



VILLAGE OF CALEDONIA UTILITY DISTRICT MEETING AGENDA

Wednesday, November 1, 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 – October 9, 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. Hoods Creek Attenuation Basin Expansion
 - f. Central Lift Station Safety Site & Attenuation Basin
 - g. Washington Meadows Watermain Project
 - h. TID #4 Elevated Storage Tank & Adams Road Watermain
 - i. Hoods Creek – Aldebaran Brushing Project
 - j. Douglas Avenue OMG Ditch Project
 - k. Turtle Creek Restoration
 - l. Westview Village Storm Improvements
8. **Action Items**
 - a. Briarwood Condo Plat
 - b. Storm Sewer Reroute & Watermain Extension Plan – Conditional Approval – Central Storage & Warehouse LLC
 - c. Storm Water Management Plan & Storm Water Pond Plan – Conditional Approval – Gifford School Parking Lot
 - 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
 - e. Westview Village Storm Water Improvements Change Order #1
 - f. Westview Village Storm Water Improvements Change Order #2
 - g. Westview Village Storm Water Improvements Final Acceptance
 - h. Washington Meadows Change Order #2
 - i. Washington Meadows Final Acceptance
 - j. Hoods Creek Attenuation Basin Expansion Final Acceptance
9. **Adjournment**

**Village of Caledonia Utility District Meeting
October 9, 2023**

1. Meeting Called to Order – The Regular Meeting of the Village of Caledonia Utility District was held on Monday, October 9, 2023. The meeting was called to order by President Howard Stacey at 5:30 pm.

2. Roll Call – Those present were President Howard Stacey, Commissioners Robert Kaplan, John Strack and Trustee Lee Wishau. Commissioner Dave Ruffalo was absent. Also, present was Public Services Director Anthony Bunkelman.

3. Approval of Minutes

a. Upon a motion by Commissioner Kaplan and seconded by Trustee Wishau, the Commission approved the minutes from the Utility District's previous regular meeting held September 6, 2023. **Motion carried.**

4. Citizens Comments

5. Approval of O&M Bills

a. Trustee Wishau moved to approve the Sewer Utility Invoices in the amount of \$223,738.79 from the September 28 & October 4 invoice lists. Seconded by Commissioner Kaplan. **Motion carried.**

b. Commissioner Kaplan moved to approve the Water Utility Invoices in the amount of \$241,768.51 from the September 28 & October 4 invoice lists. Seconded by Trustee Wishau. **Motion carried.**

c. Trustee Wishau moved to approve the Storm Water Utility Invoices in the amount of \$17,239.52 from the September 28 & October 4 invoice lists. Seconded by Commissioner Strack. **Motion carried.**

6. Action Items

a. Authorization of Signatures – Municipal Watermain & Storm Sewer Easement Agreement – Central Storage & Warehouse LLC

Trustee Wishau moved to authorize the President and Secretary of the Caledonia Utility District to execute the Municipal Watermain & Storm Sewer Easement with Central Storage & Warehouse LLC. Seconded by Commissioner Kaplan. **Motion carried.**

b. Change Order #6 – Dominican Lift Station Improvements

Trustee Wishau moved to approve Change Order #6 for the Dominican Lift Station Improvement Project with a contract increase of \$11,671.38. Seconded by Commissioner Strack. **Motion carried.**

c. Final Acceptance – Dominican Lift Station Improvements

Trustee Wishau moved to recommend Final Acceptance of the Dominican Lift Station Improvement Project. Seconded by Commissioner Kaplan. **Motion carried.**

d. 2024 Utility District Budget

Commissioner Strack moved to approve the 2024 Utility District Budget and forward it to the Village Board for approval and adoption. Seconded by Trustee Wishau. **Motion carried.**

7. Adjournment

Upon a motion by Commissioner Kaplan and seconded by Trustee Wishau, the Commission moved to adjourn the regular meeting at 5:44 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

Meeting Agenda Waterworks Commission

Tuesday, October 17, 2023

4:00 PM

City Hall, Room 207 A/B

ROLL CALL

[0974-23](#)

Subject: Approval of Minutes for the September 19, 2023, Meeting

Fiscal Note: N/A

Attachments:

[water minutes 09.19.23](#)

[0975-23](#)

Subject: Budget Expenditures for September 2023 Totaling \$1,646,138

Fiscal Note: N/A

Attachments:

[sept23 budget expenditures_wa](#)

[0976-23](#)

Subject: Change Order No. 1 on Contract W-23-4, 2023 Water Main Replacement, Reesman's Excavating & Grading (Contractor)

Fiscal Note: Contract change results in a net cost of \$1,882.00.

Attachments:

[co#1_w-23-4](#)

[0977-23](#)

Subject: Change Order No. 2 on Contract W-23-4, 2023 Water Main Replacement, Reesman's Excavating & Grading (Contractor)

Fiscal Note: Contract change results in a net cost of \$826.01, bringing the total contract amount to \$1,070,413.01.

Attachments:

[co#2_w-23-4](#)

[0978-23](#)

Subject: Final Payment Request on Contract W-23-4, 2023 Water Main Replacement, Reesman's Excavating & Grading (Contractor)

Fiscal Note: Contract W-23-4 is complete at a final cost of \$1,070,413.01. Utility to pay contractor retainage amount of \$26,692.63.

Attachments:

[final paymt req_w-23-4](#)

[0979-23](#)

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 Water Main Replacement Project

Fiscal Note: N/A

[0980-23](#)

Subject: Request from the 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 Lead Service Line Replacement 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

Tuesday, October 17, 2023

4:00 PM

City Hall, Room 207 A/B

ROLL CALL

PRESENT: 6 - Natalia Taft, John Tate II, Jason Meekma, Cory Mason, Paul Vornholt and Terry McCarthy

EXCUSED: 2 - Stacy Sheppard and Mollie Jones

[0974-23](#)

Subject: Approval of Minutes for the September 19, 2023, Meeting

Recommendation: To Approve

Fiscal Note: N/A

A motion was made by Vice President Taft, seconded by Meekma, that this file be Approved

[0975-23](#)

Subject: Budget Expenditures for September 2023 Totaling \$1,646,138

Recommendation: To Receive & File

Fiscal Note: N/A

Highlights of the financial report given by Administrative Manager, Ken Scolaro.

A motion was made by Vice President Taft, seconded by Alder McCarthy, that this file be Received and Filed

[0976-23](#)

Subject: Change Order No. 1 on Contract W-23-4, 2023 Water Main Replacement, Reesman's Excavating & Grading (Contractor)

Recommendation: To Approve

Fiscal Note: Contract change results in a net cost of \$1,882.00.

A motion was made by Alder McCarthy, seconded by Vice President Taft, that this file be Approved

[0977-23](#)

Subject: Change Order No. 2 on Contract W-23-4, 2023 Water Main Replacement, Reesman's Excavating & Grading (Contractor)

Recommendation: To Approve

Fiscal Note: Contract change results in a net cost of \$826.01, bringing the total contract amount to \$1,070,413.01.

A motion was made by Vice President Taft, seconded by Alder McCarthy, that this file be Approved

[0978-23](#)

Subject: Final Payment Request on Contract W-23-4, 2023 Water Main Replacement, Reesman's Excavating & Grading (Contractor)

Recommendation: To Approve

Fiscal Note: Contract W-23-4 is complete at a final cost of \$1,070,413.01. Utility to pay contractor retainage amount of \$26,692.63.

The Water Utility Director submitted final payment request on Contract W-23-4, and recommended for approval that work performed by Reesman's Excavating & Grading be accepted and final payment authorized. The Racine Works Program labor hours component was 16.8%.

A motion was made by Vice President Taft, seconded by Meekma, that this file be Approved

[0979-23](#)

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 Water Main Replacement Project

Recommendation: To Approve

Fiscal Note: N/A

The Water Utility Director discussed the FY2025 project financing for water main replacement. Loan costs may be reduced with Principal Forgiveness, to be determined.

A motion was made by Vice President Taft, seconded by Alder McCarthy, that this file be Approved

[0980-23](#)

Subject: Request from the 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 Lead Service Line Replacement Project

Recommendation: To Approve

Fiscal Note: N/A

The Water Utility Director discussed the FY2025 project financing for lead service line replacement, which includes both public and private side lead services. Loan costs may be reduced with Principal Forgiveness, to be determined.

A motion was made by Vice President Taft, seconded by Meekma, that this file be Approved

Adjournment

There being no further business to address, the meeting was adjourned at 4:32 p.m.



City of Racine

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

Meeting Agenda Wastewater Commission

Tuesday, October 17, 2023

4:30 PM

City Hall, Room 207 A/B

ROLL CALL

[0981-23](#)

Subject: Approval of Minutes for the September 19, 2023, Meeting

Fiscal Note: N/A

Attachments:

[ww minutes 09.19.23](#)

[0982-23](#)

Subject: Budget Expenditures for September 2023 totaling \$1,056,827

Fiscal Note: N/A

Attachments:

[sept23 budget expenditures ww](#)

[0983-23](#)

Subject: Use of Wastewater Utility Interceptor by Caledonia during Repair of Caledonia East Forcemain

Fiscal Note: N/A

Attachments:

[caledonia indemnification hold harmless agrmnt rev 031510](#)

[0993-23](#)

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

Fiscal Note: N/A

Attachments:

[bid opening results_C-23_johnson park L.S.](#)

[0984-23](#)

Subject: Proposal from Ruekert-Mielke to perform 2025 Revenue Sharing Calculations

Fiscal Note: Cost of proposal not to exceed \$13,975.00

Attachments:

[ruekert-mielke_rev share study](#)

[0985-23](#)

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

Fiscal Note: N/A

[0986-23](#)

Subject: Communication from Wastewater Utility Director regarding Development of Vision, Mission, and Values for Wastewater

Fiscal Note: N/A

Attachments: [ww vision, mission, values presentation](#)

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

Meeting Minutes - Draft Wastewater Commission

Tuesday, October 17, 2023

4:30 PM

City Hall, Room 207 A/B

The meeting was called to order by President Taft at 4:36 p.m.

ROLL CALL

PRESENT: 7 - Natalia Taft, John Tate II, Cory Mason, Jason Meekma, Terry McCarthy, Anthony Beyer and Anthony Bunkelman

EXCUSED: 4 - John Hewitt, Stacy Sheppard, Claude Lois and Mollie Jones

[0981-23](#)

Subject: Approval of Minutes for the September 19, 2023, Meeting

Recommendation: To Approve

Fiscal Note: N/A

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

[0982-23](#)

Subject: Budget Expenditures for September 2023 totaling \$1,056,827

Recommendation: To Receive & File

Fiscal Note: N/A

Highlights of the financial report given by Administrative Manager, Ken Scolaro.

A motion was made by Vice President Tate II, seconded by Alder McCarthy, that this file be Received and Filed

[0983-23](#)

Subject: Use of Wastewater Utility Interceptor by Caledonia during Repair of Caledonia East Forcemain

Recommendation: To Approve

Fiscal Note: N/A

The Wastewater Utility Director presented an Indemnification & Hold Harmless Agreement, which would allow the Village of Caledonia to use a Utility Interceptor for a period while they will be servicing a forcemain. The Village will assume

responsibility for any liabilities incurred during this project period.

A motion was made by Alder McCarthy, seconded by Bunkelman, that this file be Approved with the modification of removing "lining" and replacing with "forcemain maintenance."

[0993-23](#)

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

Recommendation on 10/17/23: To Defer the item until next month's meeting

Fiscal Note: N/A

The Wastewater Utility Director submitted the bid results on 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 Commissioners voted to defer this item until next month's meeting in order to look further into funding for this project secured by the Parks & Recreation Department.

A motion was made by Mayor Mason, seconded by Vice President Tate II, that this file be Deferred

[0984-23](#)

Subject: Proposal from Ruekert-Mielke to perform 2025 Revenue Sharing Calculations

Fiscal Note: Cost of proposal not to exceed \$13,975.00

The Wastewater Utility Director along with Ed Maxwell from Ruekert-Mielke, presented a proposal from Ruekert-Mielke to perform 2025 Revenue Sharing Calculations as mandated in the Sewer Agreement section 7.1.a as well as an annual payment that is mandated in section 8.2

A motion was made by Alder McCarthy, seconded by Vice President Tate II, that this file be Approved

[0985-23](#)

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

Recommendation on 10/17/23: To Defer this item until next month's meeting

Fiscal Note: N/A

Mayor Mason requested that this item be deferred until the next Commission Meeting, when the city expects to have more relevant data to share on their progress on mitigation strategies implemented to date.

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

[0986-23](#)

Subject: Communication from Wastewater Utility Director regarding

Development of Vision, Mission, and Values for Wastewater

Recommendation: To Receive & File

Fiscal Note: N/A

The Wastewater Utility Director presented on the development of Vision, Mission, and Values for the Water & Wastewater Utilities, specifically as it pertains to the development of core values and how they will be utilized after implementation. The Utility seeks to begin development of this initiative by collecting input from the Commission members through a confidential survey offered online.

Adjournment

There being no further business to address, the meeting was adjourned at 5:14 p.m.

FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
ACH - WE ENERGIES							
Sewer Utility Fund	380	ACH - WE ENERGIES	4753163526	SEPT 23 - GAS AND ELECTRIC	09/29/2023	8,327.85	501-00-64140 Utilities
Water Utility Fund	380	ACH - WE ENERGIES	4753163526	SEPT 23 - GAS AND ELECTRIC	09/29/2023	910.78	500-00-64140 Utilities
Storm Water Utility Fund	380	ACH - WE ENERGIES	4753163526	SEPT 23 - GAS AND ELECTRIC	09/29/2023	180.41	502-00-64140 Utilities
Total ACH - WE ENERGIES:						9,419.04	
CORE & MAIN LP							
Water Utility Fund	405	CORE & MAIN LP	T759115	WORK SUPPLIES	10/13/2023	4,145.39	500-00-64240 Building Repairs & Maintenance
Total CORE & MAIN LP:						4,145.39	
CUMMINS SALES AND SERVICES							
Sewer Utility Fund	429	CUMMINS SALES AND SERVICE	F6-64057	LIFT STATION GENERATOR AN	10/23/2023	55.53	501-00-63200 Fuel, Oil, Fluids
Total CUMMINS SALES AND SERVICES:						55.53	
DORNER COMPANY							
Sewer Utility Fund	551	DORNER COMPANY	508071	AUMA REPAIR	10/17/2023	5,487.00	501-00-64250 Equipment Repairs & Maintenance
Total DORNER COMPANY:						5,487.00	
G & F EXCAVATING							
Water Utility Fund	687	G & F EXCAVATING	35947	REPLACE ROTEED WATER BO	10/12/2023	2,002.50	500-00-64240 Building Repairs & Maintenance
Total G & F EXCAVATING:						2,002.50	
JIMS GARAGE DOOR SERVICE, INC.							
Water Utility Fund	943	JIMS GARAGE DOOR SERVICE,	219785	GARAGE DOOR REPAIR	09/29/2023	736.50	500-00-64240 Building Repairs & Maintenance
Sewer Utility Fund	943	JIMS GARAGE DOOR SERVICE,	219785	GARAGE DOOR REPAIR	09/29/2023	736.50	501-00-64240 Building Repairs & Maintenance
Total JIMS GARAGE DOOR SERVICE, INC.:						1,473.00	
KORTENDICK HARDWARE							
Water Utility Fund	1096	KORTENDICK HARDWARE	161015	DRIVER SET	10/09/2023	20.24	500-00-64070 Work Supplies
Sewer Utility Fund	1096	KORTENDICK HARDWARE	161015	DRIVER SET	10/09/2023	20.25	501-00-64070 Work Supplies
Total KORTENDICK HARDWARE:						40.49	

FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title	
LIGHTHOUSE COMMUNICATIONS								
Water Utility Fund	1170	LIGHTHOUSE COMMUNICATIO	1131023	TAX ROLL NOTEICE; SEWER DI	10/13/2023	605.78	500-00-64040	Postage & Shipping
Sewer Utility Fund	1170	LIGHTHOUSE COMMUNICATIO	1131023	TAX ROLL NOTICE; SEWER DIS	10/13/2023	605.79	501-00-64040	Postage & Shipping
Sewer Utility Fund	1170	LIGHTHOUSE COMMUNICATIO	1131023	TAX ROLL NOTICE; SEWER DIS	10/13/2023	77.61	501-00-64030	Office Supplies
Water Utility Fund	1170	LIGHTHOUSE COMMUNICATIO	1131023	TAX ROLL NOTICE; SEWER DIS	10/13/2023	77.61	500-00-64030	Office Supplies
Total LIGHTHOUSE COMMUNICATIONS:						1,366.79		
MAC QUEEN EQUIPMENT								
Sewer Utility Fund	264	MAC QUEEN EQUIPMENT	W06601	VACTOR TRUCK REPAIR	10/25/2023	2,279.07	501-00-63300	Vehicle Repairs & Maintenance
Water Utility Fund	264	MAC QUEEN EQUIPMENT	W06601	VACTOR TRUCK REPAIR	10/25/2023	759.69	500-00-63300	Vehicle Repairs & Maintenance
Total MAC QUEEN EQUIPMENT:						3,038.76		
MENARDS RACINE								
Sewer Utility Fund	1281	MENARDS RACINE	74352	RIVERBEND REPLACEMENT PA	10/09/2023	121.82	501-00-64250	Equipment Repairs & Maintenanc
Total MENARDS RACINE:						121.82		
MILWAUKEE LIGHTBULBS								
Water Utility Fund	1337	MILWAUKEE LIGHTBULBS	0257051-IN	WORK SUPPLIES	10/11/2023	93.30	500-00-64240	Building Repairs & Maintenance
Sewer Utility Fund	1337	MILWAUKEE LIGHTBULBS	0257051-IN	WORK SUPPLIES	10/11/2023	93.30	501-00-64240	Building Repairs & Maintenance
Total MILWAUKEE LIGHTBULBS:						186.60		
MILWAUKEE METROPOLITAN SEWAGE DISTRICT								
Sewer Utility Fund	1338	MILWAUKEE METROPOLITAN S	225-23	Q3-23; SEWER TREATMENT	10/05/2023	11,027.59	501-00-62550	Sewer Treatment Charges
Total MILWAUKEE METROPOLITAN SEWAGE DISTRICT:						11,027.59		
NEENAH FOUNDRY COMPANY								
Sewer Utility Fund	1382	NEENAH FOUNDRY COMPANY	130037	SUPPLIES; FRAMES, LIDS, GRA	10/04/2023	10,010.00	501-00-64240	Building Repairs & Maintenance
Storm Water Utility Fund	1382	NEENAH FOUNDRY COMPANY	130037	SUPPLIES; FRAMES, LIDS, GRA	10/04/2023	3,800.00	502-00-64240	Building Repairs & Maintenance
Total NEENAH FOUNDRY COMPANY:						13,810.00		
OAK CREEK WATER UTILITY								
Water Utility Fund	1423	OAK CREEK WATER UTILITY	5248	WATER SAMPLES	10/09/2023	365.00	500-00-62560	Water Sampling and Testing

FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
Total OAK CREEK WATER UTILITY:						365.00	
RACINE WATER & WASTEWATER UTILITIES							
Water Utility Fund	1574	RACINE WATER & WASTEWATE	2574491	Q3 2023 WATER USAGE	10/01/2023	498,526.78	500-00-62550 Purchased Water
Water Utility Fund	1574	RACINE WATER & WASTEWATE	2574491	Q3 2023 WATER USAGE	10/01/2023	49,250.00	500-00-64180 Public Fire Protection
Total RACINE WATER & WASTEWATER UTILITIES:						547,776.78	
RAY HINTZ INC.							
Sewer Utility Fund	1592	RAY HINTZ INC.	64850	BUILDING REPAIRS/MAINTENA	10/05/2023	324.00	501-00-64240 Building Repairs & Maintenance
Water Utility Fund	1592	RAY HINTZ INC.	64851	BUILDING REPAIRS/MAINTENA	10/06/2023	216.00	500-00-64240 Building Repairs & Maintenance
Water Utility Fund	1592	RAY HINTZ INC.	64855	BUILDING REPAIRS/MAINTENA	10/10/2023	216.00	500-00-64240 Building Repairs & Maintenance
Total RAY HINTZ INC.:						756.00	
REESMANS EXCAVATING & GRADING							
Water Utility Fund	1610	REESMANS EXCAVATING & GR	22EWMW1-6	WASHINGTON MEADOWS WAT	08/07/2023	40,403.72	500-18737-107 CIP - WASHINGTON MEADOWS
Total REESMANS EXCAVATING & GRADING:						40,403.72	
REVERE ELECTRIC							
Sewer Utility Fund	1629	REVERE ELECTRIC	S5008143.001	WORK SUPPLIES	10/11/2023	7,671.37	501-00-64250 Equipment Repairs & Maintenanc
Sewer Utility Fund	1629	REVERE ELECTRIC	S5008145.001	IDE 61-637 SINGLE RANGE 24 T	10/09/2023	32.50	501-00-64070 Work Supplies
Total REVERE ELECTRIC:						7,703.87	
SJE, INC.							
Sewer Utility Fund	1119	SJE, INC.	CD99498217	RIVERBEND L.S. PUMP # 2 REP	10/05/2023	10,024.98	501-00-64250 Equipment Repairs & Maintenanc
Total SJE, INC.:						10,024.98	
SME SEASONAL SERVICES LLC							
Storm Water Utility Fund	1813	SME SEASONAL SERVICES LL	6806	MOWING - 5 1/2 & CHARLES (8/	10/01/2023	340.00	502-00-64260 Grounds Repairs & Maintenance
Total SME SEASONAL SERVICES LLC:						340.00	
STARNET TECHNOLOGIES							
Storm Water Utility Fund	1855	STARNET TECHNOLOGIES	0092472-IN	Q3 - 2023 NCC DATA MONITORI	10/11/2023	60.00	502-00-64150 Communication Services
Sewer Utility Fund	1855	STARNET TECHNOLOGIES	0092472-IN	Q3 - 2023 NCC DATA MONITORI	10/11/2023	360.00	501-00-64150 Communication Services

FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
Water Utility Fund	1855	STARNET TECHNOLOGIES	0092472-IN	Q3 - 2023 NCC DATA MONITORI	10/11/2023	120.00	500-00-64150 Communication Services
Total STARNET TECHNOLOGIES:						540.00	
WANASEK CORP							
Storm Water Utility Fund	2097	WANASEK CORP	WESTVIEW VI	WESTVIEW VILLAGE; STORM I	10/25/2023	9,953.30	502-00-65156 Westview Village Storm
Total WANASEK CORP:						9,953.30	
Grand Totals:						670,038.16	

TOTAL PAYMENTS BY FUND

Sewer Utility Fund	\$ 57,255.16
Storm Water Utility Fund	\$ 14,333.71
Water Utility Fund	\$598,449.29
TOTALS	\$670,038.16

Hoods Creek Attenuation Basin Expansion

Sewer

Contractor	Miron Construction		
Original Contract	\$	10,209,403.20	
Change Order #1	\$	-	0.00%
Change Order #2	\$	-	0.00%
Change Order #3	\$	60,787.06	0.60%
Change Order #4	\$	8,210.32	0.08%
Change Order #5	\$	1,321.33	0.01%
Change Order #6	\$	18,359.25	0.18%
Change Order #7	\$	29,072.40	0.28%
Change Order #8	\$	11,025.00	0.11%
Change Order #9	\$	8,530.20	0.08%
Change Order #10	\$	1,292.55	0.01%
Change Order #11	\$	2,667.00	0.03%
Change Order #12	\$	2,952.60	0.03%
Change Order #13	\$	(34,006.65)	-0.33%
Change Order #14	\$	(84,912.95)	-0.83%
Total	\$	25,298.11	0.25%
Current Contract	\$	10,234,701.31	
Pay Request #1	\$	503,595.85	
Retainage	\$	26,505.04	
Pay Request #2	\$	668,836.92	
Retainage	\$	35,201.95	
Pay Request #3	\$	2,856,043.90	
Retainage	\$	153,318.10	
Pay Request #4	\$	2,875,931.51	
Retainage	\$	41,729.67	
Pay Request #5	\$	1,505,021.00	
Pay Request #6	\$	471,546.00	
Pay Request #7	\$	351,367.90	
Pay Request #8	\$	342,041.82	
Pay Request #9	\$	225,885.15	
Pay Request #10	\$	95,765.79	
Pay Request #11	\$	338,665.47	
Remaining on Contract (Including Retainage)	\$	0.00	0%
Design Engineering (9/28/2020-5/26/2022)	\$	432,547.23	4.24%
Construction Services	\$	358,676.29	3.51%

(5/26/2022-6/1/2023)

SJE (Pumps Impellers 1)	\$	76,338.90
SJE (Pumps Impellers 2)	\$	8,483.10
Gabriel Novac #1	\$	82,590.00
Gabriel Novac #2	\$	165,180.00
Gabriel Novac #3		
Bonafide Security	\$	20.40
Heater Parts & Locks	\$	179.22
Total	\$	332,791.62

Total Project Cost

\$ 11,358,716.45

Foth 77968	\$	23,355.70
Foth 78417	\$	22,185.60
Foth 79069	\$	44,603.73
Foth79473	\$	31,967.28
Foth 80028	\$	27,262.63
Foth 80520	\$	37,522.09
Foth 80950	\$	27,538.63
Foth 81564	\$	21,356.56
Foth 82022	\$	22,006.71
Foth 82437	\$	40,875.86
Foth 82793	\$	25,792.58
Foth 83448	\$	13,066.66
Foth 84085	\$	10,796.25
Foth 84421	\$	10,346.01
	\$	358,676.29

Washington Meadows Watermain

Water

Contractor	Reesman's		
Original Contract	\$	1,681,981.35	
Change Order #1	\$	30,073.55	1.79%
Change Order #2	\$	(95,906.11)	-5.70%
Current Contract	\$	1,616,148.79	-3.91%
Pay Request #1	\$	361,930.00	
Retainage	\$	19,048.95	
Pay Request #2	\$	462,412.42	
Retainage	\$	23,000.58	
Pay Request #3	\$	374,496.70	
Pay Request #4	\$	90,487.15	
Pay Request #5	\$	286,418.80	
Pay Request #6	\$	40,403.72	
Remaining on Contract (Including Retainage)	\$	0.00	0.0%
Design Engineering 1/23/2022 to 6/23/2022	\$	97,246.35	5.78%
Construction Services 7/29/2022 to 6/1/2023	\$	160,656.57	9.55%
Scrap - Recycle	\$	(1,451.60)	
Total Project Cost	\$	1,872,600.11	

Westview Village Stormwater Improvements

Storm Water

Contractor	The Wanasek Corp		
Original Contract	\$	154,465.00	
Change Order #1	\$	2,123.20	1.37%
Change Order #2	\$	2,137.05	1.38%
Current Contract	\$	158,725.25	2.76%
Pay Request #1	\$	123,394.69	
Retainage	\$	6,494.46	
Pay Request #2	\$	22,689.14	
Retainage	\$	1,194.16	
Pay Request #3	\$	2,688.12	
Pay Request #4	\$	9,953.30	
Remaining on Contract (Including Retainage)	\$	-	0.0%
Design Engineering 2/26/2021 to 7/29/2022	\$	61,423.56	39.77%
Construction Services 8/29/2022 to 6/1/2023	\$	18,871.52	12.22%
Total Project Cost	\$	239,020.33	

STH 32 Stream Restoration Project

Storm Water

Contractor	A.W. Oakes		
Original Contract	\$	279,831.00	
Change Order #1	\$	2,609.29	0.93%
Current Contract	\$	282,440.29	0.93%
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	
Remaining on Contract (Including Retainage)	\$	14,653.00	5.2%
Design Engineering	\$	237,128.50	84.74%
Construction Services through 6/1/2023	\$	28,143.39	10.06%
Total Project Cost	\$	547,712.18	

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

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

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. 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.

