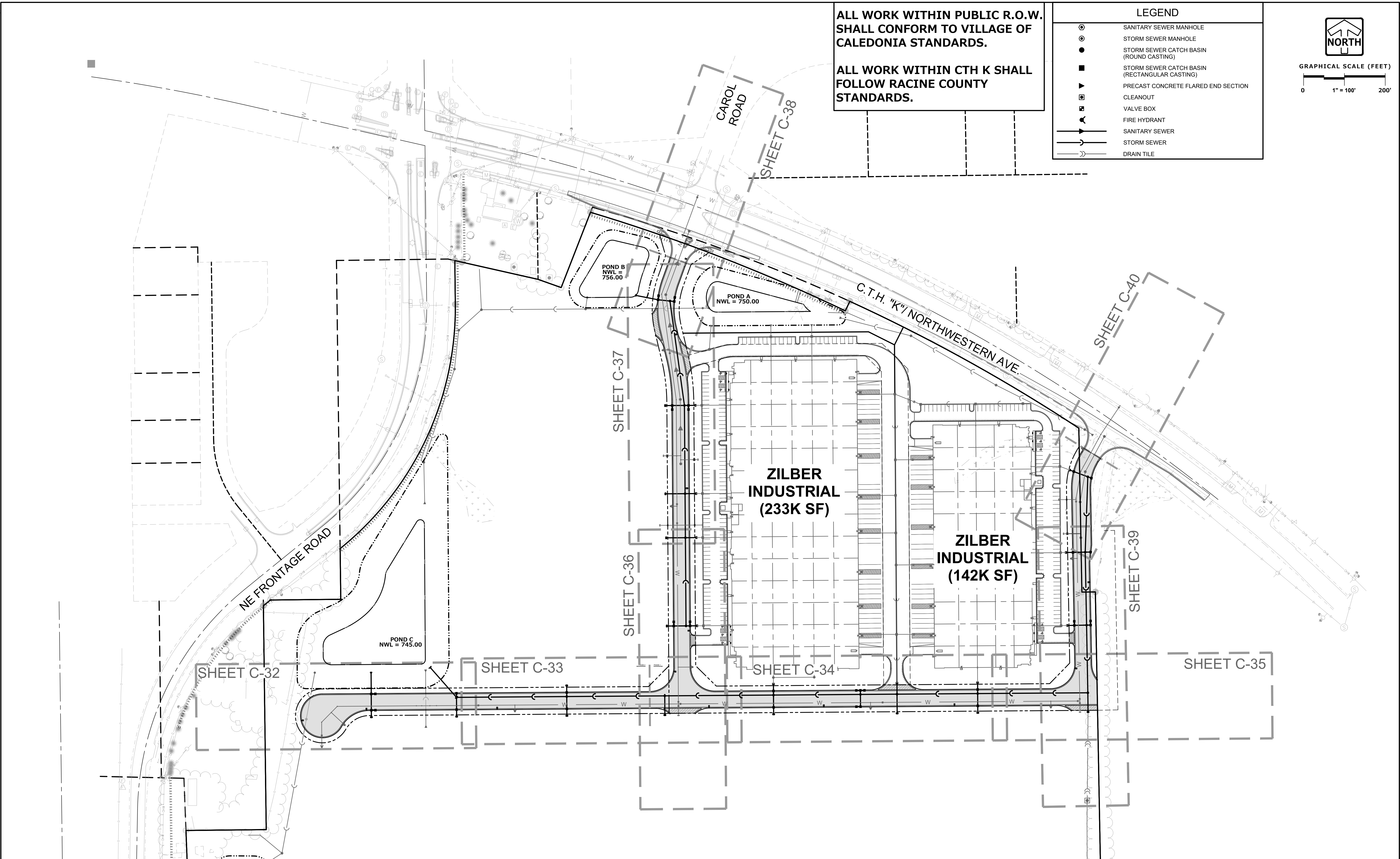
START DATE: 04/20/22

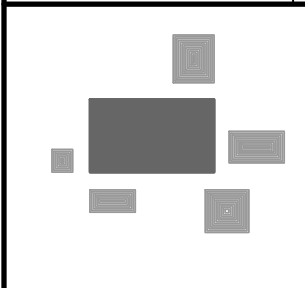
SCALE: N.T.S.



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DRAFTED: ED  
DESIGNED: AUS  
REVIEWED: AUS





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BROOKFIELD, WI 53186  
(262) 754-8888

CHICAGO | MILWAUKEE | NATIONWIDE

# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## STORM SEWER PLAN AND PROFILE OVERVIEW

REVISIONS					
1	DRT CHECKSET	7/8/22	5	FIRE HYDRANT REVISIONS	04/26/23
2	MUNICIPAL SUBMITTAL	7/25/22	6	FOTH UPDATES	05/01/23
3	MUNICIPAL SUBMITTAL	11/04/22	7	CONSTRUCTION SET	05/05/23
4	VILLAGE COMMENTS	12/12/22			

REG JOB No. **1912.00 WI**

REG PM **AUS**

START DATE **04/20/22**

SCALE **1" = 100'**

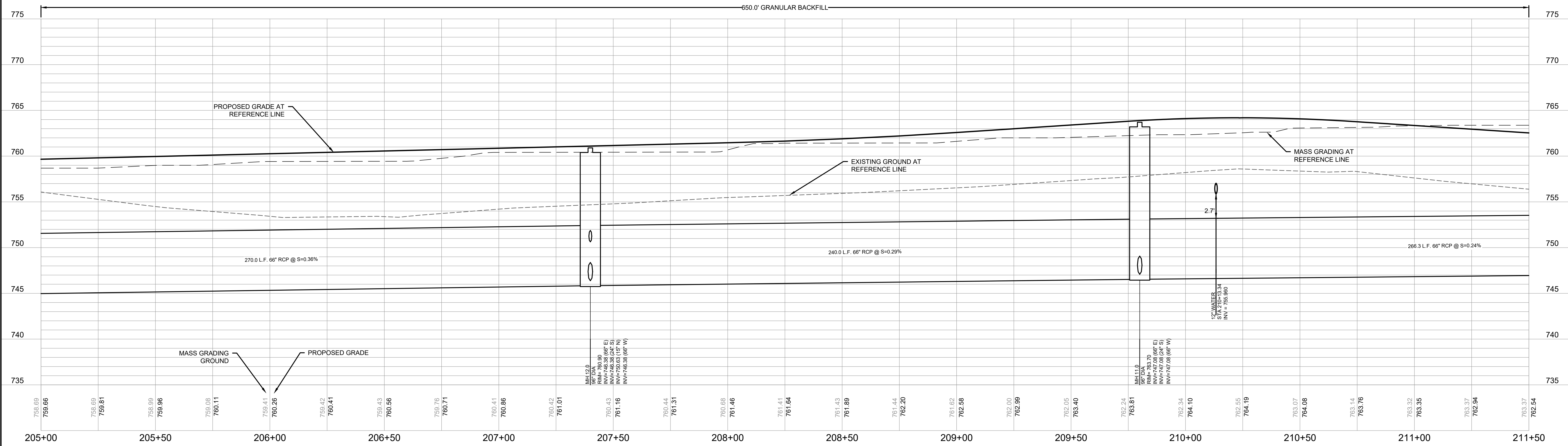
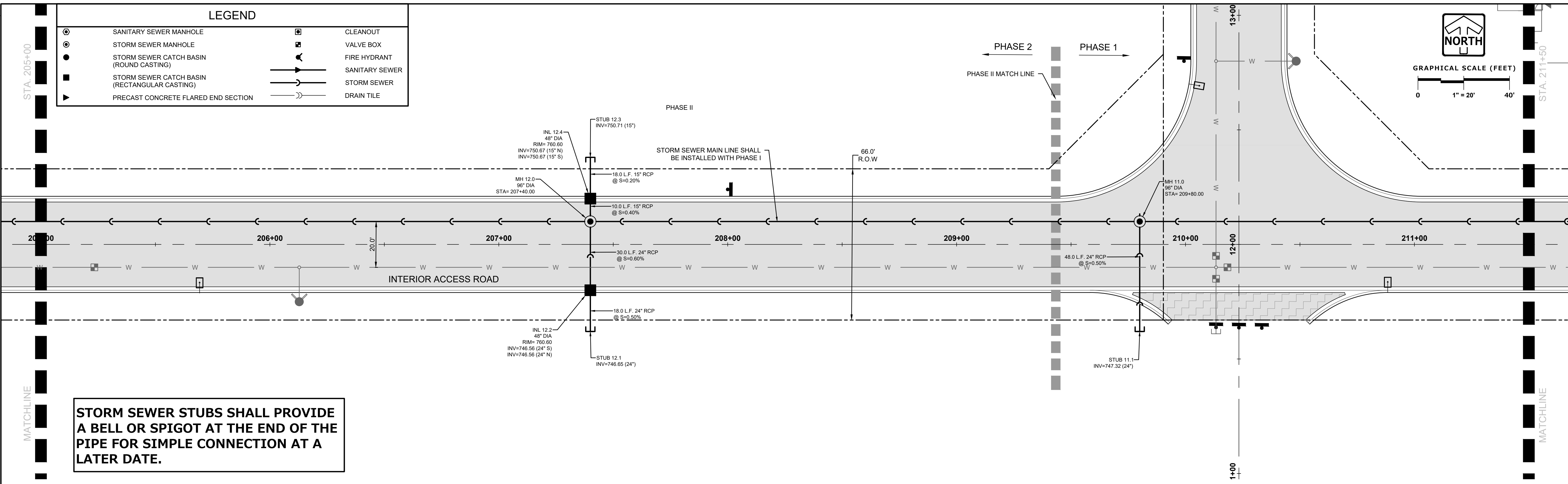
SHEET  
**C-31**  
**C-59**

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DESIGNED: AJS  
REVIEWED: AJS  
DRAFTED: ED



**PINNACLE ENGINEERING GROUP**

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**CALEDONIA CORPORATE PARK**

**INFRASTRUCTURE PLANS**

**CALEDONIA, WI**

**STORM SEWER PLAN AND PROFILE**

**REVISIONS**

1	DRT CHECKSET	7/8/22	5	FIRE HYDRANT REVISIONS	04/26/23
2	MUNICIPAL SUBMITTAL	7/25/22	6	FOTH UPDATES	05/01/23
3	MUNICIPAL SUBMITTAL	11/04/22	7	CONSTRUCTION SET	05/05/23
4	VILLAGE COMMENTS	12/12/22			

REG JOB NO. **1912.00 WI**

REG PM **AJS**

START DATE **04/20/22**

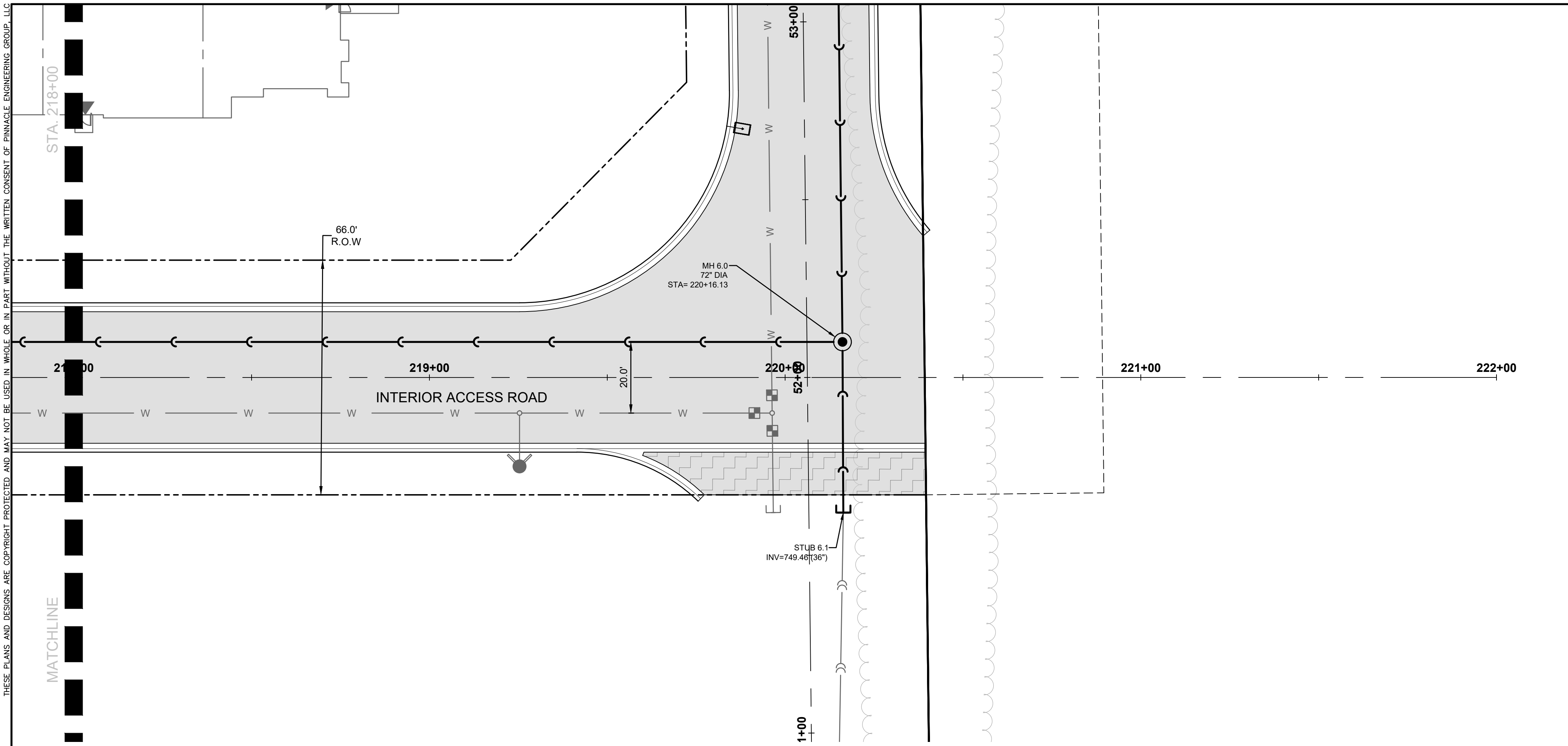
SCALE **1" = 20'**

**SHEET C-33 C-59**



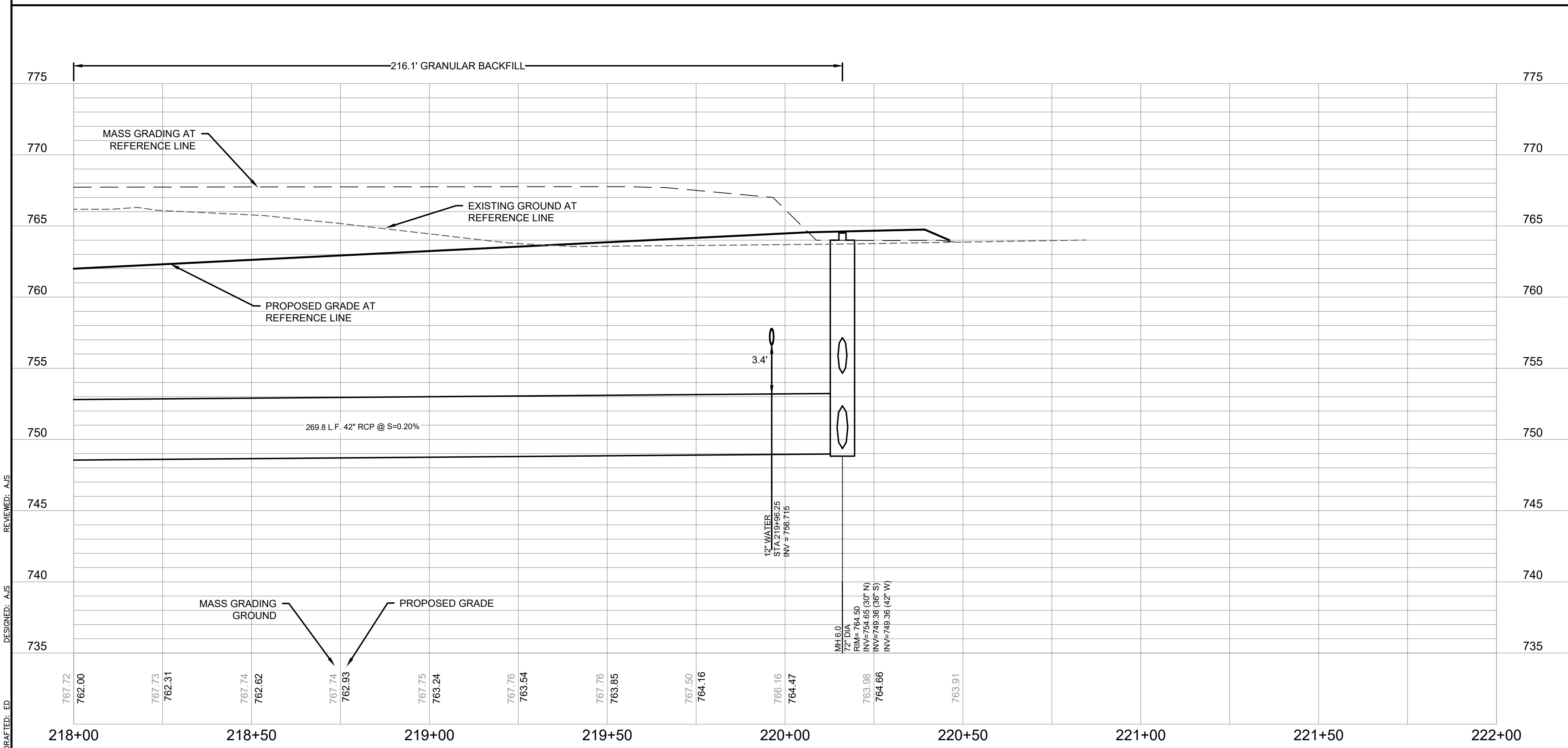
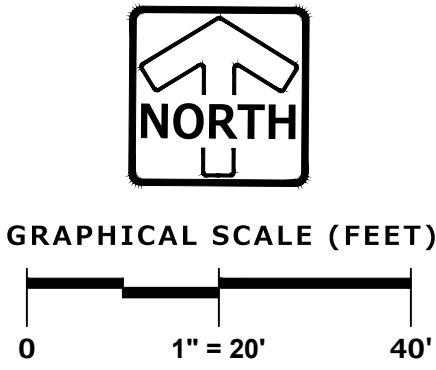


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LEGEND			
	SANITARY SEWER MANHOLE		CLEANOUT
	STORM SEWER MANHOLE		VALVE BOX
	STORM SEWER CATCH BASIN (ROUND CASTING)		FIRE HYDRANT
	STORM SEWER CATCH BASIN (RECTANGULAR CASTING)		SANITARY SEWER
	PRECAST CONCRETE FLARED END SECTION		STORM SEWER
			DRAIN TILE

STORM SEWER STUBS SHALL PROVIDE A BELL OR SPIGOT AT THE END OF THE PIPE FOR SIMPLE CONNECTION AT A LATER DATE.



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# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## STORM SEWER PLAN AND PROFILE

REVISIONS					
1	<u>DRT CHECKSET</u>	<u>7/8/22</u>	5	<u>FIRE HYDRANT REVISIONS</u>	<u>04/26/23</u>
2	<u>MUNICIPAL SUBMITTAL</u>	<u>7/25/22</u>	6	<u>FOTH UPDATES</u>	<u>05/01/23</u>
3	<u>MUNICIPAL SUBMITTAL</u>	<u>11/04/22</u>	7	<u>CONSTRUCTION SET</u>	<u>05/05/23</u>
4	<u>VILLAGE COMMENTS</u>	<u>12/12/22</u>			

REG JOB No. **1912.00.WI**  
REG PM **AJS**  
START DATE **04/20/22**  
SCALE **1" = 20'**

SHEET  
**C-35**  
**C-59**

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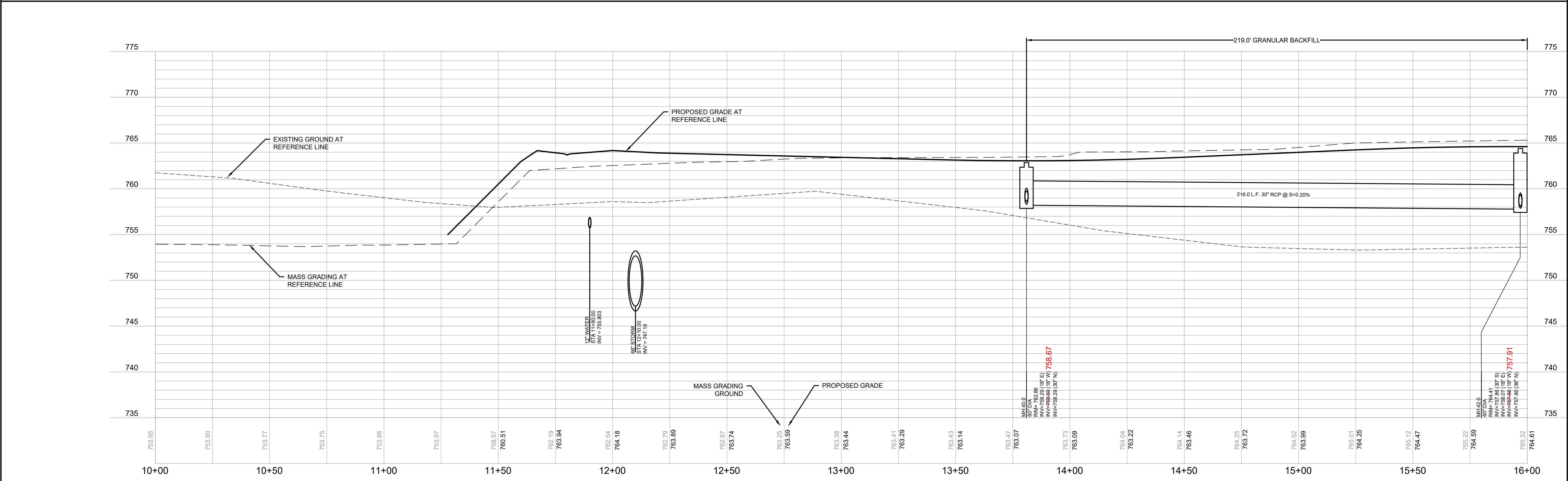
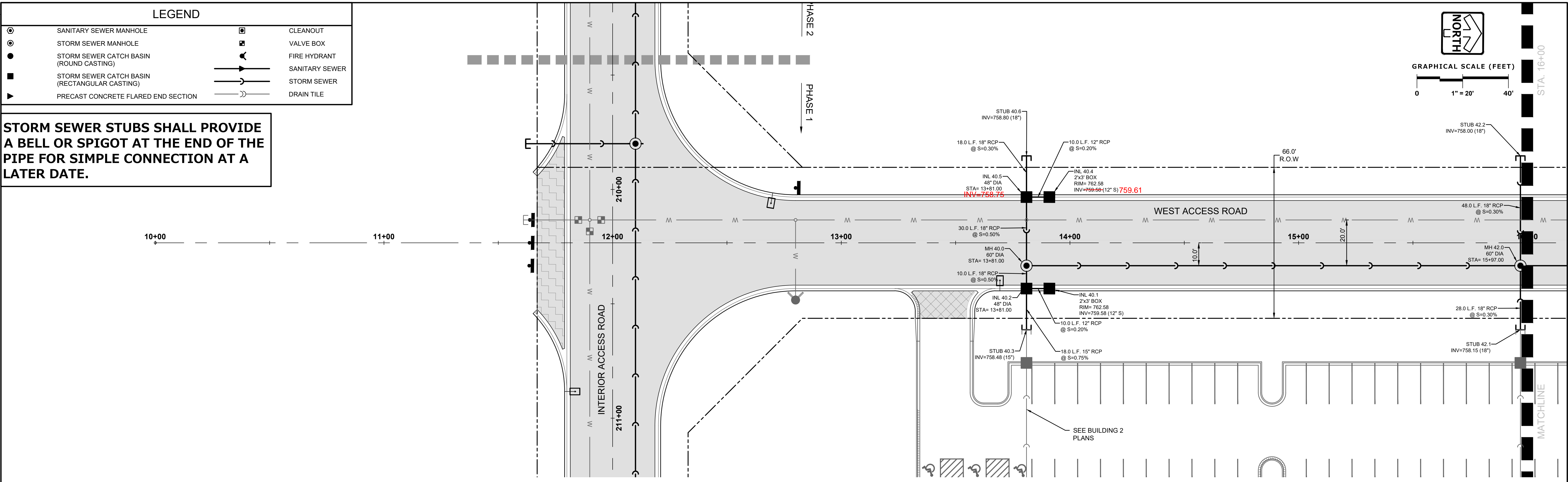
DESIGNED: AUS

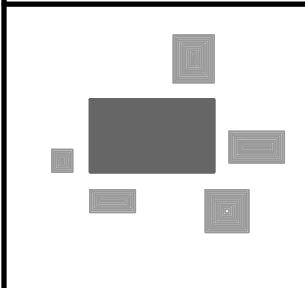
DRAFTED: ED

REVIEWED: AUS

LEGEND			
	SANITARY SEWER MANHOLE		CLEANOUT
	STORM SEWER MANHOLE (ROUND CASTING)		VALVE BOX
	STORM SEWER CATCH BASIN (ROUND CASTING)		FIRE HYDRANT
	STORM SEWER CATCH BASIN (RECTANGULAR CASTING)		SANITARY SEWER
	PRECAST CONCRETE FLARED END SECTION		STORM SEWER
			DRAIN TILE

STORM SEWER STUBS SHALL PROVIDE A BELL OR SPIGOT AT THE END OF THE PIPE FOR SIMPLE CONNECTION AT A LATER DATE.