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 valves to be installed. Racine 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. Valves have been sized. Met with a contractor to obtain pricing for installation. Will need to take order from Dorner to source air release valve purchase.

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.

TID #4 Elevated Storage Tank & Adams Road Watermain

- Elevated Storage Tank Plans at DNR for approval. Awaiting any comments.
- Elevated Storage Tank has been submitted to Plan Commission for entitlement process and approval from Village Board.

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

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.

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 Request. Recommend Final Acceptance.

MEMORANDUM

Date: October 23, 2023

To: Plan Commission
Utility District
Village Board

From: Ryan Schmidt, PE
Village Engineer



Re: Final Condominium Plat – Briarwood Condominiums

The Planning Department and the Engineering Department have received the third and Final Condominium Plat for Briarwood from Nancy Washburn representing Briarwood of Caledonia, LLC. This subdivision, once completed, will have a total of 15 – 2 unit condominiums on a private road named Briarwood Circle accessible via Candlelight Drive. Currently, 10 of the 15 buildings have been approved for construction and installation. The Briarwood property is approximately 7.92 acres in size and is within the sewer service area.

As background, the first Final Condo Plat was adopted by Resolution 2022-09 by the Village board on February 7, 2022 and was for the building of the first 5 – 2 unit condos on site. The second Condo Plat was adopted by Resolution 2022-94 which was for another 10 units to be built. This third and final Condo Plat is for the remaining 10 units (5 buildings) and will complete the buildout of the Briarwood Development.

The Village Board approved the original Preliminary Plat in 2005 when private roads were accepted. In addition, the Village Board, via Resolution 2022-04 and 2022-08, accepted the utility infrastructure that was installed for the condominiums and executed the Storm Water Management Practice Maintenance Agreement.

The property has an R-6 PUD Zoning Classification, which allows flexibility in the development design compared to the traditional R-6 zoning requirements. The Developer has used that flexibility to fit 30 units on site and maximize the space.

If the Plan Commission, Utility District, and Village Board are willing to support the Final Condominium Plat, the following motion is recommended:

Move to approve the Briarwood Condominium Plat subject to the following.

- All technical corrections and comments made from Village of Caledonia Staff and Commissions will be addressed prior to recording.
- Plat must conform to all Ordinances in Title 9, 14, and 18 as necessary.
- Plat is subject to Land Division per Lot Fee.

MEMORANDUM

Date: October 16, 2023

To: Village Board
Plan Commission
Parks Commission
Caledonia Utility District
Kathy Kasper – Village Administrator
Marty Kuehn – Village Assessor
Joslyn Hoeffert – Village Clerk
Erika Waage – Building Inspector
Jeff Henningfeld – Fire Chief
Chris Botsch – Police Chief
Todd Ripley – Public Works Superintendent
Anthony Bunkelman – Public Services Director

From: Ryan Schmidt, P.E.
Village Engineer

Re: Final Condominium Plat – Briarwood Addendum No. 2

The Planning Department and the Engineering Department have received the 3rd phase and Final Addendum (No. 2) for the Briarwood Condominium Plat. This proposed condominium subdivision consists of 30 total units (15 total buildings) and 1 Outlot on a private road. The 3rd phase is for the final 5 buildings (10 units) on the north end of the development. The condominium subdivision is located at the north end of Briarwood Lane and Candlelight Drive, east of Erie Street and North of 4 Mile Road (CTH G).

The first phase of the Condominium Plat was approved on October 26, 2020 with the second phase approved on September 6, 2022. The Village must either approve or disapprove the plat by November 14th, 2023. Department heads are requested to review the Final Plat, which is attached. Please contact the Engineering Department when you have completed your review.

The following meeting dates have been set for discussion and action on the plat:

Plan Commission – October 30, 2023
Caledonia Utility District – November 1, 2023
Village Board – November 14, 2023

All Department Heads and utilities are requested to provide their input prior to November 9, 2023.


CONDOMINIUM PLAT OF
BRIARWOOD ADDENDUM NO. 2
A CONDOMINIUM

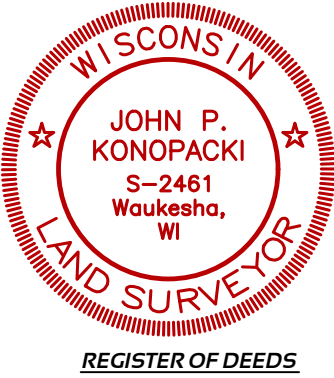
Being a part of the Southeast 1/4 of the Southwest 1/4
of Section 21, Township 4 North, Range 23 East,
Village of Caledonia, Racine County, Wisconsin.

SURVEYOR'S CERTIFICATE

STATE OF WISCONSIN)
WAUKESHA COUNTY) SS

I, John P. Konopacki, Professional Land Surveyor, do hereby certify that I have surveyed and mapped the lands shown and described hereon and that this is a true and correct representation of BRIARWOOD ADDENDUM NO. 2, a condominium and that the identification and location of each unit and the common elements can be determined from this plat.

SIGNED  **JUNE 7, 2022**
JOHN P. KONOPACKI, PROFESSIONAL LAND SURVEYOR S-2461

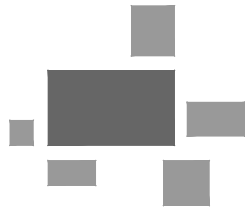


Prepared by:
PINNACLE ENGINEERING GROUP
20725 WATERTOWN ROAD | SUITE 100
BROOKFIELD, WI 53186
OFFICE: (262) 754-8888

Prepared for:
Briarwood of Caledonia, LLC
8338 Corporate Drive, Suite 300
Racine, WI 53406

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	123.14'	115.00'	N61°02'46"W	117.34'
C2	158.67'	115.00'	S48°45'02"W	146.38'

NOTES:
- All portions of the property that are not specified as Limited Common Elements or as a Unit shall be considered a Common Element.
- Stoops, patios, sidewalks, decks and driveways, if any, are Limited Common Elements assigned to the Unit(s) they service.
- Length of Limited Common Element from garage to curb varies and is intended to cover that entire portion of the driveway between the curb and the garage.
- All measurements have been made to the nearest one-hundredth of a foot.
- All angular measurements have been made to the nearest one second.
- Bearings referenced to the Wisconsin State Plane Coordinate System, South Zone (N.A.D. 1927). The east line of the Southwest 1/4 of Section 21, Township 4 North, Range 23 East bears N00°20'21"W.

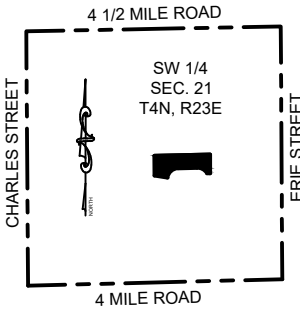


DECLARANT:
Briarwood of Caledonia, LLC

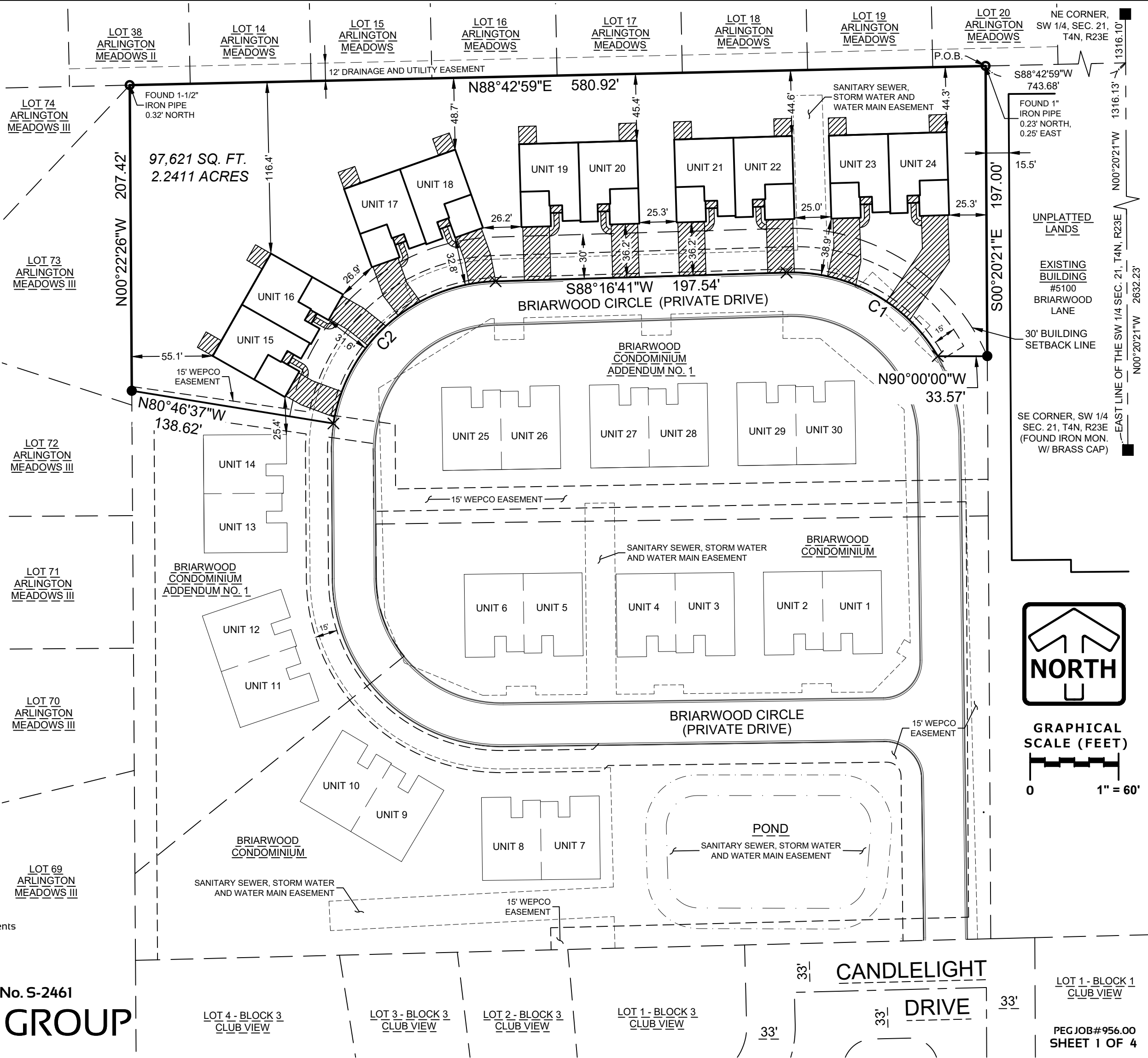
This instrument drafted by John P. Konopacki, PLS-Registration No. S-2461

PINNACLE ENGINEERING GROUP

VICINITY SKETCH
SCALE 1"=2000'



LEGEND:
○ - Denotes Found Iron Pipe
● - Denotes Found Iron Rod
× - Denotes Found Chiseled Cross
(R) - Denotes "Recorded As"
▨ - Indicates Limited Common Elements



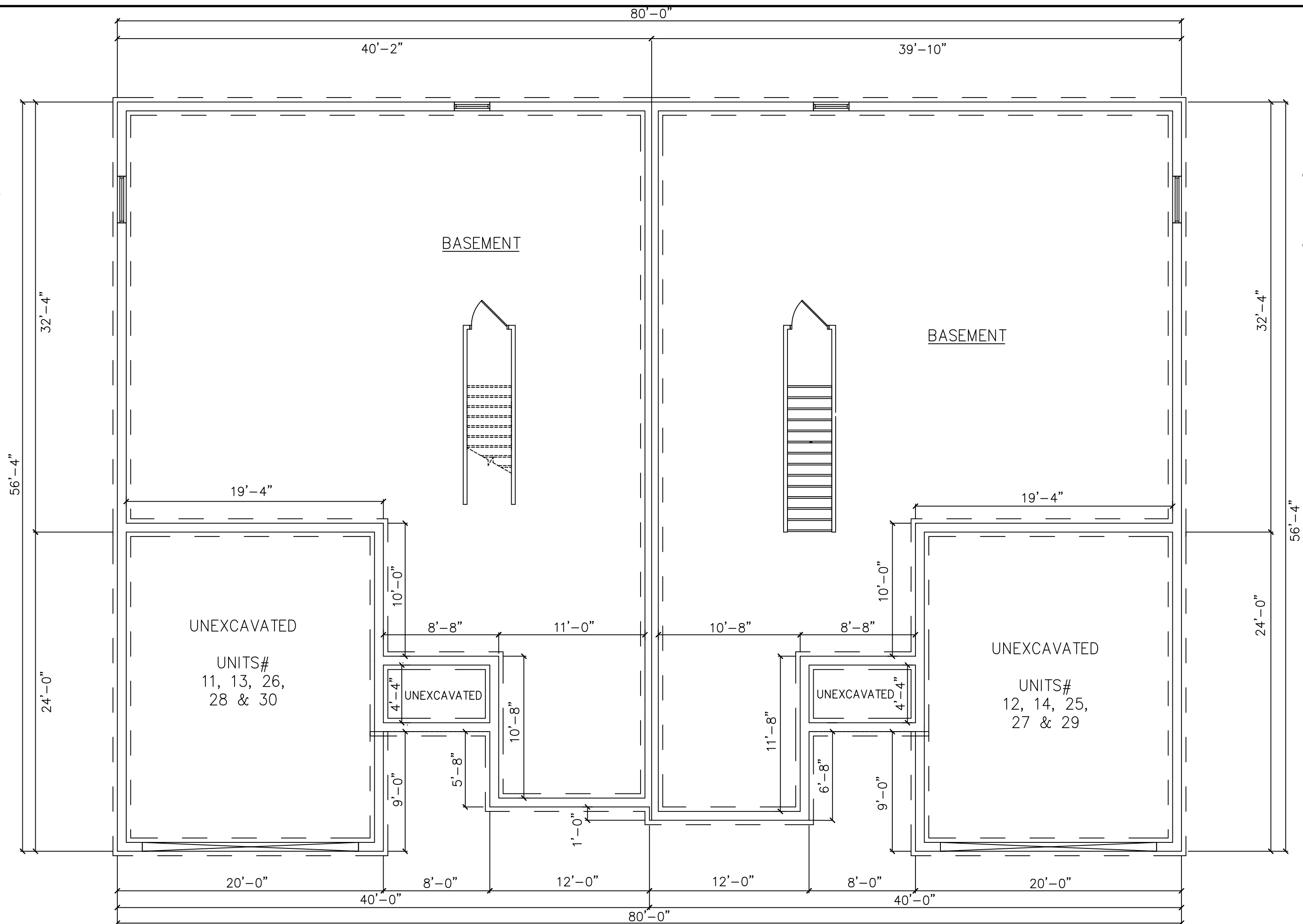
GRAPHICAL SCALE (FEET)
0 1" = 60'

CONDOMINIUM PLAT OF
BRIARWOOD
ADDENDUM NO. 2
A CONDOMINIUM

Being a part of the Southeast 1/4
of the Southwest 1/4 of Section 21,
Township 4 North, Range 23 East,
Village of Caledonia,
Racine County, Wisconsin.



JUNE 7, 2022



www.pinnacle-engr.com



This instrument drafted by John P. Konopacki, PLS-Registration No. S-2461

PINNACLE ENGINEERING GROUP

NOT TO SCALE
FOUNDATION PLAN

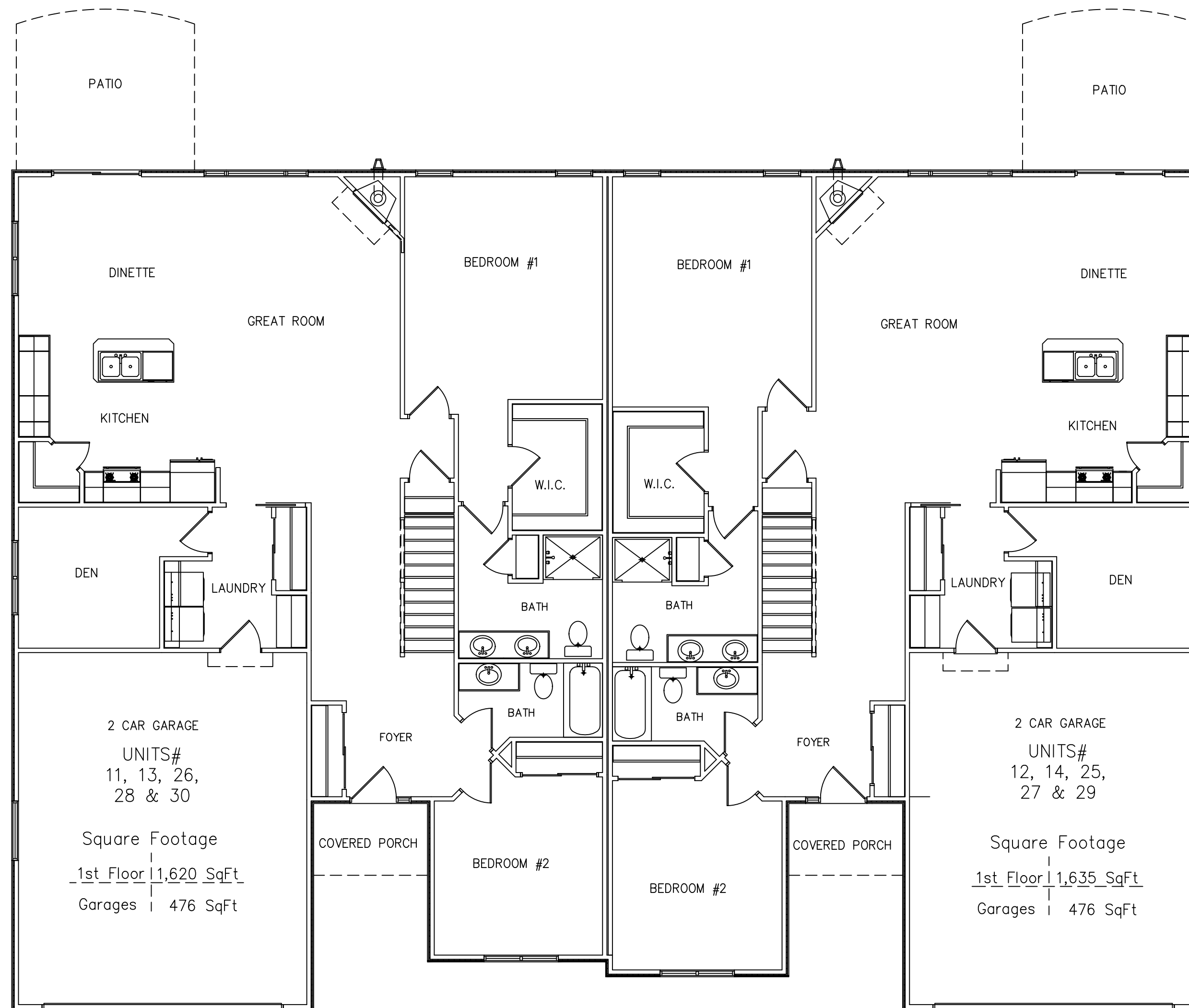
NOTES:

- Buildings and improvements shown represent proposed construction.
- Square foot areas are approximate, taken from architectural plans of record, not measured as-built and do not include possible changes requested by purchaser.

PEG JOB#956.00
SHEET 2 OF 4

CONDOMINIUM PLAT OF
BRIARWOOD
ADDENDUM NO. 2
A CONDOMINIUM

Being a part of the Southeast 1/4
of the Southwest 1/4 of Section 21,
Township 4 North, Range 23 East,
Village of Caledonia,
Racine County, Wisconsin.



This instrument drafted by John P. Konopacki, PLS-Registration No. S-2461

PINNACLE ENGINEERING GROUP

FLOOR PLAN
NOT TO SCALE

NOTES:
- Buildings and improvements shown represent proposed construction.
- Square foot areas are approximate, taken from architectural plans of record, not
measured as-built and do not include possible changes requested by purchaser.

PEG JOB#956.00
SHEET 3 OF 4

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CONDOMINIUM PLAT OF
BRIARWOOD ADDENDUM NO. 2
A CONDOMINIUM

Being a part of the Southeast 1/4 of the Southwest 1/4
of Section 21, Township 4 North, Range 23 East,
Village of Caledonia, Racine County, Wisconsin.

CONDOMINIUM LAND LEGAL DESCRIPTION:

Being a part of Expansion Land "B" in Briarwood Addendum No. 1, a condominium, as recorded in the Register of Deeds office for Racine County as Document No. 2647467, being a part of the Southeast 1/4 of the Southwest 1/4 of Section 21, Township 4 North, Range 23 East, Village of Caledonia, Racine County, Wisconsin, described as follows:

Commencing at the southeast corner of the Southwest 1/4 of said Section 21; thence North 00°20'21" West along the east line of said Southwest 1/4, 1316.13 feet; thence South 88°42'59" West and then along the north line of Certified Survey Map No. 1960 and then along the south line of Arlington Meadows, a recorded subdivision, 743.68 feet to the Point of Beginning;

Thence South 00°20'21" East, 197.00 feet; thence North 90°00'00" West, 33.57 feet to a point on a curve; thence northwesterly 123.14 feet along the arc of said curve to the left, whose radius is 115.00 feet and whose chord bears North 61°02'46" West, 117.34 feet; thence South 88°16'41" West, 197.54 feet to a point of curvature; thence southwesterly 158.67 feet along the arc of said curve to the left, whose radius is 115.00 feet and whose chord bears South 48°45'02" West, 146.38 feet; thence North 80°46'37" West, 138.62 feet to the east line of Arlington Meadows III, a recorded subdivision; thence North 00°22'26" West along said east line, 207.42 feet to the south line of Arlington Meadows II, a recorded subdivision; thence North 88°42'59" East along said south line and then along the south line of the aforesaid Arlington Meadows, 580.92 feet to the Point of Beginning.

VILLAGE APPROVAL

Approved by the Village of Caledonia on this ____ day of _____, 2023.

Date Joslyn M. Hoeffert, Village Clerk

TREASURER' CERTIFICATE

I do hereby certify that in accordance with the records in the Offices of the Village Clerk and Finance Department of the Village of Caledonia, there are no unpaid taxes or unpaid special assessments on any of the lands included in this Condominium Plat on this ____ day of _____, 2023.

Wayne Krueger, Village of Caledonia Finance Director



OWNER'S CERTIFICATE

Briarwood of Caledonia, LLC, a Limited Liability Company duly organized and existing under and by virtue of the laws of the State of Wisconsin, as owner, does hereby certify that said limited liability company caused the land described on this condominium plat to be surveyed and mapped as represented.

IN WITNESS WHEREOF, the said Briarwood of Caledonia, LLC, has caused these presents to be signed by (name - print) _____, (title) _____, at (city) _____, _____ County, Wisconsin, on this ____ day of _____, 2023.

In the presence of: Briarwood of Caledonia, LLC

Name (signature) - Title

STATE OF WISCONSIN)
_____) COUNTY) SS

Personally came before me this ____ day of _____, 2023, (name) _____, (title) _____, of the above named limited liability company, to me known to be the persons who executed the foregoing instrument, and to me known to be such _____ (title) of said limited liability company, and acknowledged that they executed the foregoing instrument as such officer as the deed of said limited liability, by its authority.

Notary Public
Name: _____
State of Wisconsin
My Commission Expires: _____

CONSENT OF CORPORATE MORTGAGEE

Tri City National Bank, a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, mortgagee of the above described land, does hereby consent to the surveying and mapping of the land described in the foregoing affidavit of John P. Konopacki, surveyor, and does hereby consent to the above certification of owners.

IN WITNESS WHEREOF, the said Tri City National Bank, has caused these presents to be signed by _____, its _____, this ____ day of _____, 2023.

Date

STATE OF WISCONSIN)
_____) COUNTY) SS

Personally came before me this ____ day of _____, 2023, _____, to me known to be the person who executed the foregoing instrument and to me known to be such officer of said corporation and acknowledged the same.

Notary Public
Name: _____
State of Wisconsin
My Commission Expires: _____




This instrument drafted by John P. Konopacki, PLS-Registration No. S-2461

PINNACLE ENGINEERING GROUP

MEMORANDUM

DATE: Tuesday, October 24, 2023

TO: Caledonia Utility District

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

RE: Storm Sewer Reroute & Watermain Extension Plan – Conditional Approval – Central Storage & Warehouse LLC

BACKGROUND INFORMATION

Tracy Brown P.E. of JSD Professional Services, Inc has submitted a Storm Sewer Reroute and Watermain Extension Plan for an addition to Central Storage & Warehouse LLC located at 12725 4 Mile Road.

The proposed addition of the building is located over an existing 36” storm sewer and proposed 12” watermain for Pad E in the Deback Farms Business Park. The existing 36” storm sewer was installed as part of the development of Phase III of the Park. A Watermain Easement was granted with the development of Phase III for a future 12” watermain to be looped within the Business Park. The installation of the future 12” watermain was a condition of development of Pad E.

The proposal at this time is to install a 42,300 square foot addition as Phase 2.5 to the existing building. Central Storage & Warehouse has also shared the ultimate build out for the site which would include an approximate 94,540 square foot building addition as Phase 3 and an approximate 153,800 square foot building addition as Phase 4.

This addition requires the storm sewer rerouted and the watermain to be installed around the ultimate buildout. The plans that have been provided indicate the location of the storm sewer and watermain.

The Watermain Plans have been reviewed by staff and are ready for approval.

The Storm Sewer Plans have also been reviewed by staff but require some clarification prior to final approval. The current proposed storm sewer has been upsized to accommodate the flow from the East due to the change in slope and capacity but does not appear to have been sized to accommodate any flow from the proposed building. This clarification is required to ensure that the appropriately sized storm sewer is installed at this time.