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# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## STORM SEWER PLAN AND PROFILE

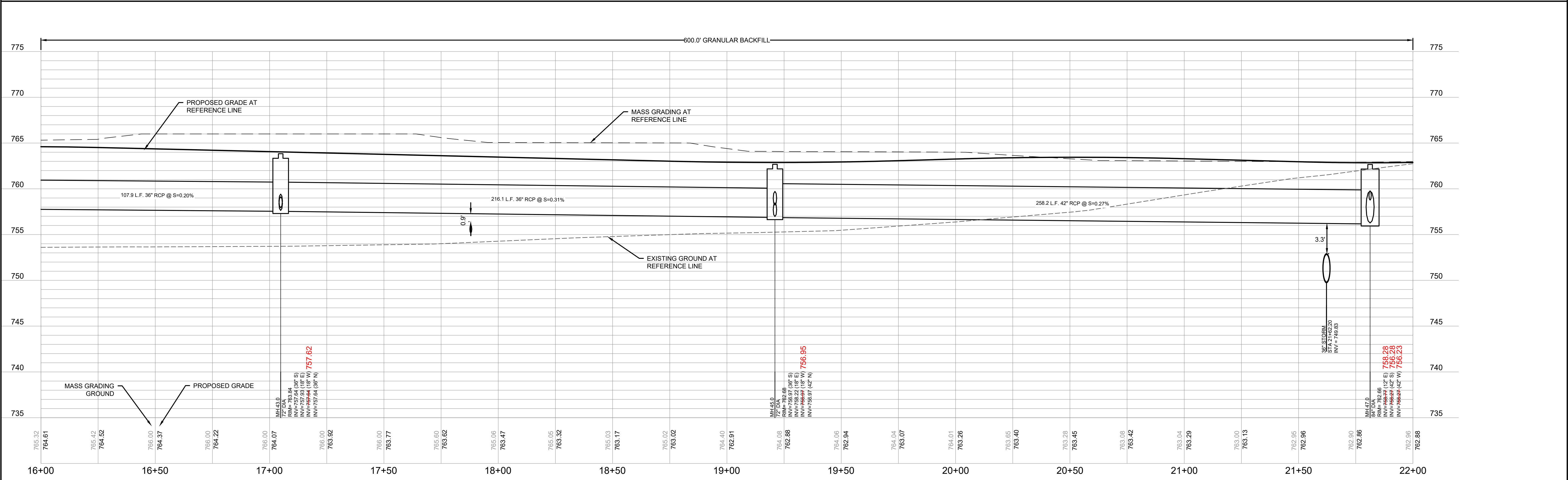
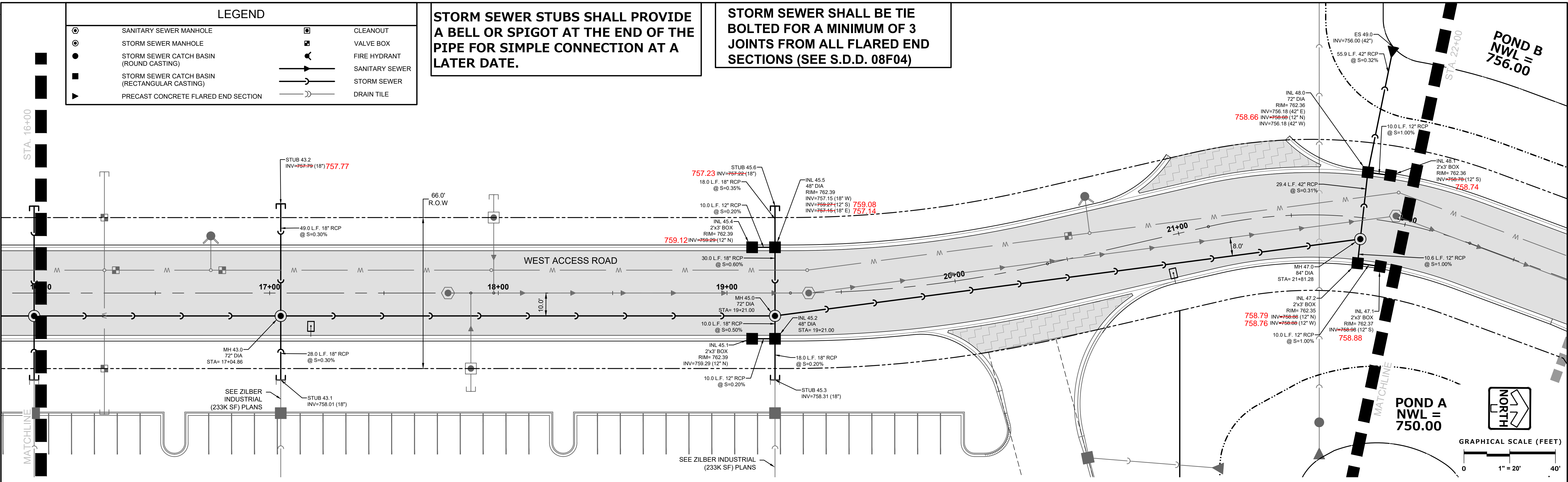
REVISIONS						SHEET	
1	DRT CHECKSET	7/8/22	5	FIRE HYDRANT REVISIONS	04/26/23	C-36	C-59
2	MUNICIPAL SUBMITTAL	7/25/22	6	FOTH UPDATES	05/01/23		
3	MUNICIPAL SUBMITTAL	11/04/22	7	CONSTRUCTION SET	05/05/23		
4	VILLAGE COMMENTS	12/12/22					
						REG JOB No. 1912.00 WI	
						REG PM AUS	
						START DATE 04/20/22	
						SCALE 1" = 20'	
						© COPYRIGHT 2019	



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DRAFTED: ED  
REVIEWED: AUS

Z:\PROJECTS\2020\1912.00-WI\CAD\SHEETS\ROADWAY\1912.00 ROADWAY STORM SEWER PLAN AND PROFILE.DWG



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**CALEDONIA CORPORATE PARK**  
**INFRASTRUCTURE PLANS**  
**CALEDONIA, WI**

**STORM SEWER PLAN AND PROFILE**

**REVISIONS**

1. DRT CHECKSET	7/8/22	5. FIRE HYDRANT REVISIONS	04/26/23
2. MUNICIPAL SUBMITTAL	7/25/22	6. FOTH UPDATES	05/01/23
3. MUNICIPAL SUBMITTAL	11/04/22	7. CONSTRUCTION SET	05/05/23
4. VILLAGE COMMENTS	12/12/22		

REG JOB No. **1912.00 WI**  
REG PM: **AJS**  
START DATE: **04/20/22**  
SCALE: **1" = 20'**

**SHEET C-37**  
**C-59**

FOR CONSTRUCTION

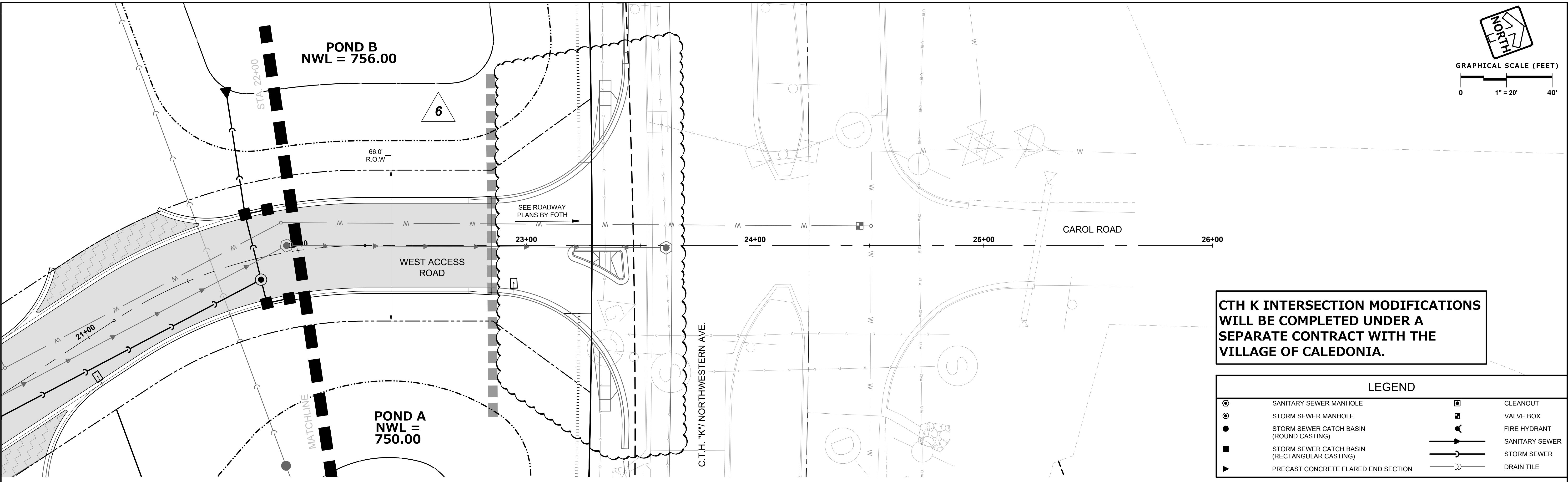
STORM SEWER PLAN AND PROFILE

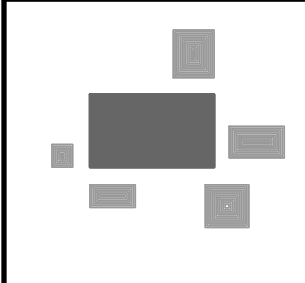
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DESIGNED: AJS  
DRAFTED: ED  
REVIEWED: AJS





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# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## STORM SEWER PLAN AND PROFILE

REVISIONS					
1	<u>DRT CHECKSET</u>	<u>7/8/22</u>	5	<u>FIRE HYDRANT REVISIONS</u>	<u>04/26/23</u>
2	<u>MUNICIPAL SUBMITTAL</u>	<u>7/25/22</u>	6	<u>FOTH UPDATES</u>	<u>05/01/23</u>
3	<u>MUNICIPAL SUBMITTAL</u>	<u>11/04/22</u>	7	<u>CONSTRUCTION SET</u>	<u>05/05/23</u>
4	<u>VILLAGE COMMENTS</u>	<u>12/12/22</u>			

REG JOB No. **1912.00 WI**

REG PM **AJS**

START DATE **04/20/22**

SCALE **1" = 20'**

SHEET  
**C-38**  
**C-59**

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DRAFTED: ED  
REVIEWED: AUS

LEGEND

SANITARY SEWER MANHOLE

STORM SEWER MANHOLE

STORM SEWER CATCH BASIN

STORM SEWER CATCH BASIN

PRECAST CONCRETE FLARED END SECTION

CLEANOUT

VALVE BOX

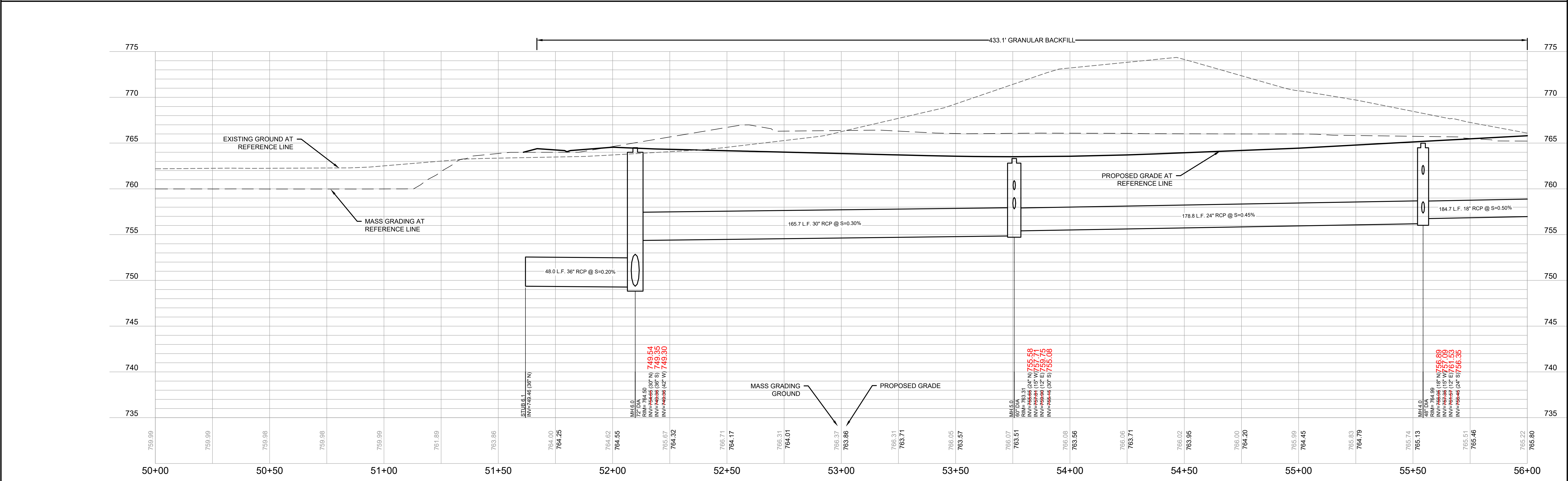
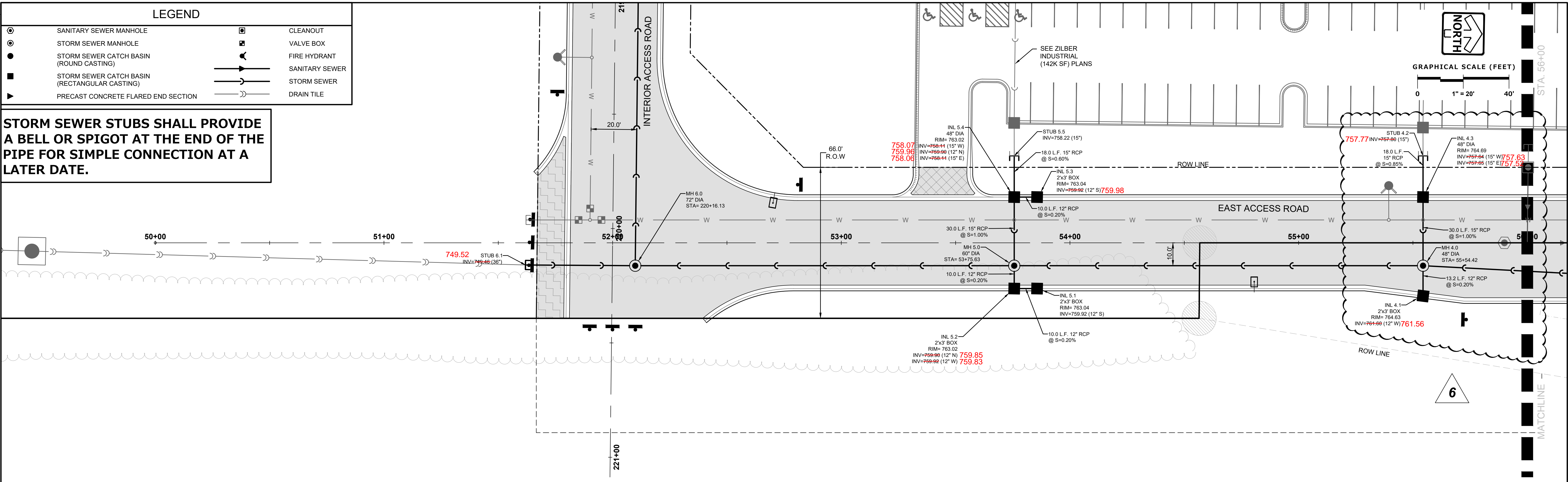
FIRE HYDRANT

SANITARY SEWER

STORM SEWER

DRAIN TILE

STORM SEWER STUBS SHALL PROVIDE A BELL OR SPIGOT AT THE END OF THE PIPE FOR SIMPLE CONNECTION AT A LATER DATE.



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# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## STORM SEWER PLAN AND PROFILE

REVISIONS		
1	DRT CHECKSET	7/8/22
2	MUNICIPAL SUBMITTAL	7/25/22
3	MUNICIPAL SUBMITTAL	11/04/22
4	VILLAGE COMMENTS	12/12/22
5	FIRE HYDRANT REVISIONS	04/26/23
6	FOTH UPDATES	05/01/23
7	CONSTRUCTION SET	05/05/23

REG JOB No. 1912.00 WI

REG PM: AUS

START DATE: 04/20/22

SCALE: 1" = 20'

SHEET

C-39

C-59

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STORM SEWER PLAN AND PROFILE

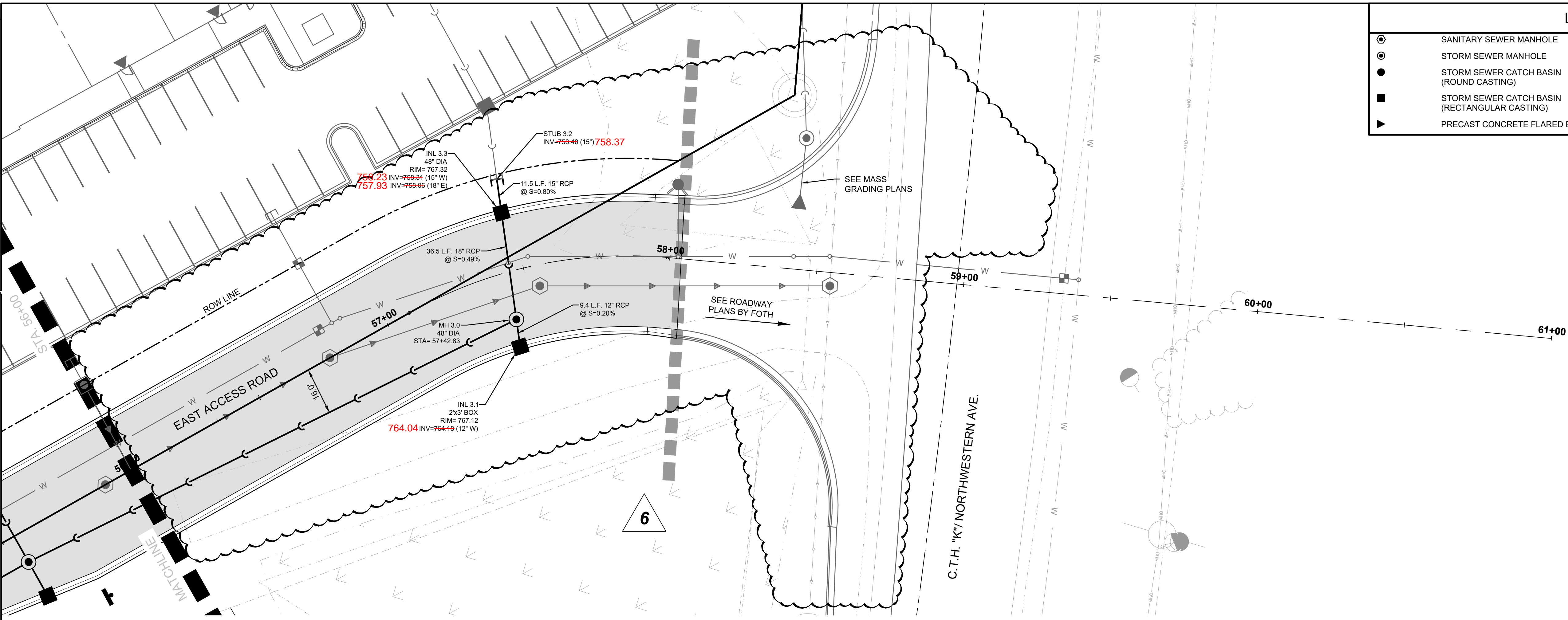
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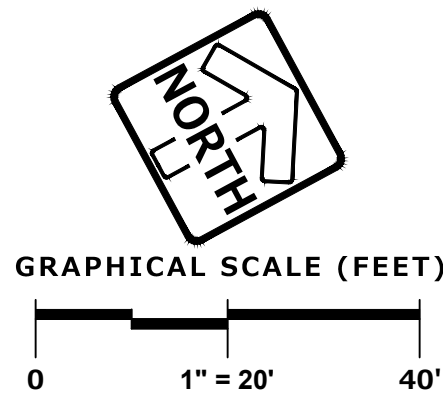


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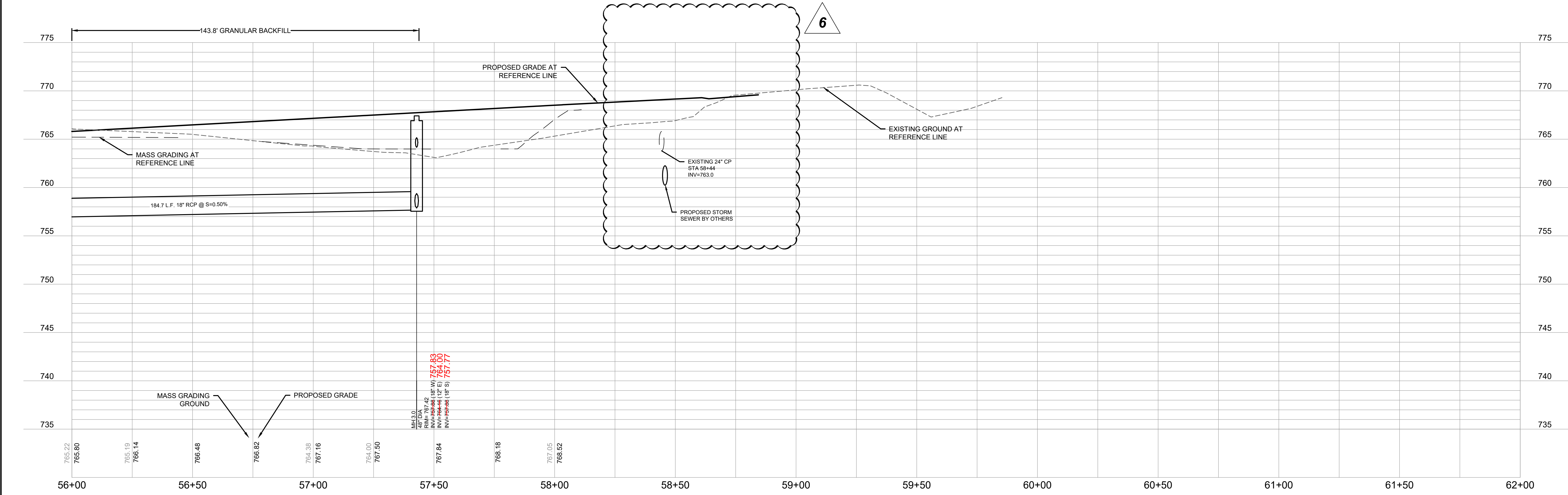
LEGEND			
○	SANITARY SEWER MANHOLE	□	CLEANOUT
●	STORM SEWER MANHOLE	▣	VALVE BOX
●	STORM SEWER CATCH BASIN (ROUND CASTING)	⌂	FIRE HYDRANT
■	STORM SEWER CATCH BASIN (RECTANGULAR CASTING)	—	SANITARY SEWER
▶	PRECAST CONCRETE FLARED END SECTION	—	STORM SEWER
		—	DRAIN TILE

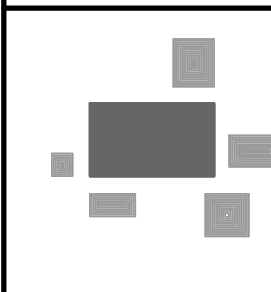


STORM SEWER SHALL BE TIE BOLTED FOR A MINIMUM OF 3 JOINTS FROM ALL FLARED END SECTIONS (SEE S.D.D. 08F04)

CTH K INTERSECTION MODIFICATIONS WILL BE COMPLETED UNDER A SEPARATE CONTRACT WITH THE VILLAGE OF CALEDONIA.

STORM SEWER STUBS SHALL PROVIDE A BELL OR SPIGOT AT THE END OF THE PIPE FOR SIMPLE CONNECTION AT A LATER DATE.





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# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## STORM SEWER PLAN AND PROFILE

REVISIONS					
1	DRT CHECKSET	7/8/22	5	FIRE HYDRANT REVISIONS	04/26/23
2	MUNICIPAL SUBMITTAL	7/25/22	6	FOTH UPDATES	05/01/23
3	MUNICIPAL SUBMITTAL	11/04/22	7	CONSTRUCTION SET	05/05/23
4	VILLAGE COMMENTS	12/12/22			

REG JOB No. 1912.00 WI  
REG PM AUS  
START DATE 04/20/22  
SCALE 1" = 20'

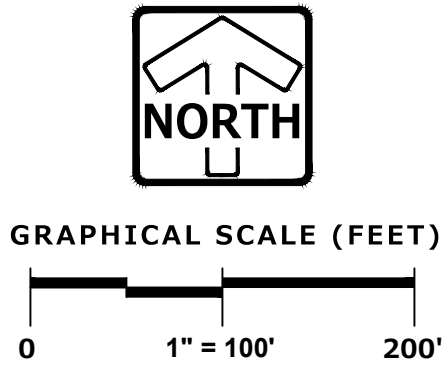
SHEET  
**C-40**  
**C-59**



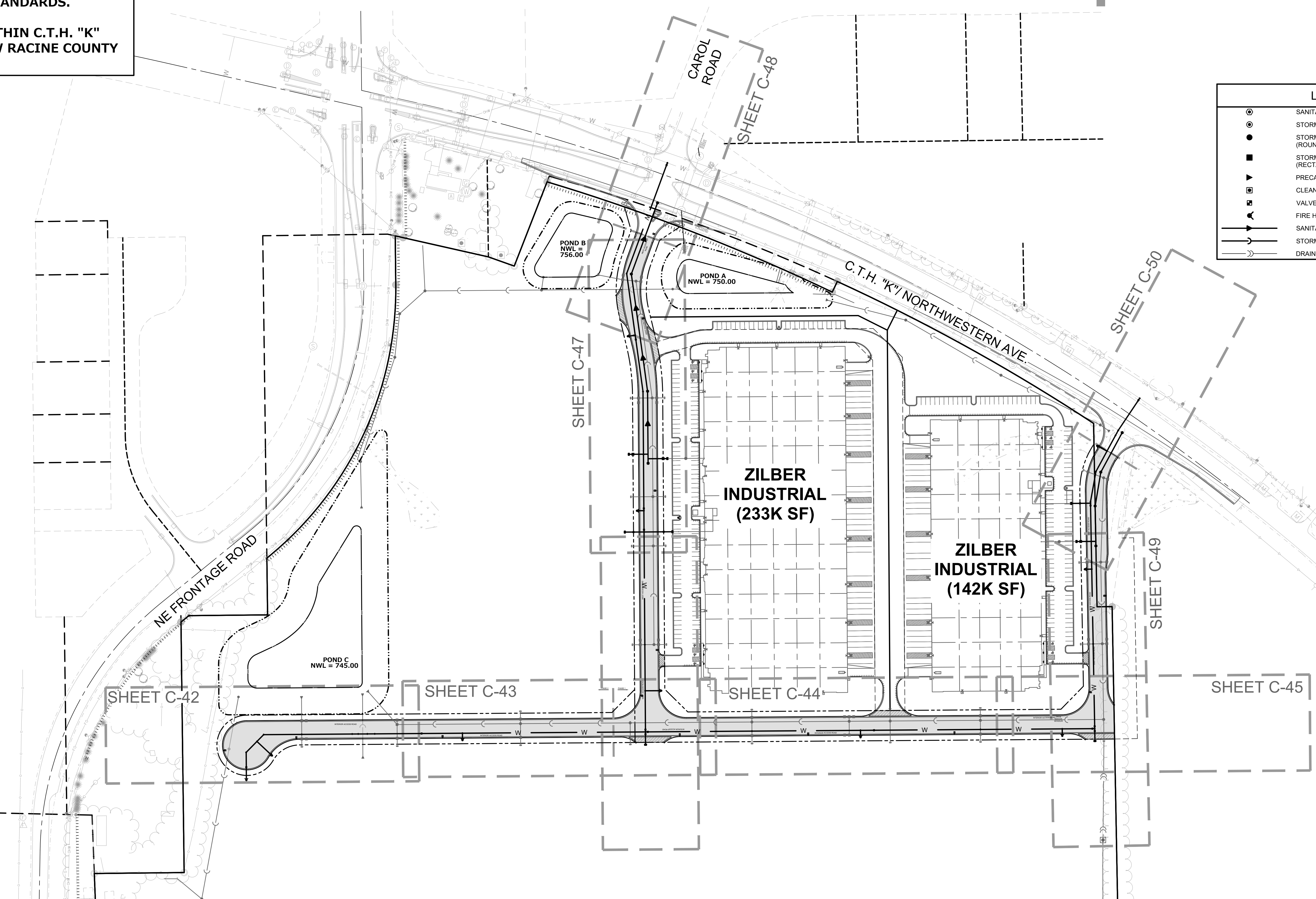
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ALL WORK WITHIN PUBLIC R.O.W.  
SHALL CONFORM TO VILLAGE OF  
CALEDONIA STANDARDS.

ALL WORK WITHIN C.T.H. "K"  
SHALL FOLLOW RACINE COUNTY  
STANDARDS.



LEGEND	
	SANITARY SEWER MANHOLE
	STORM SEWER MANHOLE
	STORM SEWER CATCH BASIN (ROUND CASTING)
	STORM SEWER CATCH BASIN (RECTANGULAR CASTING)
	PRECAST CONCRETE FLARED END SECTION
	CLEANOUT
	VALVE BOX
	FIRE HYDRANT
	SANITARY SEWER
	STORM SEWER
	DRAIN TILE



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**CALEDONIA CORPORATE PARK  
INFRASTRUCTURE PLANS  
CALEDONIA, WI**

**UTILITY PLAN AND  
PROFILE OVERVIEW**

REVISIONS		
1	DRT CHECKSET	7/8/22
2	MUNICIPAL SUBMITTAL	7/25/22
3	MUNICIPAL SUBMITTAL	11/04/22
4	VILLAGE COMMENTS	12/12/22
5	FIRE HYDRANT REVISIONS	04/26/23
6	FOTH UPDATES	05/01/23
7	CONSTRUCTION SET	05/05/23

REG JOB No. **1912.00 WI**

REG PM **AJS**

START DATE **04/20/22**

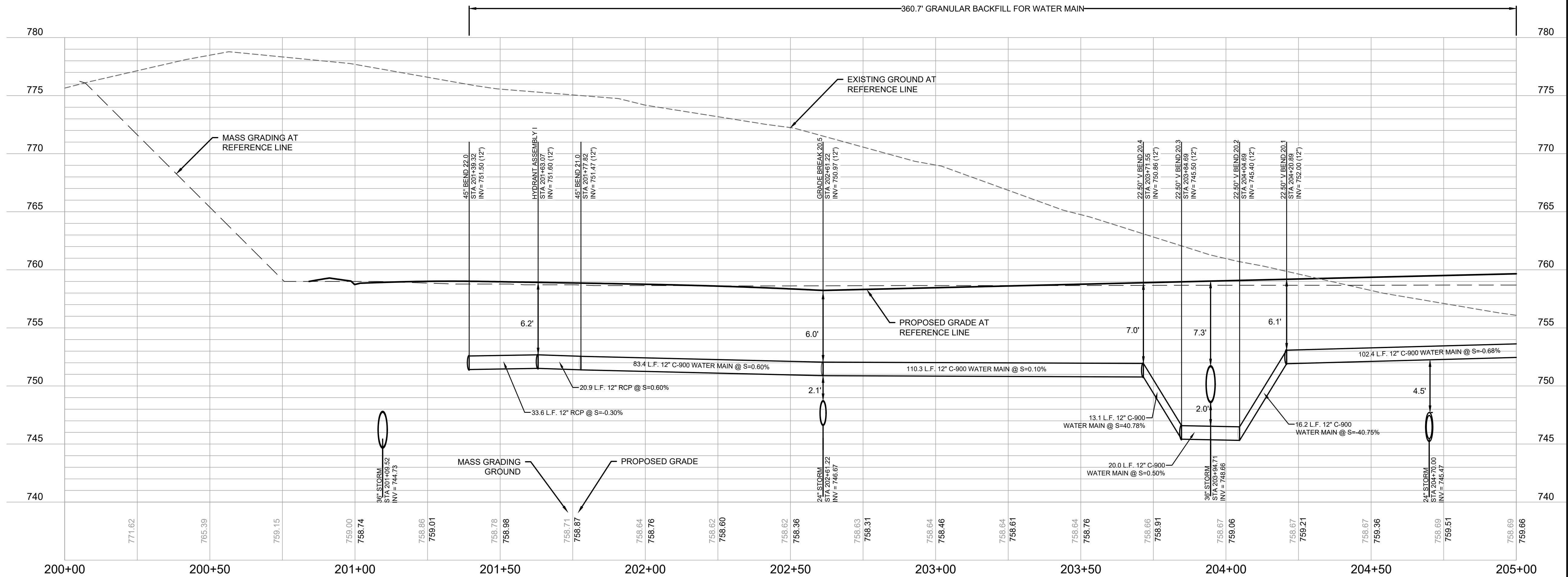
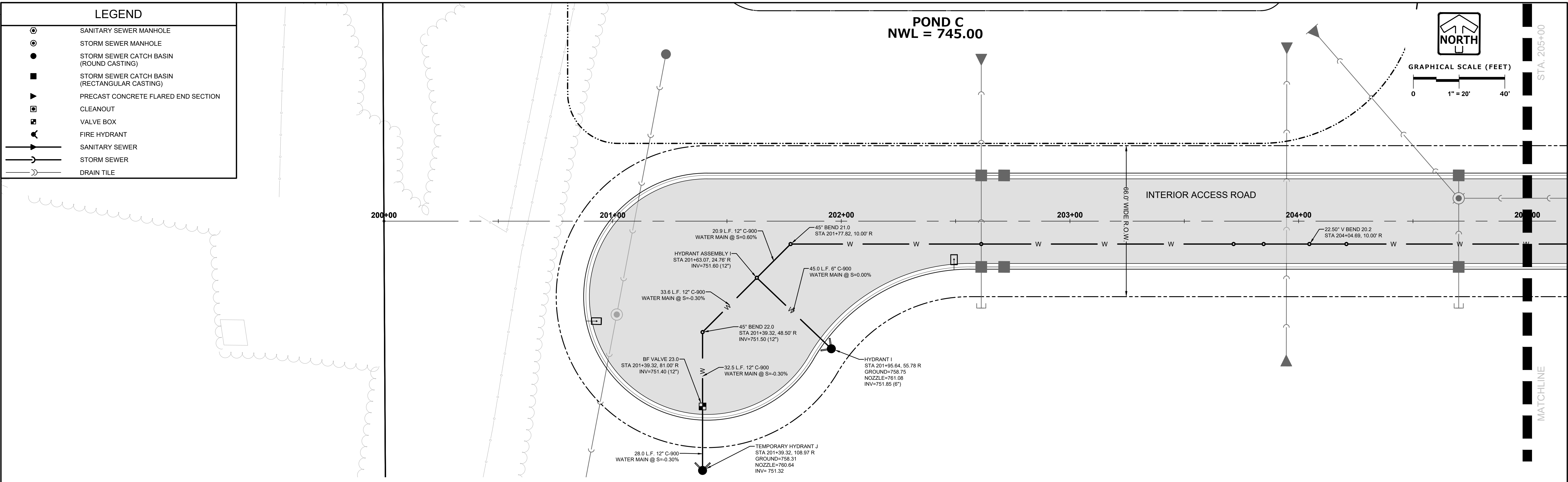
SCALE **1" = 100'**

**SHEET  
C-41  
C-59**

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DESIGNED: AUS  
REVIEWED: AUS



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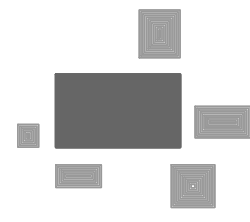
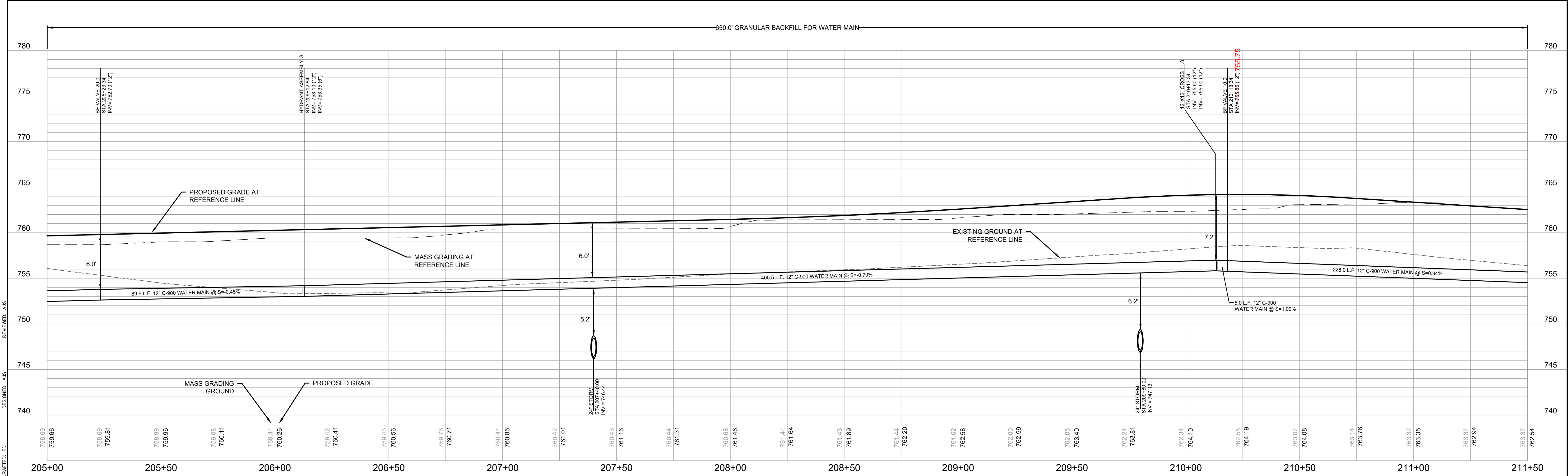
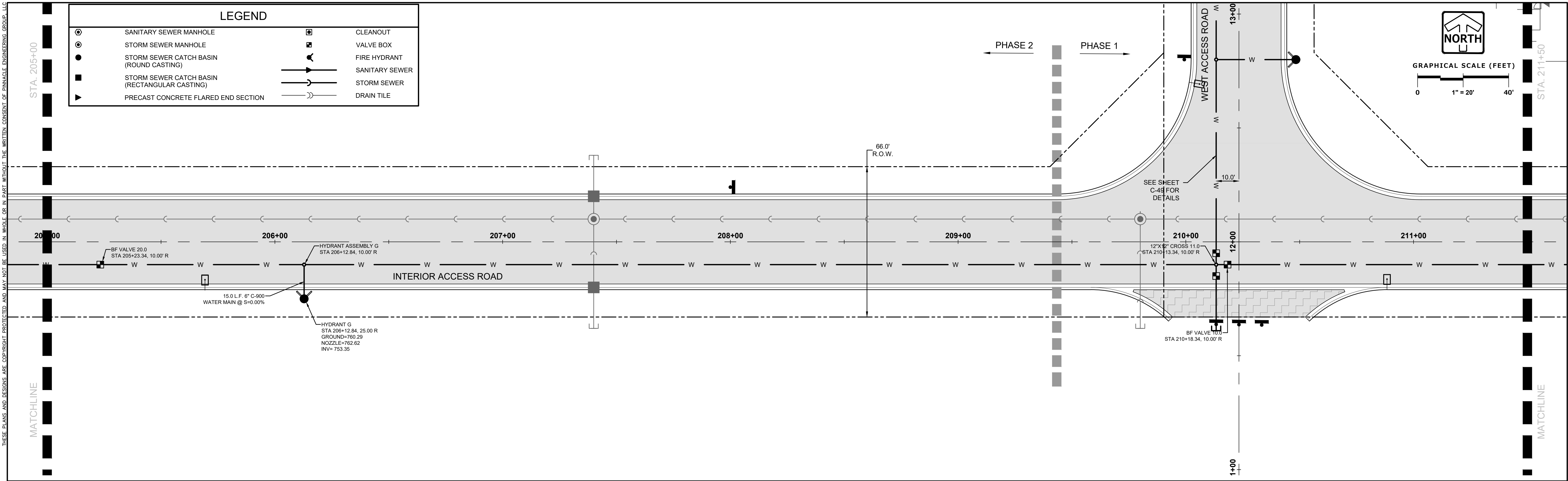
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# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## UTILITY PLAN AND PROFILE

REVISIONS				SHEET	
1	DRT CHECKSET	7/8/22	5	FIRE HYDRANT REVISIONS	04/26/23
2	MUNICIPAL SUBMITTAL	7/25/22	6	FOTH UPDATES	05/01/23
3	MUNICIPAL SUBMITTAL	11/04/22	7	CONSTRUCTION SET	05/05/23
4	VILLAGE COMMENTS	12/12/22			
REG JOB No. <b>1912.00 WI</b>				REG PM <b>AUS</b>	SCALE <b>1" = 20'</b>
START DATE <b>04/20/22</b>				SHEET <b>C-42</b>	
				SHEET <b>C-59</b>	

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# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## UTILITY PLAN AND PROFILE

1	<u>DRT CHECKSET</u>	<u>7/8/22</u>	5	<u>FIRE HYDRANT REVISIONS</u>	<u>04/26/23</u>
2	<u>MUNICIPAL SUBMITTAL</u>	<u>7/25/22</u>	6	<u>FOTH UPDATES</u>	<u>05/01/23</u>
3	<u>MUNICIPAL SUBMITTAL</u>	<u>11/04/22</u>	7	<u>CONSTRUCTION SET</u>	<u>05/05/23</u>
4	<u>VILLAGE COMMENTS</u>	<u>12/12/22</u>			

REG JOB No. **1912.00 WI**  
REG PM **AJS**  
START DATE **04/20/22**  
SCALE **1" = 20'**

SHEET  
**C-43**  
**C-59**

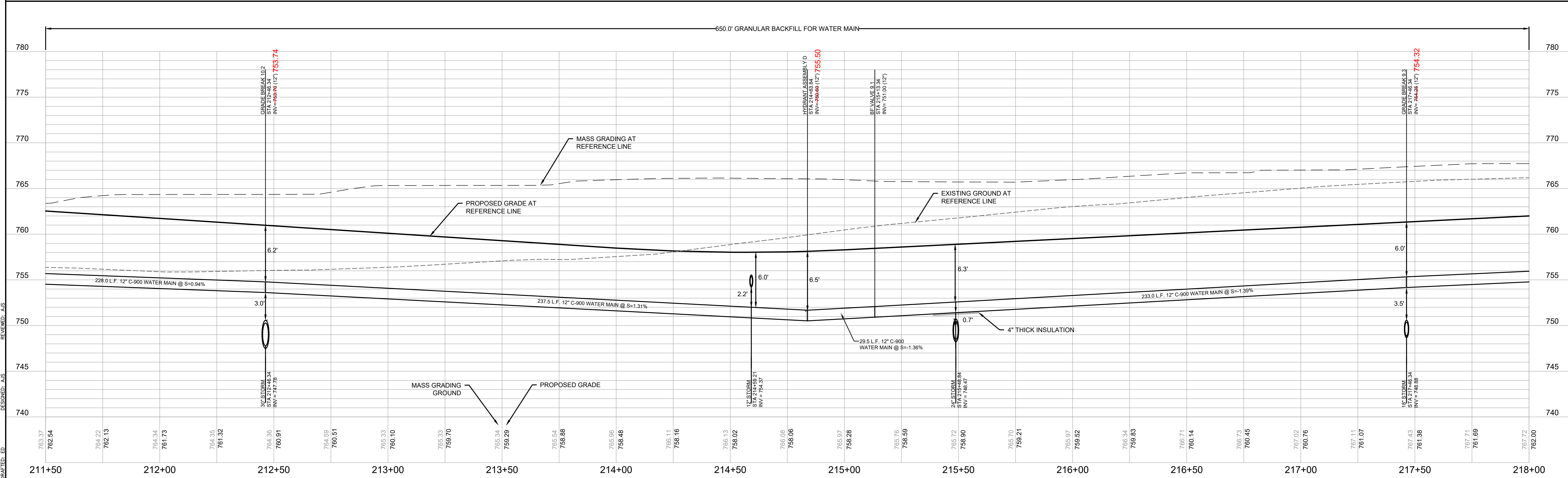
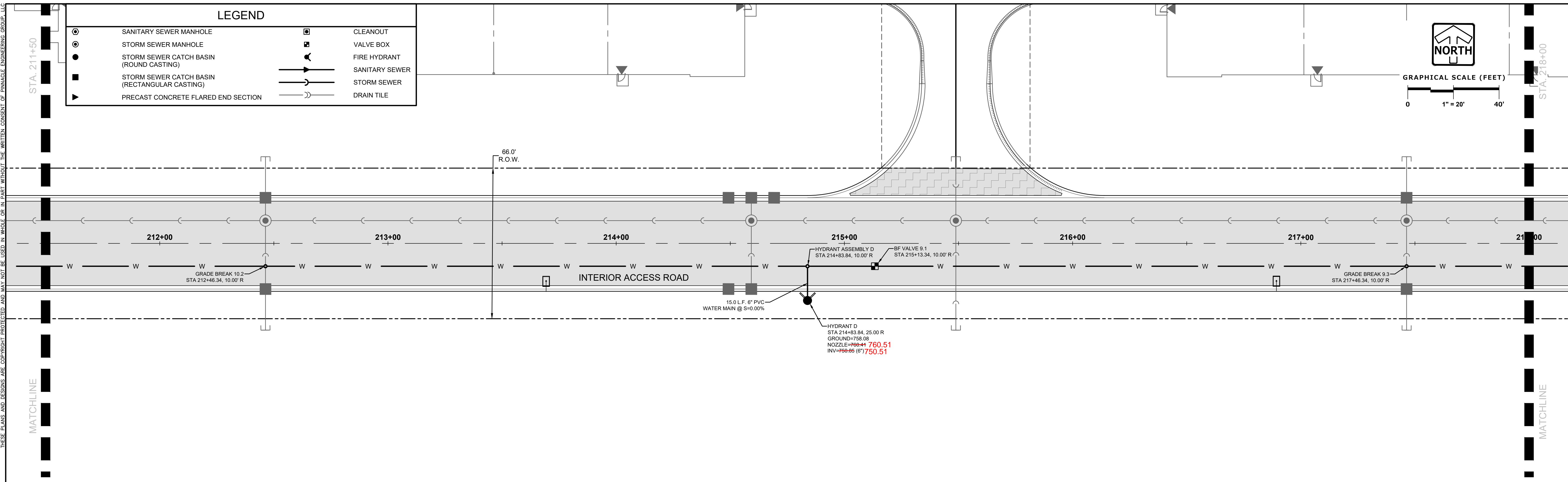
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UTILITY PLAN AND PROFILE



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# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## UTILITY PLAN AND PROFILE

REVISIONS	
1. DRT CHECKSET	7/8/22
2. MUNICIPAL SUBMITTAL	7/25/22
3. MUNICIPAL SUBMITTAL	11/04/22
4. VILLAGE COMMENTS	12/12/22
5. FIRE HYDRANT REVISIONS	04/26/23
6. FOTH UPDATES	05/01/23
7. CONSTRUCTION SET	05/05/23

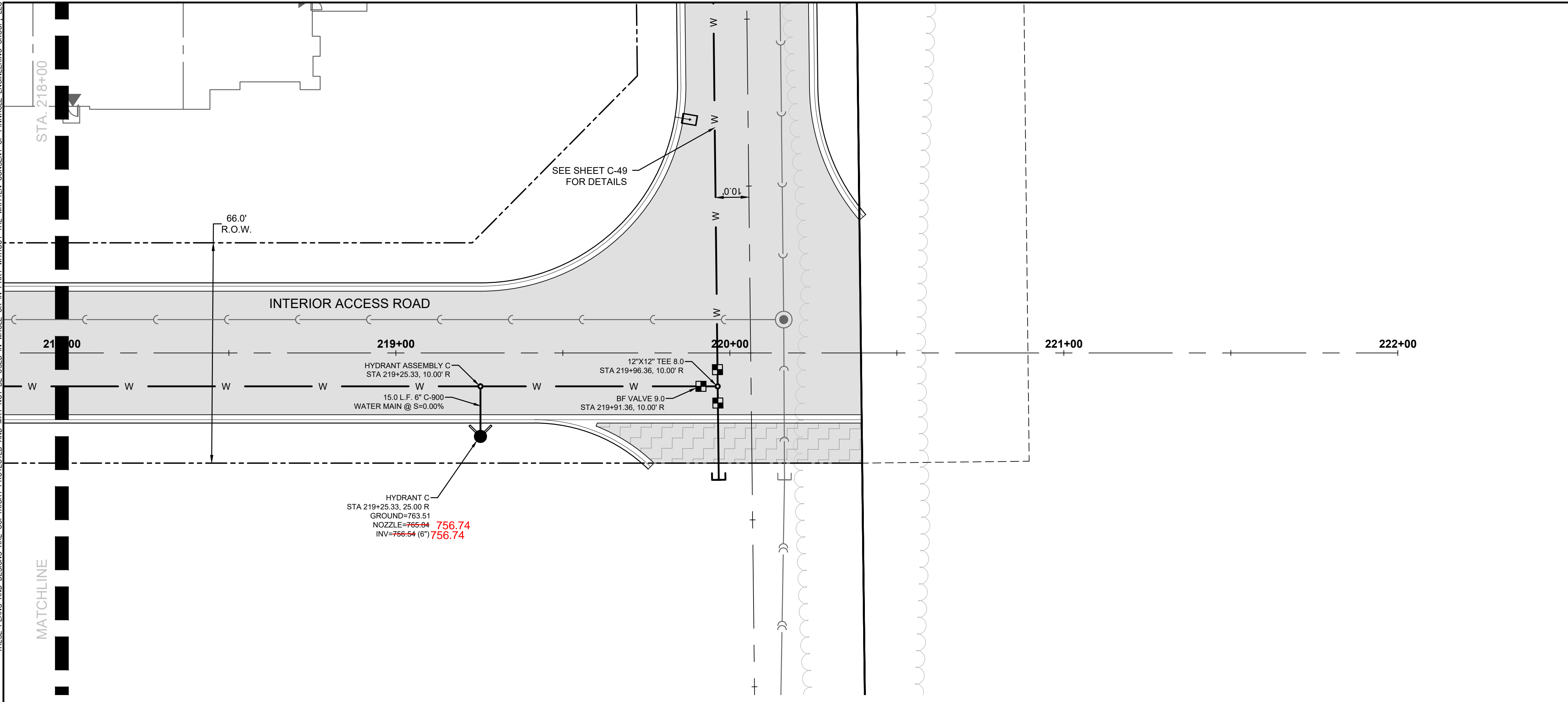
REG JOB No. 1912.00 WI  
REG PM. AUS  
START DATE 04/20/22  
SCALE 1" = 20'

SHEET  
**C-44**  
**C-59**

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DESIGNED: AJS  
DRAFTED: ED  
REVIEWED: AJS



LEGEND

○

SANITARY SEWER MANHOLE

●

STORM SEWER MANHOLE

●

STORM SEWER CATCH BASIN (ROUND CASTING)

■

STORM SEWER CATCH BASIN (RECTANGULAR CASTING)

▶

PRECAST CONCRETE FLARED END SECTION

□

CLEANOUT

■

VALVE BOX

⤵

FIRE HYDRANT

—●—

SANITARY SEWER

—●—

STORM SEWER

—○—

DRAIN TILE

NORTH

GRAPHICAL SCALE (FEET)

0

1" = 20'

40'

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CALEDONIA CORPORATE PARK

INFRASTRUCTURE PLANS

CALEDONIA, WI

UTILITY PLAN AND

PROFILE

REVISIONS

1

DRT CHECKSET

7/8/22

2

MUNICIPAL SUBMITTAL

7/25/22

3

MUNICIPAL SUBMITTAL

11/04/22

4

VILLAGE COMMENTS

12/12/22

5

FIRE HYDRANT REVISIONS

04/26/23

6

FOTH UPDATES

05/01/23

7

CONSTRUCTION SET

05/05/23

REG JOB No. 1912.00

WT

REG PM

AJS

START DATE

04/20/22

SCALE

1" = 20'

SHEET

C-45

C-59

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FOR CONSTRUCTION

UTILITY PLAN AND PROFILE

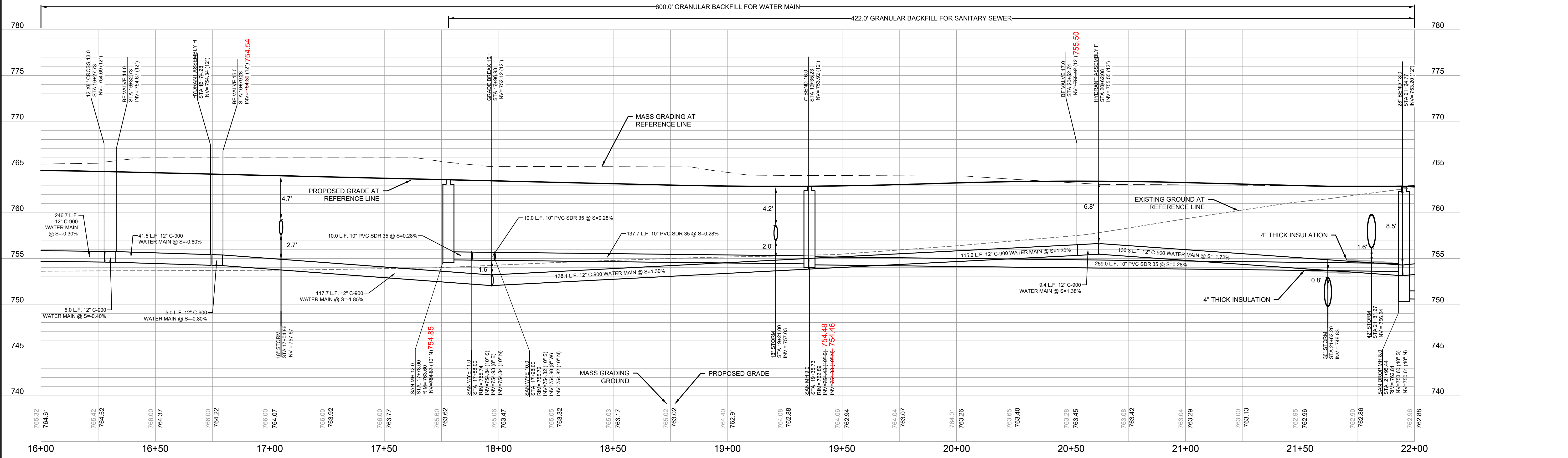
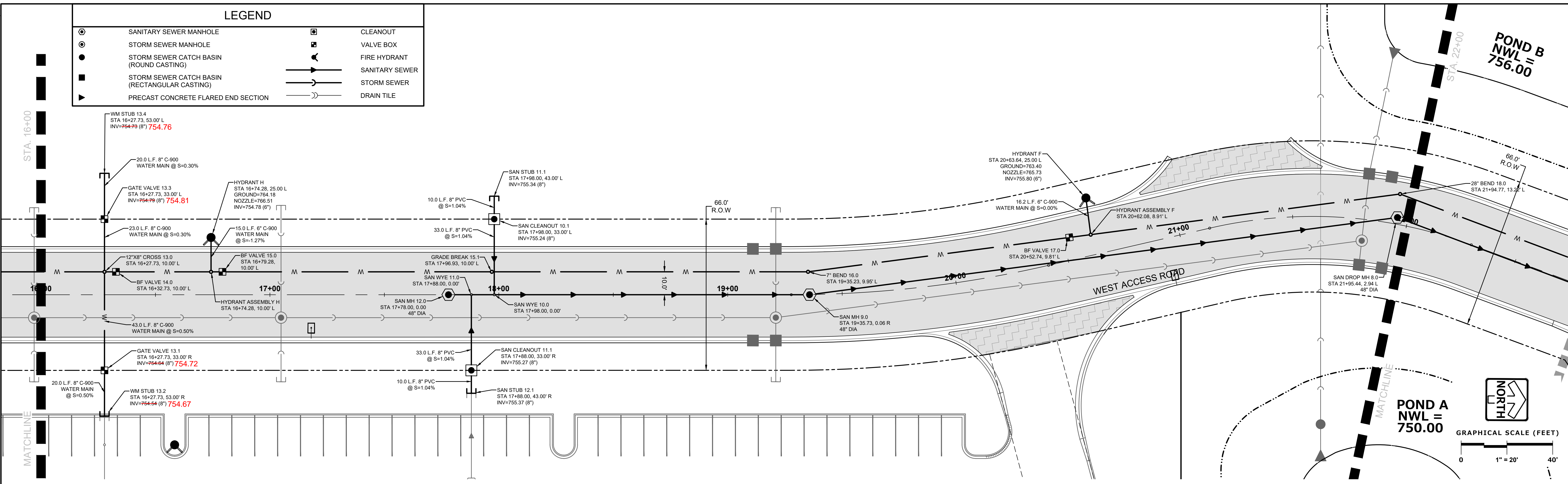




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DESIGNED: AJS  
DRAFTED: ED  
REVIEWED: AJS

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WISCONSIN OFFICE:  
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BROOKFIELD, WI 53186  
(262) 754-8888  
CHICAGO | MILWAUKEE | NATIONWIDE

# CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

## UTILITY PLAN AND PROFILE

REVISIONS		
1	DRT CHECKSET	7/8/22
2	MUNICIPAL SUBMITTAL	7/25/22
3	MUNICIPAL SUBMITTAL	11/04/22
4	VILLAGE COMMENTS	12/12/22
5	FIRE HYDRANT REVISIONS	04/26/23
6	FOH UPDATES	05/01/23
7	CONSTRUCTION SET	05/05/23

REG JOB NO. **1912.00 WI**  
REG PM. **AJS**  
START DATE **04/20/22**  
SCALE **1" = 20'**

SHEET  
**C-47**  
**C-59**

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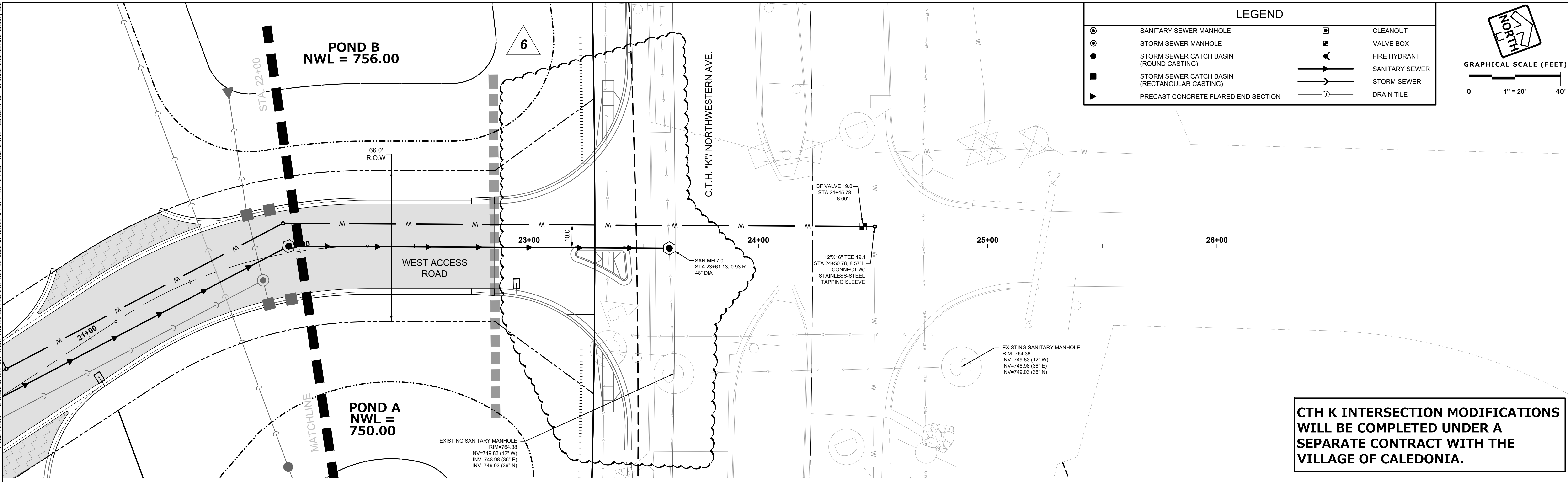
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UTILITY PLAN AND PROFILE  
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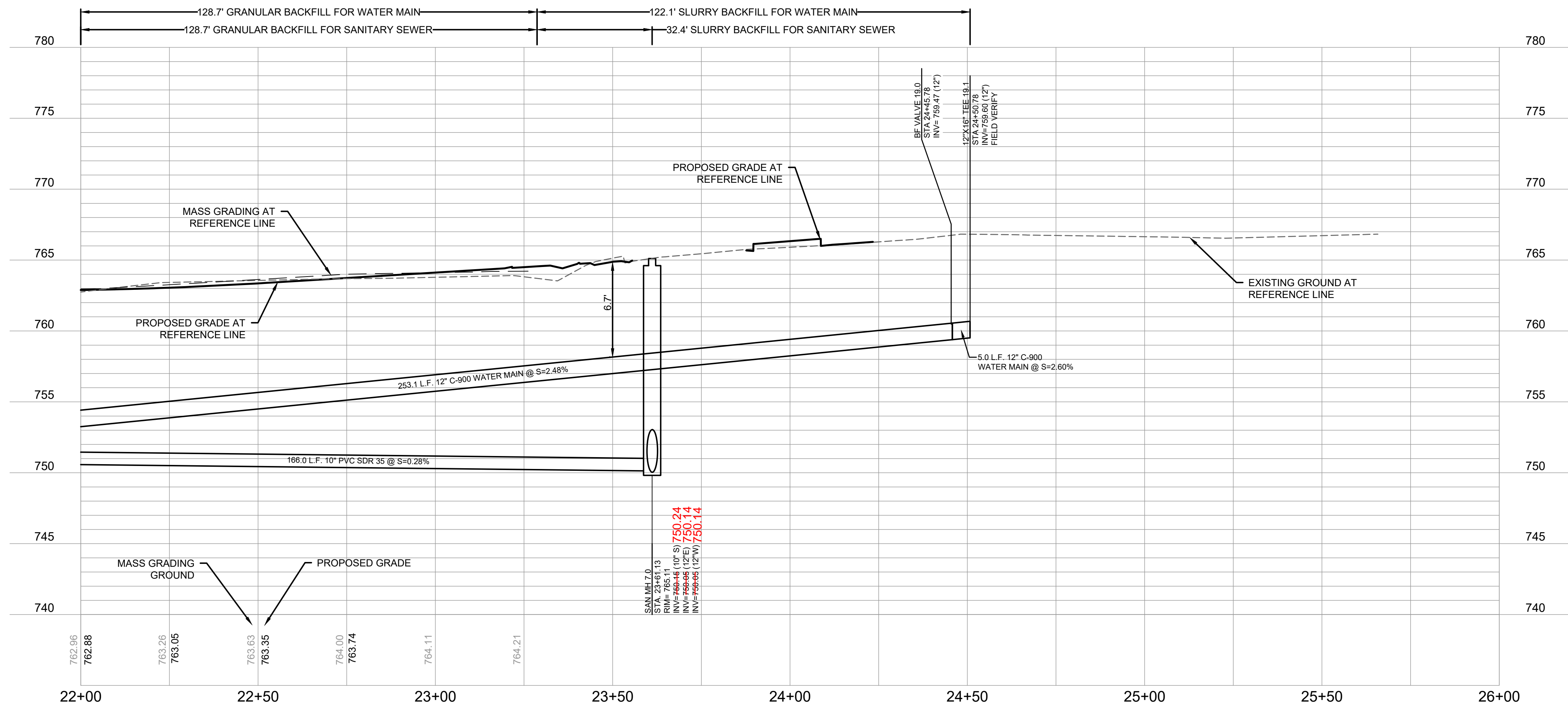
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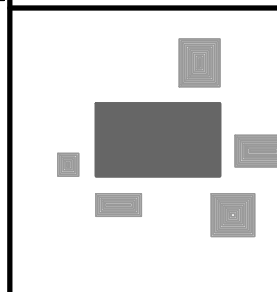
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DRAFTED: ED  
REVIEWED: AUS



CTH K INTERSECTION MODIFICATIONS  
WILL BE COMPLETED UNDER A  
SEPARATE CONTRACT WITH THE  
VILLAGE OF CALEDONIA.