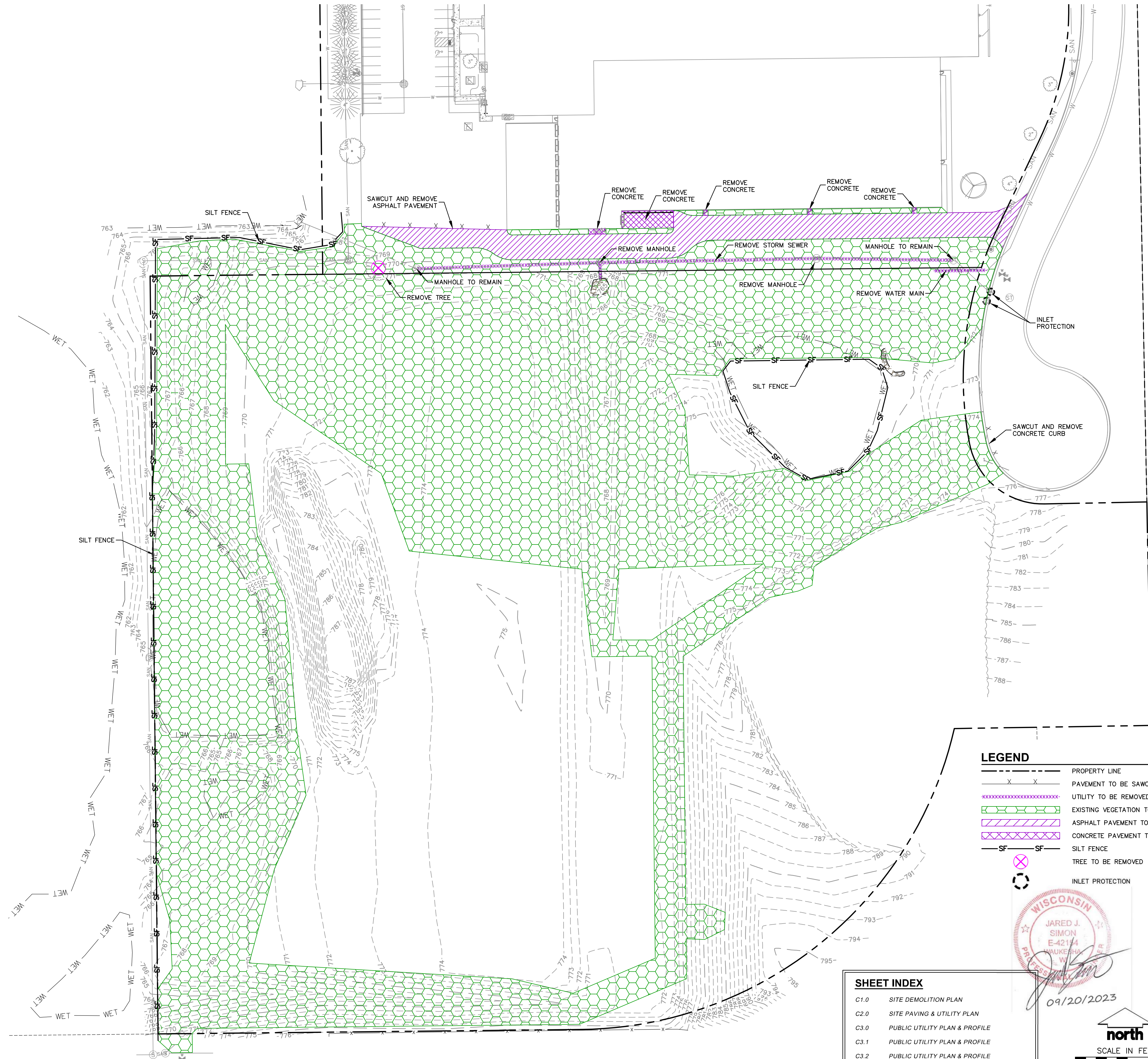
RECOMMENDATION

Move to conditionally approve the Storm Sewer Reroute & Watermain Extension Plan subject to the following condition:

- 1) The clarification of the sizing of the proposed storm sewer is provided and that the appropriately sized storm sewer is installed.**

- 2) There be a financial guarantee placed with the Village to ensure that the Storm Sewer and Watermain are installed.**
- 3) A Development Agreement be entered into as necessary to ensure the installation of the Storm Sewer and Watermain.**
- 4) The Storm Sewer and Watermain are inspected by the Utility District or its consultant to ensure conformance with Utility District Specifications.**
- 5) Central Storage & Warehouse LLC reimburse the Village & Utility District for review and inspection of the Storm Sewer and Watermain.**

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LEGEND	
	PROPERTY LINE
	PAVEMENT TO BE SAWCUT
	UTILITY TO BE REMOVED
	EXISTING VEGETATION TO BE REMOVED
	ASPHALT PAVEMENT TO BE REMOVED
	CONCRETE PAVEMENT TO BE REMOVED
	SILT FENCE
	TREE TO BE REMOVED
	INLET PROTECTION

SHEET INDEX	
C1.0	SITE DEMOLITION PLAN
C2.0	SITE PAVING & UTILITY PLAN
C3.0	PUBLIC UTILITY PLAN & PROFILE
C3.1	PUBLIC UTILITY PLAN & PROFILE
C3.2	PUBLIC UTILITY PLAN & PROFILE
C4.0	SITE GRADING & EROSION CONTROL PLAN
C5.0	NOTES & DETAILS
C5.1	NOTES & DETAILS
C5.2	NOTES & DETAILS

09/20/2023

WISCONSIN
JARED J. SIMON
E-42164
WILKESHA, WI
Professional Engineer

north

SCALE IN FEET

50' 0 50'

DIGGERS HOTLINE

Toll Free (800) 242-8511



CREATE THE VISION TELL THE STORY

jsdinc.com

MILWAUKEE REGIONAL OFFICE
W238 N1610 BUSSE ROAD, SUITE 100
WAUKESHA, WISCONSIN 53188
P. 262.513.0666

CLIENT:



CLIENT ADDRESS:
4300 N. RICHMOND ST.
APPLETON, WI 54913

PROJECT:
**CENTRAL STORAGE
& WAREHOUSE
PHASE 2.5**

PROJECT LOCATION:
12725 4 MILE ROAD
VILLAGE OF CALEDONIA
RACINE COUNTY, WI 53126

PLAN MODIFICATIONS:	
#	Description:
1	04-28-2023 VILLAGE SUBMITTAL
2	05-03-2023 ISSUED FOR BID
3	06-30-2023 VILLAGE RESUBMITTAL
4	07-26-2023 VILLAGE RESUBMITTAL
5	08-22-2023 VILLAGE RESUBMITTAL
6	08-29-2023 VILLAGE RESUBMITTAL
7	09-15-2023 ISSUED FOR CONSTRUCTION
8	
9	
10	
11	
12	
13	
14	
15	

Designed By: JJS (04-14-2023)
Reviewed By: TJB (04-14-2023)
Approved By: TJB (04-14-2023)

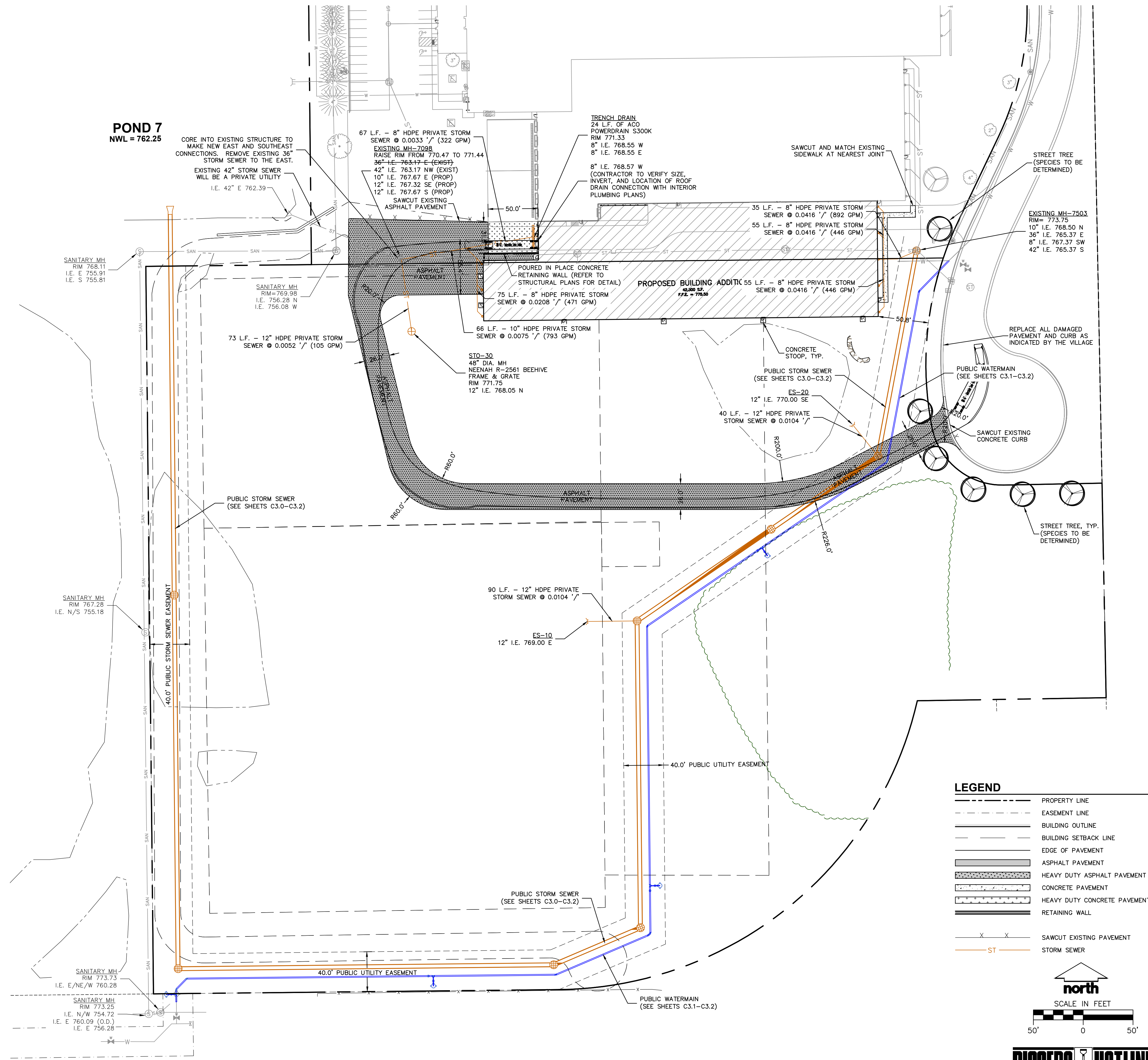
SHEET TITLE:
**SITE DEMOLITION
PLAN**

SHEET NUMBER:
C1.0

JSD PROJECT NO: 18-4857E

THESE PLANS AND DESIGNS ARE COPYRIGHT PROTECTED AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF JSD PROFESSIONAL SERVICES, INC.

File: R:\010118-4857\DWG\18-4857\ SHEET2 Pave.dwg Layout: C2.0 User: jimon Plotted: Sep 20, 2021 9:48am Xref's:



CREATE THE VISION TELL THE STORY

jsdinc.com

MILWAUKEE REGIONAL OFFICE
W238 N1610 BUSSE ROAD, SUITE 100
WAUKESHA, WISCONSIN 53188
P. 262.513.0666

CLIENT:



CLIENT ADDRESS:
4300 N. RICHMOND ST.
APPLETON, WI 54913

PROJECT:
**CENTRAL STORAGE
& WAREHOUSE
PHASE 2.5**

PROJECT LOCATION:
12725 4 MILE ROAD
VILLAGE OF CALEDONIA
RACINE COUNTY, WI 53126

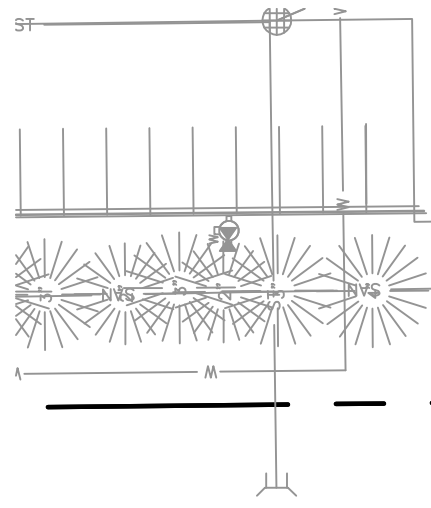
PLAN MODIFICATIONS:		
#	Date:	Description:
1	04-28-2023	VILLAGE SUBMITTAL
2	05-03-2023	ISSUED FOR BID
3	06-30-2023	VILLAGE RESUBMITTAL
4	07-26-2023	VILLAGE RESUBMITTAL
5	08-22-2023	VILLAGE RESUBMITTAL
6	08-29-2023	VILLAGE RESUBMITTAL
7	09-15-2023	ISSUED FOR CONSTRUCTION
8		
9		
10		
11		
12		
13		
14		
15		

Designed By: JJS (04-14-2023)
Reviewed By: TJB (04-14-2023)
Approved By: TJB (04-14-2023)

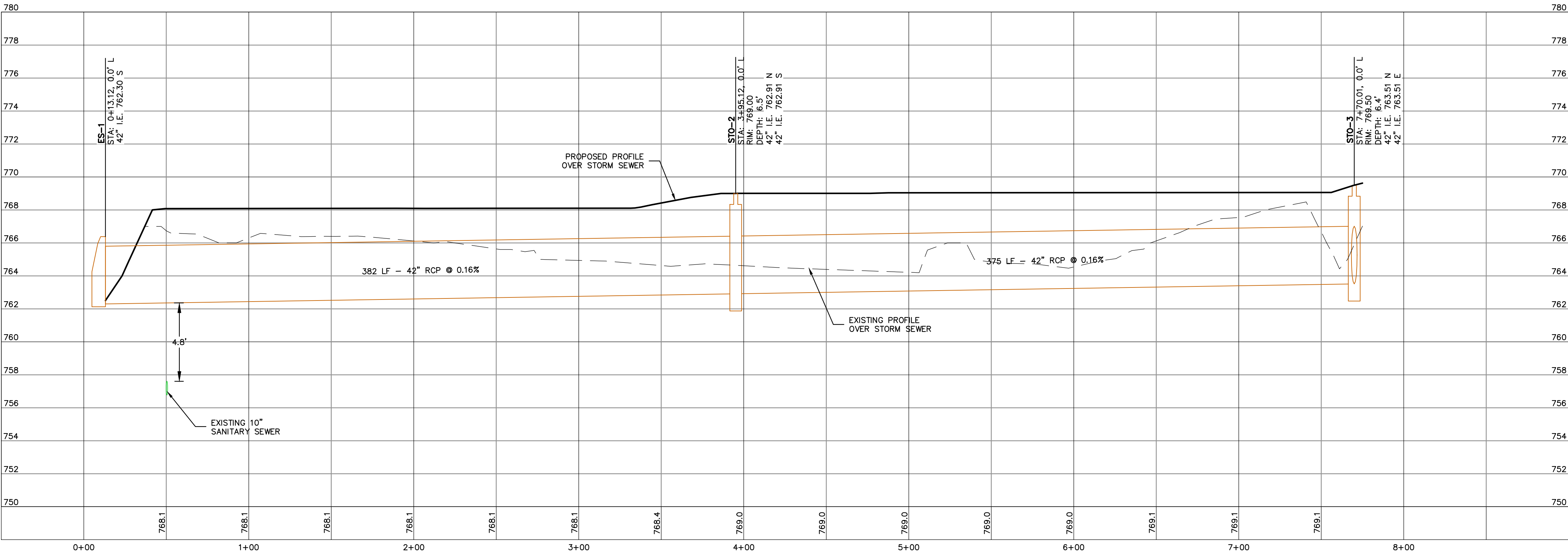
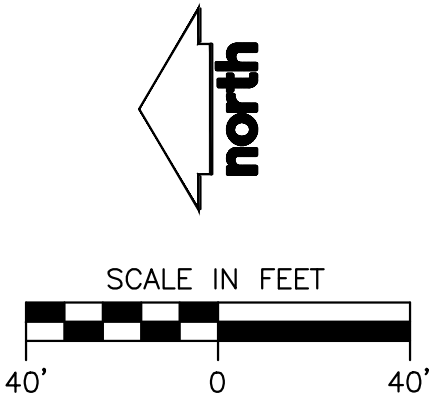
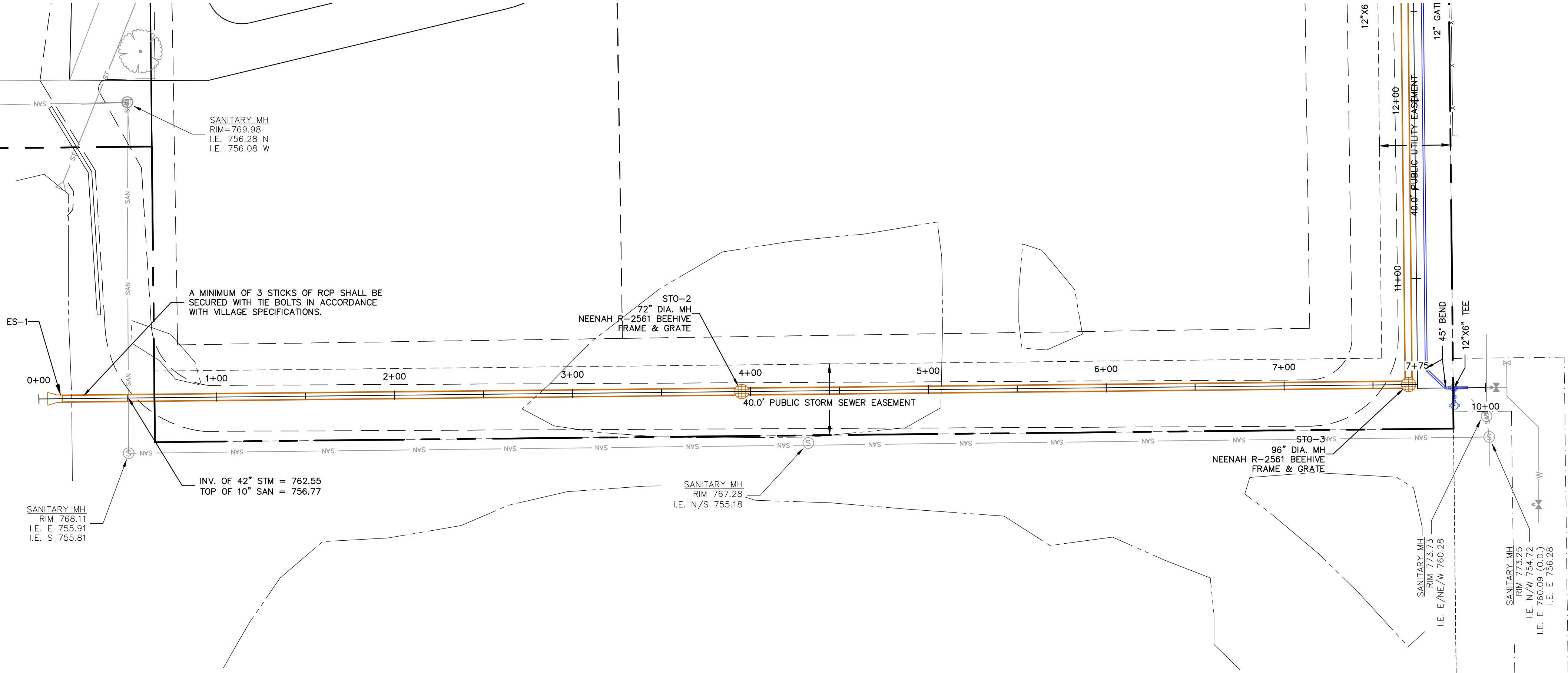
SHEET TITLE:
**SITE PAVING &
UTILITY PLAN**

SHEET NUMBER:
C2.0
JSD PROJECT NO: 18-8537E

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WAUKESHA, WISCONSIN 53188
P. 262.513.0666

CLIENT:



CLIENT ADDRESS:
4300 N. RICHMOND ST.
APPLETON, WI 54913

PROJECT:
CENTRAL STORAGE
& WAREHOUSE
PHASE 2.5

PROJECT LOCATION:
12725 4 MILE ROAD
VILLAGE OF CALEDONIA
RACINE COUNTY, WI 53126

PLAN MODIFICATIONS:		
#	Date:	Description:
1	04-28-2023	VILLAGE SUBMITTAL
2	05-03-2023	ISSUED FOR BID
3	06-30-2023	VILLAGE RESUBMITTAL
4	07-26-2023	VILLAGE RESUBMITTAL
5	08-22-2023	VILLAGE RESUBMITTAL
6	08-29-2023	VILLAGE RESUBMITTAL
7	09-15-2023	ISSUED FOR CONSTRUCTION
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Designed By: JJS (04-14-2023)
Reviewed By: TJB (04-14-2023)
Approved By: TJB (04-14-2023)

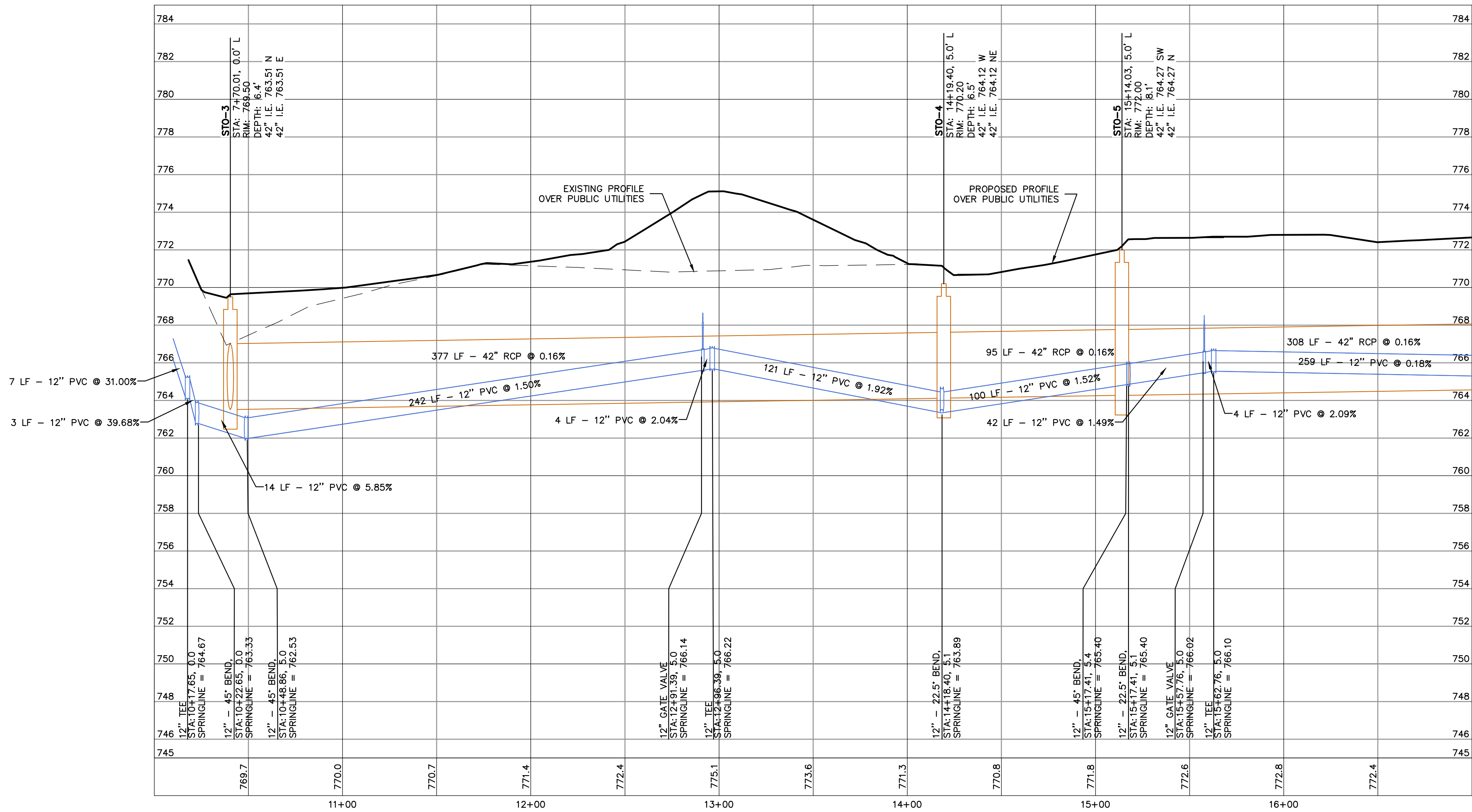
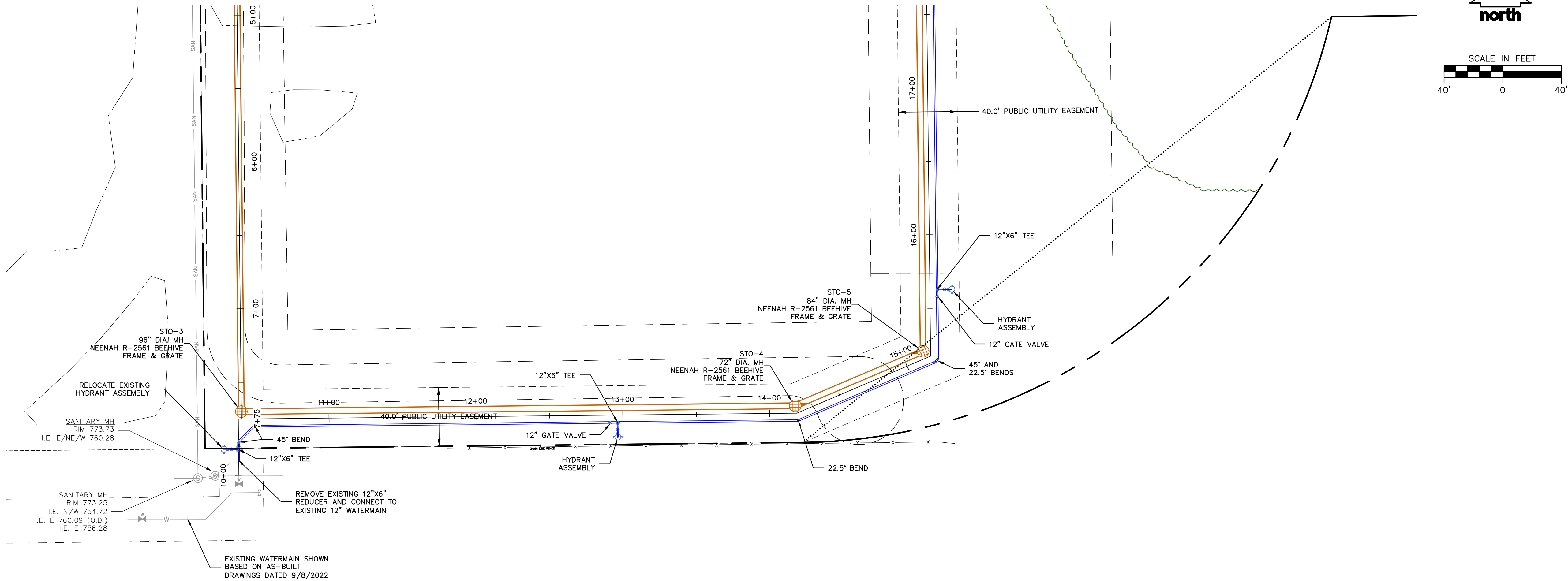
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PUBLIC UTILITY
PLAN & PROFILE

SHEET NUMBER:

C3.0

JSD PROJECT NO: 18-8537E

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PLAN & PROFILE

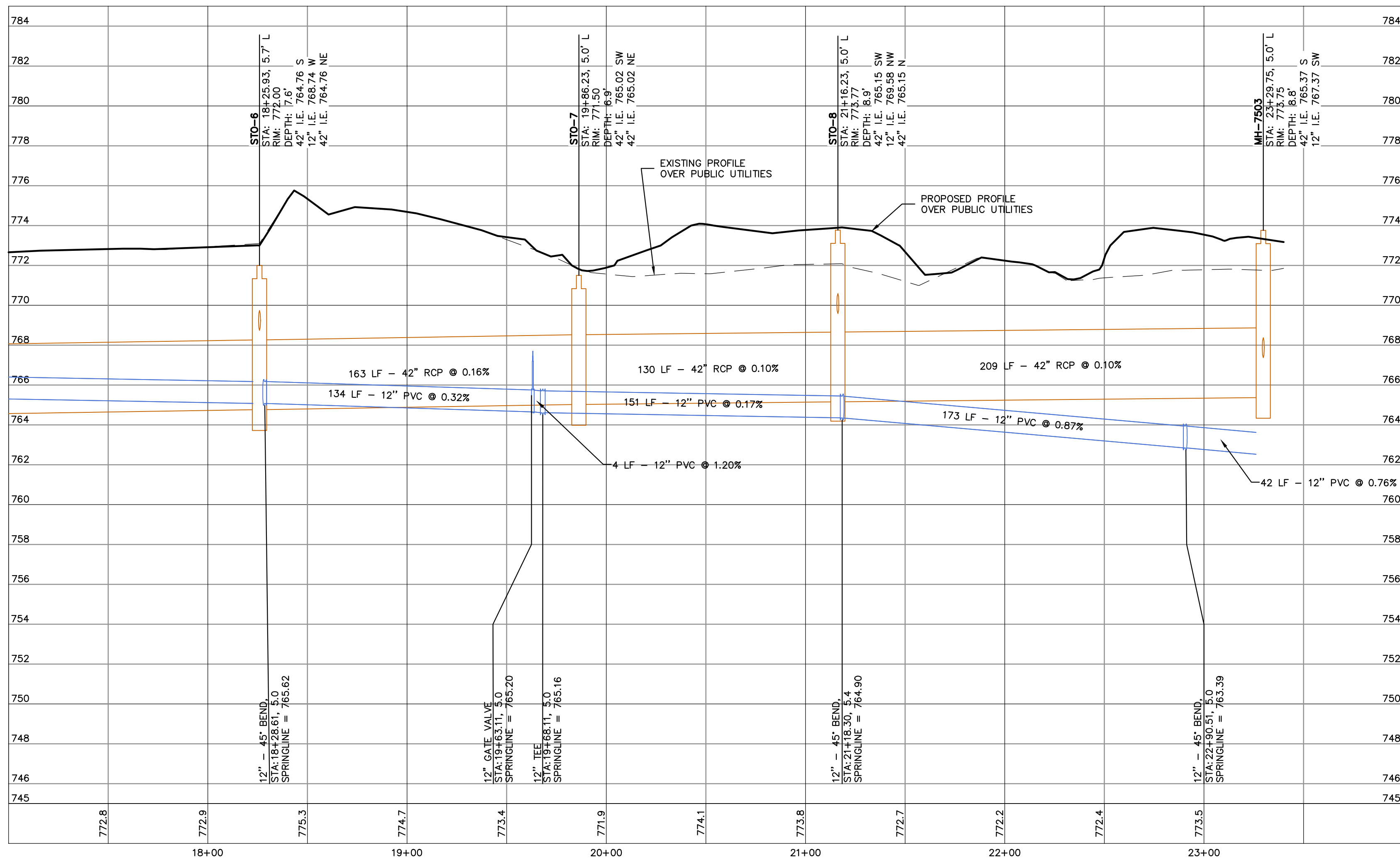
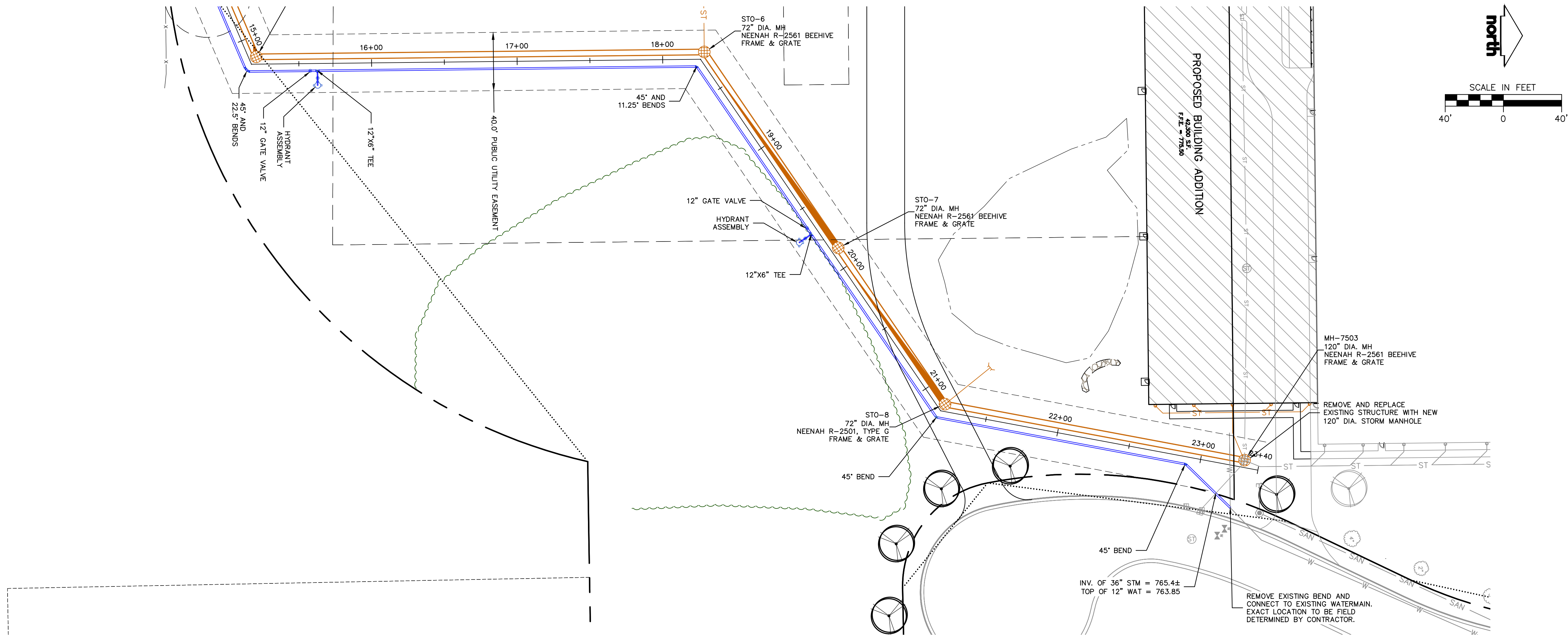
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& WAREHOUSE
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PLAN & PROFILE

SHEET NUMBER:

C3.2

JSD PROJECT NO: 18-8537E

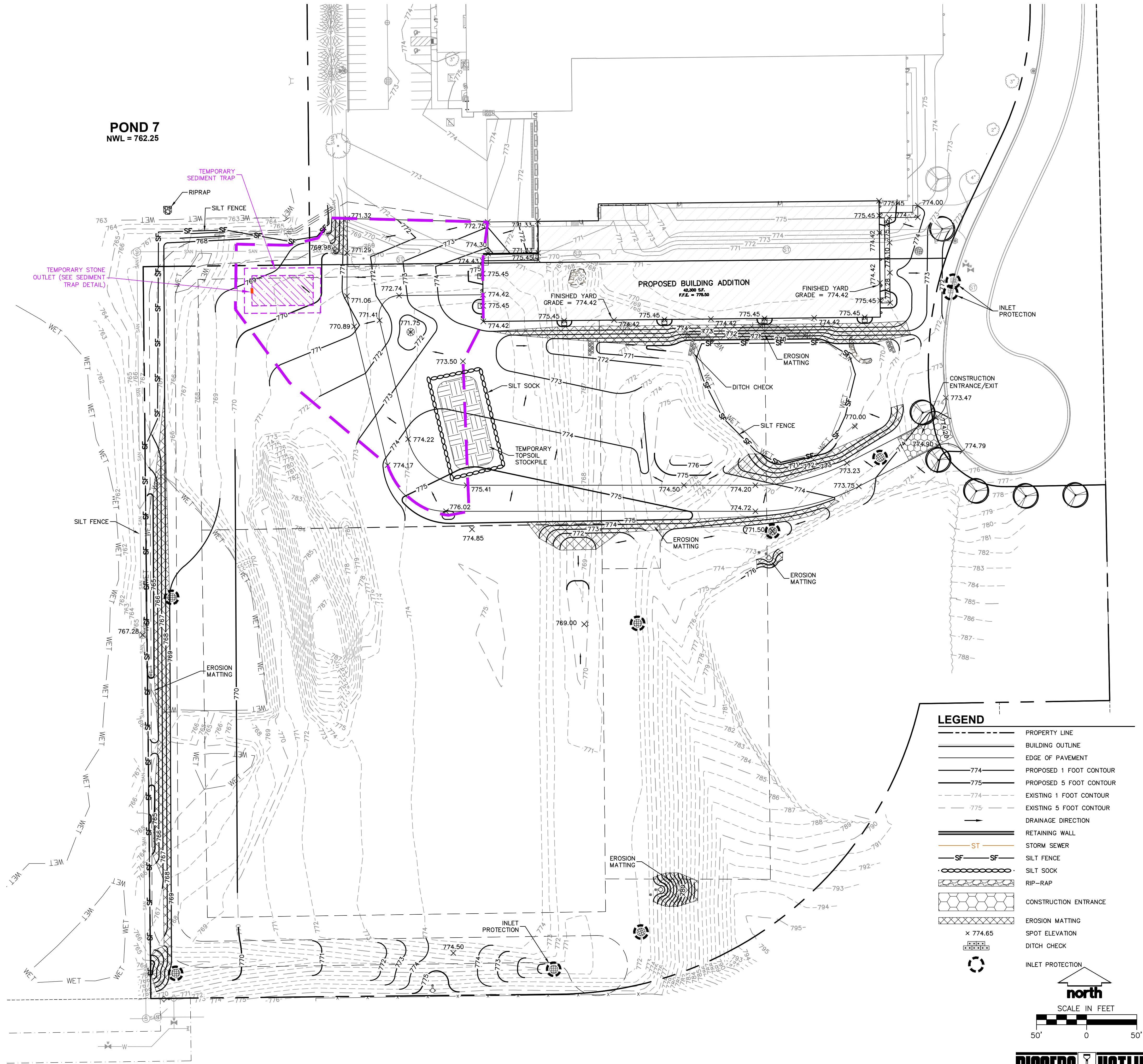
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SEDIMENT TRAP	
DISTURBED CONTRIBUTORY AREA (ACRES)	1.12
MULTIPLIER FOR COARSE TEXTURED SOILS (SILT LOAM)	1560
REQUIRED SURFACE AREA (SQUARE FEET)	1,747
OUTLET WEIR LENGTH	4.0'

NOTES:

1. CONSTRUCT SEDIMENT TRAP IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
2. PRIOR TO FINAL SITE STABILIZATION, OUTLET STRUCTURE SHALL BE REMOVED AND SEDIMENT BASIN RE-GRADED TO ESTABLISH FINAL GRADES AS SHOWN.



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Reviewed By: TJB (04-14-2023)
Approved By: TJB (04-14-2023)

SHEET TITLE:
**SITE GRADING &
EROSION CONTROL PLAN**

SHEET NUMBER:

C4.0

JSD PROJECT NO: 18-8537E

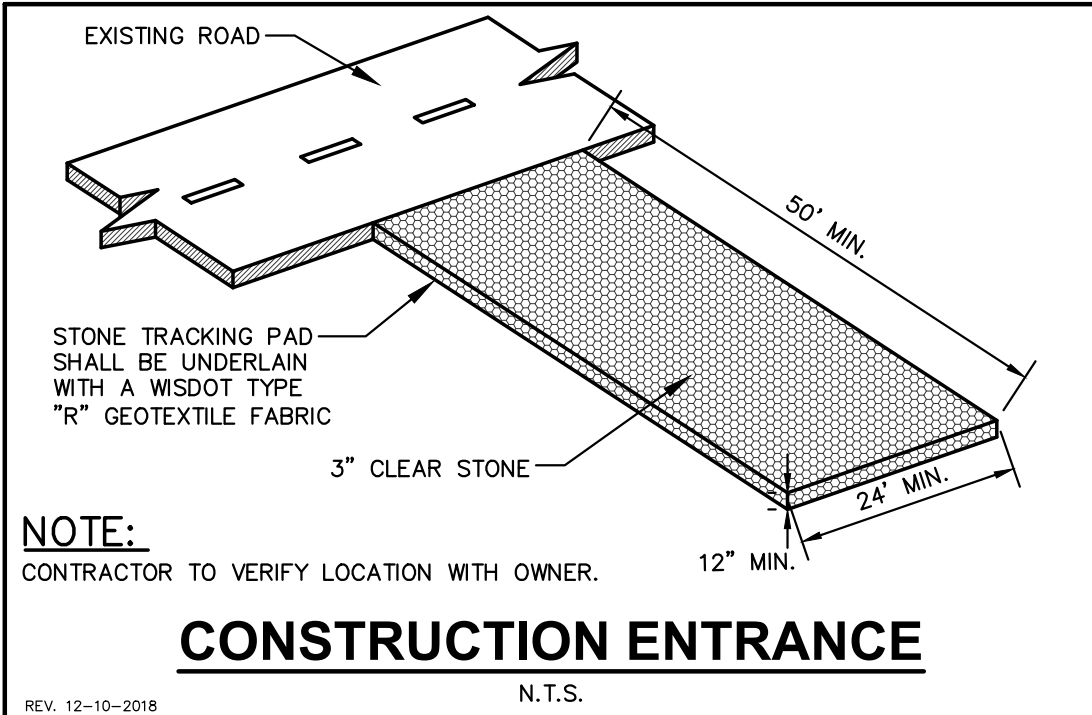
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GENERAL NOTES

1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
2. ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND MUNICIPAL REQUIREMENTS.
3. EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
4. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
5. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.

DEMOLITION NOTES

1. THIS PLAN INDICATES ITEMS ON THE PROPERTY INTENDED FOR DEMOLITION BASED ON THE CURRENT SITE DESIGN THAT HAVE BEEN IDENTIFIED BY A REASONABLE OBSERVATION OF THE EXISTING CONDITIONS THROUGH FIELD SURVEY RECONNAISSANCE, "DIGGER'S HOTLINE" LOCATION, AND GENERAL "STANDARD OF CARE". THERE MAY BE ADDITIONAL ITEMS THAT CAN NOT BE IDENTIFIED BY A REASONABLE ABOVE GROUND OBSERVATION, OF WHICH THE ENGINEER WOULD HAVE NO KNOWLEDGE OR MAY BE A PART OF ANOTHER DESIGN DISCIPLINE. IT IS THE CONTRACTOR'S/BIDDER'S RESPONSIBILITY TO REVIEW THE PLANS, INSPECT THE SITE AND PROVIDE THEIR OWN DUE DILIGENCE TO INCLUDE IN THEIR BID WHAT ADDITIONAL ITEMS, IN THEIR OPINION, MAY BE NECESSARY FOR DEMOLITION. ANY ADDITIONAL ITEMS IDENTIFIED BY THE CONTRACTOR/BIDDER SHALL BE IDENTIFIED IN THE BID AND REPORTED TO THE ENGINEER OF RECORD. JSD TAKES NO RESPONSIBILITY FOR ITEMS ON THE PROPERTY THAT COULD NOT BE LOCATED BY A REASONABLE OBSERVATION OF THE PROPERTY OR OF WHICH THEY WOULD HAVE NO KNOWLEDGE.
2. ALL TREES CALLED OUT TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY AND STUMPS SHALL BE GROUND TO PROPOSED SURGRADE.
3. ABANDONED/REMOVED ITEMS SHALL BE DISPOSED OF OFF SITE UNLESS OTHERWISE NOTED.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:
- 4.1. EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
- 4.2. VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCIES. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCIES ARE RESOLVED.
- 4.3. NOTIFYING ALL UTILITIES PRIOR TO THE REMOVAL OF ANY UNDERGROUND UTILITIES.
- 4.4. NOTIFYING THE DESIGN ENGINEER AND LOCAL CONTROLLING MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION.
5. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF THESE IMPROVEMENTS.
7. CONTRACTOR TO COORDINATE PRIVATE UTILITY REMOVAL / ABANDONMENT AND NECESSARY RELOCATION WITH RESPECTIVE UTILITY COMPANY. COORDINATION REQUIRED PRIOR TO CONSTRUCTION.
8. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH THE APPROVED MUNICIPALITY RECYCLING PLAN.
9. ANY CONTAMINATED SOILS SHALL BE REMOVED IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS TO AN APPROVED LANDFILL.
10. ALL EXISTING UTILITIES TO BE FIELD LOCATED AND FLAGGED BY CONTRACTOR.
11. ALL PERIMETER EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF DEMOLITION ACTIVITIES. CONTRACTOR SHALL KEEP ALL STREETS AND PAVEMENT FREE AND CLEAR OF ALL CONSTRUCTION RELATED DIRT, DUST AND DEBRIS.



PAVING NOTES

1. GENERAL
- 1.1. ALL PAVING SHALL CONFORM TO "STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION", LATEST EDITION, APPLICABLE VILLAGE OF CALEDONIA ORDINANCES.
- 1.2. SURFACE PREPARATION – NOTIFY ENGINEER/OWNER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
2. ASPHALTIC CONCRETE PAVING SPECIFICATIONS
- 2.1. CODES AND STANDARDS – THE PLACING, CONSTRUCTION AND COMPOSITION OF THE ASPHALTIC BASE COURSE AND ASPHALTIC CONCRETE SURFACE COURSE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460 AND 465 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. HEREAFTER, THIS PUBLICATION WILL BE REFERRED TO AS STATE HIGHWAY SPECIFICATIONS.
- 2.2. WEATHER LIMITATIONS – APPLY TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50° F (10° C) AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35° F (1° C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS EXCESS OF MOISTURE. REQUIREMENTS OF SECTIONS 450, 455, 460 AND 465 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. HEREAFTER, THIS PUBLICATION WILL BE REFERRED TO AS STATE HIGHWAY SPECIFICATIONS.
- 2.3. GRADE CONTROL – ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS FOR EACH COURSE DURING CONSTRUCTION.
- 2.4. CRUSHED AGGREGATE BASE COURSE – THE TOP LAYER OF BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS.
- 2.5. BINDER COURSE AGGREGATE – THE AGGREGATE FOR THE BINDER COURSE SHALL CONFORM TO SECTIONS 460 AND 315, STATE HIGHWAY SPECIFICATIONS.
- 2.6. SURFACE COURSE AGGREGATE – THE AGGREGATE FOR THE SURFACE COURSE SHALL CONFORM TO SECTIONS 460 AND 465, STATE HIGHWAY SPECIFICATIONS.
- 2.7. ASPHALTIC MATERIALS – THE ASPHALTIC MATERIALS SHALL CONFORM TO SECTION 455 AND 460, STATE HIGHWAY SPECIFICATIONS.
3. CONCRETE PAVING SPECIFICATIONS
- 3.1. CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.
- 3.2. CONCRETE PAVEMENT SHALL BE REINFORCED WITH NOVOMESH 950 (OR EQUAL) FIBER REINFORCEMENT AT A RATE OF 5 LBS/CUBIC YARD.
- 3.3. CURING COMPOUNDS SHALL CONFORM TO SECTION 415 OF THE STATE HIGHWAY SPECIFICATIONS.
- 3.4. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER.
- 3.5. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER.
- 3.6. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
- 3.7. ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-280V CONCRETE SEALANT.

GRADING AND SEEDING NOTES

1. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES. WHILE JSD PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
3. ANY WORK WITHIN RIGHT-OF-WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.
4. CONTRACTOR SHALL PROVIDE NOTICE TO THE MUNICIPALITY IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
5. ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES.
6. CONTRACTOR SHALL WATER ALL NEWLY SODDED/SEEDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
7. CONTRACTOR TO DEEP TILL ALL COMPACTED PVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING.
8. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.
9. ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 30 DAYS AND REQUIRE VEGETATIVE COVER WITHIN LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND VILLAGE OF CALEDONIA ORDINANCE.

UTILITY NOTES

1. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.
2. PRIOR TO CONSTRUCTION, THE PRIME CONTRACTOR IS RESPONSIBLE FOR:
- EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
 - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
 - VERIFYING ALL ELEVATIONS, LOCATIONS AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
 - NOTIFYING ALL UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
 - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
 - COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
3. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN – AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.
4. SPECIFICATIONS SHALL COMPLY WITH THE VILLAGE OF CALEDONIA SPECIAL PROVISIONS.
5. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
6. CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.
7. CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT ALL UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS AFFECTED BY THE CONSTRUCTION.
8. THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
9. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
11. STORM SEWER SPECIFICATIONS –

PIPE – REINFORCED CONCRETE PIPE (RCP) SHALL MEET THE REQUIREMENTS OF ASTM CLASS III (MINIMUM) C-76 WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C-443. HIGH DENSITY DUAL-WALL POLYETHYLENE CORRUGATED PIPE AS MANUFACTURED BY ADS OR EQUAL WITH WATER TIGHT JOINTS, AND SHALL MEET THE REQUIREMENTS OF ASHTO DESIGNATION M-294. TYPE "S".

INLETS – STORM INLETS IN PAVED AREAS SHALL BE NEENAH R-2501, TYPE G FRAME AND GRATE, OR APPROVED EQUAL. INLETS IN LANDSCAPED AREAS SHALL BE NEENAH R-2561 BEEHIVE FRAME AND GRATE, OR APPROVED EQUAL. TRENCH DRAIN SHALL BE ACO S300K POWERDRAIN, OR APPROVED EQUAL.

BACKFILL AND BEDDING – STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS "B" BEDDING IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.4.3.5 OF THE "STANDARD SPECIFICATIONS".

ROOF LEADER/STORM DRAIN LINES – ALL ROOF LEADERS/STORM DRAIN LINES ENCOUNTERED WHICH ARE NOT SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF JSD PRIOR TO ABANDONMENT, REMOVAL, OR CONNECTION TO THE PROPOSED STORM SEWER SYSTEM.

FIELD TILE CONNECTION – ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE(S) FOR STORM SEWER. TILE LINES CROSSED BY THE TRENCH SHALL BE REPLACED WITH THE SAME MATERIAL AS THE STORM SEWER.

12. WATER MAIN SPECIFICATIONS –

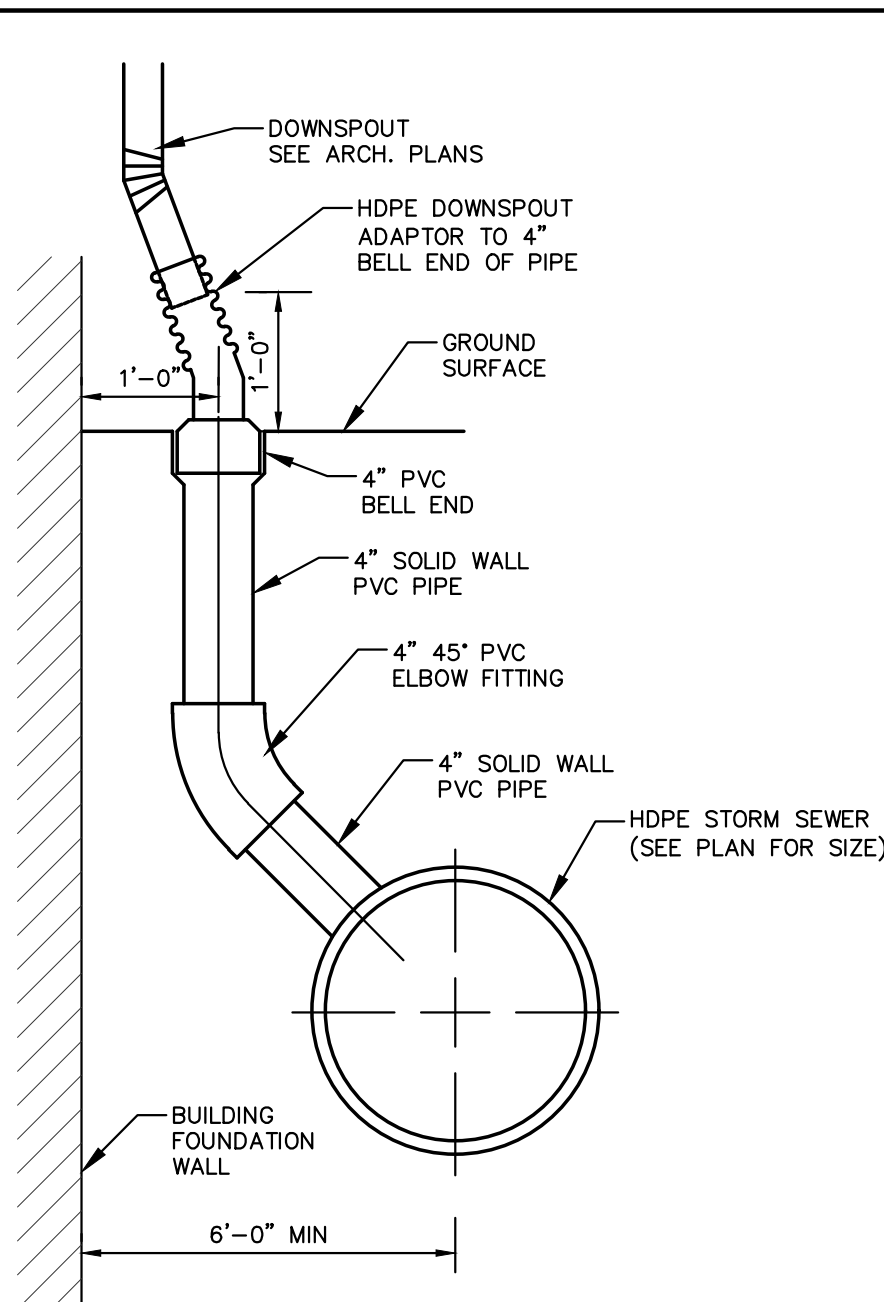
PIPE – POLYVINYL CHLORIDE (PVC) PIPE SHALL MEET THE REQUIREMENTS OF AWWA STANDARD C-300, CLASS 150, DR-18, WITH CAST IRON G.D. AND INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS. NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH BLUE INSULATION TRACER WIRE AND CONFORM WITH SPS 382.30(11)(h).