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REG JOB No. **1912.00 WI**

REG PM: **AJS**

START DATE: **04/20/22**

SCALE: **1" = 20'**

SHEET  
**C-48**  
**C-59**

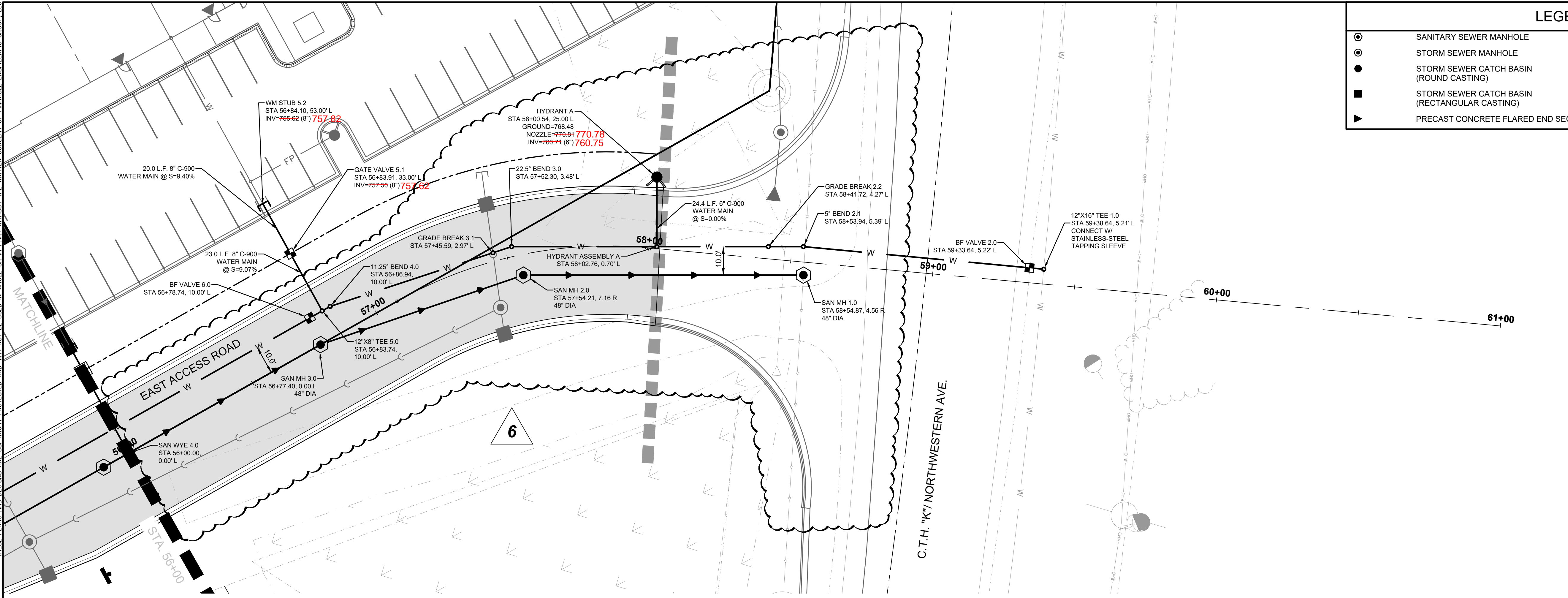






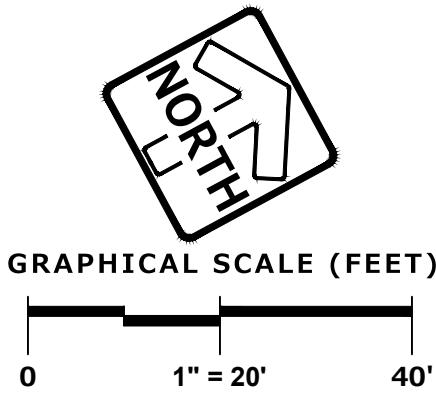
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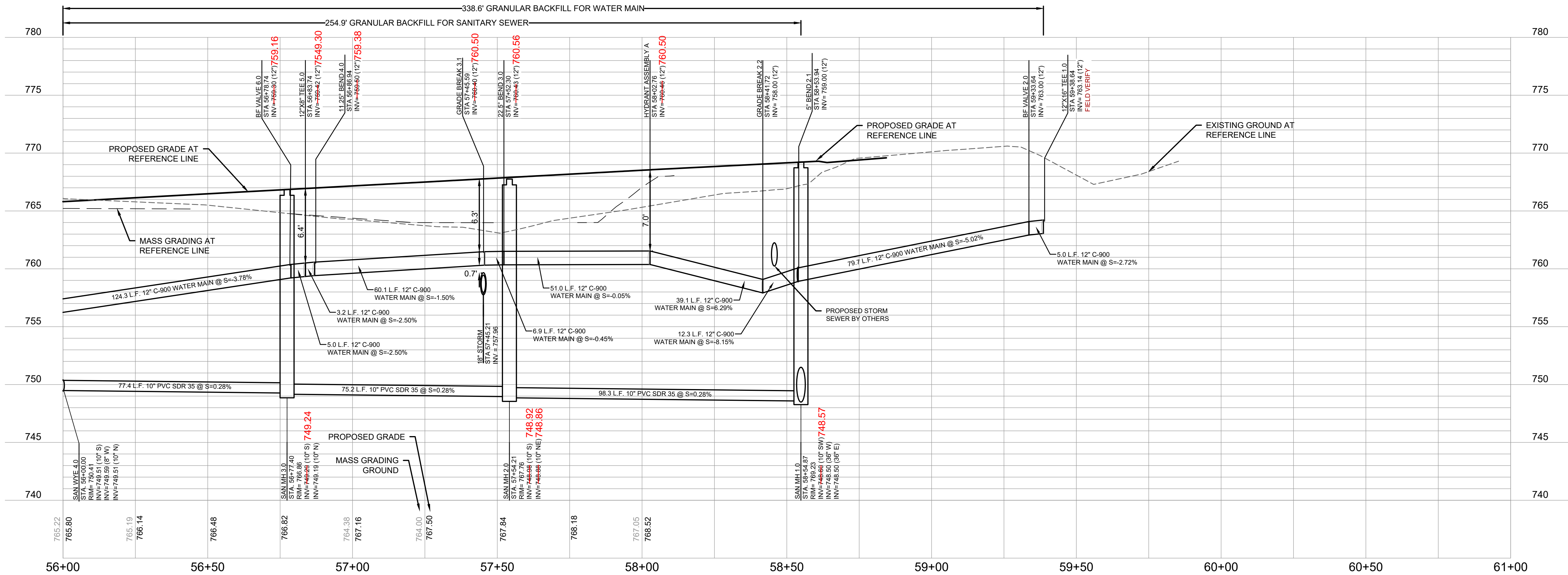


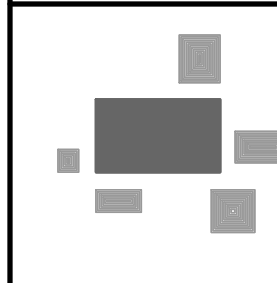
#### LEGEND

	SANITARY SEWER MANHOLE		CLEANOUT
	STORM SEWER MANHOLE		VALVE BOX
	STORM SEWER CATCH BASIN (ROUND CASTING)		FIRE HYDRANT
	STORM SEWER CATCH BASIN (RECTANGULAR CASTING)		SANITARY SEWER
	PRECAST CONCRETE FLARED END SECTION		STORM SEWER
			DRAIN TILE



CTH K INTERSECTION MODIFICATIONS  
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## CALEDONIA CORPORATE PARK INFRASTRUCTURE PLANS CALEDONIA, WI

### UTILITY PLAN AND PROFILE

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REG JOB NO: 1912.00 WI	AJS	SHEET
REG PM	AJS	C-50
START DATE: 04/20/22		C-59
SCALE: 1" = 20'		



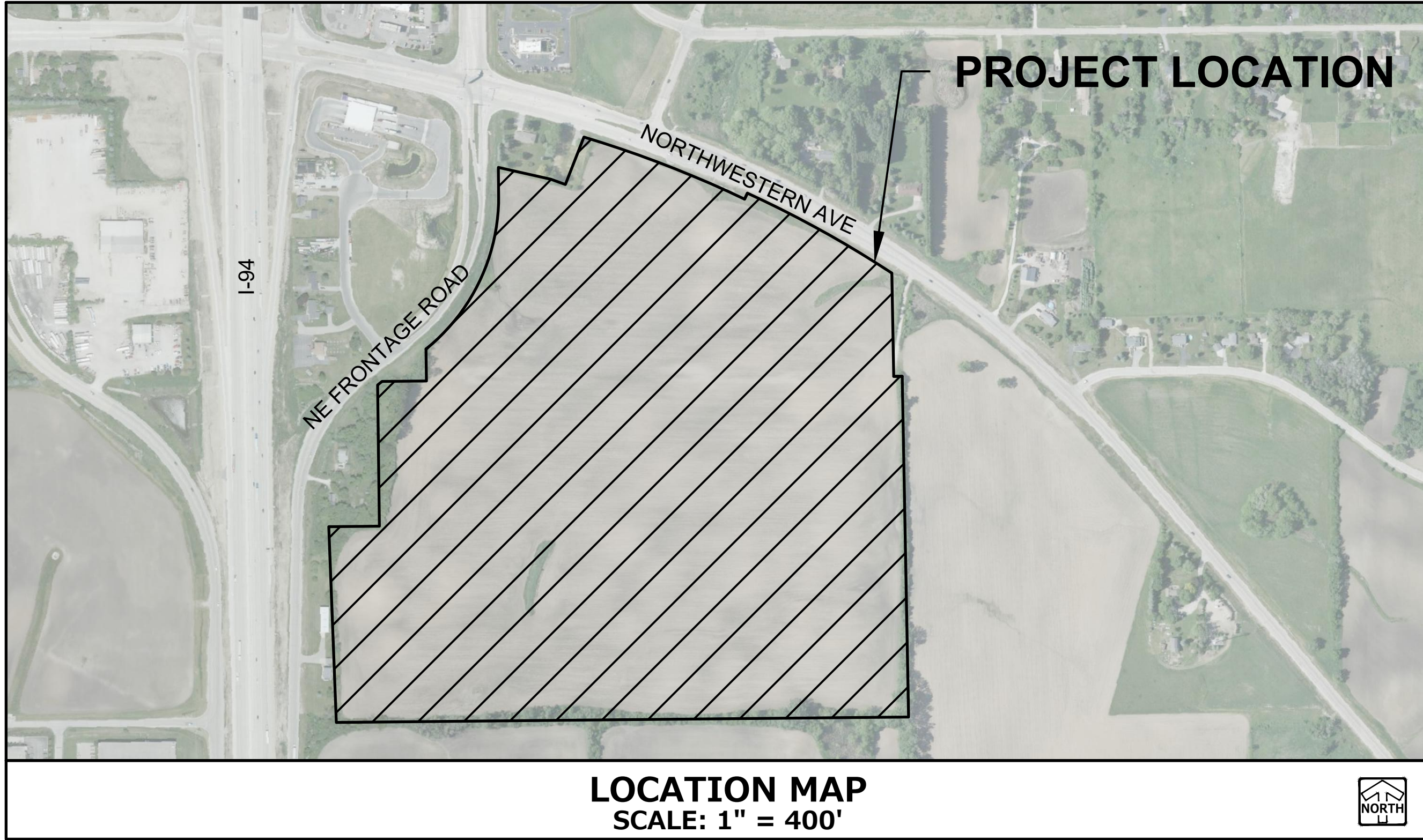
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DESIGNED: KM

DRAWN: JAS

REVIEWED: JAS

ONSITE CIVIL ENGINEERING INFRASTRUCTURE PLANS  
FOR  
**CALEDONIA CORPORATE PARK**  
VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN  
PLANS PREPARED FOR:



LEGEND		
	EXISTING	PROPOSED
SANITARY SEWER MANHOLE	⊙	⊙
STORM SEWER MANHOLE	⊙	⊙
STORM SEWER AREA DRAIN		■
STORM SEWER INLET (ROUND CASTING)	○	●
STORM SEWER INLET (RECTANGULAR CASTING)	□	■
PRECAST FLARED END SECTION	△	△
CONCRETE HEADWALL	∩	∩
AIR RELEASE ASSEMBLY	⊗	⊗
VALVE BOX	■	■
FIRE HYDRANT	⊗	⊗
BUFFALO BOX	⊗	⊗
CLEANOUT	⊗	⊗
SANITARY SEWER	—	—
FORCE MAIN	—	—
STORM SEWER	—	—
DRAIN TILE	—	—
WATER MAIN	—	—
UTILITY CROSSING	—	—
LIGHTING	⊗	⊗
ELECTRICAL CABLE	—	—
OVERHEAD WIRES	—	—
CAUTION EXISTING UTILITIES NEARBY	⊗	⊗
ELECTRICAL TRANSFORMER OR PEDESTAL	⊗	⊗
POWER POLE	⊗	⊗
POWER POLE WITH LIGHT	⊗	⊗
STREET SIGN	⊗	⊗
GAS MAIN	—	—
TELEPHONE LINE	—	—
CONTOUR	749	750.00
SPOT ELEVATION	× (750.00)	× 750.00
WETLANDS	—	—
FLOODWAY	—	—
FLOODPLAIN	—	—
HIGH WATER LEVEL (HWL)	—	—
NORMAL WATER LEVEL (NWL)	—	—
DIRECTION OF SURFACE FLOW	→	→
DITCH OR SWALE	—	—
DIVERSION SWALE	—	—
OVERFLOW RELIEF ROUTING	—	—
TREE WITH TRUNK SIZE	⊗	⊗
SOIL BORING	⊗	⊗
TOPSOIL PROBE	⊗	⊗
FENCE LINE, TEMPORARY SILT	—	—
FENCE LINE, WIRE	—	—
FENCE LINE, CHAIN LINK OR IRON	—	—
FENCE LINE, WOOD OR PLASTIC	—	—
CONCRETE SIDEWALK	—	—
CURB AND GUTTER	—	—
DEPRESSED CURB	—	—
REVERSE PITCH CURB & GUTTER	—	—
EASEMENT LINE	—	—

ABBREVIATIONS			
BL	BASE LINE	NWL	NORMAL WATER LEVEL
C	LONG CHORD OF CURVE	PC	POINT OF CURVATURE
C & G	CURB AND GUTTER	PT	POINT OF TANGENCY
CB	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
CL	CENTERLINE	R	RADIUS
D	DEGREE OF CURVE	ROW	RIGHT-OF-WAY
EP	EDGE OF PAVEMENT	SAN	SANITARY SEWER
FF	FINISHED FLOOR	ST	STORM SEWER
FG	FINISHED GRADE	T	TANGENCY OF CURVE
FL	FLOW LINE	TB	TOP OF BANK
FP	FLOODPLAIN	TC	TOP OF CURB
FR	FRAME	TF	TOP OF FOUNDATION
FW	FLOODWAY	TP	TOP OF PIPE
HWL	HIGH WATER LEVEL	TS	TOP OF SIDEWALK
INV	INVERT	TW	TOP OF WALK
L	LENGTH OF CURVE	WM	WATER MAIN
MH	MANHOLE	Δ	INTERSECTION ANGLE

GENERAL NOTES

- THE INTENTION OF THE PLANS AND SPECIFICATIONS IS TO SET FORTH PERFORMANCE AND CONSTRUCTION MATERIAL STANDARDS FOR THE PROPER EXECUTION OF WORK. ALL WORKS CONTAINED WITHIN THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS FROM LOCAL, STATE, FEDERAL OR OTHER GOVERNING AGENCY'S LAWS, REGULATIONS, JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., AND THE OWNER'S DIRECTION.
- A GEOTECHNICAL REPORT HAS BEEN PREPARED BY ECS MIDWEST, LLC DATED DECEMBER 21, 2021, FOR THE PROJECT SITE. THE DATA ON SUB-SURFACE SOIL CONDITIONS IS NOT INTENDED AS A REPRESENTATION OR WARRANTY OF THE CONTINUITY OF SUCH CONDITIONS BETWEEN BORINGS OR INDICATED SAMPLING LOCATIONS. IT SHALL BE EXPRESSLY UNDERSTOOD THAT OWNER WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSIONS DRAWN THERE BY THE CONTRACTOR. DATA IS MADE AVAILABLE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY ADDITIONAL SOILS INVESTIGATIONS THEY FEEL ARE NECESSARY FOR THE PROPER EVALUATION OF THE SITE FOR PURPOSES OF PLANNING, BIDDING, OR CONSTRUCTING THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO PROVIDE PLAN AND GEOTECHNICAL REPORT FOR FILLED AREAS WHERE BUILDING WILL OCCUR. CERTIFICATION OF THE FILL AREAS AND ITS COMPACTION SHALL BE PROVIDED. CONTACT THE VILLAGE OF CALEDONIA BUILDING INSPECTOR @ 262-835-6420 FOR DETAILS OF REQUIREMENTS AND INSPECTIONS.
- THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL COMPONENTS OF THE PLANS AND SPECIFICATIONS, INCLUDING FIELD VERIFYING SOIL CONDITIONS, PRIOR TO SUBMISSION OF A BID PROPOSAL.
- THE CONTRACTOR SHALL PROMPTLY REPORT ANY ERRORS OR AMBIGUITIES LEARNED AS PART OF THEIR REVIEW OF PLANS, SPECIFICATIONS, REPORTS AND FIELD INVESTIGATIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COMPUTATION OF QUANTITIES AND WORK REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR'S BID SHALL BE BASED ON ITS OWN COMPUTATIONS AND IN NO SUCH INSTANCE RELY ON THE ENGINEER'S ESTIMATE.
- QUESTIONS/CLARIFICATIONS WILL BE INTERPRETED BY ENGINEER/OWNER PRIOR TO THE AWARD OF CONTRACT. ENGINEER/OWNER WILL SUBMIT OFFICIAL RESPONSES IN WRITING. INTERPRETATIONS PRESENTED IN OFFICIAL RESPONSES SHALL BE BINDING ON ALL PARTIES ASSOCIATED WITH THE CONTRACT. IN NO WAY SHALL WORD-OF-MOUTH DIALOG CONSTITUTE AN OFFICIAL RESPONSE.
- PRIOR TO START OF WORK, CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL CONDITIONS OF THE SITE, AND SHALL ACCOUNT FOR CONDITIONS THAT AFFECT, OR MAY AFFECT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LIMITATIONS OF WORK ACCESS, SPACE LIMITATIONS, OVERHEAD OBSTRUCTIONS, TRAFFIC PATTERNS, LOCAL REQUIREMENTS, ADJACENT ACTIVITIES, ETC. FAILURE TO CONSIDER SITE CONDITIONS SHALL NOT BE CAUSE FOR CLAIM OF JOB EXTRAS.
- COMMENCEMENT OF CONSTRUCTION SHALL EXPLICITLY CONFIRM THAT THE CONTRACTOR HAS REVIEWED THE PLANS AND SPECIFICATIONS IN ENTIRETY AND CERTIFIES THAT THEIR SUBMITTED BID PROPOSAL CONTAINS PROVISIONS TO COMPLETE THE PROJECT, WITH THE EXCEPTION OF UNFORESEEN FIELD CONDITIONS; ALL APPLICABLE PERMITS HAVE BEEN OBTAINED; AND CONTRACTOR UNDERSTANDS ALL OF THE REQUIREMENTS OF THE PROJECT.
- SHOULD ANY DISCREPANCIES OR CONFLICTS IN THE PLANS OR SPECIFICATIONS BE DISCOVERED AFTER THE AWARD OF CONTRACT, ENGINEER SHALL BE NOTIFIED IN WRITING IMMEDIATELY AND CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES/CONFLICTS SHALL NOT COMMENCE, OR CONTINUE, UNTIL A WRITTEN RESPONSE FROM ENGINEER/OWNER IS DISTRIBUTED. IN THE EVENT OF A CONFLICT BETWEEN REFERENCED CODES, STANDARDS, SPECIFICATIONS AND PLANS, THE ONE ESTABLISHING THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
- THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS AND LICENSES TO COMPLETE THE PROJECT. OBTAINING PERMITS, OR DELAYS, IS NOT CAUSE FOR DELAY OF THE CONTRACT OR SCHEDULE. CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY ALL INTERESTED GOVERNING AGENCIES, UTILITY COMPANIES AFFECTED BY THIS CONSTRUCTION PROJECT, AND DIGGER'S HOTLINE IN ADVANCE OF CONSTRUCTION TO COMPLY WITH ALL JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., PERMIT STIPULATIONS, AND OTHER APPLICABLE STANDARDS.
- SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO INITIATE, INSTITUTE, ENFORCE, MAINTAIN, AND SUPERVISE ALL SAFETY PRECAUTIONS AND JOB SITE SAFETY PROGRAMS IN CONNECTION WITH THE WORK.
- CONTRACTOR SHALL KEEP THE JOBSITE CLEAN AND ORDERLY AT ALL TIMES. ALL LOCATIONS OF THE SITE SHALL BE KEPT IN A WORKING MANNER SUCH THAT DEBRIS IS REMOVED CONTINUOUSLY AND ALL RESPECTIVE CONTRACTORS OPERATE UNDER GENERAL "GOOD HOUSEKEEPING."
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, AND THEIR AGENTS FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.

INDEX OF SHEETS

C-1	COVER SHEET
C-2	EXISTING CONDITIONS & DEMOLITION PLAN
C-3 - C-5	GRADING PLAN
C-6 - C-11	STORM SEWER PLAN & PROFILE
C-12 - C-14	SITE STABILIZATION
C-15 - C-19	CONSTRUCTION DETAILS

PROJECT TEAM CONTACTS

<b>APPLICANT:</b> JASON LUEDERS ZILBER PROPERTY GROUP 710 N PLANKINTON AVE MILWAUKEE, WI (414) 274-2625 JASON.LUEDERS@ZILBER.COM	<b>CIVIL ENGINEER:</b> ADAM ARTZ, P.E. PINNACLE ENGINEERING GROUP 20725 WATERTOWN ROAD, SUITE 100 BROOKFIELD, WI 53186 (262) 754-8888 ADAM.ARTZ@PINNACLE-ENGR.COM
<b>SURVEYOR:</b> JOHN KONOPACKI, P.L.S. PINNACLE ENGINEERING GROUP 20725 WATERTOWN ROAD, SUITE 100 BROOKFIELD, WI 53186 (262) 754-8888 JOHN.KONOPACKI@PINNACLE-ENGR.COM	<b>CIVIL ENGINEER:</b> ANDREW SHOAF, P.E. PINNACLE ENGINEERING GROUP 20725 WATERTOWN ROAD, SUITE 100 BROOKFIELD, WI 53186 (262) 754-8888 ANDY.SHOAF@PINNACLE-ENGR.COM

REQUIRED SUBMITTALS FOR APPROVAL

- TRENCH BACKFILL
- PIPE BEDDING

REQUIRED SUBMITTALS FOR RECORDS

- STORM SEWER
- LIME MIX DESIGN (IF APPLICABLE)



EXPIRATION DATE: JULY 31, 2022

PINNACLE ENGINEERING GROUP, LLC  
ENGINEER'S LIMITATION

PINNACLE ENGINEERING GROUP, LLC AND THEIR CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE DELIVERABLES HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE DELIVERABLES, THE ENGINEER SHALL BE PROMPTLY NOTIFIED PRIOR TO BID SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT TO THE ENGINEER, OR IN CONTRADICTION TO THE ENGINEER'S DELIVERABLES OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER BUT OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

FURTHERMORE, PINNACLE ENGINEERING GROUP, LLC IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY OR THE MEANS AND METHODS OF CONSTRUCTION.

CALEDONIA CORPORATE PARK

CALEDONIA, WI

COVER SHEET

REVISIONS

1	MUNICIPAL SUBMITTAL	6-09-22	—	—	—
2	PER VILLAGE COMMENTS	7-28-22	—	—	—
3	PER VILLAGE COMMENTS	8-1-22	—	—	—
4	PER VILLAGE COMMENTS	8-3-22	—	—	—

REG. NO. 1912.00, WI  
AREA  
SCALE  
DATE 04/12/22  
N.T.S.

SHEET  
C-1  
of  
C-19

COVER SHEET

CONSTRUCTION SET

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DESIGNED: JMS  
DRAWN: KM  
REVIEWED: JMS

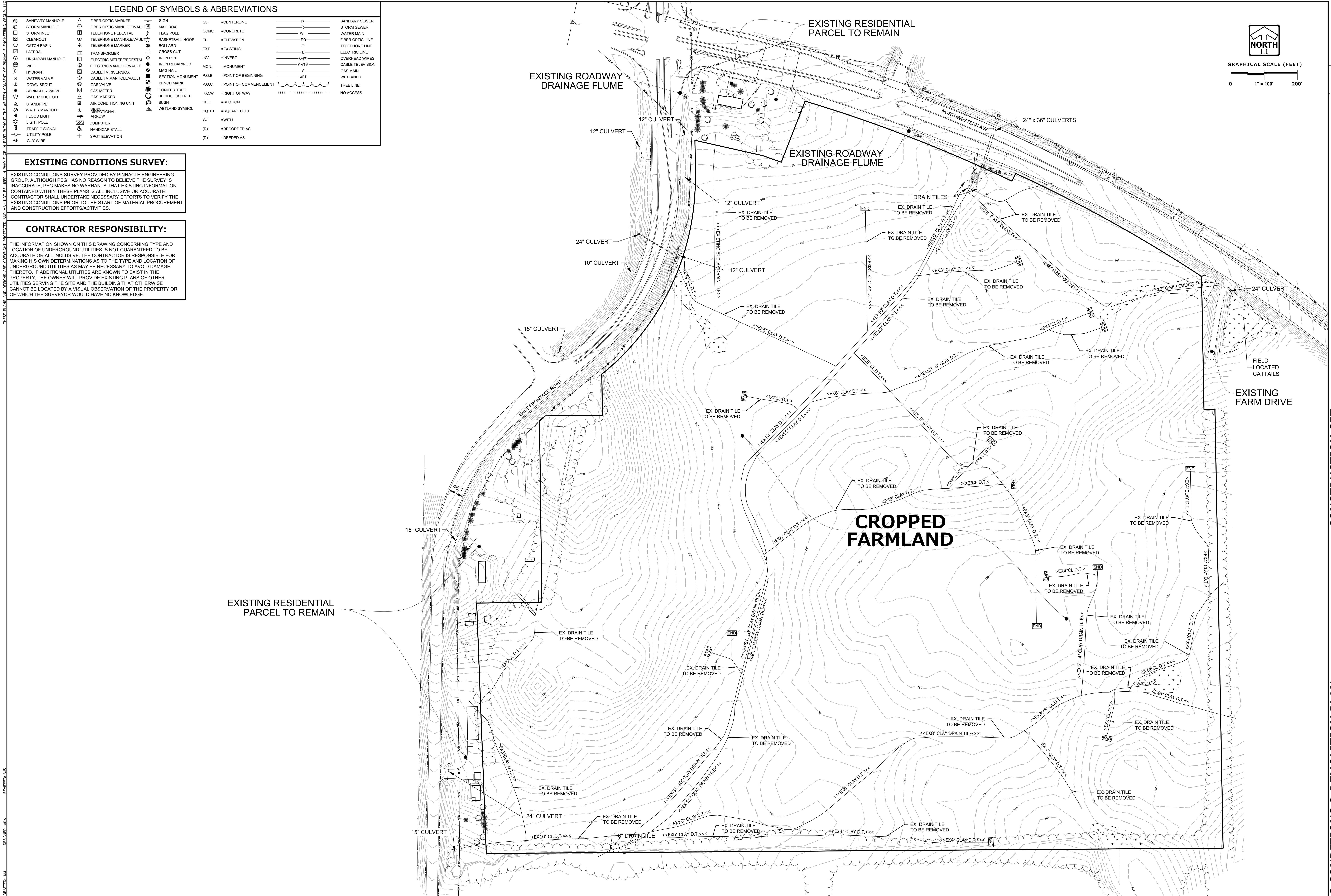
LEGEND OF SYMBOLS & ABBREVIATIONS									

EXISTING CONDITIONS SURVEY:

EXISTING CONDITIONS SURVEY PROVIDED BY PINNACLE ENGINEERING GROUP. ALTHOUGH PEG HAS NO REASON TO BELIEVE THE SURVEY IS INACCURATE, PEG MAKES NO WARRANTIES THAT EXISTING INFORMATION CONTAINED WITHIN THESE PLANS IS ALL-INCLUSIVE OR ACCURATE. CONTRACTOR SHALL UNDERTAKE NECESSARY EFFORTS TO VERIFY THE EXISTING CONDITIONS PRIOR TO THE START OF MATERIAL PROCUREMENT AND CONSTRUCTION EFFORTS/ACTIVITIES.