VALVES AND VALVE BOXES – GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C-500 AND CHAPTER 8.2.7.0 OF THE "STANDARD SPECIFICATIONS". GATE VALVES AND VALVE BOXES SHALL CONFORM TO LOCAL PLUMBING ORDINANCES.

HYDRANTS – HYDRANTS SHALL CONFORM TO THE SPECIFICATIONS OF THE VILLAGE OF CALEDONIA (SEE DETAIL).

BEDDING AND COVER MATERIAL – PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.4.3.2 OF THE "STANDARD SPECIFICATIONS".

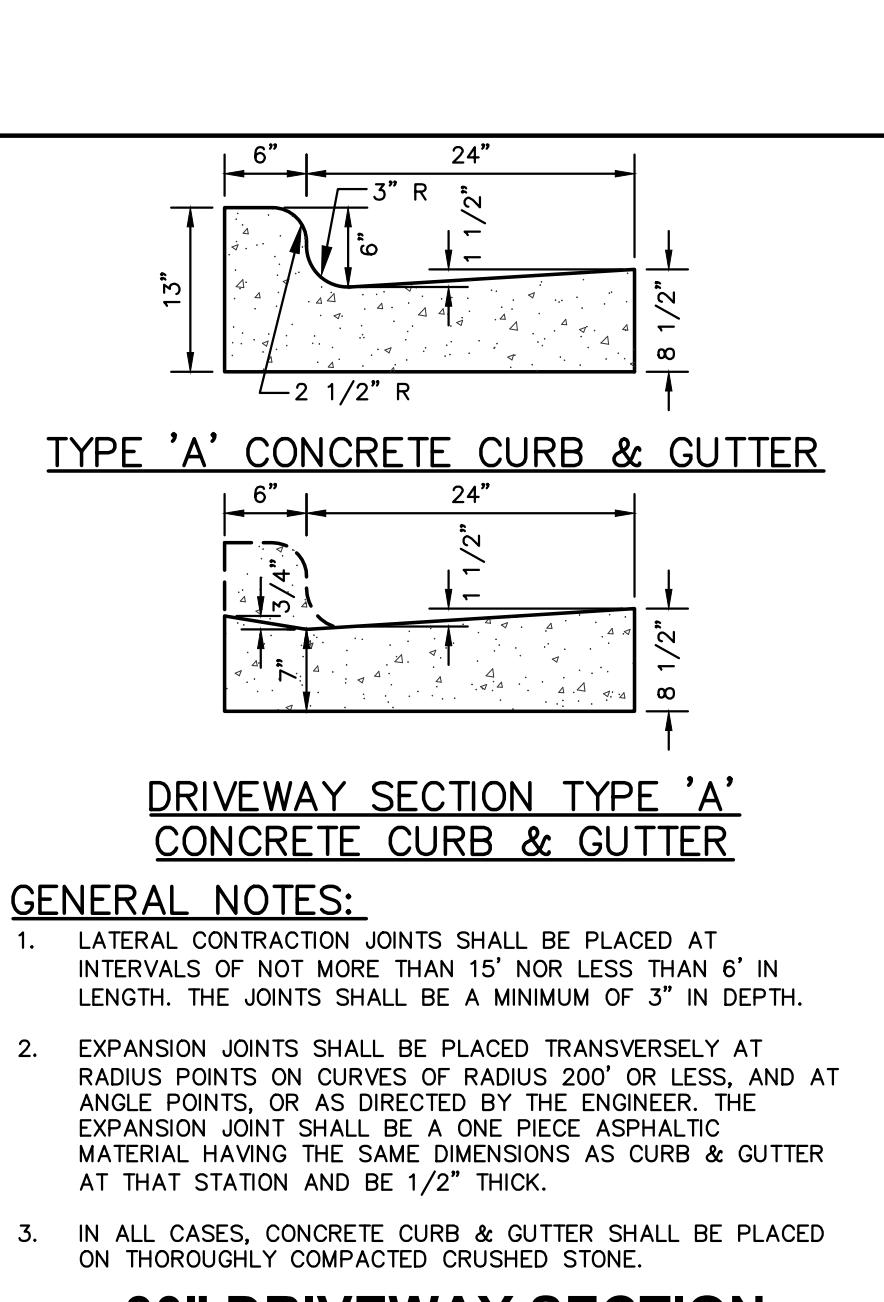
BACKFILL – BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS". GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.4.3.5 OF THE "STANDARD SPECIFICATIONS".



DOWNSPOUT

N.T.S.

REV. 12-7-2018



30" DRIVEWAY SECTION CURB & GUTTER

N.T.S.

REV. 11-20-2018

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL PLAN. ENGINEER OF RECORD AND APPROPRIATE VILLAGE OF CALEDONIA OFFICIALS MUST APPROVE ANY CHANGES PRIOR TO DEVIATION FROM THE APPROVED PLANS.
2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND VILLAGE OF CALEDONIA ORDINANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORESEEN FIELD CONDITIONS.
3. INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCE, INLET PROTECTION, AND SILT FENCE) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER. AS SHOWN ON PLAN. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL DESIGN MODIFICATIONS MUST BE APPROVED BY THE VILLAGE OF CALEDONIA PRIOR TO DEVIATION OF THE APPROVED PLAN.
4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, COUNTY INSPECTORS AND/OR ENGINEER OF RECORD SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
5. INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.
6. ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5 INCHES. ANY DAMAGED EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY UPON INSPECTION.
7. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. ADDITIONAL LOCATIONS OTHER THAN AS SHOWN ON THE PLANS MUST BE PRIOR APPROVED BY THE MUNICIPALITY. CONSTRUCTION ENTRANCES SHALL BE 50' LONG AND NO LESS THAN 12" THICK BY OF 3" CLEAR STONE. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED.
8. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEP AND/OR SCRAPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AFTER THE END OF EACH WORK DAY AND AS REQUESTED BY THE VILLAGE OF CALEDONIA.
9. INLET PROTECTION SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER AND SILT FENCE SHALL BE IMMEDIATELY FITTED AT ALL INSTALLED CULVERT INLETS TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS.
10. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES. IF STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES IS REQUIRED. IF DISTURBANCE OCCURS BETWEEN NOVEMBER 15TH AND MAY 15TH, THE MULCHING SHALL BE PERFORMED BY HYDRO-MULCHING WITH A "TACKIFIER".
11. DITCH CHECKS AND APPLICABLE EROSION NETTING/MATTING SHALL BE INSTALLED IMMEDIATELY AFTER COMPLETION OF GRADING EFFORTS WITHIN DITCHES/SWALES TO PREVENT SOIL TRANSPORTATION.
12. EROSION CONTROL FOR UTILITY CONSTRUCTION:
- A. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
- B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
- C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE DEWATERING TECHNICAL STANDARD NO. 1061 PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM, OR DRAINAGE DITCH.
13. ALL SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING OR APPLICATION OF A WISCONSIN DEPARTMENT OF TRANSPORTATION (WisDOT) APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED WITHIN 7 DAYS OF REACHING FINAL GRADE AND/OR AS SOON AS CONDITIONS ALLOW. DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE B EROSION MATTING. EROSION MATTING AND/OR NETTING USED ONSITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052 AND 1053.
14. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068.
15. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY AT THE SITE HAS BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DESIRED LEVEL OF AT LEAST 70% FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT PERMANENT STABILIZATION MEASURES.
16. CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON COMPLETION OF THE PROJECT IN ACCORDANCE WITH WDNR REQUIREMENTS AND/OR PROPERTY SALE IN ACCORDANCE WITH WDNR REQUIREMENTS.
17. STABILIZATION PRACTICES:
- 17.1. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED UNLESS:
- 17.2. THE INITIATION STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS CEASED IS PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.
- 17.3. CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITY CEASED, (I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN FOURTEEN (14) DAYS. IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED.
- 17.4. STABILIZATION MEASURES SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME OF CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE. THE FOLLOWING ARE ACCEPTABLE STABILIZATION MEASURES:
- PERMANENT SEEDING; IN ACCORDANCE WITH APPROVED CONSTRUCTION SPECIFICATION
 - TEMPORARY SEEDING, MAY CONSIST OF SPRING OATS(100LBS/ACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 - HYDRO-MULCHING WITH A TACKIFIER
 - GEOTEXTILE EROSION MATTING
 - SODDING

CONSTRUCTION SEQUENCING

1. INSTALL PERIMETER SILT FENCE, INLET PROTECTION, AND TEMPORARY CONSTRUCTION ENTRANCE.
2. CONDUCT DEMOLITION OF PAVEMENTS AND OTHER SITE FEATURES.
3. STRIP AND STOCKPILE TOPSOIL, INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE.
4. CONDUCT ROUGH GRADING EFFORTS AND INSTALL CHECK DAMS WITHIN DRAINAGE DITCHES AS NEEDED.
5. CONSTRUCT BUILDING FOOTINGS.
6. INSTALL UTILITY PIPING AND STRUCTURES, IMMEDIATELY INSTALL INLET PROTECTION.
7. COMPLETE FINAL GRADING, INSTALLATION OF GRAVEL BASE COURSES, PLACEMENT OF PAVEMENTS, ETC.
8. PLACE TOPSOIL AND IMMEDIATELY STABILIZE DISTURBED AREAS WITH EROSION CONTROL MEASURES AS INDICATED ON PLANS.

EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% VEGETATIVE COVER IS ESTABLISHED.

CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM NO. 1 AS NEEDED TO COMPLETE CONSTRUCTION IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS.

CREATE THE VISION TELL THE STORY

jsdinc.com

MILWAUKEE REGIONAL OFFICE
W238 N1610 BUSSE ROAD, SUITE 100
WAUKESHA, WISCONSIN 53188
P. 262.513.0666

CLIENT:

CONSOLIDATED CONSTRUCTION Co.

CLIENT ADDRESS:
4300 N. RICHMOND ST.
APPLETON, WI 54913

PROJECT:
CENTRAL STORAGE & WAREHOUSE
PHASE 2.5

PROJECT LOCATION:
12725 4 MILE ROAD
VILLAGE OF CALEDONIA
RACINE COUNTY, WI 53126

PLAN MODIFICATIONS:

#	Date:	Description:
1	04-28-2023	VILLAGE SUBMITTAL
2	05-03-2023	ISSUED FOR BID
3	06-30-2023	VILLAGE RESUBMITTAL
4	07-26-2023	VILLAGE RESUBMITTAL
5	08-22-2023	VILLAGE RESUBMITTAL
6	08-29-2023	VILLAGE RESUBMITTAL
7	09-15-2023	ISSUED FOR CONSTRUCTION
8		
9		
10		
11		
12		
13		
14		
15		

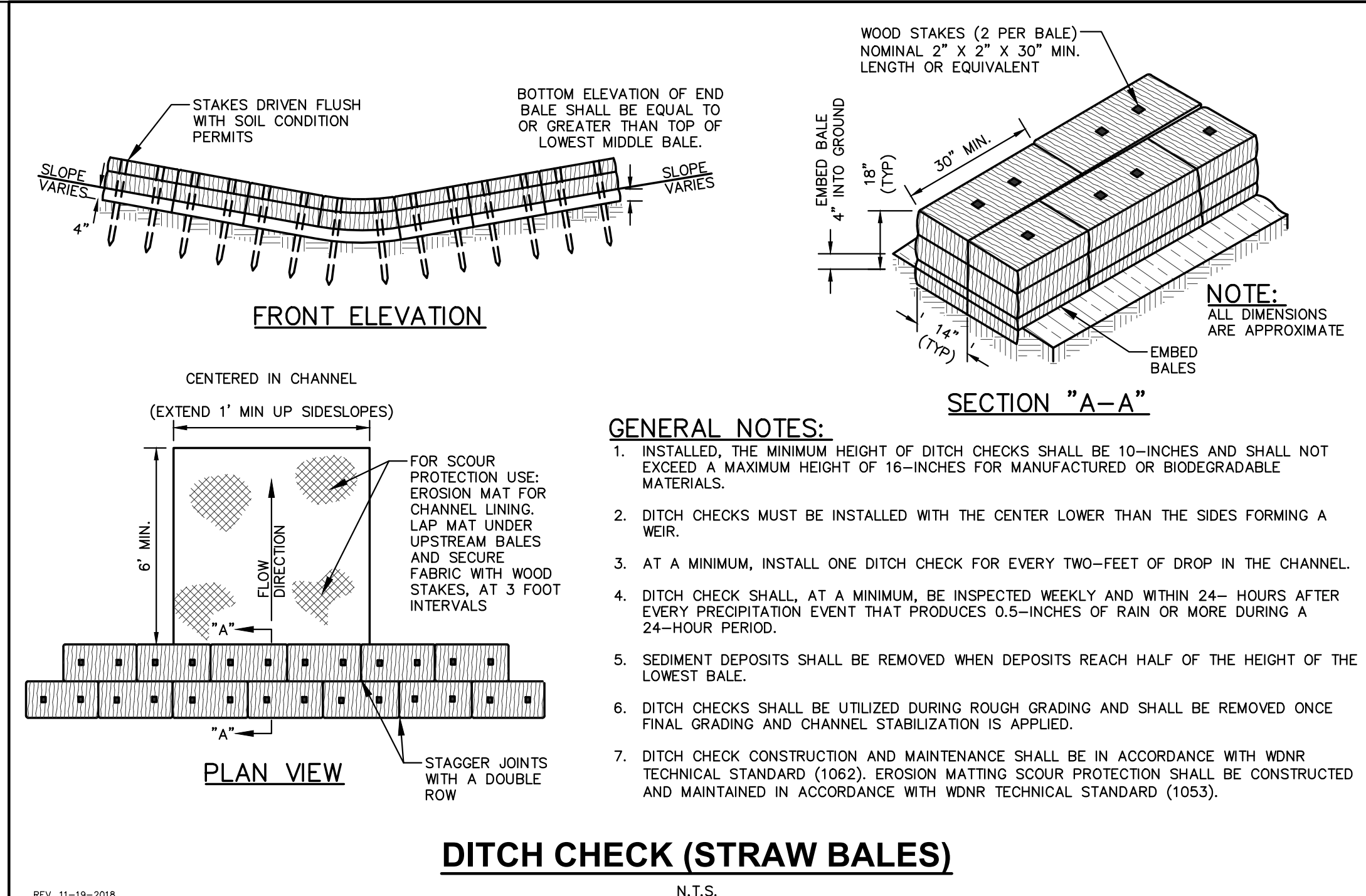
Designed By: JJS (04-14-2023)
Reviewed By: TJB (04-14-2023)
Approved By: TJB (04-14-2023)

SHEET TITLE:
NOTES & DETAILS

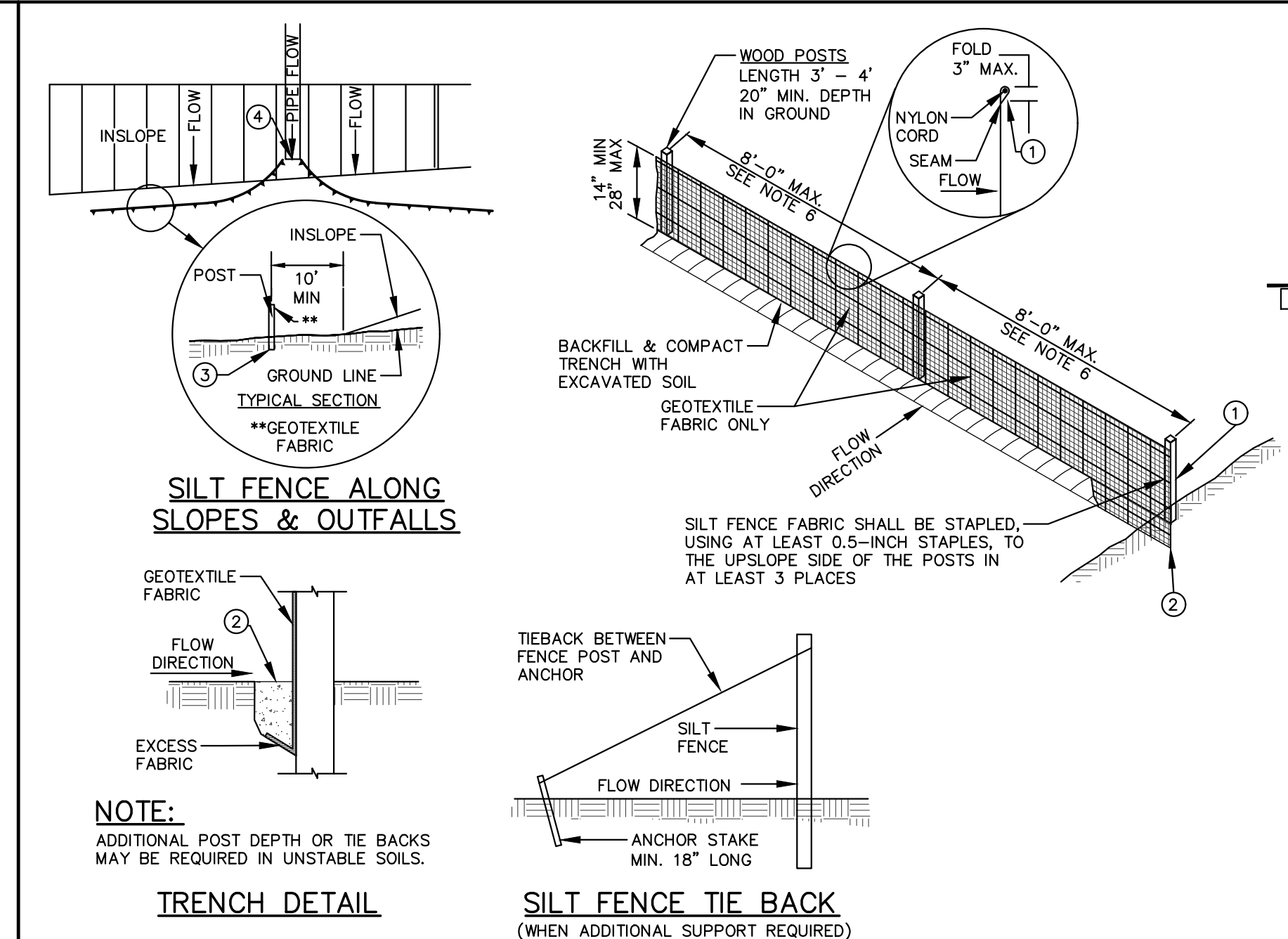
SHEET NUMBER:
C5.0

JSD PROJECT NO: 18-8537E

Toll Free (800) 242-8511



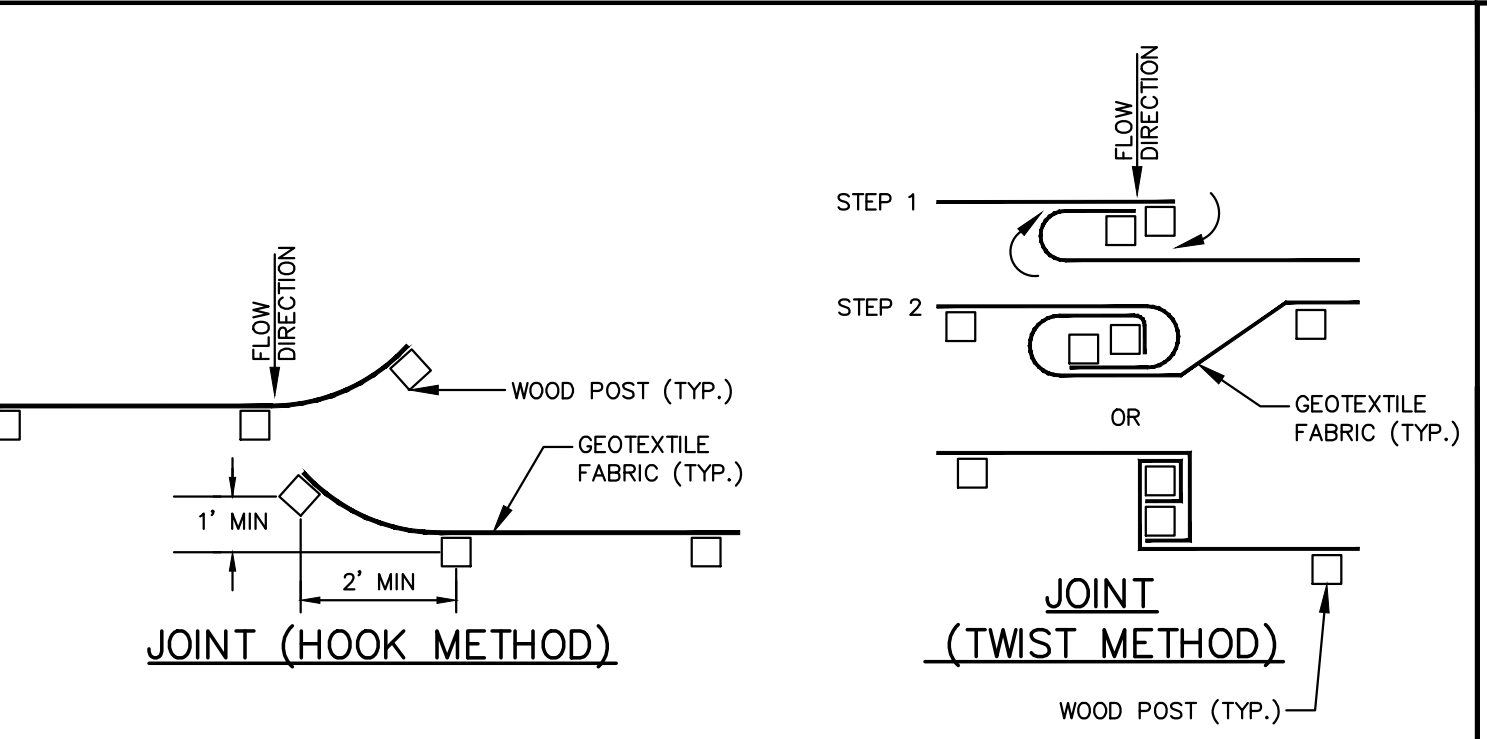
- GENERAL NOTES:**
1. INSTALLED, THE MINIMUM HEIGHT OF DITCH CHECKS SHALL BE 10-INCHES AND SHALL NOT EXCEED A MAXIMUM HEIGHT OF 16-INCHES FOR MANUFACTURED OR BIODEGRADABLE MATERIALS.
 2. DITCH CHECKS MUST BE INSTALLED WITH THE CENTER LOWER THAN THE SIDES FORMING A WEIR.
 3. AT A MINIMUM, INSTALL ONE DITCH CHECK FOR EVERY TWO-FOOT OF DROP IN THE CHANNEL.
 4. DITCH CHECK SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24- HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5-INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
 5. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH HALF OF THE HEIGHT OF THE LOWEST BALE.
 6. DITCH CHECKS SHALL BE UTILIZED DURING ROUGH GRADING AND SHALL BE REMOVED ONCE FINAL GRADING AND CHANNEL STABILIZATION IS APPLIED.
 7. DITCH CHECK CONSTRUCTION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH WDNr TECHNICAL STANDARD (1062). EROSION MATTING SCOUR PROTECTION SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH WDNr TECHNICAL STANDARD (1053).