CONTRACTOR RESPONSIBILITY:

THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. IF ADDITIONAL UTILITIES ARE KNOWN TO EXIST IN THE PROPERTY, THE OWNER WILL PROVIDE EXISTING PLANS OF OTHER UTILITIES SERVING THE SITE AND THE BUILDING THAT OTHERWISE CANNOT BE LOCATED BY A VISUAL OBSERVATION OF THE PROPERTY OR OF WHICH THE SURVEYOR WOULD HAVE NO KNOWLEDGE.





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DESIGNED: KM

DRAWN: JMS

REVIEWED: JMS

**STORM SEWER SHALL BE TIE BOLTED FOR A MINIMUM OF 3 JOINTS FROM ALL FLARED END SECTIONS (SEE DETAIL ON C-17)**

**EXISTING CONDITIONS SURVEY:**

EXISTING CONDITIONS SURVEY PROVIDED BY PINNACLE ENGINEERING GROUP. ALTHOUGH PEG HAS NO REASON TO BELIEVE THE SURVEY IS INACCURATE, PEG MAKES NO WARRANTIES THAT EXISTING INFORMATION CONTAINED WITHIN THESE PLANS IS ALL-INCLUSIVE OR ACCURATE. CONTRACTOR SHALL UNDERTAKE NECESSARY EFFORTS TO VERIFY THE EXISTING CONDITIONS PRIOR TO THE START OF MATERIAL PROCUREMENT AND CONSTRUCTION EFFORTS/ACTIVITIES.

**GRADING NOTES**

1. CONTRACTOR SHALL VERIFY ALL GRADES. ENSURE ALL AREAS DRAIN PROPERLY AND REPORT ANY DISCREPANCIES TO PINNACLE ENGINEERING GROUP PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
2. ALL EXISTING CONTOURS REPRESENT EXISTING SURFACE GRADES UNLESS OTHERWISE NOTED. ALL PROPOSED GRADES SHOWN ARE FINISH SURFACE GRADES UNLESS OTHERWISE NOTED.
3. SPOT ELEVATIONS REPRESENT THE GRADE ALONG THE CURB AND GUTTER FLOWLINE UNLESS OTHERWISE NOTED.
4. ALL EXCAVATIONS AND MATERIAL PLACEMENT SHALL BE COMPLETED TO DESIGN ELEVATIONS AS DEPICTED IN THE PLANS.

CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATION(S) OF ALL GRADING QUANTITIES. WHILE PEG ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARD OF CARE, THEREFORE NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.

THE CONTRACTOR MAY SOLICIT APPROVAL FROM ENGINEER/OWNER TO ADJUST FINAL GRADES FROM DESIGN GRADES TO PROVIDE AN OVERALL SITE BALANCE AS A RESULT OF FIELD CONDITIONS.

5. GRADING ACTIVITIES SHALL BE IN A MANNER TO ALLOW POSITIVE DRAINAGE ACROSS DISTURBED SOILS, WHICH MAY INCLUDE EXCAVATION OF TEMPORARY DITCHES TO PREVENT PONDING, AND IF NECESSARY PUMPING TO ALLEVIATE PONDING. CONTRACTOR SHALL PREVENT SURFACE WATER FROM ENTERING INTO EXCAVATIONS. IN NO WAY SHALL OWNER BE RESPONSIBLE FOR REMEDIATION OF UNSUITABLE SOILS CREATED/ORIGINATED AS A RESULT OF IMPROPER SITE GRADING OR SEQUENCING. CONTRACTOR SHALL SEQUENCE GRADING ACTIVITIES TO LIMIT EXPOSURE OF DISTURBED SOILS DUE TO WEATHER.
6. THE CONTRACTOR IS RESPONSIBLE FOR MEETING MINIMUM COMPACTION STANDARDS. THE CONTRACTOR SHALL NOTIFY ENGINEER/OWNER IF PROPER COMPACTION CANNOT BE OBTAINED. THE PROJECT'S GEOTECHNICAL CONSULTANT SHALL DETERMINE WHICH IN-SITU SOILS ARE TO BE CONSIDERED UNSUITABLE SOILS. THE ENGINEER/OWNER AND GEOTECHNICAL TESTING CONSULTANT WILL DETERMINE IF REMEDIAL MEASURES WILL BE NECESSARY.
7. IN THE EVENT THAT ANY MOISTURE-DENSITY TEST(S) FAIL TO MEET SPECIFICATION REQUIREMENTS, THE CONTRACTOR SHALL PERFORM CORRECTIVE WORK AS NECESSARY TO BRING THE MATERIAL INTO COMPLIANCE AND RETEST THE FAILED AREA AT NO COST TO THE OWNER.
8. WITH THE AUTHORIZATION OF THE ENGINEER/OWNER, MATERIAL THAT IS TOO WET TO PERMIT PROPER COMPACTION MAY BE SPREAD ON FILL AREAS IN AN EFFORT TO DRY. CONTRACTOR SHALL CLEARLY FIELD MARK THE EXTERIOR LIMITS OF SPREAD MATERIAL WITH PAINTED LATH AND SUBMIT A PLAN TO THE ENGINEER/OWNER THAT IDENTIFIES THE LIMITS. UNDER NO CONDITION SHALL THE SPREAD MATERIAL DEPTH EXCEED THE MOST RESTRICTIVE OF: THE EFFECTIVE TREATMENT DEPTH OF MACHINERY THAT WILL BE USED TO TURNOVER THE SPREAD MATERIAL, OR THE MAXIMUM COMPACTION LIFT DEPTH.
9. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER/OWNER IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION.
10. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ADEQUATE AND SAFE TEMPORARY SHORING, BRACING, RETENTION STRUCTURES, AND EXCAVATIONS.
11. THE SITE SHALL BE COMPLETED TO WITHIN 0.10-FT (1/2") OF THE PROPOSED GRADES AS INDICATED WITHIN THE PLANS PRIOR TO PLACEMENT OF TOPSOIL OR STONE. CONTRACTOR IS ENCOURAGED TO SEQUENCE CONSTRUCTION SUCH THAT THE SITE IS DIVIDED INTO SMALLER AREAS TO ALLOW STABILIZATION OF DISTURBED SOILS IMMEDIATELY UPON COMPLETION OF INDIVIDUAL SMALLER AREAS.
12. CONTRACTOR SHALL CONTACT "DIGGER'S HOTLINE" FOR LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR PROTECTING SAID UTILITIES FROM ANY DAMAGE DURING CONSTRUCTION.
13. CONTRACTOR SHALL PROTECT INLETS AND ADJACENT PROPERTIES WITH SILT FENCING OR APPROVED EROSION CONTROL METHODS UNTIL CONSTRUCTION IS COMPLETED. CONTRACTOR SHALL PLACE SILT FENCING AT DOWN SLOPE SIDE OF GRADING LIMITS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING FACILITIES OR UTILITIES. ANY DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
15. WORK WITHIN ANY ROADWAY RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPAL OFFICIAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES. GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS. RESTORATION OF RIGHT-OF-WAY IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF GRADING. RESTORATION SHALL INCLUDE ALL ITEMS NECESSARY TO RESTORE RIGHT-OF-WAY IN-KIND INCLUDING LANDSCAPING.
16. CONTRACTOR SHALL COMPLY WITH ALL VILLAGE OF CALEDONIA AND RACINE COUNTY CONSTRUCTION STANDARDS/ORDINANCES.
17. LANDSCAPE AND TURF AREAS SHALL HAVE A MINIMUM OF 6-INCH TOPSOIL REPLACEMENT.
18. TOPSOIL BERMING SHALL ACHIEVE 90% STANDARD PROCTOR DENSITY AT 3%(±) OPTIMUM MOISTURE CONTENT.
19. THE EXISTING STORM SEWER AND UNDERDRAIN SYSTEMS SHALL BE FLAGGED SO THAT IT IS NOT DISTURBED DURING CONSTRUCTION.

SHEET C-4

NORTHWESTERN AVE

CONCEPT BUILDING III

CONCEPT BUILDING II

CONCEPT BUILDING I

CONCEPT BUILDING IV

SHEET C-5



GRAPHICAL SCALE (FEET)

0 1" = 40' 80'

**LEGEND**

- PROPOSED FLARED END SECTION
- STORM CATCH BASIN
- CURB CATCH BASIN
- PROPOSED CONTOUR
- PROPOSED TOPSOIL CONTOUR
- SPOT ELEVATION
- TW
- BW
- EP
- DIRECTION OF SURFACE FLOW
- OVERFLOW RELIEF ROUTING
- DITCH OR SWALE
- NORMAL WATER LEVEL (NWL)
- HIGH WATER LEVEL (HWL)



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**CALEDONIA CORPORATE PARK**

**CALEDONIA, WI**

**GRADING PLAN OVERVIEW**

**REVISIONS**

- |   |                      |         |  |  |  |
|---|----------------------|---------|--|--|--|
| 1 | MUNICIPAL SUBMITTAL  | 6-09-22 |  |  |  |
| 2 | PER VILLAGE COMMENTS | 7-28-22 |  |  |  |
| 3 | PER VILLAGE COMMENTS | 8-1-22  |  |  |  |
| 4 | PER VILLAGE COMMENTS | 8-3-22  |  |  |  |

PEG JOB NO. 1912.00-WI  
AREA  
START DATE 04/12/22  
SCALE 1" = 150'

SHEET  
**C-3**  
of  
**C-19**

GRADING PLAN OVERVIEW

CONSTRUCTION SET

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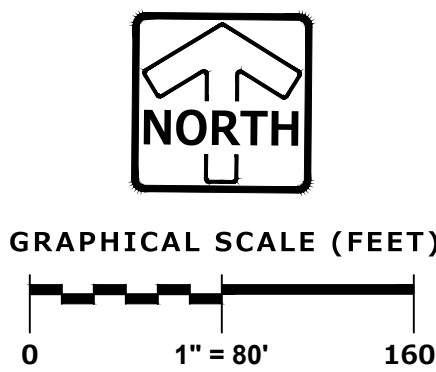
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DESIGNED: KM  
DRAWN: AS  
REVIEWED: AS

NOTE: ALL CONNECTIONS TO EXISTING DRAIN TILE SHALL BE MADE WITH FERNCO FITTINGS OR APPROVED EQUAL

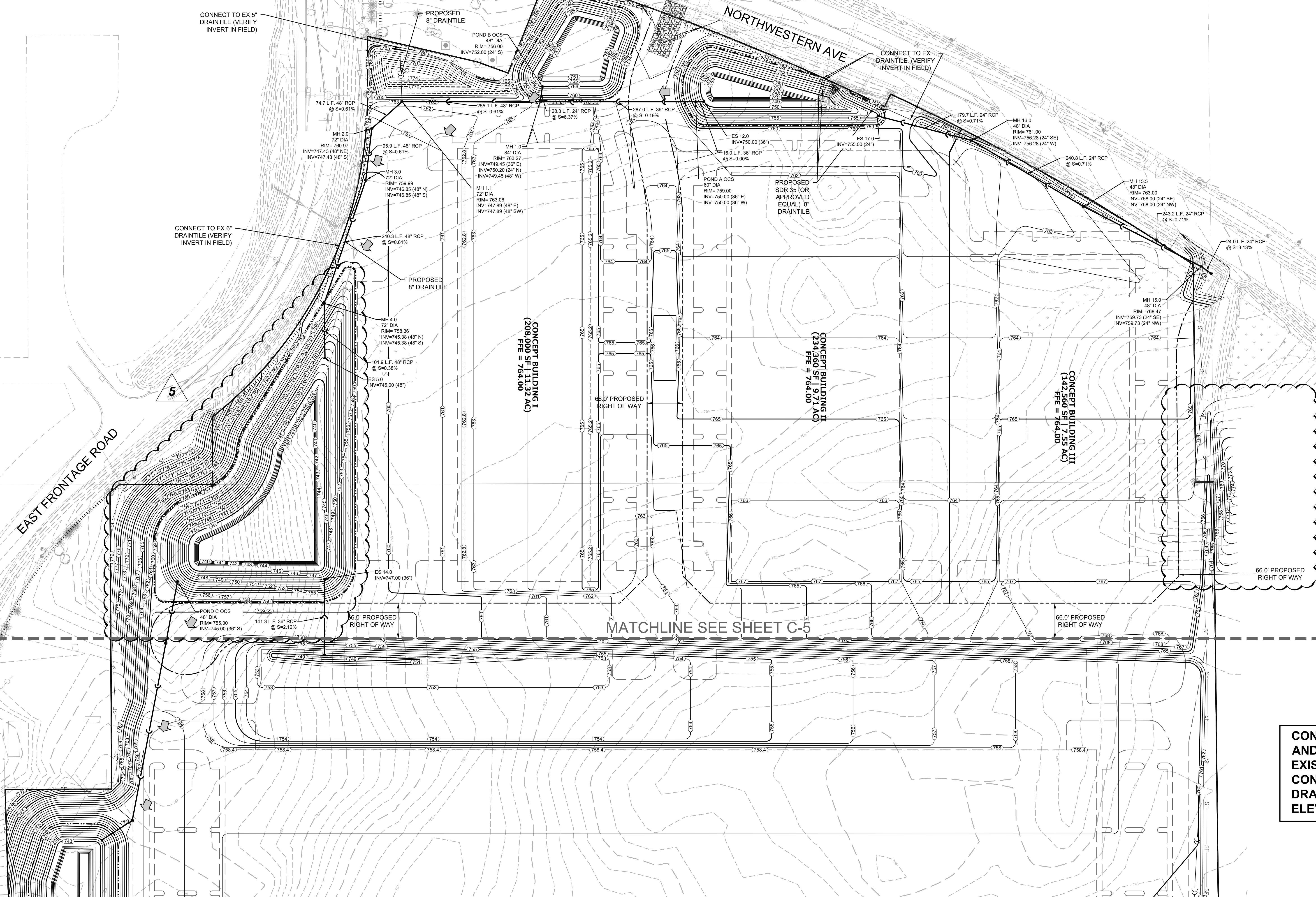
NOTE: FOR AREAS WITH MORE THAN 3.0' OF FILL, CONTRACTOR SHALL PROVIDE GEO-TECHNICAL REPORTS TO THE VILLAGE

CONTRACTOR SHALL SUBMIT RETAINING WALL PLANS AND DESIGN, STAMPED BY A PROFESSIONAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OF THE WALL.




LEGEND	
	PROPOSED FLARED END SECTION
	STORM CATCH BASIN
	CURB CATCH BASIN
	PROPOSED CONTOUR
	PROPOSED TOPSOIL CONTOUR
	SPOT ELEVATION
	TOP OF WALL
	BOTTOM OF WALL
	EDGE OF PAVEMENT
	DIRECTION OF SURFACE FLOW
	OVERFLOW RELIEF ROUTING
	DITCH OR SWALE
	NORMAL WATER LEVEL (NWL)
	HIGH WATER LEVEL (HWL)

STORM SEWER SHALL BE TIE BOLTED FOR A MINIMUM OF 3 JOINTS FROM ALL FLARED END SECTIONS (SEE DETAIL ON C-17)



CONTRACTOR SHALL LOCATE AND RECORD INVERT OF EXISTING DRAINTILE PRIOR TO CONNECTION TO PROPOSED DRAINTILE AND SUBMIT ELEVATIONS TO THE ENGINEER



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**CALEDONIA CORPORATE PARK**  
**CALEDONIA, WI**

**GRADING PLAN**

REVISIONS	
1	MUNICIPAL SUBMITTAL 6-09-22
2	PER VILLAGE COMMENTS 7-28-22
3	PER VILLAGE COMMENTS 8-1-22
4	PER VILLAGE COMMENTS 8-3-22

REG. JOB NO. 1912.00.WT	AREA	SHEET
REG. NO.	START DATE 04/12/22	C-4
SCALE 1" = 80'		C-19



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DRAFTED: KM  
REVIEWED: AMS

NOTE: ALL CONNECTIONS TO EXISTING DRAIN TILE SHALL BE MADE WITH FERNCO FITTINGS OR APPROVED EQUAL

NOTE: FOR AREAS WITH MORE THAN 3.0' OF FILL, CONTRACTOR SHALL PROVIDE GEO-TECHNICAL REPORTS TO THE VILLAGE



GRAPHICAL SCALE (FEET)  
0 1" = 80' 160'

EAST FRONTAGE ROAD

CONCEPT BUILDING I  
(288 SF ± 764.00 AC)

CONCEPT BUILDING II  
(234,360 SF ± 9.71 AC)  
FFE = 764.00

CONCEPT BUILDING III  
(142,560 SF ± 7.35 AC)  
FFE = 764.00

FIELD LOCATED  
CATTAILS

MATCHLINE SEE SHEET C-4

CONCEPT BUILDING IV  
(1,000,000 SF ± 49.31 AC)  
FFE = 758.95

CONTRACTOR SHALL LOCATE AND RECORD INVERT OF EXISTING DRAINTILE PRIOR TO CONNECTION TO PROPOSED DRAINTILE AND SUBMIT ELEVATIONS TO THE ENGINEER

STORM SEWER SHALL BE TIE BOLTED FOR A MINIMUM OF 3 JOINTS FROM ALL FLARED END SECTIONS (SEE DETAIL ON C-17)

CONTRACTOR SHALL SUBMIT RETAINING WALL PLANS AND DESIGN, STAMPED BY A PROFESSIONAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OF THE WALL.

LEGEND	
	PROPOSED FLARED END SECTION
	STORM CATCH BASIN
	CURB CATCH BASIN
	PROPOSED CONTOUR
	PROPOSED TOPSOIL CONTOUR
	SPOT ELEVATION
	TOP OF WALL
	BOTTOM OF WALL
	EDGE OF PAVEMENT
	DIRECTION OF SURFACE FLOW
	OVERFLOW RELIEF ROUTING
	DITCH OR SWALE
	NORMAL WATER LEVEL (NWL)
	HIGH WATER LEVEL (HWL)

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# CALEDONIA CORPORATE PARK

## CALEDONIA, WI

### GRADING PLAN

REVISIONS	
1. MUNICIPAL SUBMITTAL	6-09-22
2. PER VILLAGE COMMENTS	7-28-22
3. PER VILLAGE COMMENTS	8-1-22
4. PER VILLAGE COMMENTS	8-3-22

REG. NO. 1912.00	WT
AREA	
START DATE 04/12/22	
SCALE 1" = 80'	
SHEET C-5	
C-19	

GRADING PLAN

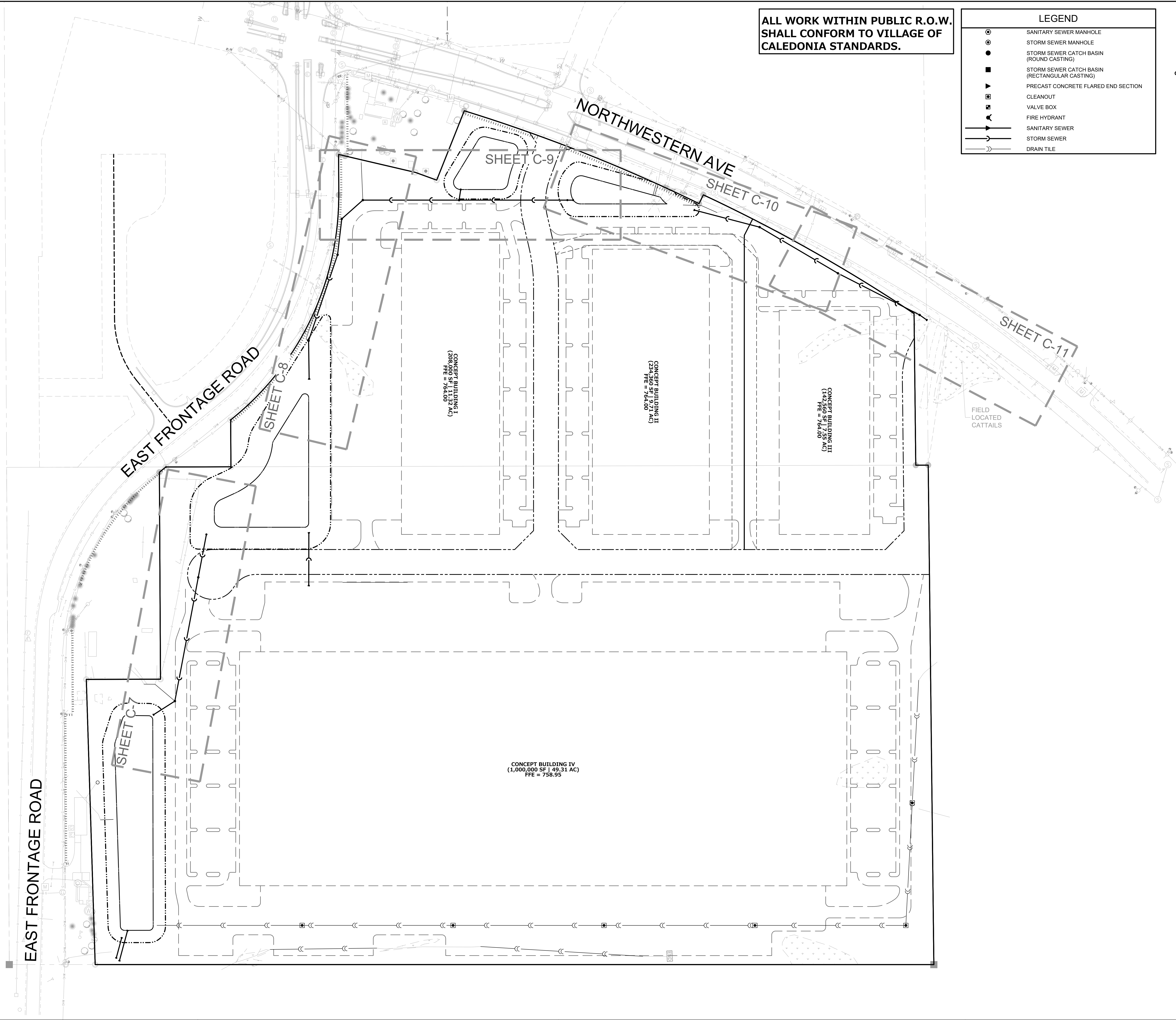
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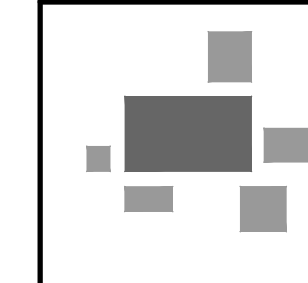
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**CALEDONIA CORPORATE PARK**

**CALEDONIA, WI**

**STORM SEWER PLAN & PROFILE OVERVIEW**

REVISIONS			
1	MUNICIPAL SUBMITTAL	6-09-22	
2	PER VILLAGE COMMENTS	7-28-22	
3	PER VILLAGE COMMENTS	8-1-22	
4	PER VILLAGE COMMENTS	8-3-22	

REG. JOB NO. 1912.00-WI	AREA
REG. PM.	
START DATE 04/12/22	SCALE 1" = 100'

SHEET  
**C-6**  
of  
**C-19**

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REVIEWED: AS

POND D  
NWL = 743.00

4

ES 7.0  
WITH BAR GRADE  
INV=743.00 (SP NE) 743.03

SDR-35  
INV=751.47

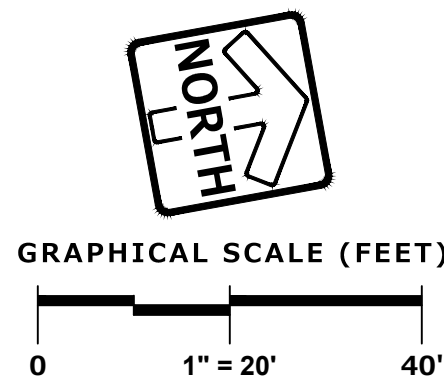
MH 8.0  
72" DIA  
STA= 51+00.55

PROPOSED SDR 35  
(OR APPROVED  
EQUAL) 8" DRAINTILE

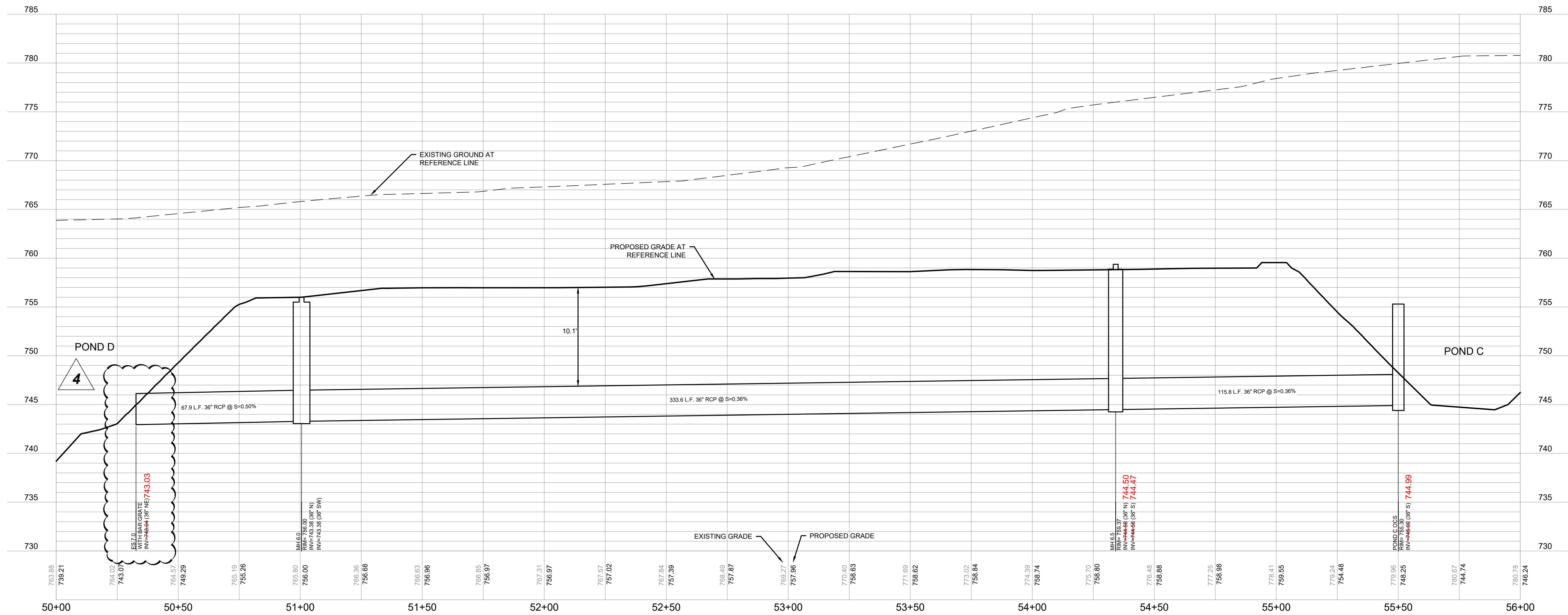
EXISTING  
DRAINTILE


MH 6.5  
60" DIA  
STA= 54+34.17

POND C OCS  
48" DIA  
STA= 55+50.00



LEGEND	
	STORM SEWER MANHOLE
	PRECAST CONCRETE FLARED END SECTION
	STORM SEWER
	DRAIN TILE





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### CALEDONIA, WI

### STORM SEWER PLAN & PROFILE

REVISIONS	
1	MUNICIPAL SUBMITTAL 6-09-22
2	PER VILLAGE COMMENTS 7-28-22
3	PER VILLAGE COMMENTS 8-1-22
4	PER VILLAGE COMMENTS 8-3-22