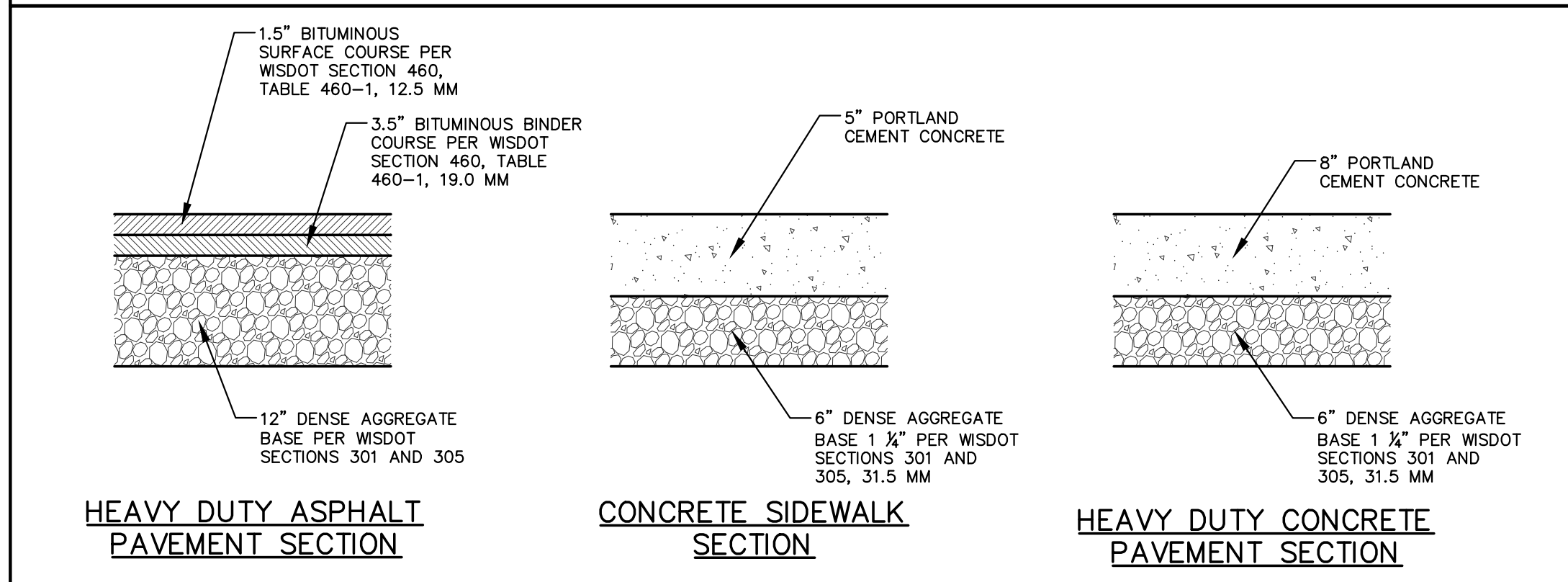
SILT FENCE ALONG SLOPES & OUTFALLS

TRENCH DETAIL

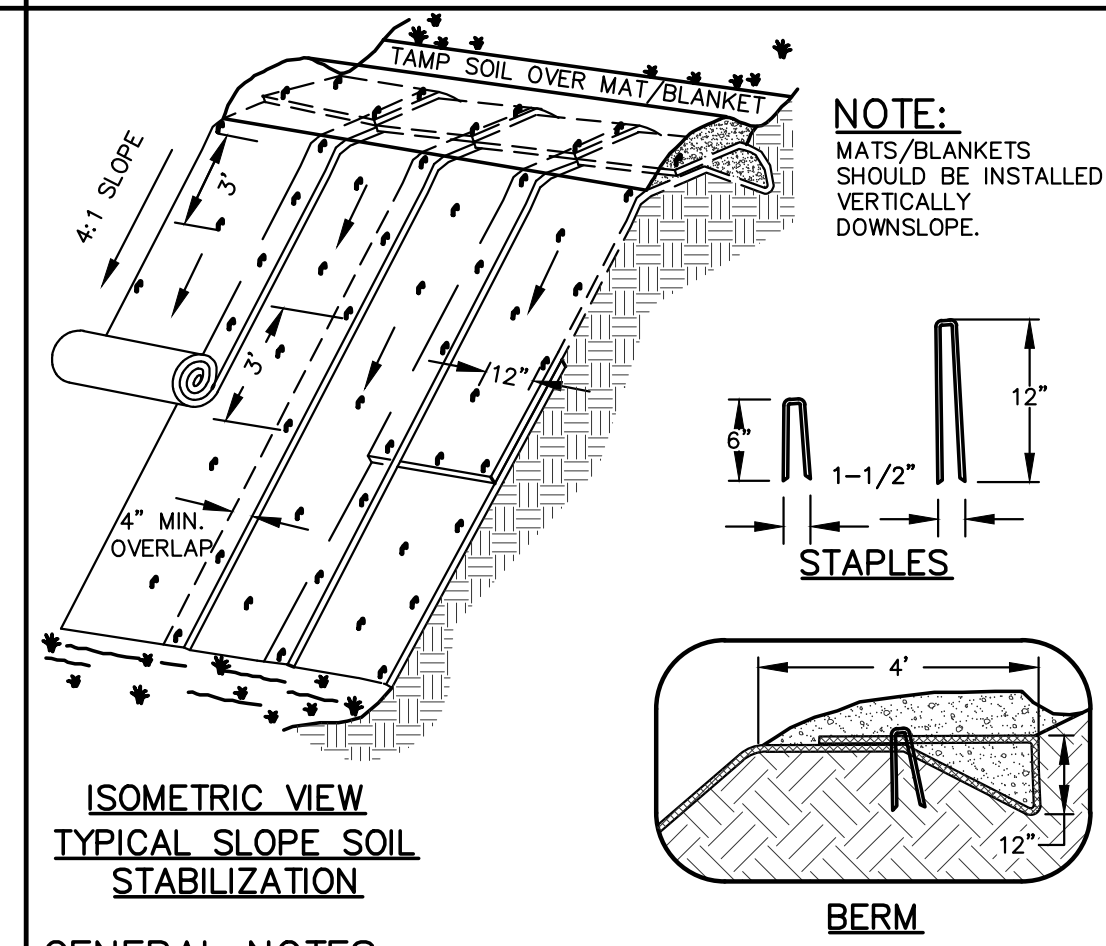
SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)



- GENERAL NOTES:**
1. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8-INCHES OF FABRIC IN A 4-INCH WIDE AND 6-INCH DEEP TRENCH OR 6-INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCHES SHALL NOT BE EXCAVATED WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
 2. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
 3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.125-INCHES x 1.125-INCHES OF DRIED OAK OR HICKORY.
 4. SILT FENCE TO EXTEND ABOVE THE TOP OF PIPE.
 5. SILT FENCE CONSTRUCTION AND GEOTEXTILE FABRIC SHALL CONFORM TO WDNr TECHNICAL STANDARD 1056.
 6. POST SPACING SHALL BE SELECTED BASED ON GEOTEXTILE FABRIC (8- FEET FOR WOVEN & 3- FEET FOR NON-WOVEN)



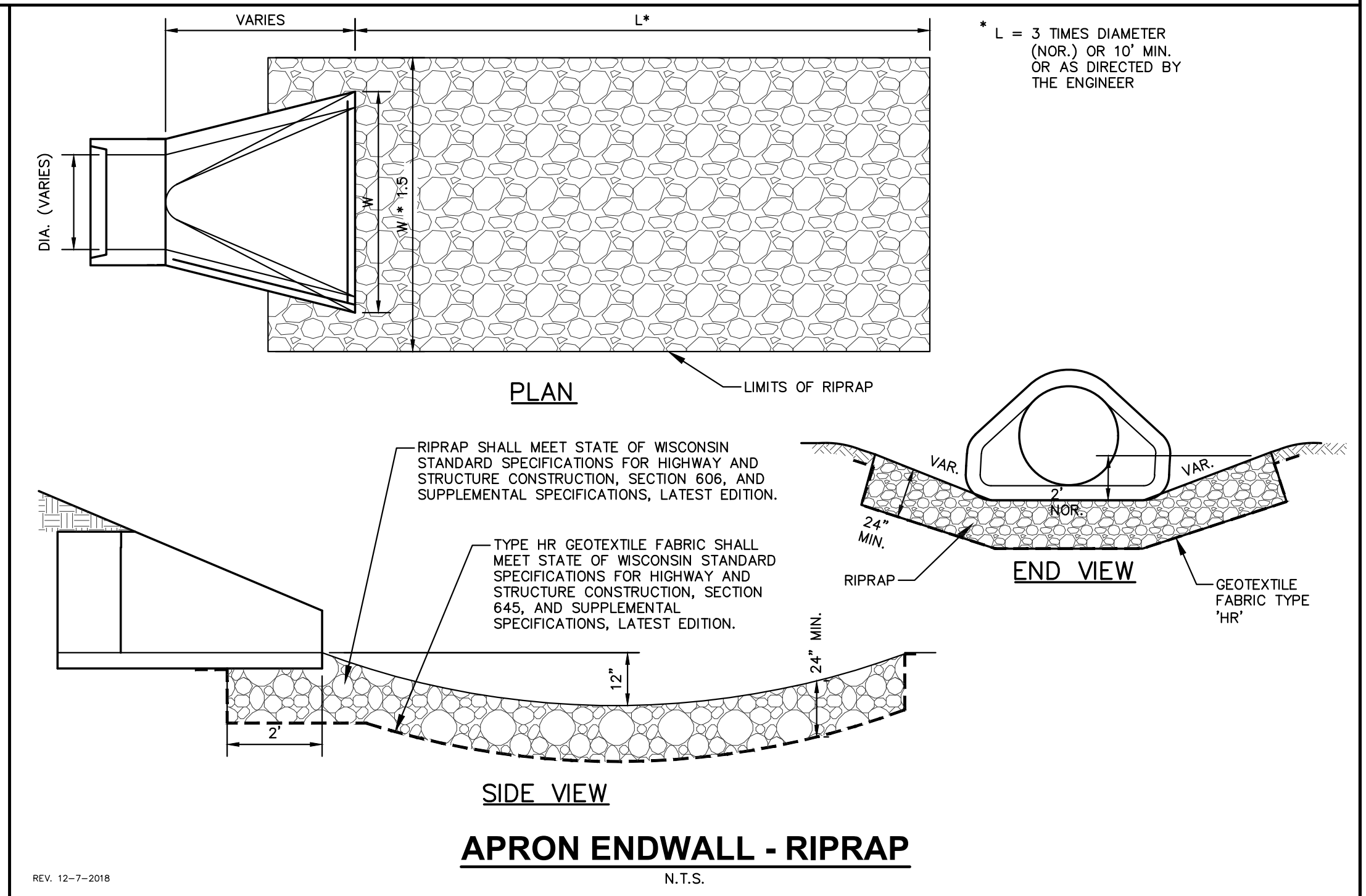
- GENERAL NOTES:**
1. PAVEMENT SECTIONS ARE MINIMUM THICKNESS BASED ON SIMILAR PROJECTS WITH SIMILAR EXPECTED TRAFFIC LOADING. JSD CANNOT GUARANTEE PERFORMANCE AND/OR LIFE EXPECTANCY OF PROPOSED PAVEMENT DESIGN.
 2. REFER TO GEOTECHNICAL ENGINEER OF RECORD FOR PAVEMENT RECOMMENDATIONS.
 3. WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, INCLUDING SUPPLEMENTAL SPECIFICATIONS, COMPACTION REQUIREMENTS:
 - BITUMINOUS CONCRETE: REFER TO SECTION 460-3.
 - BASE COURSE: REFER TO SECTION 301.3.4.2, STANDARD COMPACTION.
 4. CONCRETE EQUIPMENT PADS SHALL HAVE A MINIMUM 5" THICK PORTLAND CEMENT CONCRETE OVER COMPACTED 6" THICK DENSE GRADED BASE WITH REINFORCEMENT FOR CRACK CONTROL.



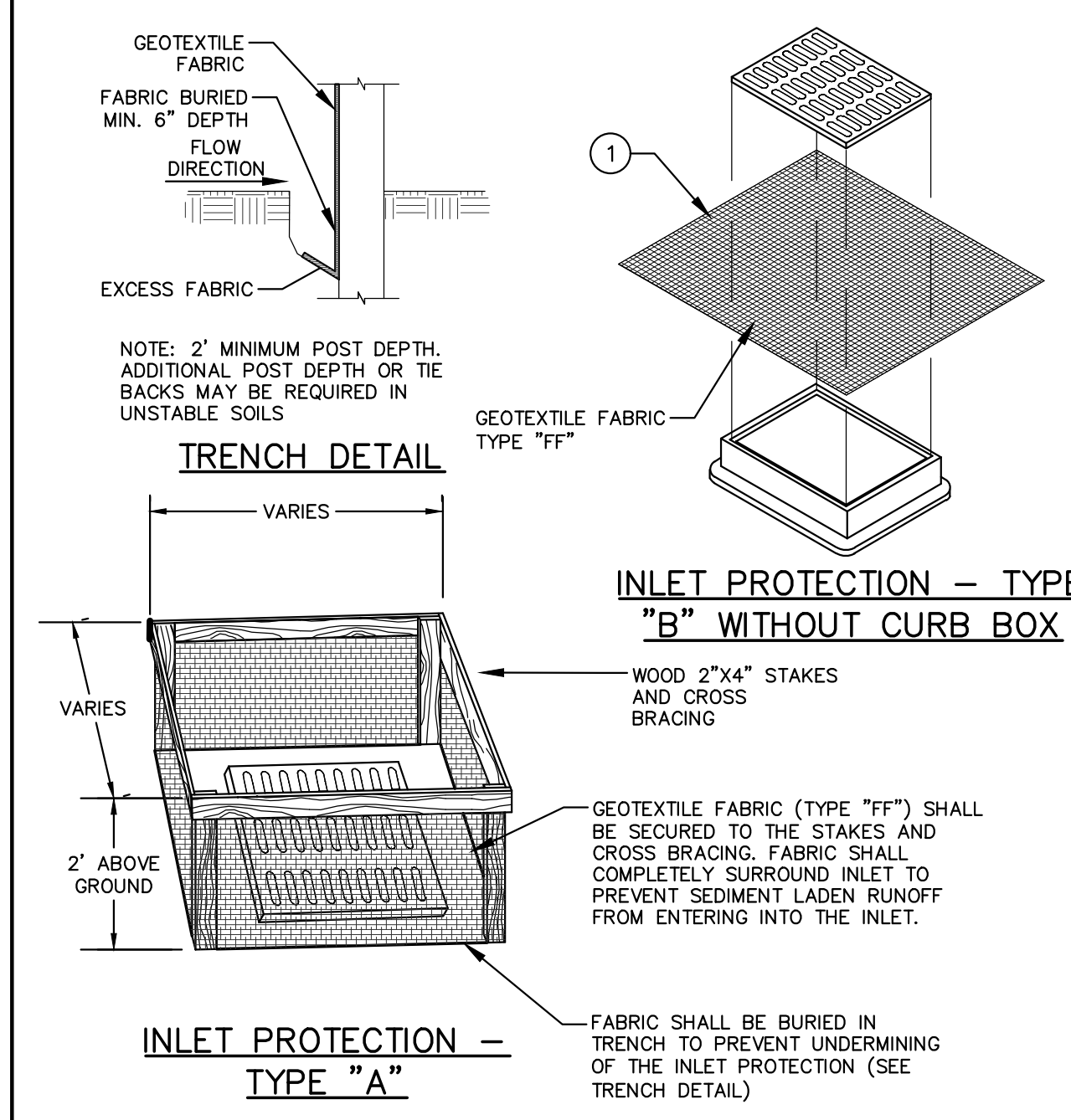
**ISOMETRIC VIEW
TYPICAL SLOPE SOIL
STABILIZATION**

- GENERAL NOTES:**
1. EROSION MAT CONSTRUCTION SHALL BE IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1052 "NON-CHANNEL EROSION MAT".
 2. ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.
 3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
 5. ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.

EROSION MATTING



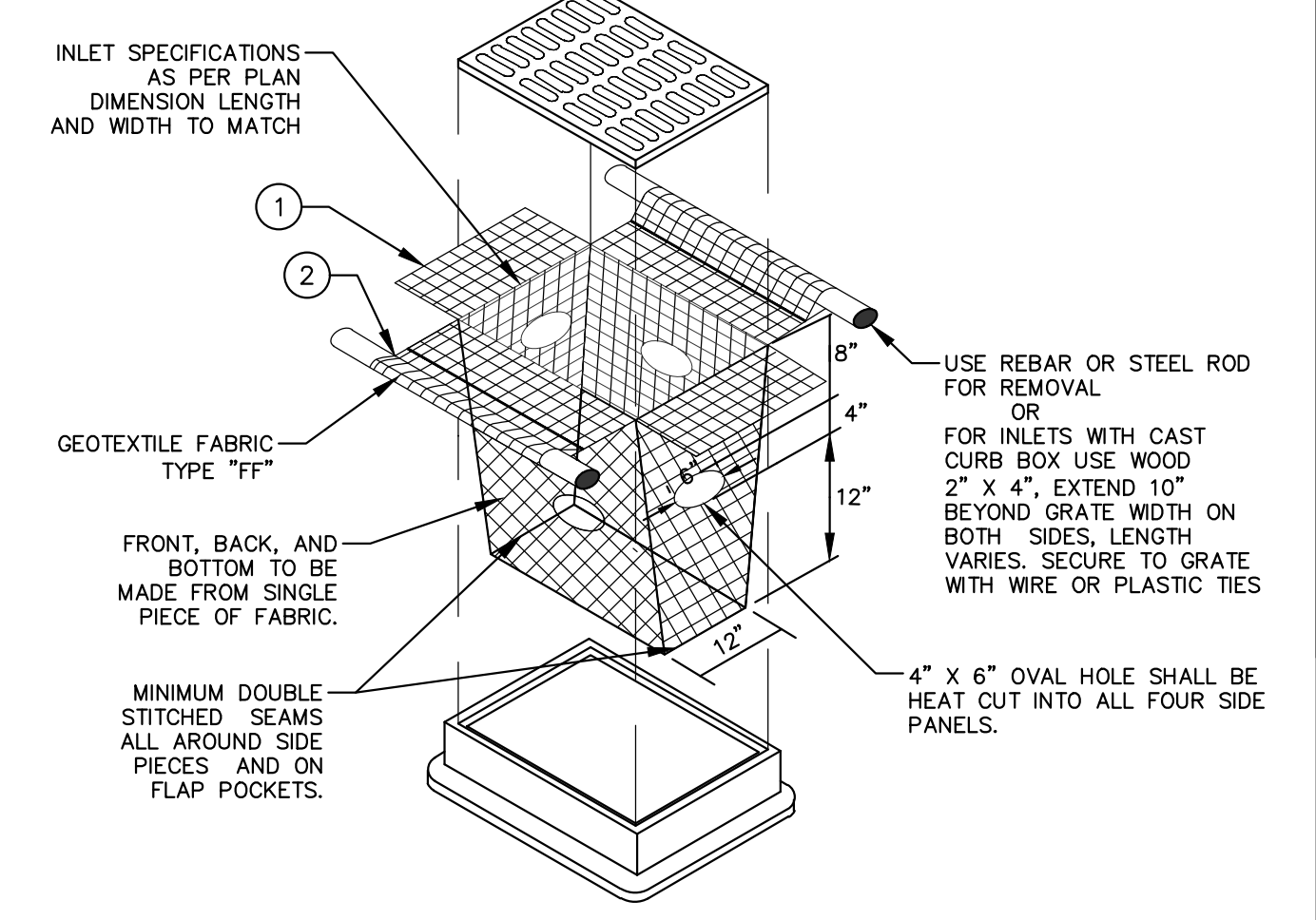
APRON ENDWALL - RIPRAP



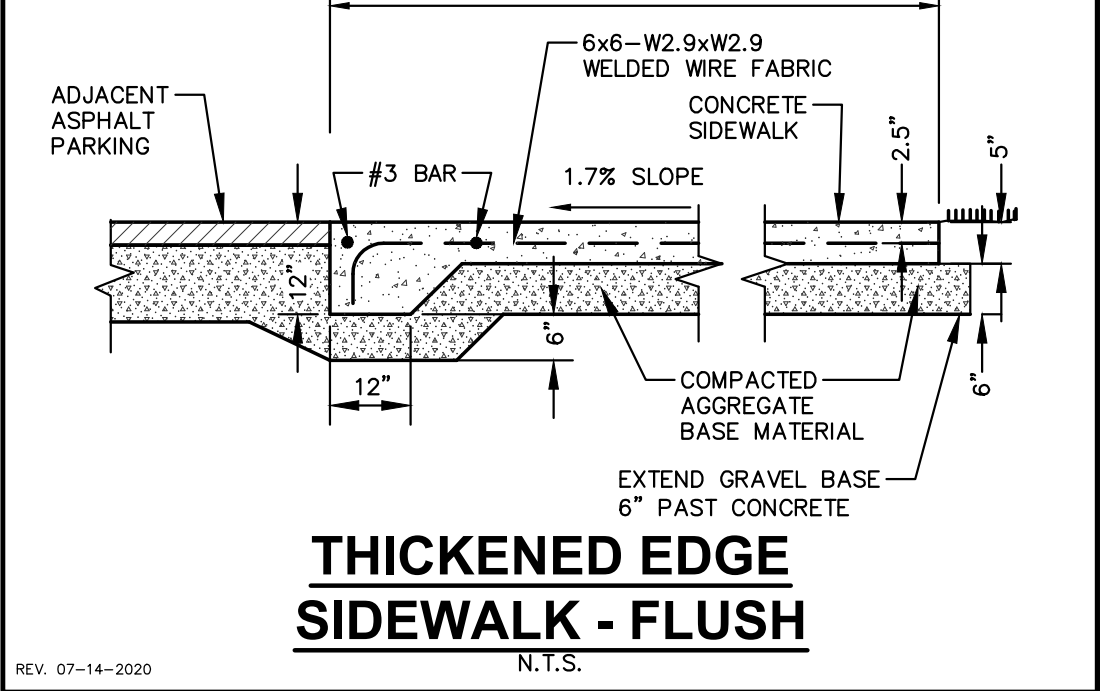
- GENERAL NOTES:**
- INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.
- MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
- 1 FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER OF FACILITATE MAINTENANCE OR REMOVAL.
 - 2 FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2"x4

- INSTALLATION NOTES:**
- TYPE "B"**
- TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.
- THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHODS TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
- INSTALLATION NOTES:**
- TYPE "D"**
- DO NOT INSTALL INLET PROTECTION TYPE "D" IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
- TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.
- THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3 INCHES. WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCHES CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4 INCHES FROM THE BOTTOM OF THE BAG.

INLET PROTECTION



INLET PROTECTION - TYPE "D"



**THICKENED EDGE
SIDEWALK - FLUSH**

PLAN MODIFICATIONS:	
#	Date:
1	04-28-2023
2	05-03-2023
3	06-30-2023
4	07-26-2023
5	08-22-2023
6	08-29-2023
7	09-15-2023
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Designed By:	JJS (04-14-2023)
Reviewed By:	TJB (04-14-2023)
Approved By:	TJB (04-14-2023)
SHEET TITLE:	
NOTES & DETAILS	

SHEET NUMBER:	
C5.1	
JSD PROJECT NO:	
18-8537E	




File: R:\2018118-4857EDWG\18-8537E SHEETS Details.dwg Layout: C5.1 User: jalmom Plotted: Sep 20, 2023 - 10:06am Xref's:

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MEMORANDUM

DATE: Wednesday, October 25, 2023

TO: Caledonia Utility District

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

RE: Storm Water Management Plan & Storm Water Pond Plan –
Conditional Approval – Gifford School Parking Lot

BACKGROUND INFORMATION

Colin Meisel P.E. of Ruekert & Mielke, Inc has prepared a Storm Water Management Plan and Storm Water Pond Plans for the expansion of the North Parking lot at Gifford School. The expansion of the parking lot is 256' x 356'. The expansion of the parking lot will require the expansion of the existing storm water pond on the site and some site grading around the expanded parking lot to have the newly created impervious area drain to the storm water pond.

The expansion of the parking lot requires an update to the existing Storm Water Management Plan for the site, which was done with the expansion of the school in 2015. This site falls under Stream Protection Storm Water Regulations. Stream Protection Storm Water Regulations are that the 100 yr. post development peak runoff must be reduced to or below the 2 yr. predevelopment peak runoff. The site must also achieve 80% Total Suspended Solids removal.

The Storm Water Management Plan meets the Ordinance by meeting the required reductions in peak flow (7.44 cfs peak 100 vs 12.15 cfs peak 2) and the required TSS removal (85.8% TSS vs 80% TSS). There are some clarifications that will need to be provided as stated in the review letter dated October 11, 2023. These should not change the results unless the asbuilt outlet structure is significantly different from what was approved previously, in which case will require a new outlet structure to be installed.

The Storm Water Pond Plan has been reviewed by the Village Engineer and the Public Services Director. There are some minor revisions requested to ensure that the drainage is contained within the storm water pond and drainage swale and that the 10' safety shelf is installed on the expansion of the pond.

The Storm Water Management Plan and Storm Water Pond Plan are ready for Utility District conditional approval.

RECOMMENDATION

Move to approve the Storm Water Management Plan and Storm Water Pond Plan for the Gifford School North Parking Lot Expansion subject to the following conditions:

- 1) The Design Engineer determines that the Storm Water Management Plan and Storm Water Pond Plan approved by the Caledonia Utility District is technically adequate and is stamped by the Design Engineer.**
- 2) The conditions outlined in the October 11, 2023 letter from the Public Services Director are met.**
- 3) Legal Description and Exhibit for a Storm Water Easement (for the Storm Water Pond) are provided, and the Racine Unified School District executes the Storm Water Easement.**
- 4) A Financial Guarantee will need to be made and a Deposit Agreement will need to be executed by the Owner to ensure that the Storm Water Pond is adjusted, asbuilt and certified by the Design Engineer. This is to ensure that the Storm Water Pond is constructed in accordance with the approved plans.**
- 5) The applicant obtains all necessary permits from the Village, County and State as necessary prior to performing the project.**

Wednesday, October 11, 2023

Ruekert & Mielke, Inc
c/o Taylor Placek
W233 N2080 Ridgeview Parkway Suite 300
Waukesha, WI 53188

RE: Racine Unified School District – Gifford School Parking Lot – Storm Water Management Report Review

Dear Taylor:

The Caledonia Utility District has performed a review of the Storm Water Management Report submitted October 10, 2023 for the Racine Unified School District – Gifford School Parking Lot proposed at 8332 Northwestern Avenue in the Village of Caledonia. Below is a summary of the review comments.

Storm Water Management Report

Post Development

- Pond Nodes - For storage, will need to provide the proposed contour areas for the normal water surface elevation, and then each contour to the top of the berm (708, 709, 710, 711, 712, & 712.50). Remove the 703 & 707.
- The Pond Nodes utilize the following.
 - 65' - 18" RCP outlet pipe @0.77% (708.00 to 707.50)
 - 6" Orifice at 708.00
 - 2 – 10" Orifices at 709.15
 - Top of 48" Manhole Outlet Structure at 711.00
 - 20' Overflow weir @ 712.00
 - Provide an asbuilt of the existing outlet structure for the pond and utilize the asbuilt structure. If the asbuilt structure does not meet the storm water management requirements, then a new outlet structure using the above shall be installed. If the outlet structure needs to be replaced, then a Detail in the construction plans will need to be provided. (This is required because the existing rim grade on the plans is 708.49.)
- This Storm Water Management Plan will need to match the Site Grading & Drainage Plan for the site. If adjustments are made to the Site Grading & Drainage Plan, then the corresponding changes will need to be made to this Storm Water Management Plan.
- The Storm Water Management Plan will need to be approved by the Caledonia Utility District.
- Once approved by the Caledonia Utility District, 2 stamped hard copies, 1 stamped electronic (pdf) copy, and the Storm Water Model file are to be submitted for the

development. When the Storm Water Pond/Site Grading Plans are approved by the Caledonia Utility District there shall be 3 stamped hard copies and 1 stamped electronic (pdf) copy submitted for the development.

- Storm Water Easement/Maintenance Agreements will need to be executed by the Owner to encompass the expanded Storm Water Pond. (Possibly the entire pond if an easement does not exist.) The Design Engineer shall provide the following: an Exhibit of the property, a Legal Description of the property, an Exhibit of the Storm Water Easement, a Legal Description of the Storm Water Easement.
- The Utility District retains the right to add comments to subsequent reviews of the Storm Water Management Plan until the plan has been approved by the Caledonia Utility District.

Site Grading Plan Grading Plan Sheet

- The grading plan does not have the 707 and 708 contours 10' apart for the 10' safety shelf.
- The 100-year water surface elevation in the pond is 710.84 and the plugged 100-year water surface elevation in the pond is 712.06. Due to the swale draining to the storm water pond being lower than the pond berm it may be used as storage, but the top of bank on the swale must be a minimum of 712.50 to match the top of bank on the storm water pond. Due to the swale being lower and the swale top of bank lower than the top of berm in the Northeast corner of the site, the runoff will bypass the storm water pond in the 100-year event.
- Along the East property line, the centerline swale grades have been provided. Along this East property line, the swale will need to have a minimum 1.5' swale capacity to contain the flow of the site and prevent bypassing. As an example, the swale grade of 712.26 shall have a top of bank grade on the swale of 713.76, the swale grade of 711.05 shall have a top of bank grade of 712.55, and the swale grade of 710.10 shall have a top of bank grade of 712.50.
- The back side (North side) of the berm at the East side of the storm water pond has slopes steeper than 4:1 (currently at 3:1).

If there are any questions about these comments, please contact me at abunkelman@caledonia-wi.gov or 262-835-6416.

Sincerely,



Anthony A. Bunkelman P.E.
Public Services Director

Racine Unified SD
Gifford School
Storm Water
Management
Report



Storm Water Management Report

07/17/2023

PREPARED FOR:

Racine Unified School District
8332 Northwestern Ave
Racine, WI 53406

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STORM WATER MANAGEMENT REPORT

PROJECT DESCRIPTION

Gifford School is located in the Village of Caledonia, Racine County, Wisconsin. The project site is located to the North of Northwestern Avenue. The site and its storm water facilities will be owned and operated by the Racine Unified School District. The total project area that will contribute to the facility is approximately 9.70 acres with the total disturbed area from construction being approximately 3.46 acres. For the purpose of evaluating storm water runoff the site has been divided into one existing drainage basins as shown on the existing conditions map, Exhibit 1. The property is currently developed and is covered predominantly in pavement, pond surface and grass which drains to the existing wet pond. The project will contain a proposed parking lots, drainage swale and extension to the existing wet pond. This proposed wet pond expansion is designed to account for a future estimated building size (See Exhibit 2 for more details) and meet all requirements. The proposed storm water facilities for this site include a drainage swale and an expansion to the existing wet pond. The existing wet pond is modeled according to a previous storm water management report from July 28th, 2015 by Nielsen Madsen and Barber, S.C. The developed site was modeled with one drainage basins as shown on the proposed conditions map, Exhibit 2. The proposed BMPs are designed to meeting regulatory requirements by the controlling agencies for Quantity and Quality.