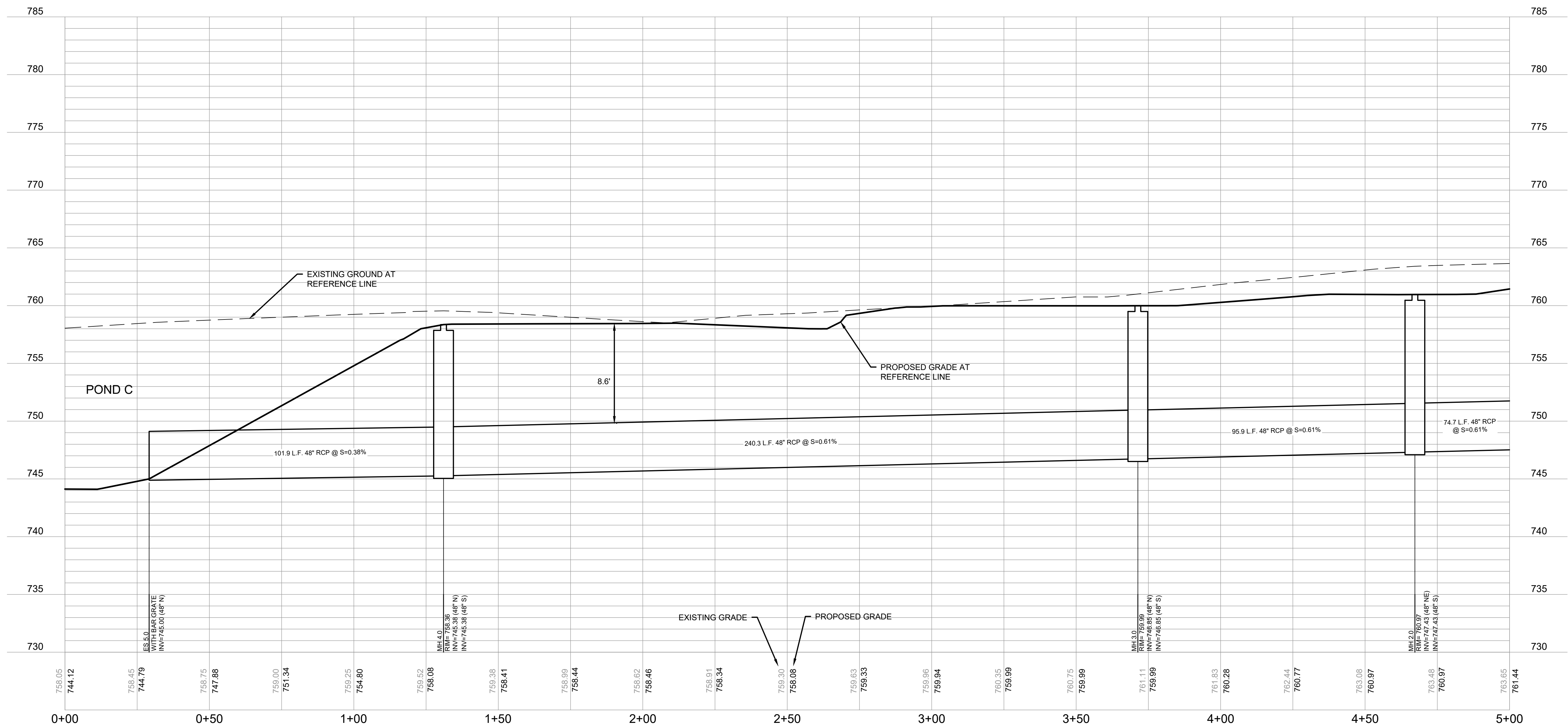
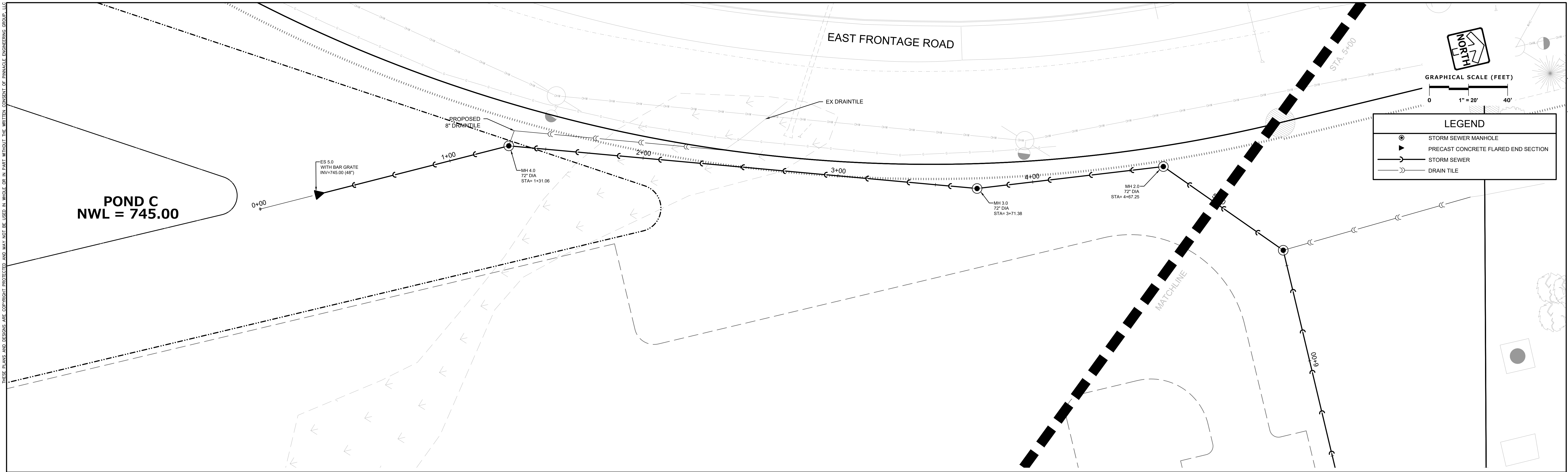
REG. JOB NO. 1912.00.WI

REG. PM. AREA

START DATE 04/12/22

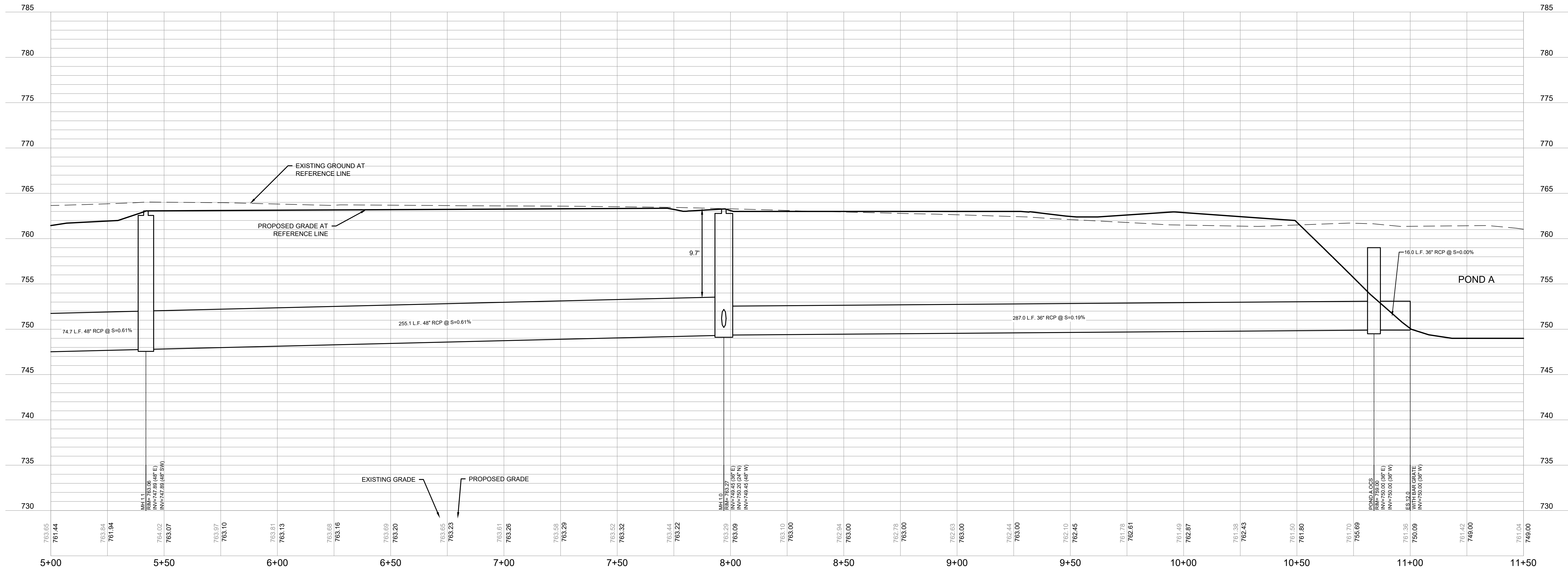
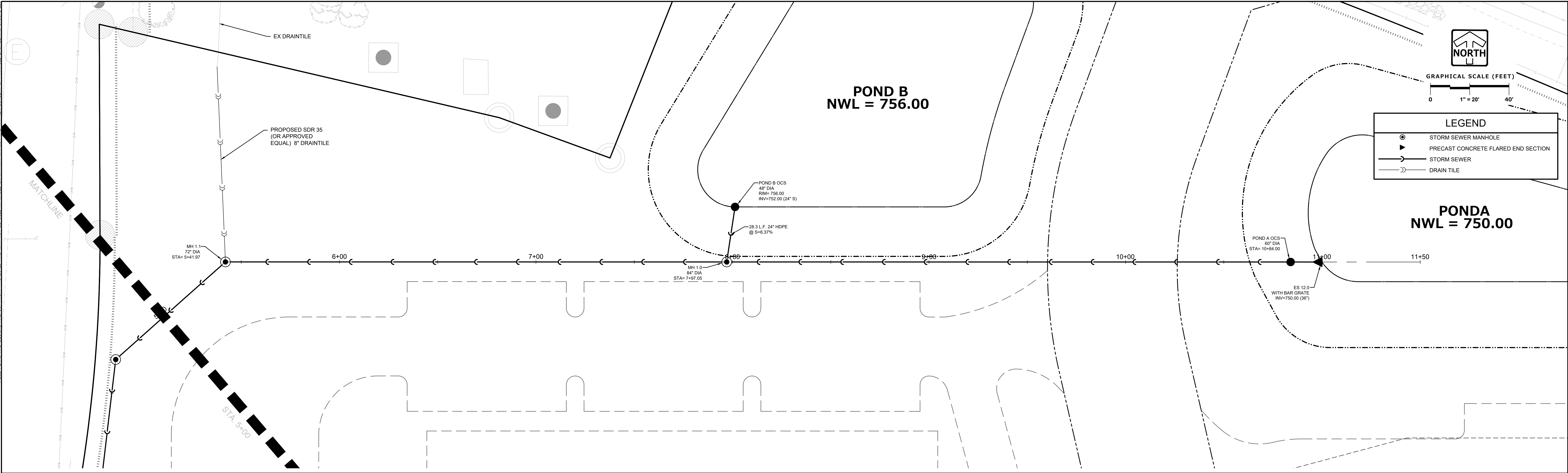
SCALE 1" = 20'

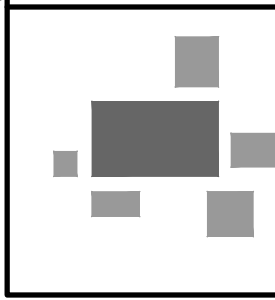
SHEET  
**C-7**  
of  
**C-19**





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## CALEDONIA CORPORATE PARK

### CALEDONIA, WI

### STORM SEWER PLAN & PROFILE

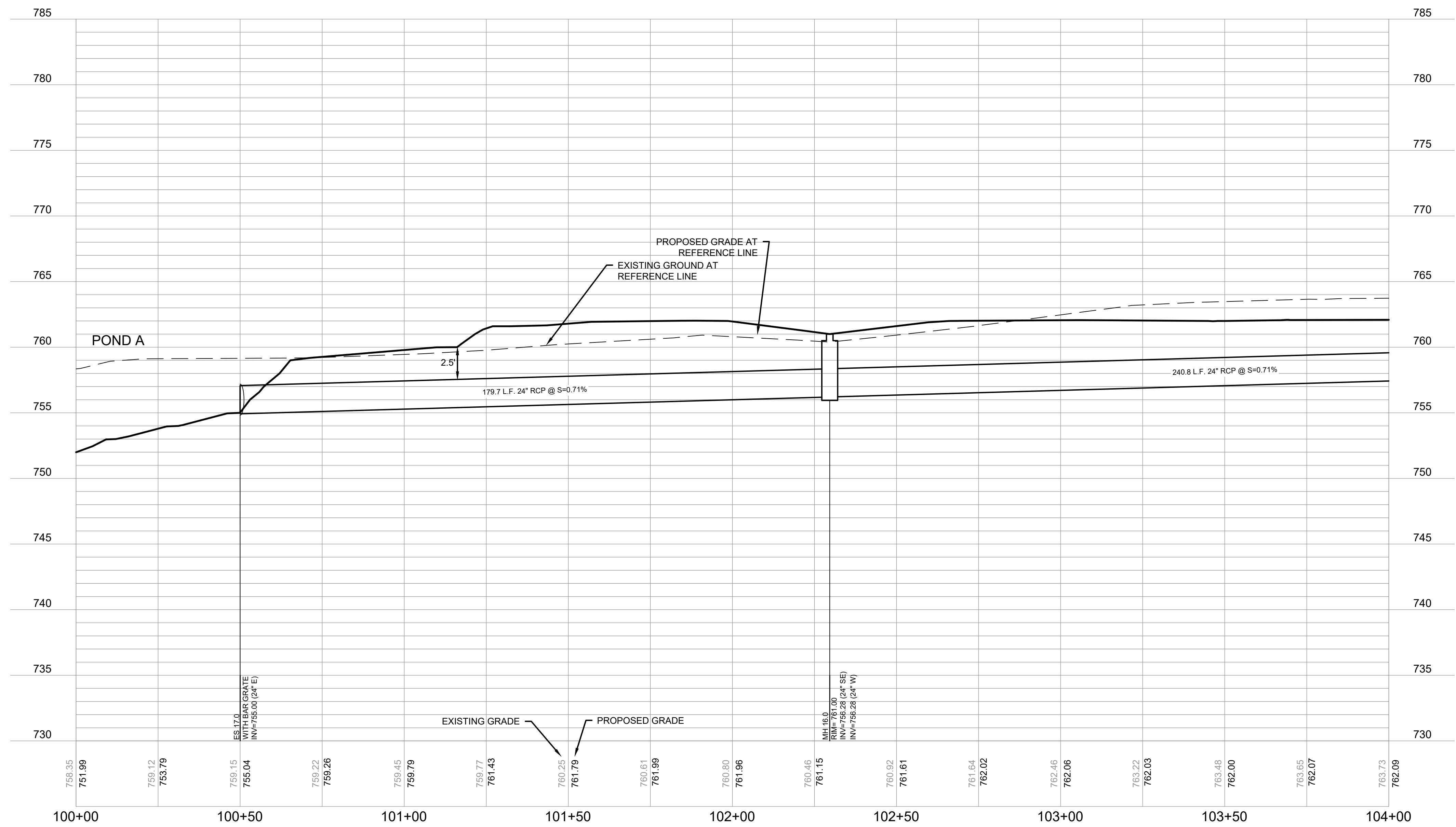
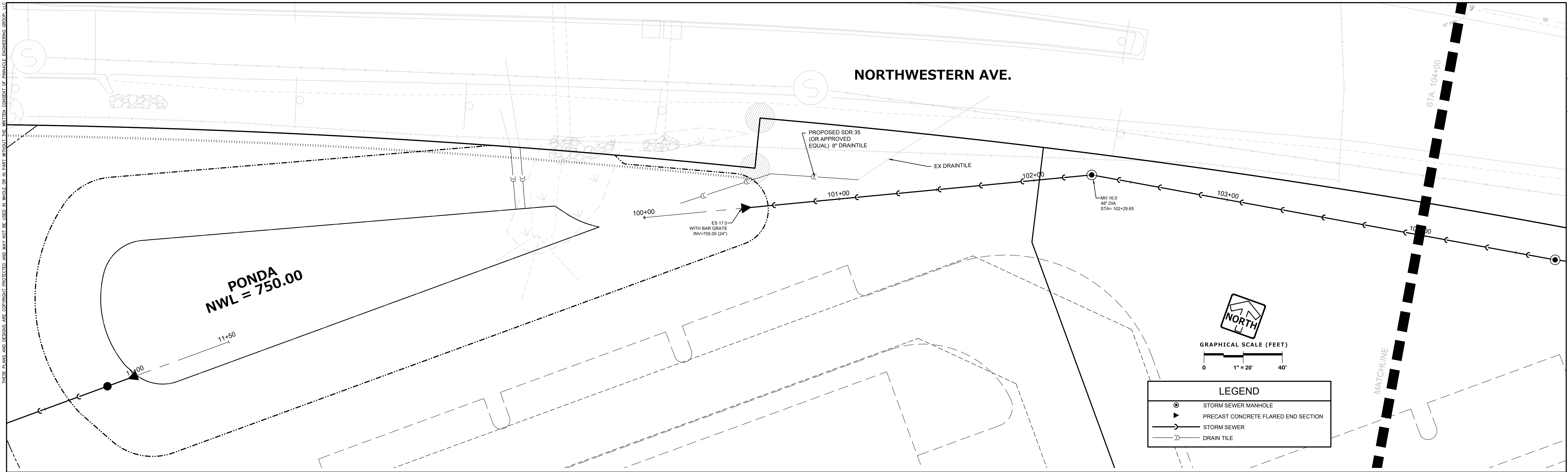
REVISIONS	
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2. PER VILLAGE COMMENTS	7-28-22
3. PER VILLAGE COMMENTS	8-1-22
4. PER VILLAGE COMMENTS	8-3-22

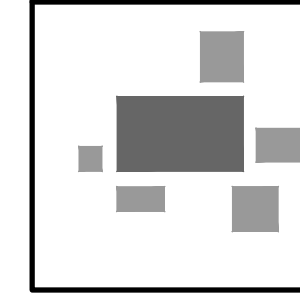
REG. NO. 1912.00, WI  
AREA  
START DATE 04/12/22  
SCALE 1" = 20'

SHEET  
C-9  
C-19

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REVIEWED: AS





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## CALEDONIA CORPORATE PARK

### CALEDONIA, WI

### STORM SEWER PLAN & PROFILE

REVISIONS		SHEET	
1	MUNICIPAL SUBMITTAL	6-09-22	C-10
2	PER VILLAGE COMMENTS	7-28-22	C-11
3	PER VILLAGE COMMENTS	8-1-22	C-12
4	PER VILLAGE COMMENTS	8-3-22	C-13

REG. NO. 1912.00, WI

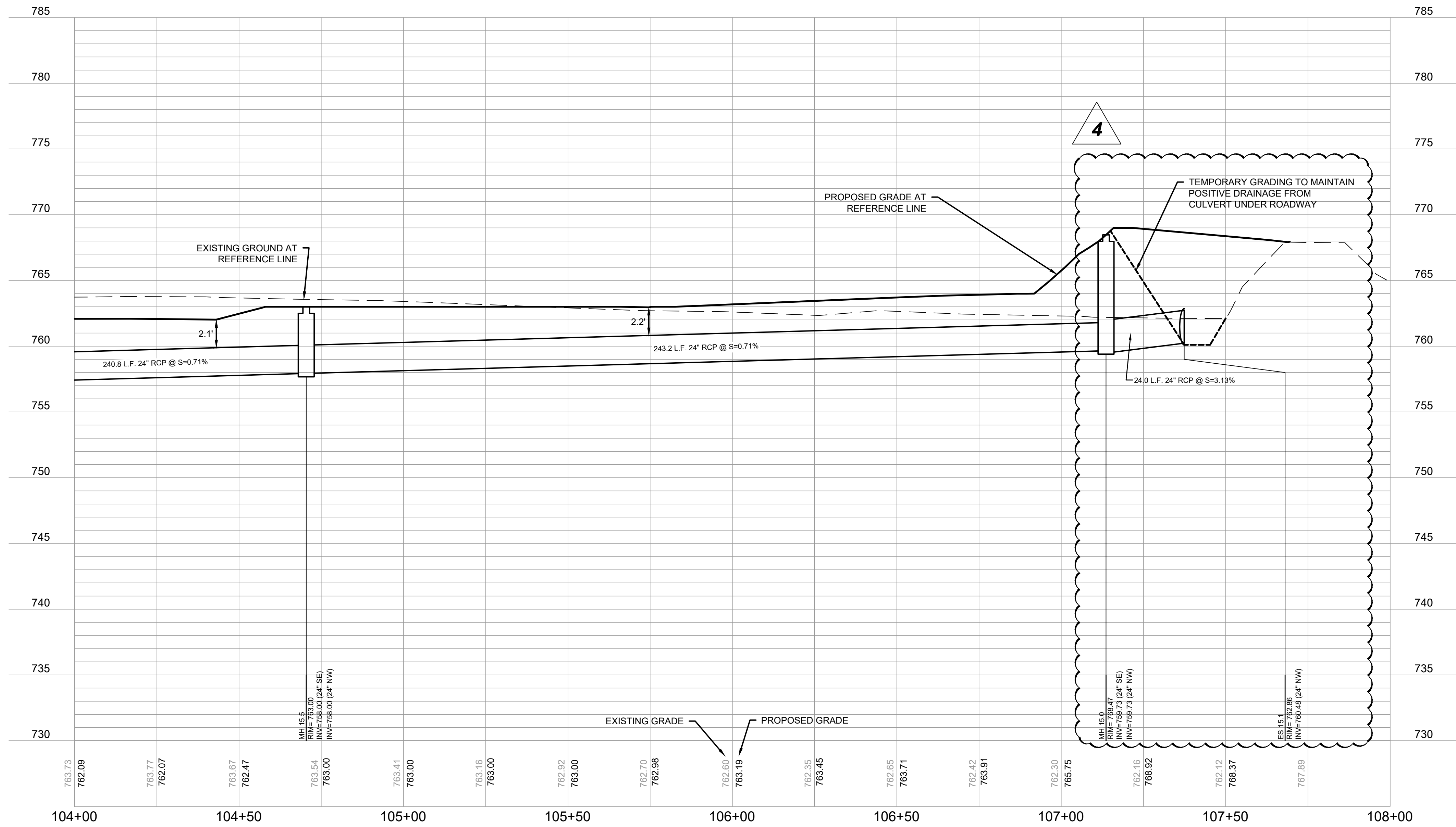
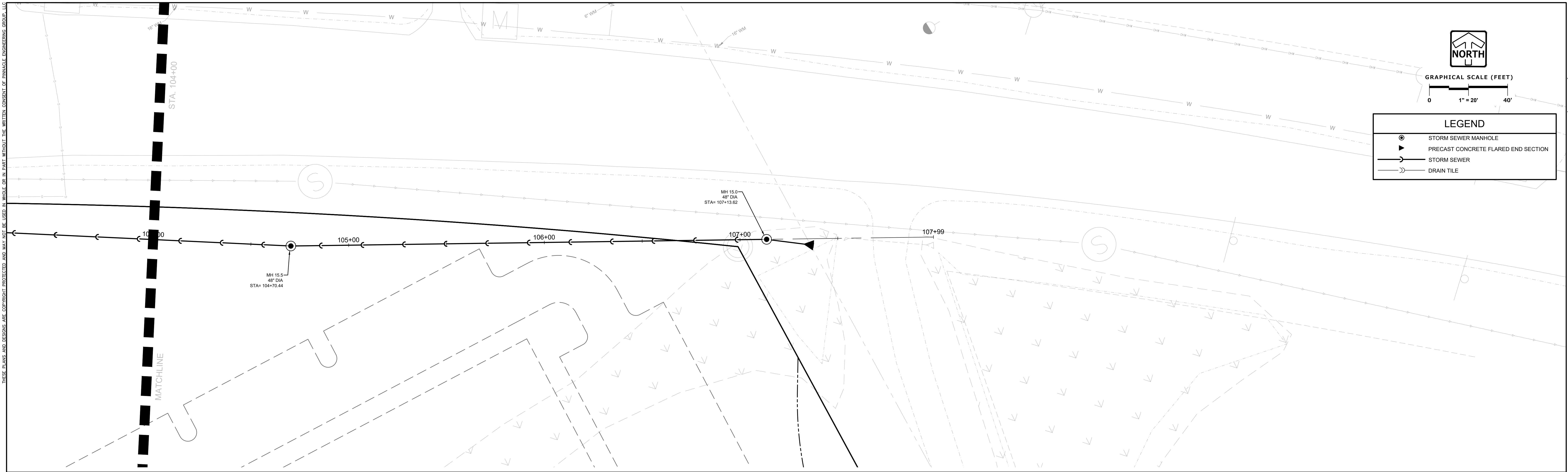
AREA

REG. NO.

START DATE 04/12/22

SCALE 1" = 20'

DESIGNED: KM  
DRAFTED: JAS  
REVIEWED: JAS  
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**CALEDONIA, WI**

**STORM SEWER PLAN & PROFILE**

REVISIONS		
1	MUNICIPAL SUBMITTAL	6-09-22
2	PER VILLAGE COMMENTS	7-28-22
3	PER VILLAGE COMMENTS	8-1-22
4	PER VILLAGE COMMENTS	8-3-22

REG. NO. 1912.00, WI	AREA
REG. NO.	SCALE 1" = 20'
START DATE 04/12/22	

SHEET	C-11
OF	19
SHEET	C-19

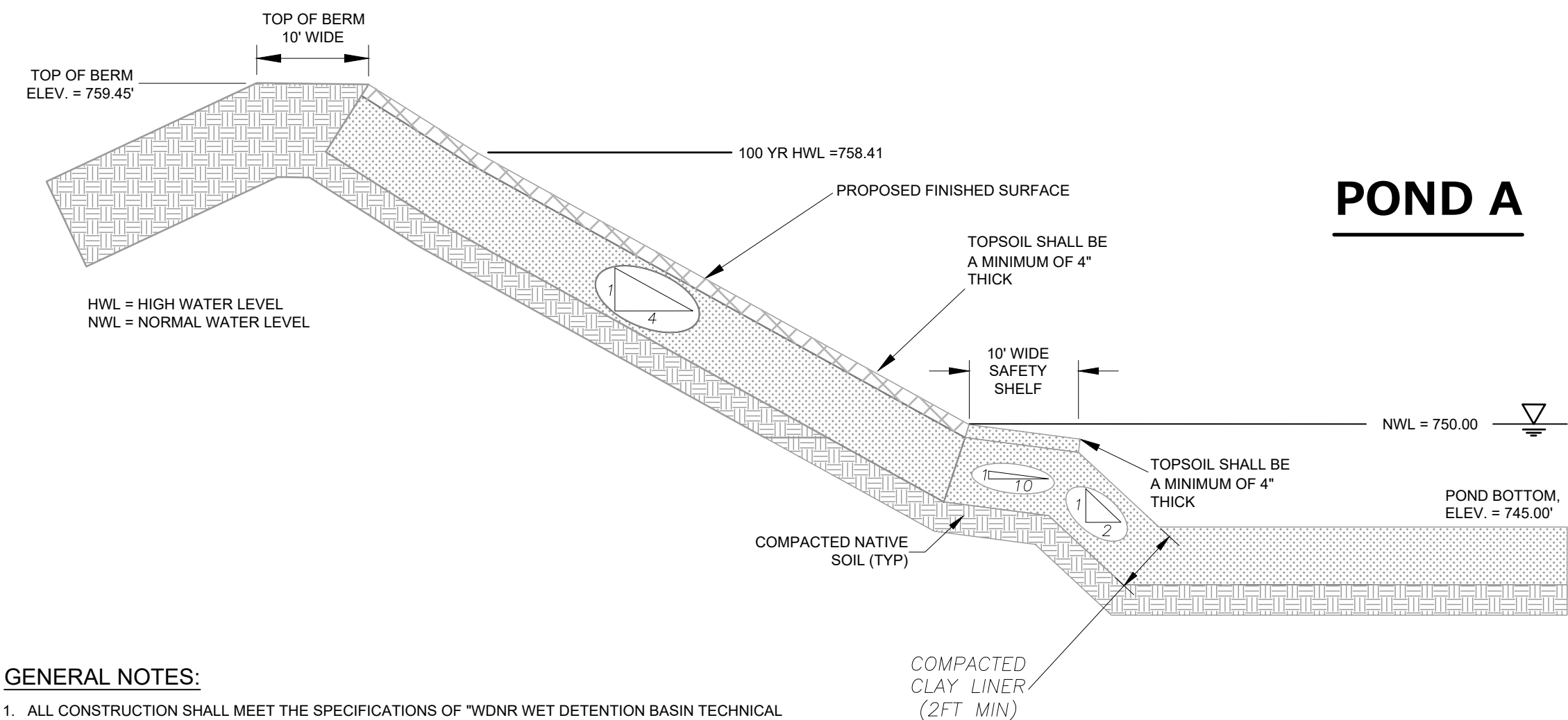


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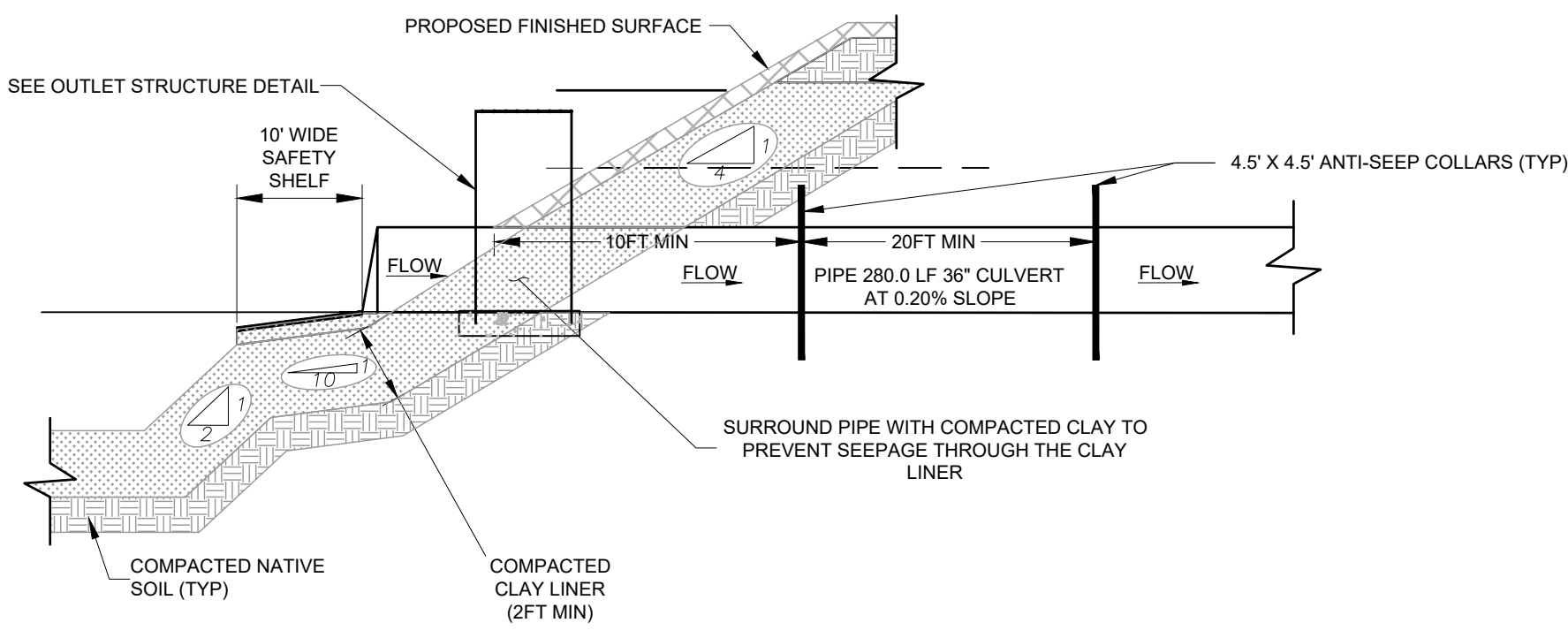
DRAFTED: KM

REVIEWED: JMS



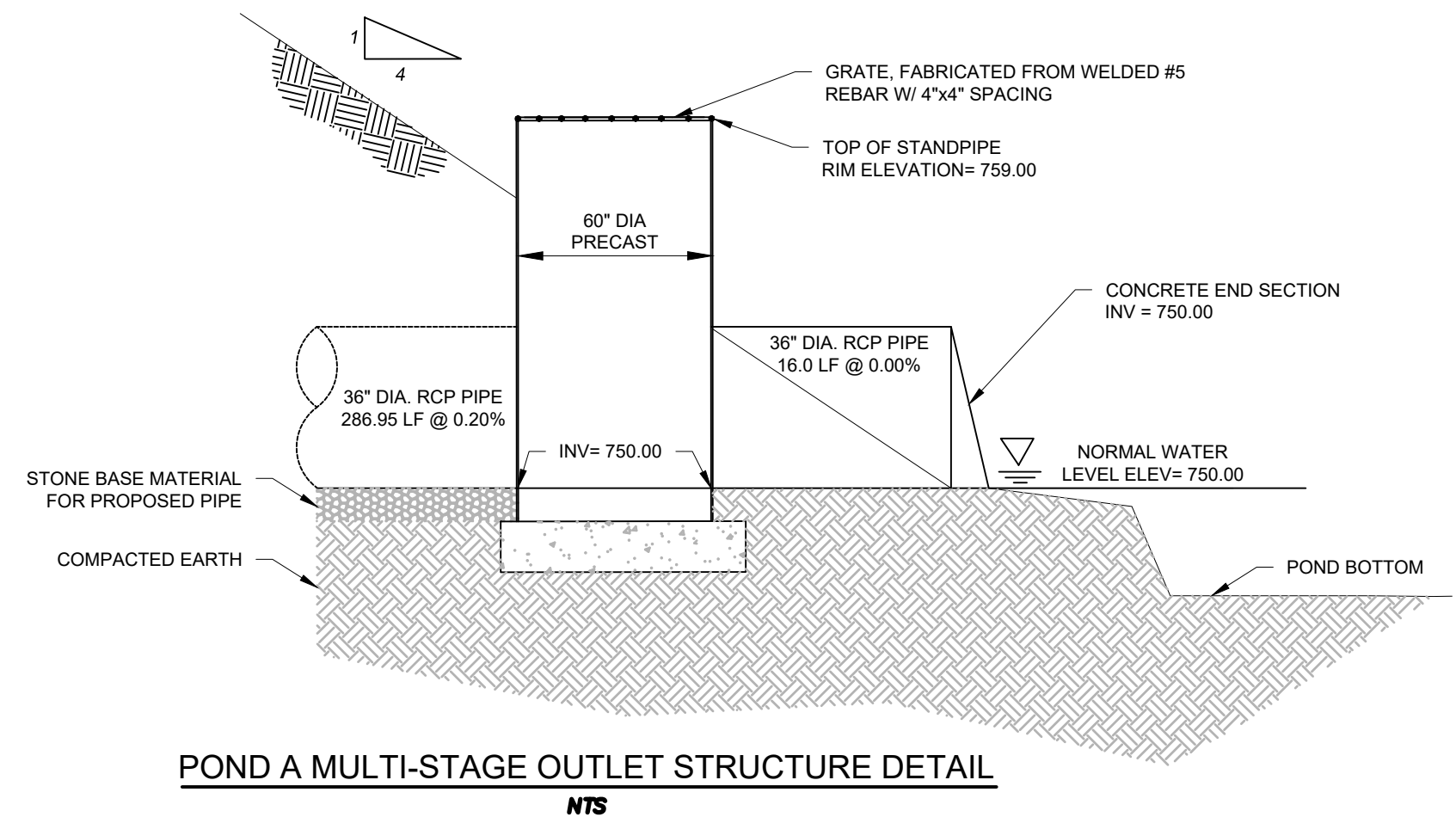
- GENERAL NOTES:**
1. ALL CONSTRUCTION SHALL MEET THE SPECIFICATIONS OF "WDNR WET DETENTION BASIN TECHNICAL STANDARD 1001".
  2. ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH THE STORM WATER MANAGEMENT PLAN FOR THE PROJECT SITE AS APPROVED BY THE REGULATORY ENGINEER OF RECORD.
  3. RCP PIPING & INSTALLATION WITHIN THE BASIN SHALL BE IN ACCORDANCE WITH (ASTM C-76/C443) WITH RUBBER GASKETS.
  4. OWNER OR CONTRACTOR MUST CONSULT LANDSCAPE ARCHITECT OR ECOLOGICAL PLANNING AGENCY FOR APPROPRIATE PLANTS AND PLANTING CONFIGURATIONS.
  5. CLAY LINER SHALL BE A MINIMUM OF 2-FEET THICK. CLAY SHALL BE COMPACTED AT 12.0% OPTIMAL MOISTURE CONTENT TO 90% MODIFIED PROCTOR. MEDIUM STIFF TO STIFF CLAYS PRESENT IN PLACE AT THE POND SIDE SLOPES OR OTHER ONSITE MEDIUM STIFF TO STIFF CLAYS MAY BE USED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER OF RECORD.
  6. FOR CONSTRUCTED EMBANKMENTS WHERE THE PERMANENT POOL IS PONDED 3-FEET OR MORE AGAINST THE EMBANKMENT, THERE SHALL BE A CORE TRENCH OR KEYWAY ALONG THE CENTERLINE OF THE EMBANKMENT UP TO THE PERMANENT POOL ELEVATION. THE CORE TRENCH OR KEYWAY SHALL BE A MINIMUM OF 2-FEET DEEP AND 8-FEET WIDE WITH A SIDE SLOPE OF 1:1 OR FLATTER.

POND A CROSS SECTION  
NTS

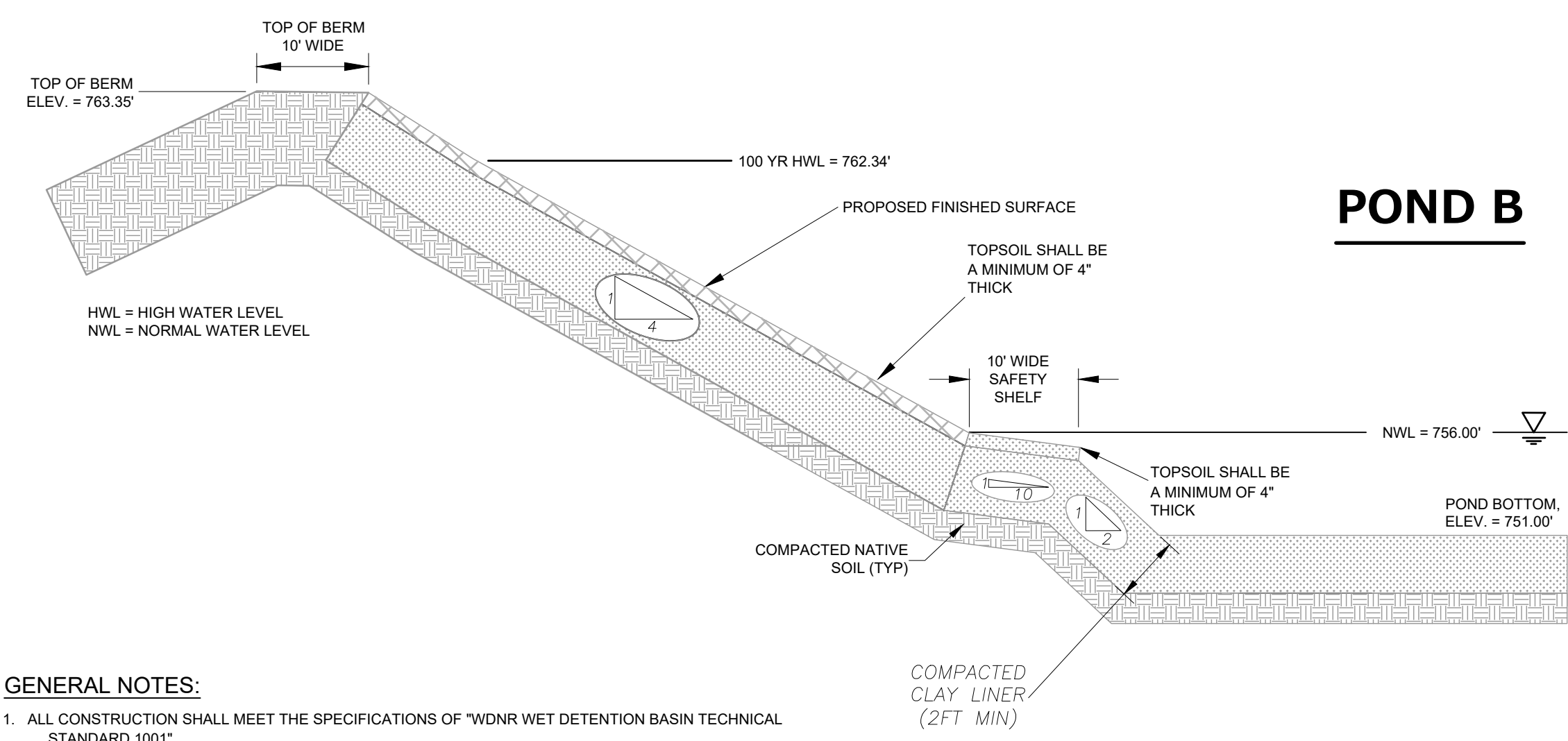


- NOTES:**
1. CONTRACTOR SHALL POSITION ANTI-SEEP COLLAR SUCH THAT THE COLLARS ARE COMPLETELY CONTAINED WITHIN EMBANKMENT.
  2. INSTALL FILTER FABRIC OVER CONSTRUCTION ORIFICE TO PREVENT SEDIMENT DEPOSITION IN THE POND OUTLET PIPE.

POND A OUTLET PIPE  
NTS

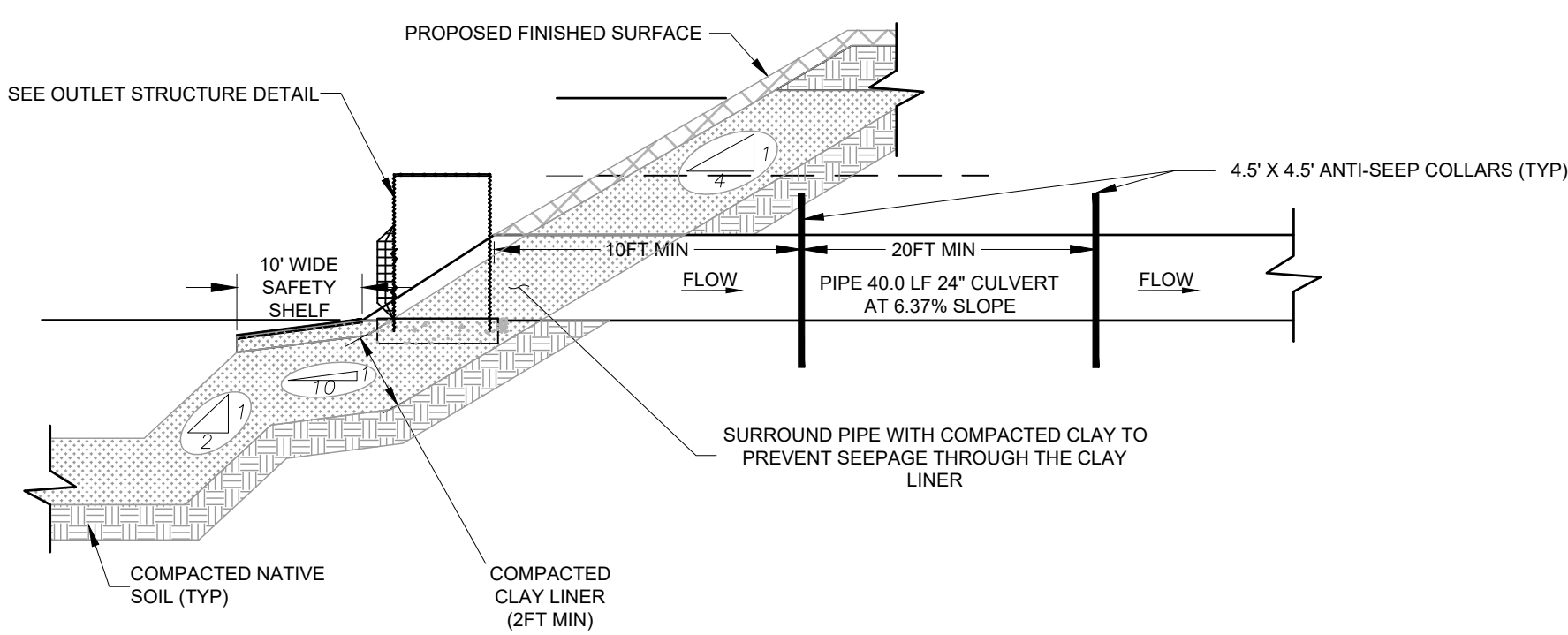


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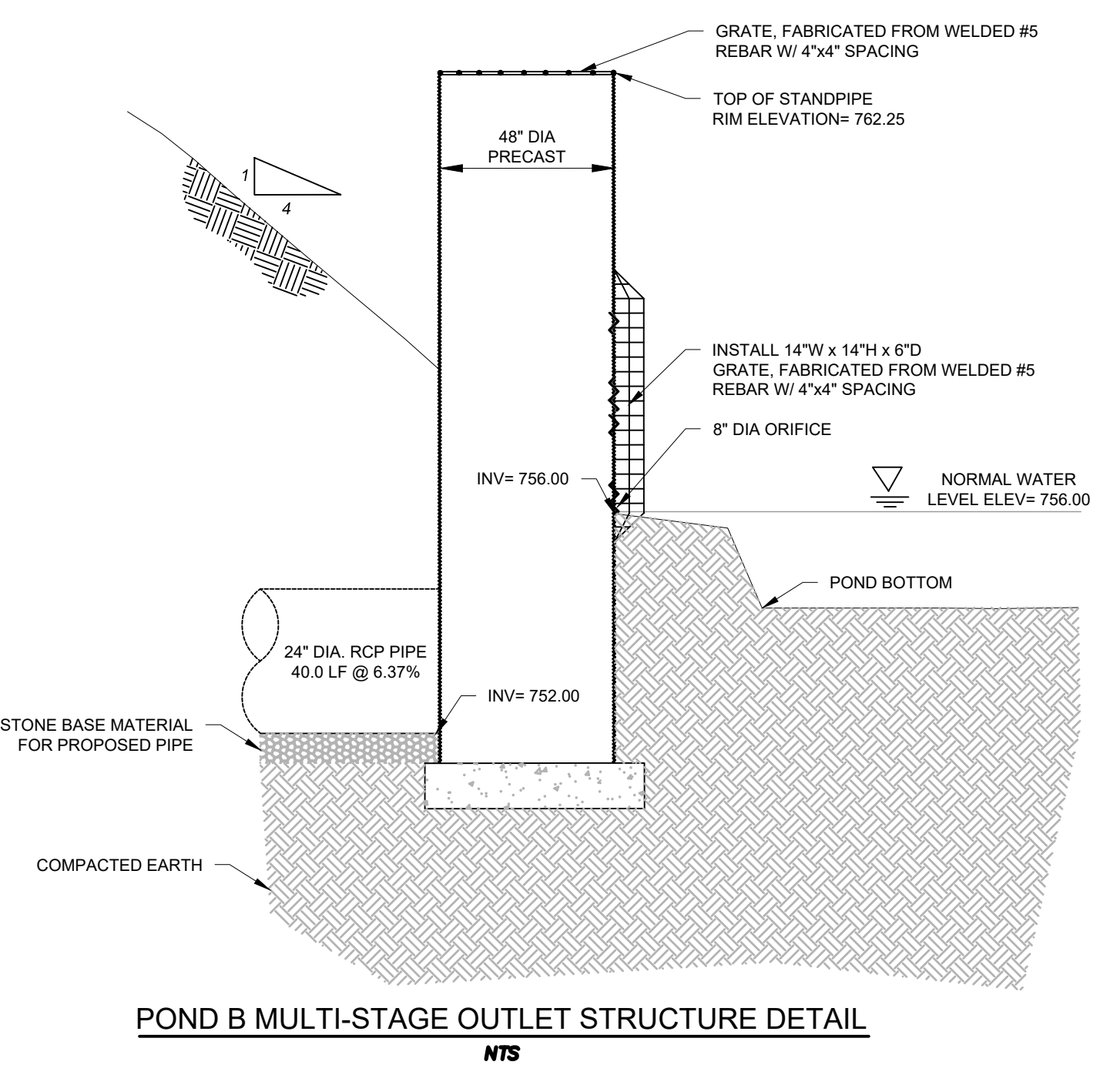
- GENERAL NOTES:**
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  2. ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH THE STORM WATER MANAGEMENT PLAN FOR THE PROJECT SITE AS APPROVED BY THE REGULATORY ENGINEER OF RECORD.
  3. RCP PIPING & INSTALLATION WITHIN THE BASIN SHALL BE IN ACCORDANCE WITH (ASTM C-76/C443) WITH RUBBER GASKETS.
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  6. FOR CONSTRUCTED EMBANKMENTS WHERE THE PERMANENT POOL IS PONDED 3-FEET OR MORE AGAINST THE EMBANKMENT, THERE SHALL BE A CORE TRENCH OR KEYWAY ALONG THE CENTERLINE OF THE EMBANKMENT UP TO THE PERMANENT POOL ELEVATION. THE CORE TRENCH OR KEYWAY SHALL BE A MINIMUM OF 2-FEET DEEP AND 8-FEET WIDE WITH A SIDE SLOPE OF 1:1 OR FLATTER.

POND B CROSS SECTION  
NTS



- NOTES:**
1. CONTRACTOR SHALL POSITION ANTI-SEEP COLLAR SUCH THAT THE COLLARS ARE COMPLETELY CONTAINED WITHIN EMBANKMENT.
  2. INSTALL FILTER FABRIC OVER CONSTRUCTION ORIFICE TO PREVENT SEDIMENT DEPOSITION IN THE POND OUTLET PIPE.

POND B OUTLET PIPE  
NTS



POND B MULTI-STAGE OUTLET STRUCTURE DETAIL  
NTS



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**CALEDONIA, WI**

**CONSTRUCTION DETAILS**

REVISIONS	
1. MUNICIPAL SUBMITTAL	6-09-22
2. PER VILLAGE COMMENTS	7-28-22
3. PER VILLAGE COMMENTS	8-1-22
4. PER VILLAGE COMMENTS	8-3-22

REG. NO. 1912.00 WT  
AREA  
START DATE 04/12/22  
SCALE N.T.S.

SHEET  
**C-18**  
of  
**C-19**

CONSTRUCTION DETAILS

CONSTRUCTION SET

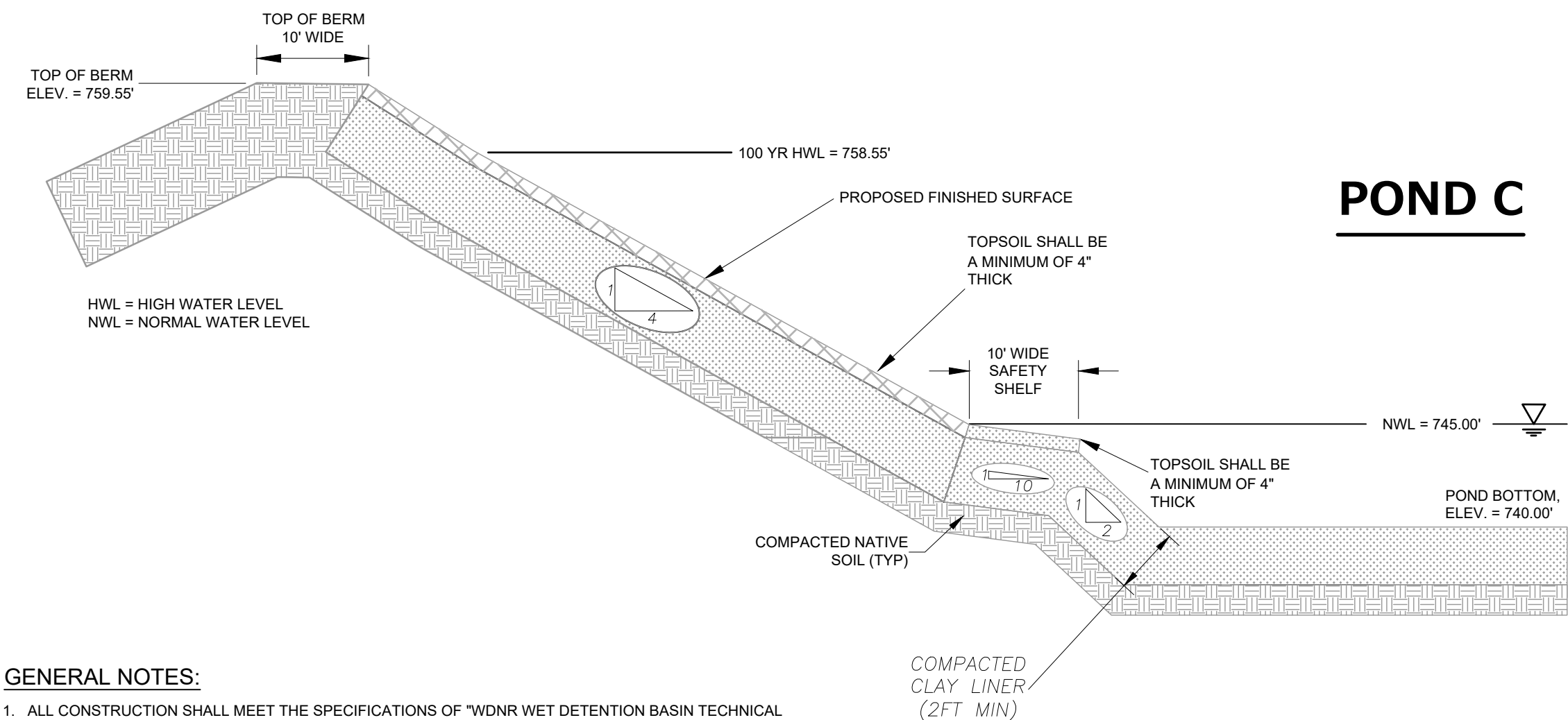
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DESIGNED: KM

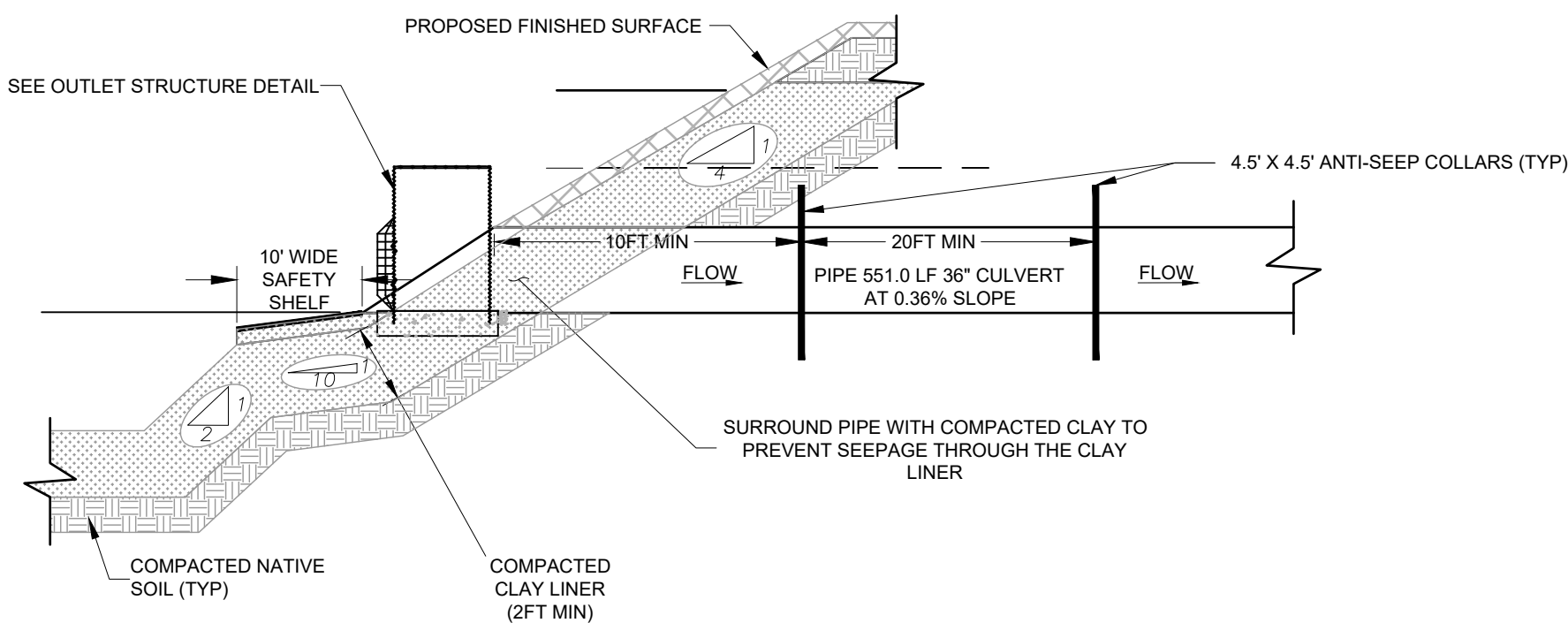
DRAFTED: AS

REVIEWED: AS



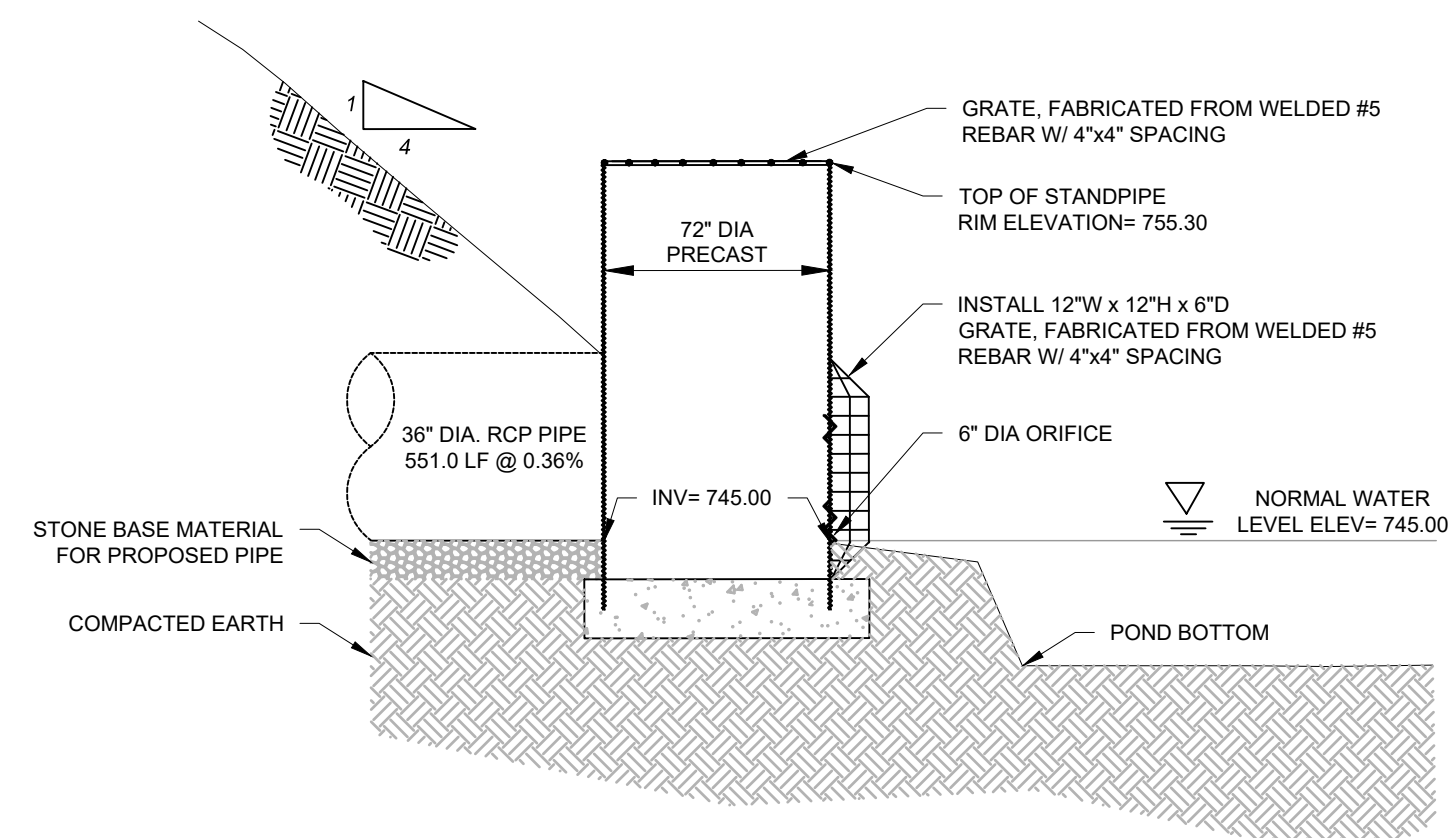
- GENERAL NOTES:**
1. ALL CONSTRUCTION SHALL MEET THE SPECIFICATIONS OF "WDNR WET DETENTION BASIN TECHNICAL STANDARD 1001".
  2. ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH THE STORM WATER MANAGEMENT PLAN FOR THE PROJECT SITE AS APPROVED BY THE REGULATORY ENGINEER OF RECORD.
  3. RCP PIPING & INSTALLATION WITHIN THE BASIN SHALL BE IN ACCORDANCE WITH (ASTM C-76/C443) WITH RUBBER GASKETS.
  4. OWNER OR CONTRACTOR MUST CONSULT LANDSCAPE ARCHITECT OR ECOLOGICAL PLANNING AGENCY FOR APPROPRIATE PLANTS AND PLANTING CONFIGURATIONS.
  5. CLAY LINER SHALL BE A MINIMUM OF 2 FEET THICK. CLAY SHALL BE COMPACTED AT 12.0% OPTIMAL MOISTURE CONTENT TO 90% MODIFIED PROCTOR. MEDIUM STIFF TO STIFF CLAYS PRESENT IN PLACE AT THE POND SIDE SLOPES OR OTHER ON-SITE MEDIUM STIFF TO STIFF CLAYS MAY BE USED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER OF RECORD.
  6. FOR CONSTRUCTED EMBANKMENTS WHERE THE PERMANENT POOL IS PONDED 3 FEET OR MORE AGAINST THE EMBANKMENT, THERE SHALL BE A CORE TRENCH OR KEYWAY ALONG THE CENTERLINE OF THE EMBANKMENT UP TO THE PERMANENT POOL ELEVATION. THE CORE TRENCH OR KEYWAY SHALL BE A MINIMUM OF 2 FEET DEEP AND 8 FEET WIDE WITH A SIDE SLOPE OF 1:1 OR FLATTER.