REQUIREMENTS

The erosion control measures and storm water management system for the proposed site will meet the following standards as required by Village of Caledonia, Wisconsin Administrative Code NR 151, and WDNR Technical Standards.

Soil Loss

Soil erosion is calculated using the Universal Soil Loss Equation (USLE) and the project is required to reduce the soil losses to a maximum of 5.0 tons/acre, and provide erosion control measures to reduce any soil loss in excess of this amount.

Storm Water Quantity

Best Management Practices (BMP's) will be employed to reduce to the maximum extent practicable, post construction runoff to pre-project conditions based on an average annual rainfall, as compared to no runoff management controls as required and shown in Table 1 below:

Table 1: Storm Water Quantity Requirements

WDNR		Village of Caledonia	
Post Construction	Pre-Development	Post Construction	Pre-Development
1-yr	-	1-yr	1-yr
2-yr	2-yr	2-yr	2-yr
10-yr	-	10-yr	2-yr
100-yr	-	100-yr	2-yr

Storm Water Quality

Best Management Practices (BMP's) will be employed to reduce to the maximum extent practicable, the total suspended solids load and the total suspended phosphorus load by based on an average annual rainfall, as compared to no runoff management controls as required and shown in Table 2 below.

Table 2: Storm Water Quality Requirements

	WDNR		Village of Caledonia	
New Development	80% TSS Reduction	0% Phosphorus	80% TSS Reduction	0% Phosphorus

Infiltration

Infiltration requirements are governed by Wisconsin Administrative Code NR 151. Due to low infiltration rates, the site is exempt from infiltration requirements. See Appendix A for more information.

EXISTING CONDITONS

Existing Soils Conditions

Existing soils on the site are predominantly silt loam. The NRCS soil map and Soil Borings Logs/Geotechnical Report for the project site are included in Appendix A.

Existing Wetlands and Waterways

WDNR Wetland Indicator Soil Map is attached in Appendix B. Due to indicators found within the expected project limits a wetland delineation was completed. No wetlands were found and the wetland exemption letter is included in Appendix B.

Existing Drainage Basins

The one existing basins are shown on the Existing Conditions Map, Exhibit 1 and are summarized below. Please note, this area was calculated using the storm water report that was created when the original wet pond was constructed.

Existing Basin	Total Area	Composite CN	Tc	Existing BMPs
Existing	9.70 AC	77	10 min	Wet Pond

PROPOSED PROJECT

Proposed Storm Water Basins

The one proposed basin is shown on the Proposed Conditions Map, Exhibit 2 and are summarized below.

Proposed Basin	Total Area	CN	Tc	BMPs	100-YR Event Contained
A	9.70 AC	86	10 min	Wet Pond A	Yes

Surface Water Conveyance

In order to provide adequate drainage to proposed BMPs, surface drainage, including sheeting drainage and a proposed swale, along with a storm sewer system was designed as can be seen in Exhibit 3. Detailed calculations are included in Appendix C.

Pond Construction

The existing wet pond will be extended in Basin A.

The wet pond will be extended in areas that are free of bedrock and the ponds will be excavated out from existing soils that consists primarily of natural clay. The berms/sides will be constructed from on-site material that consists primarily of non-permeable clays. Type A liner shall be used.

WDNR technical standards were followed in the pond design. The existing safety shelf will be extended and there will be at least one foot of free board above the water surface elevation in a 100-year event, and emergency spillway will be installed. The permanent pool elevation will provide a four-foot deep sediment storage component. Discharge from the wet pond will be regulated by the existing outlet structure at the permanent pool elevation. See Construction Details in Exhibit 4.

Erosion Control

Erosion control measures will be installed prior to initial construction. Regular inspections will be conducted to ensure that the erosion control measures are maintained throughout the construction process. Erosion control measures shall remain in place until restoration is completed and 90 percent growth has been achieved. The full erosion control plan is shown on Exhibit 3 and includes proposed sequencing of construction activities.

POST-CONSTRUCTION PERFORMANCE

Soil Loss

The WDNR's Soil Loss & Sediment Discharge Calculation Tool WDNR Version 2.0 was utilized to verify that soil loss was reduced to less than the maximum of 5.0 tons/acre. The worst case scenario was determined to be at the northeast portion of the proposed pavement addition and is shown on Appendix D. By utilizing inlet protection, silt fence, erosion matting and a tracking pad the soil loss was able to be reduced to 2.1 tons/acre.

Storm Water Quantity

Hydrology for the site was modeled using Hydrology Studio 2023 version 3.0.0.27.

Under the developed condition the site will consist primarily of rooftops, paved areas and landscaped areas. Curve numbers were determined for each basin by proposed land use. A summary of the results is shown in Table 5. Please note the 0.42 acres of roof area shown is an estimated future building area that will be routed to the wet pond and is shown in Exhibit 2.

Table 5: Storm Water Basins Summary

Basin	Roof (Ac, CN=)	Parking Lot (ac, CN=)	Pond Surface (Ac, CN=)	Landscape (Ac, CN=)	% Impervious	Total (Ac)	Composite CN	Time of Concentration (Tc)	Outfall Location/BMP
A	0.42, 98	3.88, 98	0.75, 98	4.65, 71	52.1	9.70	86	10 min	Wet Pond
TOTAL	0.42	3.88	0.75	4.65	52.1	9.70			

The installation of BMPs will significantly reduce the volume of water released from the site relative to the existing conditions. A summary of the results is shown in Tables 6 and 7, demonstrating that the post-construction peak flows meet regulatory requirements.

Table 6: Storm Water Quantity Summary

	1 – yr Existing	1 -yr Proposed		2 – yr Existing	2 -yr Proposed		10 – yr Existing	10 -yr Proposed		100 – yr Existing	100 -yr Proposed	
	(cfs)	No BMP (cfs)	BMP (cfs)	(cfs)	No BMP (cfs)	BMP (cfs)	(cfs)	No BMP (cfs)	BMP (cfs)	(cfs)	No BMP (cfs)	BMP (cfs)
BASIN												
A	9.06	16.5	0.80	12.15	20.4	0.93	24.0	34.1	3.30	49.9	61.7	7.44
TOTAL	9.06	16.5	0.80	12.15	20.4	0.93	24.0	34.1	3.30	49.9	61.7	7.44

Table 7: Storm Water BMP Summary

BMP	BMP Elevations			Rain Event Maximum Elevations			
	Discharge	Weir	Top of Bank	1-Yr	2-Yr	10-Yr	100-yr
Wet Pond A	708.00	712.00	712.50	708.96	709.19	709.74	710.84

Complete water quantity calculations and results are presented in Appendix E.

Storm Water Quality

WinSLAMM version 10.4.1 was used to evaluate the developed condition.

The proposed BMPs for this site will be sufficient to meet the requirements for suspended solids reduction for the site. A summary of the results is shown in Table 8.

Table 8: Storm Water Quality Summary

Basin	TSS Generated (lbs)	TSS Released (lbs)	Reduction
A	5212	741	85.8%
Total	5212	741	85.8%

Complete water quality calculations and results are provided in Appendix F

SUMMARY

Through the installation of storm water facilities and erosion control measures, this site will meet all the requirements of the Village of Caledonia, and the Wisconsin Department of Natural Resources. Post-construction performance standards including soil loss, stormwater quantity and stormwater quality have been addressed through the construction of onsite BMPs.



GIFFORD SCHOOL - 2023

RACINE UNIFIED SD

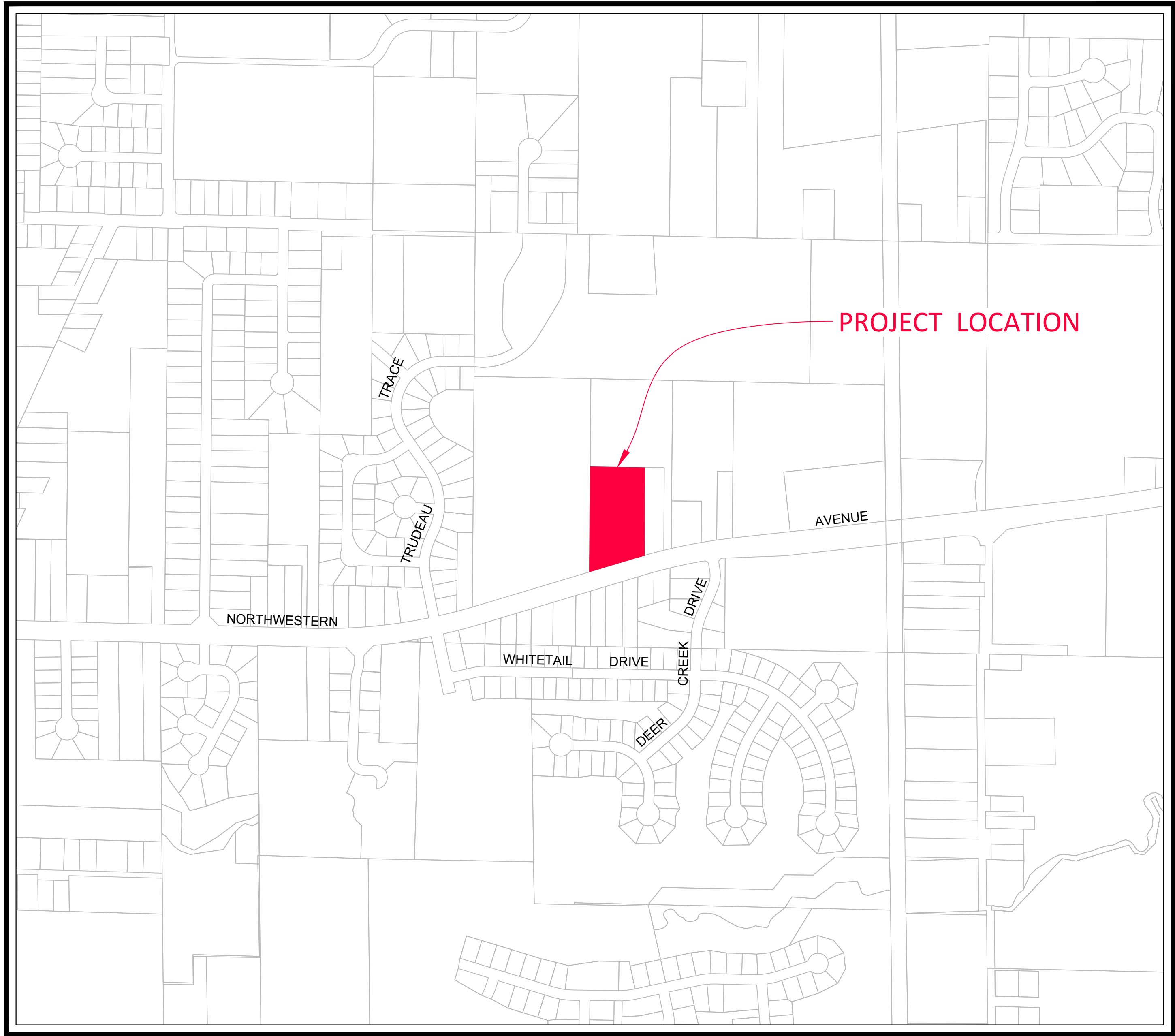
RACINE COUNTY, WISCONSIN

SHEET INDEX

SHEET NO.	LOCATION	DESCRIPTION
GN-01		GENERAL NOTES
GN-02		EXISTING CONDITIONS
GN-03		EXISTING CONDITIONS
PV-01		PROPOSED SITE PLAN
PV-02		PROPOSED PAVEMENT MARKING PLAN
EC-01		EROSION CONTROL PLAN
GR-01		OVERALL GRADING PLAN
DT-01 - DT-03		CONSTRUCTION DETAILS

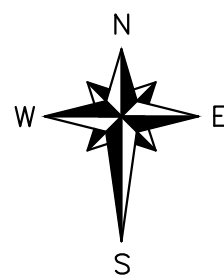
LEGEND - CIVIL ENGINEERING DRAWINGS

	GENERIC MANHOLE		TELEPHONE BOX		FLAG POLE		PROPOSED SILT FENCE
	GENERIC VENT		TELEPHONE MANHOLE		MAIL BOX		PROPOSED SANITARY SEWER (PLAN VIEW)
	SEWER MANHOLE		CABLE BOX		POST		PROPOSED STORM SEWER (PLAN VIEW)
	CLEAN OUT		UTILITY POLE		DELINEATOR POST		PROPOSED WATER MAIN
	SEPTIC SYSTEM		GUY WIRE		MARKER POST		PROPOSED SLOPE INTERCEPT
	SEPTIC TANK COVER		LIGHT POLE		SIGN		PROPOSED DETECTABLE WARNING FIELD
	SEPTIC VENT		YARD LIGHT		PILING		PROPOSED SANITARY MANHOLE
	MWEL MONITORING WELL		TRAFFIC SIGNAL		AIR CONDITIONER		PROPOSED SANITARY RISER
	WATER VALVE		PULL BOX		RAILROAD SIGNAL FLASHER		PROPOSED WATER VALVE
	HYDRANT		SANITARY SEWER		RAILROAD SIGNAL BOX		PROPOSED HYDRANT
	YARD HYDRANT		WATER MAIN		RAILROAD SPIKE		PROPOSED YARD HYDRANT
	WATER VALVE MANHOLE		STORM SEWER		STUMP		PROPOSED WATER VALVE MANHOLE
	WATER CURB STOP		UNDERGROUND GAS MAIN		DECIDUOUS TREE		PROPOSED WATER MAIN REDUCER
	WELL		UNDERGROUND ELECTRIC		DECIDUOUS MULTIPLE TRUNK TREE		PROPOSED WATER MAIN OFFSET
	SPRINKLER HEAD		UNDERGROUND TELEPHONE		CONIFEROUS MULTIPLE TRUNK TREE		PROPOSED WATER MAIN PLUG
	STORM CATCH BASIN		UNDERGROUND FIBER OPTIC		CONIFEROUS TREE		PROPOSED WATER MAIN PLUG W/AIR RELEASE
	STORM INLET		UNDERGROUND TV CABLE		CONTROL POINT		PROPOSED WATER MAIN CROSS
	GAS MANHOLE		EDGE OF PAVEMENT		IRON PIPE		PROPOSED WATER MAIN TEE
	GAS VALVE		EDGE OF GRAVEL SHOULDER		IRON ROD		PROPOSED WATER MAIN BEND (ANGLE NOTED)
	GAS METER		EDGE OF CONCRETE		SECTION CORNER		PROPOSED LOCATOR BOX
	GAS VENT		DITCH		MONUMENT		PROPOSED STORM INLET/CATCH BASIN
	GAS VALVE TEST		TOE OF SLOPE		TEST BORING		PROPOSED STORM MANHOLE
	GAS CURB STOP		TOP OF BANK		PK NAIL		PROPOSED DITCH CHECK
	ELECTRIC BOX		FENCE		DECORATIVE ROCK		PROPOSED INLET PROTECTION TYPE A
	ELECTRIC MANHOLE		GUARD RAIL		REVISION LABEL		PROPOSED INLET PROTECTION TYPE B
	ELECTRIC METER		CULVERT (SIZE & TYPE NOTED)		WETLANDS		PROPOSED INLET PROTECTION TYPE C
			RAILROAD TRACKS		WATER ELEVATION		PROPOSED INLET PROTECTION TYPE D
			EDGE OF TREES & BRUSH				



LOCATION MAP

TOWN	RANGE	SECTION (s)
4N	22E	34 SE



SCALE IN FEET
0 250 500 1000

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ORIGINAL PLAN SET
IS IN COLOR

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Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

PROJECT NUMBER: 8392-10008

www.ruekertmielke.com

1. INSTALL TRAFFIC CONTROL MEASURES.
2. INSTALL AND MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, MAINTAIN MEASURES AT THE END OF EACH DAY.
3. STAGE CONSTRUCTION BY WORK LOCATION. SUBMIT CONSTRUCTION SEQUENCING PLAN TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO START OF CONSTRUCTION. COORDINATE WITH OWNER'S REPRESENTATIVE AS CONSTRUCTION SEQUENCE, TIMING LIMITS, ETC. CHANGE OR REQUIRE MODIFICATION. UNLESS OTHERWISE SPECIFIED, MEET WITH OWNER'S REPRESENTATIVE BI-WEEKLY THROUGHOUT CONSTRUCTION.
3. CLEAR AND GRUB VEGETATION AS SHOWN ON DRAWINGS OR AS DIRECTED BY ENGINEER.
4. STRIP TOPSOIL AND STOCKPILE IN LOCATION AS SHOWN ON DRAWINGS AND AS DIRECTED BY OWNER. INSTALL PERIMETER SILT FENCE AROUND DOWN SLOPE SIDE OF STOCKPILE. STABILIZE STOCKPILE IMMEDIATELY UPON LAYUP.
5. COMPLETE ROUGH GRADING AND PREPARE PAVEMENT SUBGRADE.
6. INSTALL NEW BASE LAYERS AND ASPHALT SURFACING.
7. COMPLETE SITE GRADING AND STABILIZE DISTURBED AREAS.
8. INSTALL PAVEMENT MARKINGS.
9. AREAS PLANNED TO BE INACTIVE FOR 7 DAYS OR LONGER SHALL BE TEMPORARILY STABILIZED FOLLOWING DNR TECHNICAL STANDARD 1059 SEEDING. THESE AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF BEING INACTIVE.
10. AREAS BROUGHT TO FINAL GRADE SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS.
11. COMPLETE FINAL RESTORATIONS INCLUDING BUT NOT LIMITED TO: TOPSOIL, FERTILIZER, SEED, MULCH, AND EROSION MAT.
12. REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER 80% GROWTH DENSITY HAS OCCURRED IN 100% OF RESTORATION AREAS. CONTRACTOR SHALL OBTAIN OWNER AND ENGINEER APPROVAL PRIOR TO REMOVING THE MEASURE(S). RESTORE DISTURBED AREAS AROUND REMOVED DEVICES AND CLEAN SITE.

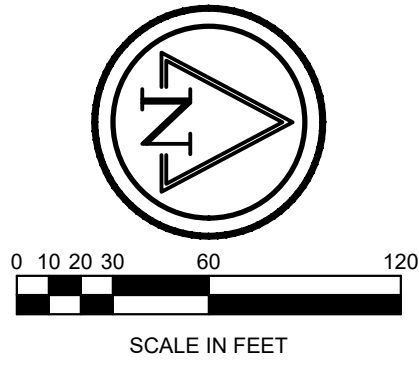
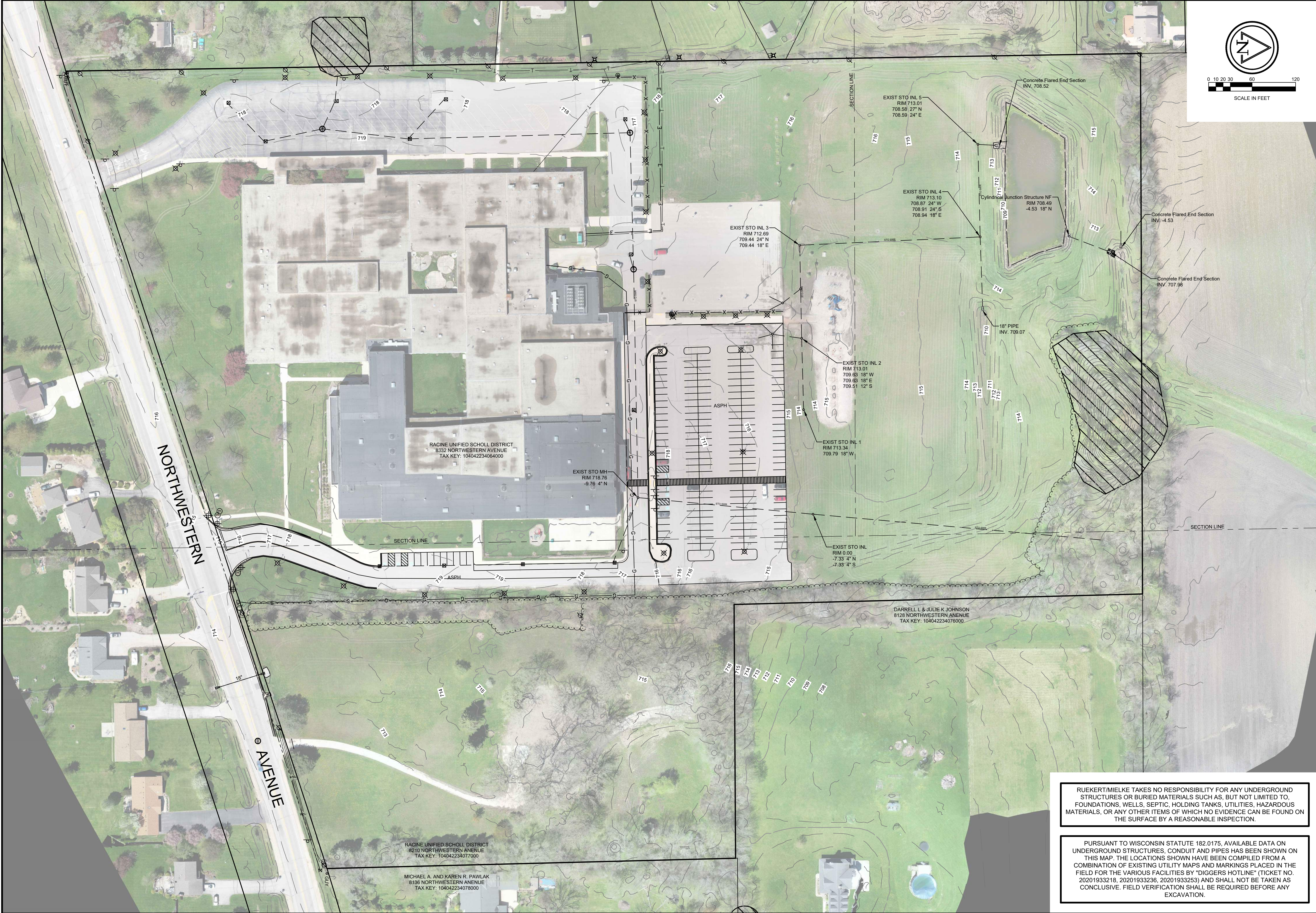
1. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES ONCE PER WEEK PRIOR TO ANY FORECAST PRECIPITATION EVENTS AND AFTER EVERY PRECIPITATION EVENT OF ½-INCH OR GREATER. CONTRACTOR SHALL PREPARE WRITTEN REPORTS FOLLOWING REGULATORY AGENCY REQUIREMENTS AFTER EACH INSPECTION AND SUBMIT COPIES TO OWNER AND ENGINEER WITHIN 24 HOURS OF INSPECTION.
2. CONTRACTOR SHALL REPAIR DEFICIENT EROSION AND SEDIMENT CONTROL MEASURES WITHIN 24-HOURS AFTER INSPECTION. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES NOT SHOWN ON THIS PLAN MAY BE NECESSARY AS DIRECTED BY OWNER AND/OR ENGINEER.
3. ADDITIONAL EROSION AND/OR SEDIMENT CONTROL MEASURES MAY BE NECESSARY AS A RESULT OF THE CONTRACTORS METHODS.
4. CONTRACTOR SHALL NOTIFY AND OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER OF PROPOSED CHANGES TO THE EROSION PLAN AND/OR SEQUENCE PRIOR TO IMPLEMENTING THE CHANGE.
5. ENGINEER IS UNDER NO OBLIGATION TO ALTER EROSION PLAN AND/OR SEQUENCE.
6. CONTRACTOR SHALL SWEEP ROADS DAILY IF NECESSARY TO REMOVE SEDIMENT TRACKED ONTO THE ROADS.
7. MAINTAIN SITE DRAINAGE AT ALL TIMES DURING CONSTRUCTION.
8. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE WISCONSIN DNR TECHNICAL STANDARDS AND EROSION CONTROL SPECIFICATIONS.
9. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE CONSTRUCTION SEQUENCE, AND FOR MAINTAINING AND REPAIRING EROSION AND SEDIMENT CONTROL DEVICES.
10. EXCESS MATERIAL THAT IS HAULED OFF SITE SHALL BE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR TO NOTIFY OWNER OF ALL FILL AND BORROW SITES. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING AND COMPLYING WITH NECESSARY EROSION CONTROL PERMITS AND FOR MAINTAINING PROPER EROSION CONTROL MEASURES ON THOSE SITES. DISPOSAL LOCATION(S) WILL NEED DNR APPROVAL PRIOR TO COMMENCING WORK.
11. EXCESS FILL/BORROW MATERIAL OR SPOILS KEPT ON SITE SHOULD BE STOCKPILED ON UPLAND AREAS AN ADEQUATE DISTANCE AWAY FROM WETLANDS AND THE WATERWAYS. PILES OF STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION AND SHALL NOT CREATE NUISANCE DUST EMISSIONS.

1. CONTRACTOR SHALL FOLLOW ADAAG MAXIMUM AND MINIMUM SLOPES AND MUST NOTIFY THE OWNER/ ENGINEER IF THERE IS A CONFLICT.
2. LOCATE STOCKPILE OF PULVERIZED ASPHALT MATERIAL FOR REUSE AS BASE MATERIAL WITHIN WORK ZONE. STAGE CONSTRUCTION ACCORDINGLY.
3. LIMIT DISTURBANCE TO AREA SHOWN ON PLANS.
4. MAINTAIN SITE DRAINAGE AT ALL TIMES DURING CONSTRUCTION.
5. MAINTAIN ACCESS FOR EMERGENCY AND DELIVERY VEHICLES AT ALL TIMES. COORDINATE WITH OWNER.