POND C CROSS SECTION  
NTS

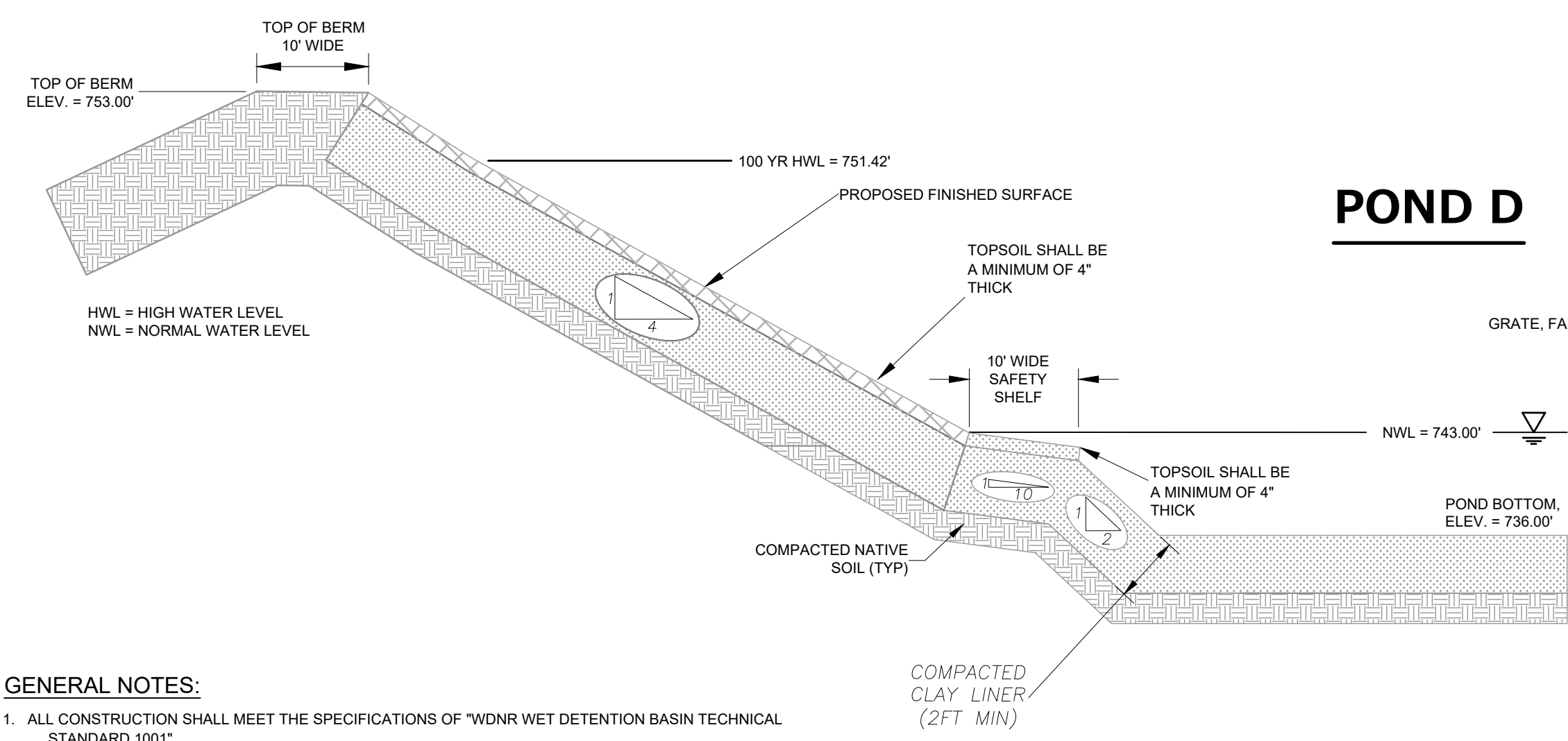


- NOTES:**
1. CONTRACTOR SHALL POSITION ANTI-SEEP COLLAR SUCH THAT THE COLLARS ARE COMPLETELY CONTAINED WITHIN EMBANKMENT.
  2. INSTALL FILTER FABRIC OVER CONSTRUCTION ORIFICE TO PREVENT SEDIMENT DEPOSITION IN THE POND OUTLET PIPE.

POND C OUTLET PIPE  
NTS

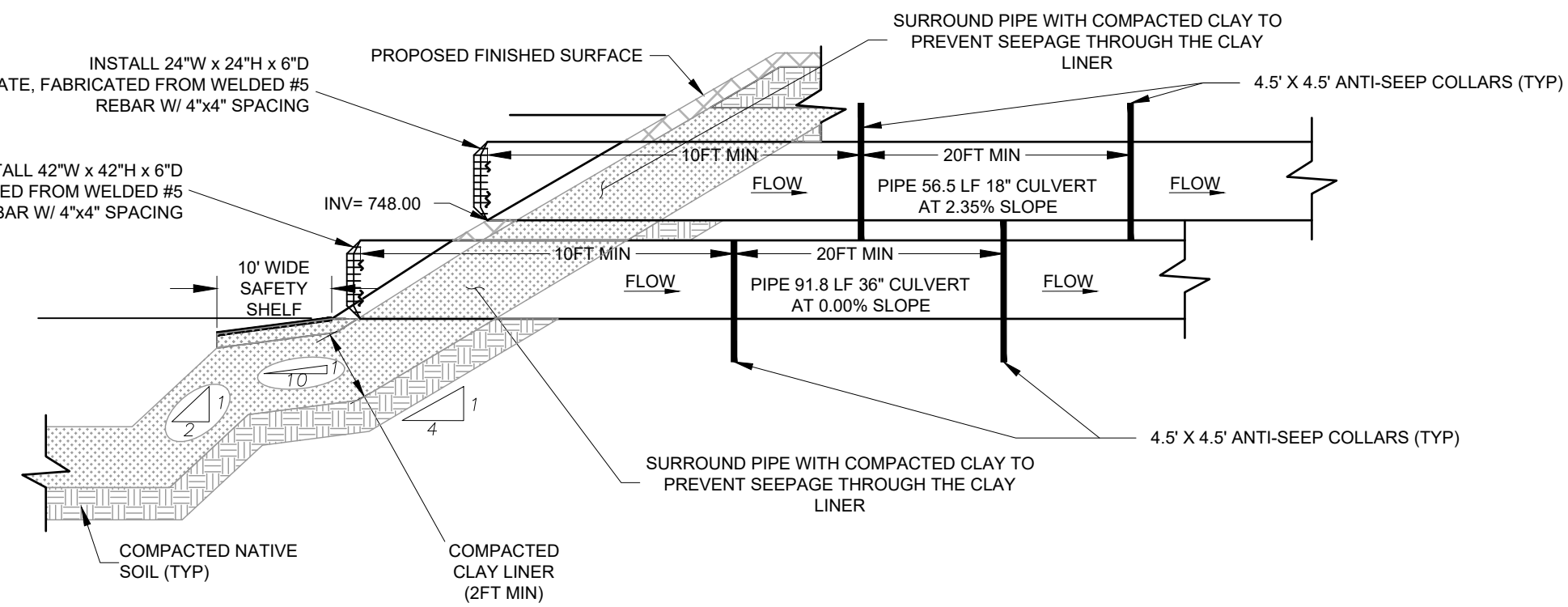


POND C MULTI-STAGE OUTLET STRUCTURE DETAIL  
NTS



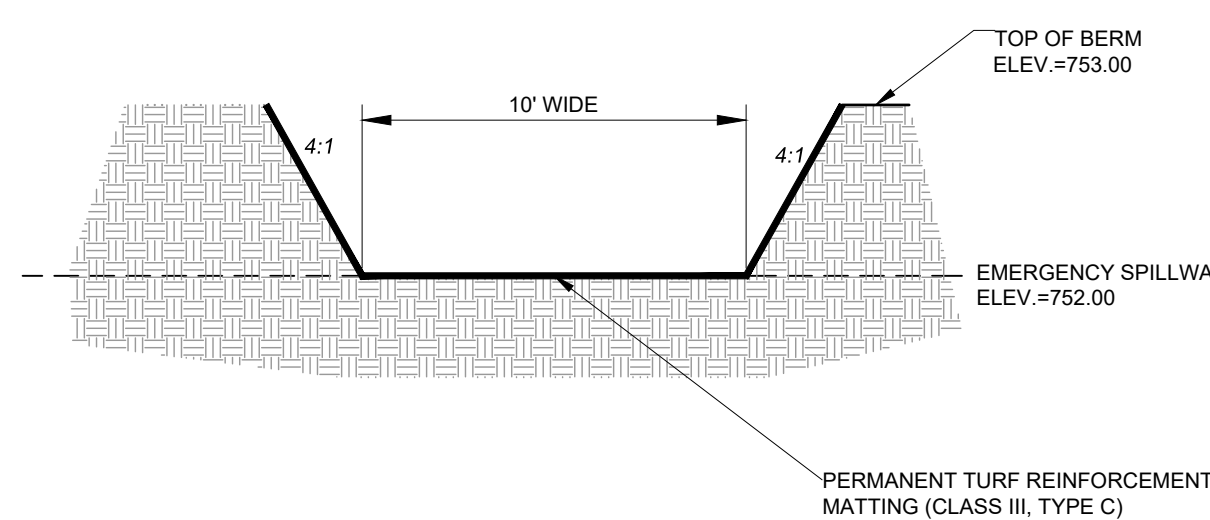
- GENERAL NOTES:**
1. ALL CONSTRUCTION SHALL MEET THE SPECIFICATIONS OF "WDNR WET DETENTION BASIN TECHNICAL STANDARD 1001".
  2. ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH THE STORM WATER MANAGEMENT PLAN FOR THE PROJECT SITE AS APPROVED BY THE REGULATORY ENGINEER OF RECORD.
  3. RCP PIPING & INSTALLATION WITHIN THE BASIN SHALL BE IN ACCORDANCE WITH (ASTM C-76/C443) WITH RUBBER GASKETS.
  4. OWNER OR CONTRACTOR MUST CONSULT LANDSCAPE ARCHITECT OR ECOLOGICAL PLANNING AGENCY FOR APPROPRIATE PLANTS AND PLANTING CONFIGURATIONS.
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  6. FOR CONSTRUCTED EMBANKMENTS WHERE THE PERMANENT POOL IS PONDED 3 FEET OR MORE AGAINST THE EMBANKMENT, THERE SHALL BE A CORE TRENCH OR KEYWAY ALONG THE CENTERLINE OF THE EMBANKMENT UP TO THE PERMANENT POOL ELEVATION. THE CORE TRENCH OR KEYWAY SHALL BE A MINIMUM OF 2 FEET DEEP AND 8 FEET WIDE WITH A SIDE SLOPE OF 1:1 OR FLATTER.

POND D CROSS SECTION  
NTS



- NOTES:**
1. CONTRACTOR SHALL POSITION ANTI-SEEP COLLAR SUCH THAT THE COLLARS ARE COMPLETELY CONTAINED WITHIN EMBANKMENT.
  2. INSTALL FILTER FABRIC OVER CONSTRUCTION ORIFICE TO PREVENT SEDIMENT DEPOSITION IN THE POND OUTLET PIPE.

POND D OUTLET PIPE  
NTS



- NOTES:**
1. EXTEND MATTING 2' BELOW THE ELEVATION OF THE EMERGENCY SPILLWAY ON THE INSIDE OF THE POND.
  2. EXTEND MATTING TO TOE OF SLOPE ON THE OUTSIDE OF THE POND.
  3. MATTING SHALL BE INSTALLED IN ACCORDANCE WITH WDNR TECH STANDARD 1052.

POND D BROAD CRESTED WEIR  
NTS



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**CALEDONIA CORPORATE PARK**

**CALEDONIA, WI**

**CONSTRUCTION DETAILS**

REVISIONS		
1	MUNICIPAL SUBMITTAL	6-09-22
2	PER VILLAGE COMMENTS	7-28-22
3	PER VILLAGE COMMENTS	8-1-22
4	PER VILLAGE COMMENTS	8-3-22

REG. NO. 1912.00, WI  
AREA  
START DATE 04/12/22  
SCALE N.T.S.

SHEET  
**C-19**  
of  
**C-19**

CONSTRUCTION DETAILS

CONSTRUCTION SET

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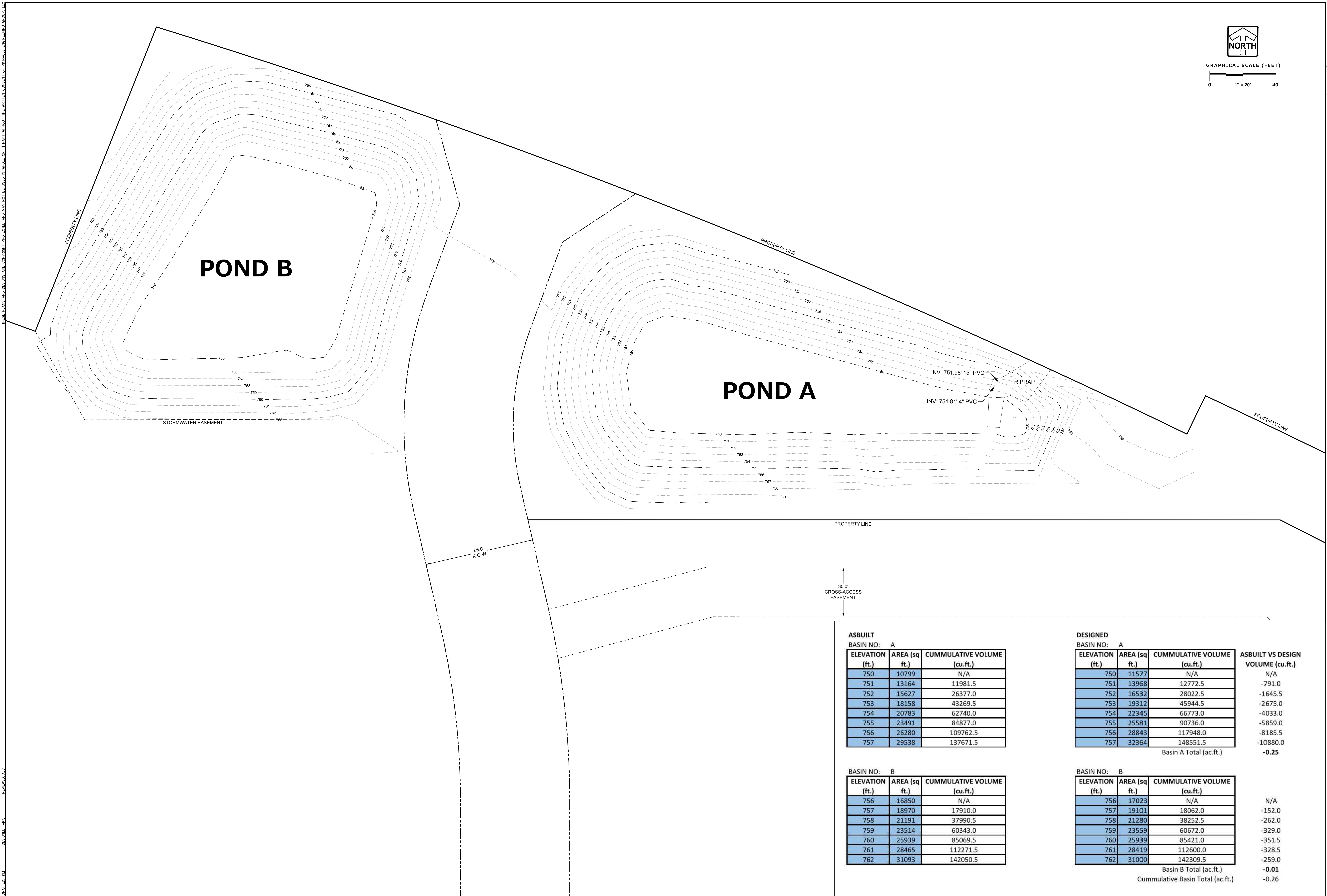


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DESIGNED: JAS

REVIEWED: JAS

DRAWN: KM



ASBUILT		
BASIN NO: A		
ELEVATION (ft.)	AREA (sq ft.)	CUMMULATIVE VOLUME (cu.ft.)
750	10799	N/A
751	13164	11981.5
752	15627	26377.0
753	18158	43269.5
754	20783	62740.0
755	23491	84877.0
756	26280	109762.5
757	29538	137671.5

BASIN NO: B		
ELEVATION (ft.)	AREA (sq ft.)	CUMMULATIVE VOLUME (cu.ft.)
756	16850	N/A
757	18970	17910.0
758	21191	37990.5
759	23514	60343.0
760	25939	85069.5
761	28465	112271.5
762	31093	142050.5

DESIGNED		
BASIN NO: A		
ELEVATION (ft.)	AREA (sq ft.)	CUMMULATIVE VOLUME (cu.ft.)
750	11577	N/A
751	13968	12772.5
752	16532	28022.5
753	19312	45944.5
754	22345	66773.0
755	25581	90736.0
756	28843	117948.0
757	32364	148551.5

ASBUILT VS DESIGN VOLUME (cu.ft.)	
N/A	N/A
-791.0	
-1645.5	
-2675.0	
-4033.0	
-5859.0	
-8185.5	
-10880.0	
-0.25	

BASIN NO: B		
ELEVATION (ft.)	AREA (sq ft.)	CUMMULATIVE VOLUME (cu.ft.)
756	17023	N/A
757	19101	18062.0
758	21280	38252.5
759	23559	60672.0
760	25939	85421.0
761	28419	112600.0
762	31000	142309.5

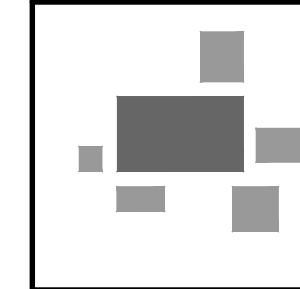
N/A	
-152.0	
-262.0	
-329.0	
-351.5	
-328.5	
-259.0	
-0.01	
-0.26	

REVISIONS

1	MUNICIPAL SUBMITTAL	6-09-22	
2	PER VILLAGE COMMENTS	7-28-22	
3	PER VILLAGE COMMENTS	8-1-22	
4	PER VILLAGE COMMENTS	8-3-22	

REG. JOB NO. 1912.00-WI	AREA
REG. PM.	
START DATE 04/12/22	
SCALE 1" = 20'	

SHEET	
EX-1	
of	
EX-1	



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CALEDONIA CORPORATE PARK

CALEDONIA, WI

BASIN RECORD DRAWING EXHIBIT

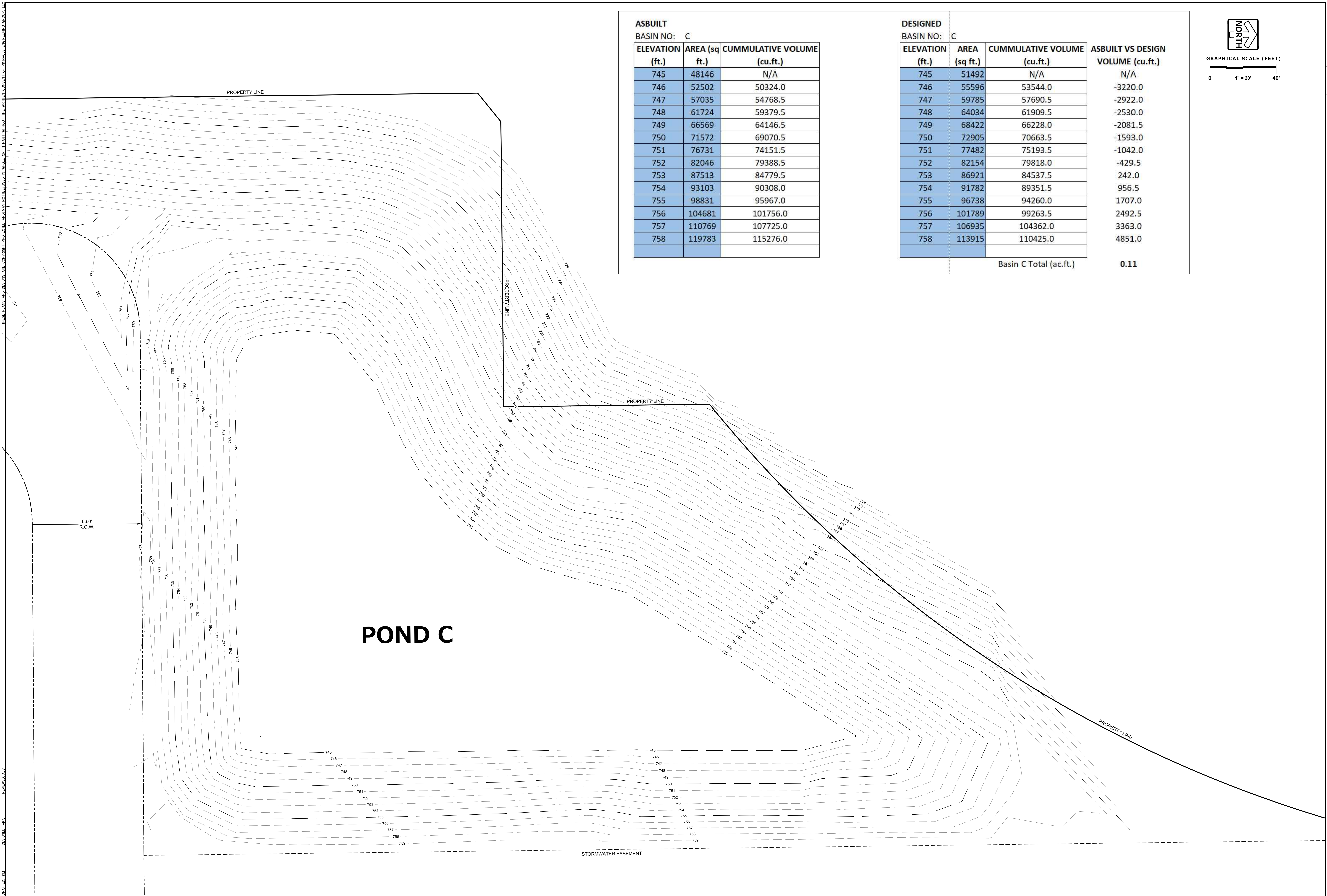


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DESIGNED: KM

DRAFTED: KM

REVIEWED: AS



ASBUILT

BASIN NO: C

ELEVATION (ft.)	AREA (sq ft.)	CUMMULATIVE VOLUME (cu.ft.)
745	48146	N/A
746	52502	50324.0
747	57035	54768.5
748	61724	59379.5
749	66569	64146.5
750	71572	69070.5
751	76731	74151.5
752	82046	79388.5
753	87513	84779.5
754	93103	90308.0
755	98831	95967.0
756	104681	101756.0
757	110769	107725.0
758	119783	115276.0

DESIGNED

BASIN NO: C

ELEVATION (ft.)	AREA (sq ft.)	CUMMULATIVE VOLUME (cu.ft.)
745	51492	N/A
746	55596	53544.0
747	59785	57690.5
748	64034	61909.5
749	68422	66228.0
750	72905	70663.5
751	77482	75193.5
752	82154	79818.0
753	86921	84537.5
754	91782	89351.5
755	96738	94260.0
756	101789	99263.5
757	106935	104362.0
758	113915	110425.0

ASBUILT VS DESIGN  
VOLUME (cu.ft.)


N/A  
-3220.0  
-2922.0  
-2530.0  
-2081.5  
-1593.0  
-1042.0  
-429.5  
242.0  
956.5  
1707.0  
2492.5  
3363.0  
4851.0

Basin C Total (ac.ft.)

0.11



GRAPHICAL SCALE (FEET)  
0 1" = 20' 40'



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**CALEDONIA CORPORATE PARK**

**CALEDONIA, WI**

**BASIN RECORD DRAWING EXHIBIT**

REVISIONS

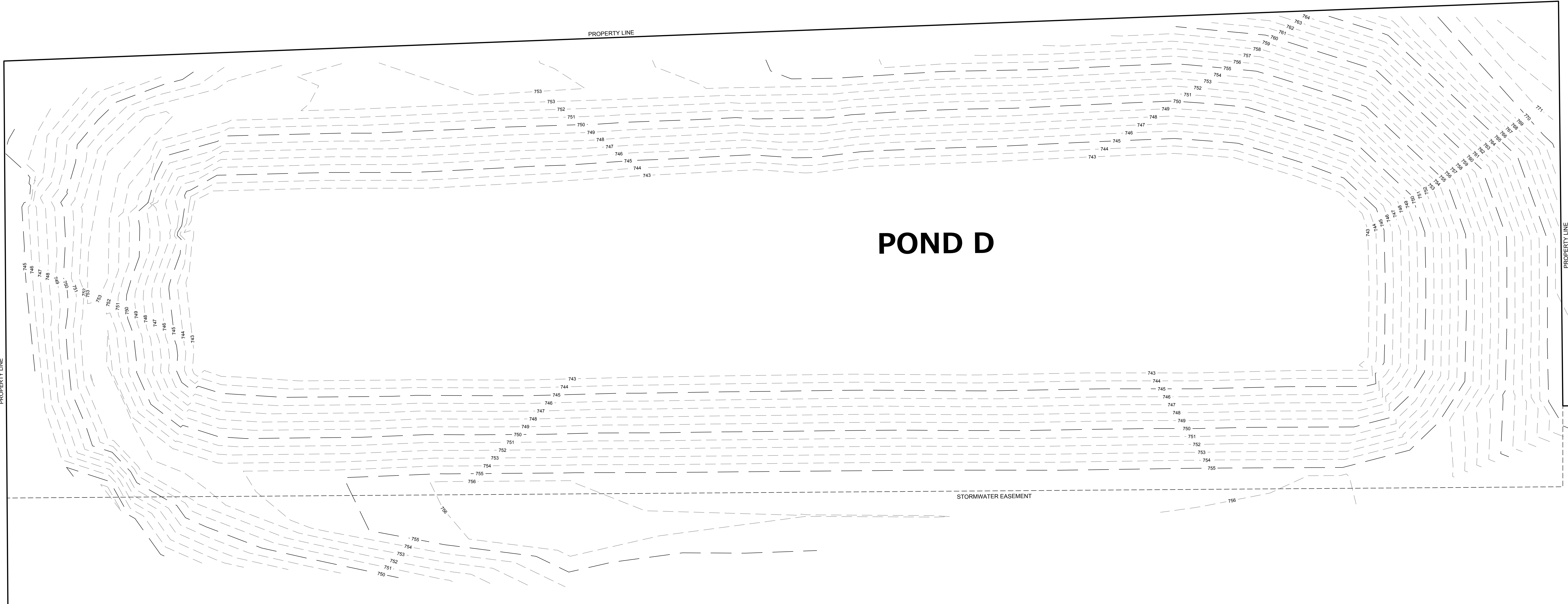

REG JOB NO. 1912.00-WI  
REG PM  
START DATE 04/12/22  
SCALE 1" = 20'

SHEET  
**EX-1**  
of  
**EX-1**



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DESIGNED: KM  
DRAFTED: AS  
REVIEWED: AS



ASBUILT

BASIN NO: D

ELEVATION (ft.)	AREA (sq ft.)	CUMMULATIVE VOLUME (cu.ft.)
743	55965	N/A
744	60959	58462.0
745	66003	121943.0
746	70155	190022.0
747	76423	263311.0
748	81806	342425.5
749	87252	426954.5
750	92780	516970.5
751	98410	612565.5

DESIGNED

BASIN NO: D

ELEVATION (ft.)	AREA (sq ft.)	CUMMULATIVE VOLUME (cu.ft.)
743	52978	N/A
744	58188	55583.0
745	63499	116426.5
746	68910	182631.0
747	74422	254297.0
748	80035	331525.5
749	85748	414417.0
750	91561	503071.5
751	97475	597589.5

ASBUILT VS DESIGN  
VOLUME (cu.ft.)

N/A  
2879.0  
5516.5  
7391.0  
9014.0  
10900.0  
12537.5  
13899.0  
14976.0

Basin D Total (ac.ft.)

0.34

REVISIONS