1. IF TRENCH DEWATERING IS NECESSARY, CONTRACTOR SHALL PROVIDE PROPER DEWATERING SEDIMENTATION DEVICE. DISCHARGE OF SEDIMENT LADEN TRENCH WATER TO THE WETLANDS, DITCHES, STORM SEWER OR SURFACE WATER IS PROHIBITED.
2. IF TRENCH DEWATERING IS NECESSARY, CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO OWNER, ENGINEER AND DNR PRIOR TO CONSTRUCTION FOLLOWING REQUIREMENTS WITHIN SECTIONS 01 57 13 AND 01 57 23 OF THE PROJECT MANUAL AND DNR TECHNICAL STANDARD 1061.
3. CONTRACTOR WILL BE REQUIRED TO OBTAIN AND FOLLOW REQUIREMENTS OF DNR WATER SUPPLY SECTION FOR WELLS AND DEWATERING IN EXCESS OF 70 GPM.
4. CONTRACTOR SHALL UTILIZE SILT BAGS OR BOXES OF APPROPRIATE SIZE AND PROVIDE ADDITIONAL MEASURES AS NECESSARY TO DISCHARGE CLEAN WATER BASED UPON CONDITIONS AND CONTRACTOR'S OPERATIONS. MEASURES EMPLOYED FOR DEWATERING SHALL NOT BE PLACED IN LOCATIONS THAT BLOCK SITE DRAINAGE, OR VEHICLE/PEDESTRIAN TRAFFIC. DEWATERING DISCHARGE SHALL BE DIRECTED ONTO GRASS AREAS WHERE POSSIBLE AND NOT IMPACT ADJACENT STRUCTURES, PRIVATE PROPERTY, WETLANDS, WATERWAYS OR BE DIRECTED TO SANITARY SEWERS.
5. THE DEWATERING PLAN AND NOTES SHALL SERVE AS A GUIDELINE FOR CONTRACTOR'S DEWATERING OPERATIONS.
6. IF MODIFICATIONS TO THE DEWATERING PLAN ARE NEEDED, CONTRACTOR SHALL PREPARE A WRITTEN REQUEST THAT DETAILS THE NECESSARY MODIFICATIONS AND OBTAIN APPROVAL FROM THE OWNER AND DNR PRIOR TO IMPLEMENTING THE MODIFICATION IN THE FIELD.
7. THE USE OF SILT BAGS OR BOXES SHALL BE CONSIDERED THE MINIMUM MEASURE NECESSARY, OTHER MEASURES NEEDED TO MAINTAIN CLEAR DISCHARGE SHALL BE IMPLEMENTED AS NECESSARY AND IMPLEMENTED IMMEDIATELY UPON OBTAINING OWNER APPROVAL. DEWATERING ACTIVITIES MAY NEED TO BE REDUCED OR ELIMINATED UNTIL APPROVALS HAVE BEEN OBTAINED. DEWATERING EFFLUENT SHALL REMAIN CLEAR AT ALL TIMES.
8. IT IS ANTICIPATED THAT THE LINEAR CONSTRUCTION ACTIVITIES WILL CREATE DISTURBED SOIL WITHIN EXISTING DRAINAGE SWALES AND DITCHES. CONTRACTOR SHALL CONTINUOUSLY MONITOR DEWATERING EFFLUENT QUALITY DOWNSTREAM OF THE SEDIMENTATION BASIN TO ENSURE THAT THE FLOW OF WATER IS NOT PRODUCING EROSION. CONTRACTOR SHALL WORK TO ELIMINATE EROSION FORCES OF DEWATERING EFFLUENT TO ENSURE CLEAR DISCHARGE.
9. DEWATERING OPERATIONS, IF NEEDED, SHALL PROGRESS WITH CONSTRUCTION OPERATIONS. IT IS ANTICIPATED THAT MULTIPLE DEWATERING MEASURES WILL BE SPREAD THROUGHOUT THE PROJECT IF DEWATERING IS NEEDED.
10. CONTRACTOR SHALL MONITOR THE PERFORMANCE AND EFFECTIVENESS OF THE DEWATERING SEDIMENTATION DEVICE. PERIODIC REPLACEMENT OF SILT BAGS WILL BE NECESSARY. SEDIMENT WITHIN SILT BAGS MAY BE SPREAD-OUT WITHIN SPOIL BACKFILL TRENCHES OR SHALL OTHERWISE BE DISPOSED OF PROPERLY OFFSITE. USE OF DEWATERED SEDIMENT WITHIN SPOIL BACKFILL TRENCHES MUST NOT COMPROMISE TRENCH COMPACTION. PERIODIC REPLACEMENT OF BALES AND FILTER FABRIC MAY ALSO BE REQUIRED.
11. USE OF OTHER DEWATERING SEDIMENTATION DEVICES SUCH AS STONE FILLED TRENCH BOXES OR STONE SEDIMENT TRAPS MAY BE ACCEPTABLE, HOWEVER, OWNER APPROVAL IS REQUIRED PRIOR TO USE. USE OF OTHER DEWATERING SEDIMENTATION DEVICES SHALL COMPLY WITH THE REQUIREMENTS SET FORTH ABOVE.

Prescriptive Compliance Areas	Bare Soil	Slope & Channel Management	Periods of Inactivity	Final Grade
<p>Soil stockpiles that will exist for more than 7 days</p> <p>Utility trench backfills</p> <p>Temporary ditches/swales that will exist for more than 7 days</p> <p>Permanent ditches/swales</p> <p>Small areas – Less than 1 acre and less than 1% of site</p> <p>Discrete areas – Less than 1 acre</p> <p>Storm water practice side slopes</p> <p>Slopes steeper than 20%</p>	<p><u>Areas that Do Not Drain to Sediment Basins or Traps</u></p> <p>Limit the duration of soil exposure to no more than 30 days.</p> <p><u>Areas that Drain to Sediment Basins or Traps</u></p> <p>Limit the duration of soil exposure to no more than 90 days. However, use the duration from the soil loss and sediment discharge calculations for the other areas of the site if less than 90 days.</p>	<p><u>General</u></p> <p>Design and implement approved soil stabilization practices per DNR technical standards.</p> <p>Refer to WisDOT Slope & Channel Matrices for appropriate slope and slope length conditions.</p> <p><u>Slopes Steeper than 20%</u></p> <p>Provide stable diversion of off-site runoff around the slope.</p> <p>Provide slope interruption devices in accordance with Manufactured Perimeter Control & Slope Interruption Products Technical Standard 1071 or equivalent methods to reduce uninterrupted slope length.</p>	<p><u>Planned Inactivity</u></p> <p>Stabilize immediately if area will be left inactive for more than 14 days.</p> <p><u>Unplanned Inactivity</u></p> <p>Stabilize area immediately if period of inactivity reaches 14 days.</p>	<p><u>Permanent Features</u></p> <p>Stabilize area immediately after reaching final grade.</p> <p><u>Temporary Features</u></p> <p>Stabilize area immediately after establishment of temporary feature or reaching specified temporary grade.</p>

Oct 10, 2023 1:44pm PLOTTED BY: jinelle SAVED BY: TBlack
IMAGES: 2023-5-20 Gifford, 6609: RM SQUARE, Full Color-Print
C:\GIS\2018\392 - Racine Unified Scholl District\0000 Gifford\dwg\North Parking lot 2023\2-CPL-EXISTING OVERALL PLAN 2023.dwg
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RUEKERT/MIELKE TAKES NO RESPONSIBILITY FOR ANY UNDERGROUND STRUCTURES OR BURIED MATERIALS SUCH AS, BUT NOT LIMITED TO, FOUNDATIONS, WELLS, SEPTIC, HOLDING TANKS, UTILITIES, HAZARDOUS MATERIALS, OR ANY OTHER ITEMS OF WHICH NO EVIDENCE CAN BE FOUND ON THE SURFACE BY A REASONABLE INSPECTION.

PURSUANT TO WISCONSIN STATUTE 182.0175, AVAILABLE DATA ON UNDERGROUND STRUCTURES, CONDUIT AND PIPES HAS BEEN SHOWN ON THIS MAP. THE LOCATIONS SHOWN HAVE BEEN COMPILED FROM A COMBINATION OF EXISTING UTILITY MAPS AND MARKINGS PLACED IN THE FIELD FOR THE VARIOUS FACILITIES BY "DIGGERS HOTLINE" (TICKET NO. 20201933218, 20201933236, 20201933253) AND SHALL NOT BE TAKEN AS CONCLUSIVE. FIELD VERIFICATION SHALL BE REQUIRED BEFORE ANY EXCAVATION.

GIFFORD SHOOL 2023 - NORTH PARKING LOT

EXISTING CONDITIONS

RACINE UNIFIED SCHOOL DISTRICT, CITY OF RACINE
RACINE COUNTY, WISCONSIN

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DESIGNED BY: TSP

DRAFTED BY: TSP

CHECKED BY: CLM

DATE: 07-13-2023

FILE NO.
8392-10008

SHEET NO.
GN-02

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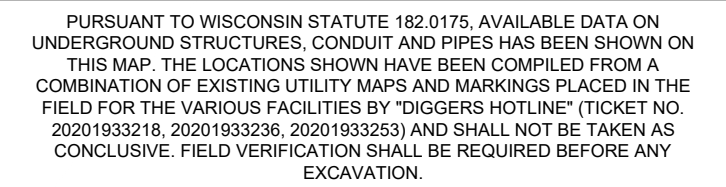
Waukesha
Global Water Center

Kenosha
Fox Valley

Madison
Fox Valley







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RANGE: 22E
SECTION(S): 34 SE
TOWN: 4N



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SECTION(S):	###	RANGE:###	TOWN: ##

EROSION CONTROL

- | | |
|---|---|
|  | PROPOSED DITCH CHECK |
|  | PROPOSED INLET PROTECTION TYPE D |
|  | PROPOSED SILT FENCE |
|  | TOPSOIL, TURF GRASS SEED, CLASS 1 TYPE B EMAT |
|  | TOPSOIL, TURF GRASS SEED, CLASS 2 TYPE B EMAT |
|  | PROPOSED TRACKING PAD |

NOTES:

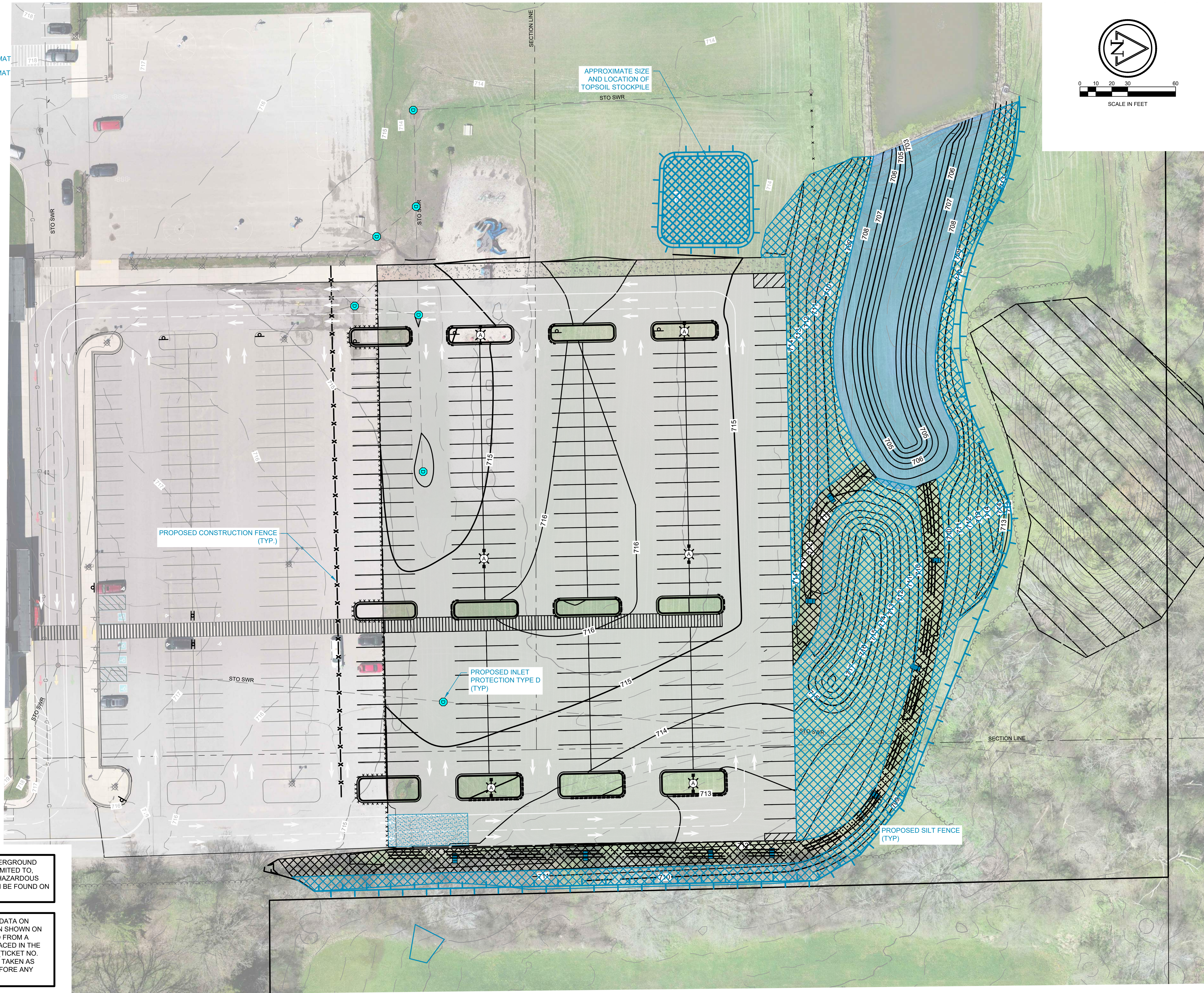
1. TOTAL CSM COMBINED SITE AREA: 28.49 ACRES.
2. ESTIMATED AREA OF DISTURBANCE: 3.46 ACRES.
3. 100% OF SITE IS SILT LOAM PER NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.
4. MAINTAIN EXISTING VEGETATION IN STREET RIGHT OF WAY.
5. SNOW STORAGE IS NOT TO BLOCK SWALES.
6. THE SWALES SHALL BE STABILIZED WITHIN 14 DAYS OF BEING GRADED.
7. INSPECT ALL BMPs WITHIN TWENTY-FOUR (24) HOURS AFTER EACH RAIN OF 0.5 INCHES OR MORE AND AT LEAST ONCE A WEEK. MAKE NEEDED REPAIRS, INSTALL ADDITIONAL BMPs AS NECESSARY, AND DOCUMENT THE FINDINGS OF THE INSPECTION ON AN EROSION CONTROL LOG KEPT ON SITE WITH THE DATE OF INSPECTION, THE NAME OF THE PERSON CONDUCTING THE INSPECTION, A DESCRIPTION OF THE REPAIR NEEDED, AND DOCUMENTATION OF THE COMPLETED REPAIRS.

CONSTRUCTION SEQUENCE

1. INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY LAND DISTURBING ACTIVITIES, AS SHOWN ON DRAWINGS AND DIRECTED BY ENGINEER.
2. CLEAR AND GRUB VEGETATION AS SHOWN ON DRAWINGS OR AS DIRECTED BY ENGINEER.
3. STRIP TOPSOIL AND STOCKPILE IN LOCATION AS SHOWN ON DRAWINGS AND AS DIRECTED BY OWNER. INSTALL PERIMETER SILT FENCE AROUND DOWN SLOPE SIDE OF STOCKPILE. STABILIZE STOCKPILE IMMEDIATELY UPON LAYUP.
4. INSTALL, ADJUST AND MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES NECESSARY FOR EACH ACTIVE STAGE. MAINTAIN MEASURES AT THE END OF EACH DAY.
5. STAGE CONSTRUCTION BY WORK LOCATION. SUBSEQUENT STEPS MAY BE COMPLETED IN ALTERNATE SEQUENCE DEPENDING UPON CONTRACTOR OPERATIONS.
6. COMPLETE ROUGH GRADING.
7. PREPARE PAVEMENT SUBGRADE.
8. INSTALL NEW PAVEMENT AND BASE LAYERS.
9. INSTALL PAVEMENT MARKINGS.
10. INSTALL LAWN LANDSCAPING.
11. AREAS PLANNED TO BE INACTIVE FOR 7 DAYS OR LONGER SHALL BE TEMPORARILY STABILIZED FOLLOWING DNR TECHNICAL STANDARD 1059 SEEDING. THESE AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF BEING INACTIVE.
12. AREAS BROUGHT TO FINAL GRADE SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS.
13. COMPLETE FINAL RESTORATIONS INCLUDING BUT NOT LIMITED TO: TOPSOIL, TURF GRASS SEED, AND CLASS I TYPE B URBAN EROSION MATTING FOR ALL LAWN RESTORATION AND TOPSOIL, TURF GRASS SEED, AND CLASS II TYPE B EROSION MATTING FOR THE DRAINAGE SWALES AND SLOPES OF 4:1 OR MORE.
14. REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER 80% GROWTH DENSITY HAS OCCURRED IN 100% OF RESTORATION AREAS. CONTRACTOR SHALL OBTAIN OWNER AND ENGINEER APPROVAL PRIOR TO REMOVING THE MEASURE(S). RESTORE DISTURBED AREAS AROUND REMOVED DEVICES AND CLEAN SITE.

RUEKERT/MIELKE TAKES NO RESPONSIBILITY FOR ANY UNDERGROUND STRUCTURES OR BURIED MATERIALS SUCH AS, BUT NOT LIMITED TO, FOUNDATIONS, WELLS, SEPTIC, HOLDING TANKS, UTILITIES, HAZARDOUS MATERIALS, OR ANY OTHER ITEMS OF WHICH NO EVIDENCE CAN BE FOUND ON THE SURFACE BY A REASONABLE INSPECTION.

PURSUANT TO WISCONSIN STATUTE 182.0175, AVAILABLE DATA ON UNDERGROUND STRUCTURES, CONDUIT AND PIPES HAS BEEN SHOWN ON THIS MAP. THE LOCATIONS SHOWN HAVE BEEN COMPILED FROM A COMBINATION OF EXISTING UTILITY MAPS AND MARKINGS PLACED IN THE FIELD FOR THE VARIOUS FACILITIES BY "DIGGERS HOTLINE" (TICKET NO. 20201933218, 20201933236, 20201933253) AND SHALL NOT BE TAKEN AS CONCLUSIVE. FIELD VERIFICATION SHALL BE REQUIRED BEFORE ANY EXCAVATION.



A north arrow pointing to the right, enclosed in a circle. Below it is a graphic scale bar marked from 0 to 60 feet in increments of 10.

7			
6			
5			
4			
3			
2			
1			
TOWN: 4N		RANGE: 22E	SECTION(s): 34 SE

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GIFFORD SHOOL 2023 - NORTH PARKING LOT

EROSION CONTROL PLAN

RACINE UNIFIED SCHOOL DISTRICT, CITY OF RACINE
RACINE COUNTY, WISCONSIN

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RUEKERT & MIELKE INC.

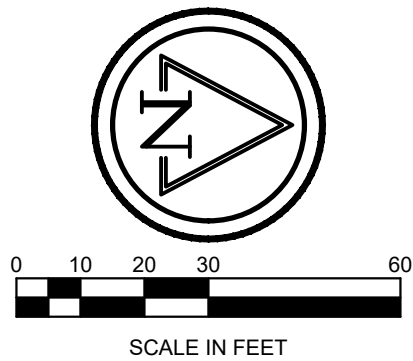
DESIGNED BY: TSP

DRAFTED BY: TSP

CHECKED BY: CLM

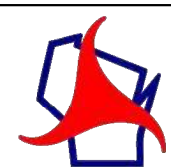
FILE NO.
8392-10008

SHEET NO.
EC-01

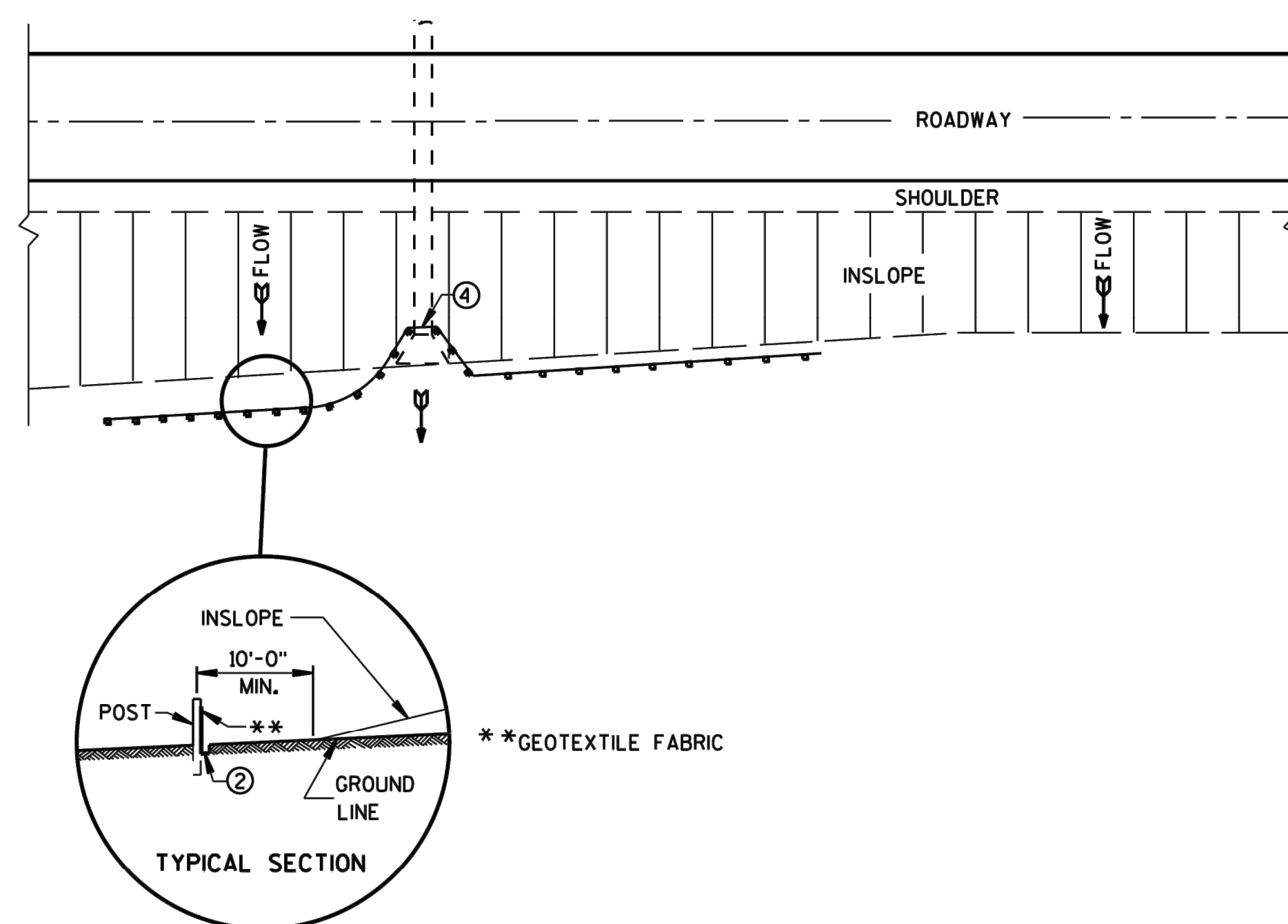


PURSUANT TO WISCONSIN STATUTE 192.0175, AVAILABLE DATA ON UNDERGROUND STRUCTURES, CONDUIT AND PIPES HAS BEEN SHOWN ON THIS MAP. THE LOCATIONS SHOWN HAVE BEEN COMPILED FROM A COMBINATION OF EXISTING UTILITY MAPS AND MARKINGS PLACED IN THE FIELD FOR THE VARIOUS FACILITIES BY "DIGGERS HOTLINE" (TICKET NO. 20201933218, 20201933236, 20201933253) AND SHALL NOT BE TAKEN AS CONCLUSIVE. FIELD VERIFICATION SHALL BE REQUIRED BEFORE ANY EXCAVATION.

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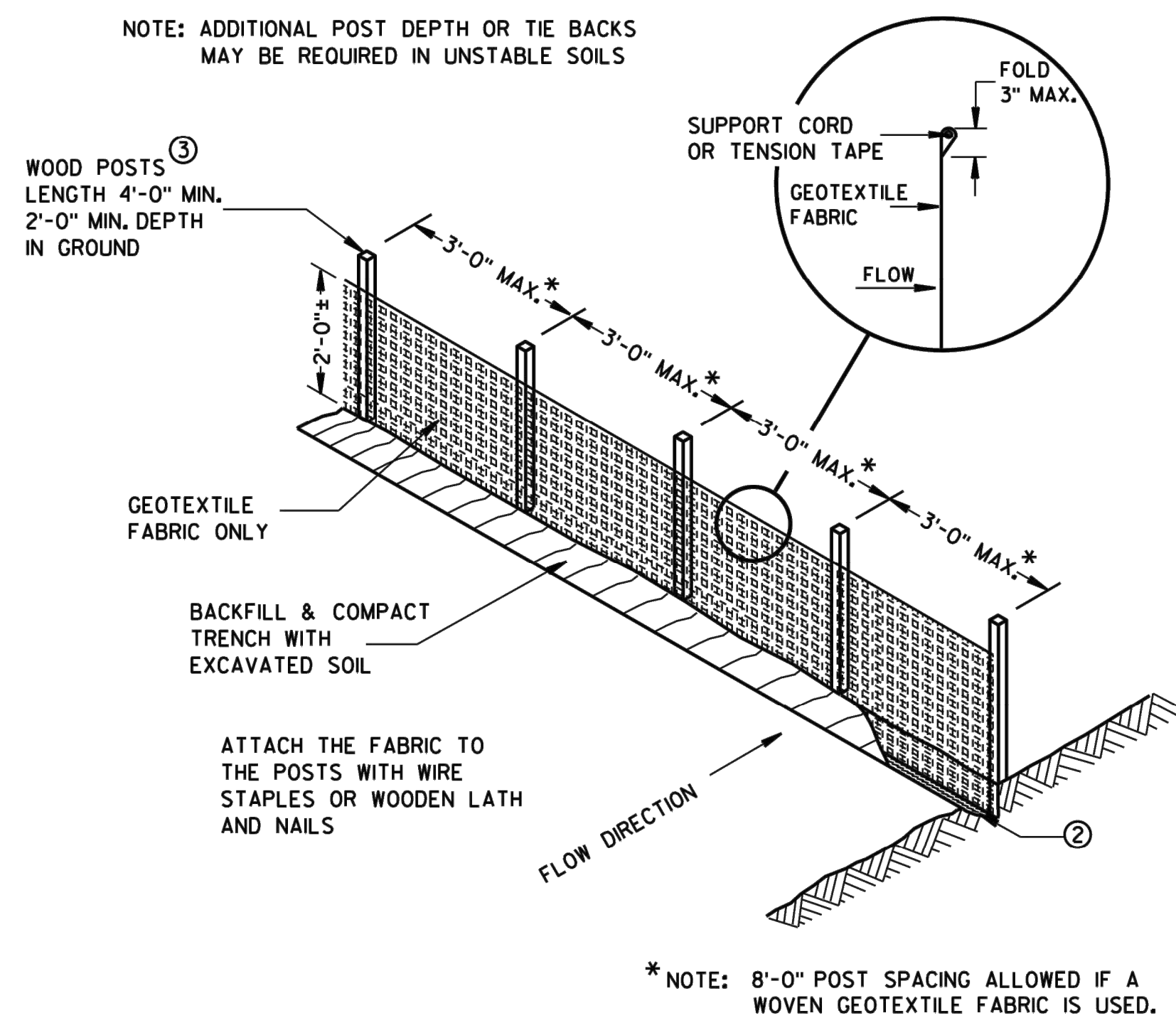


SDD 8e9 Silt Fence

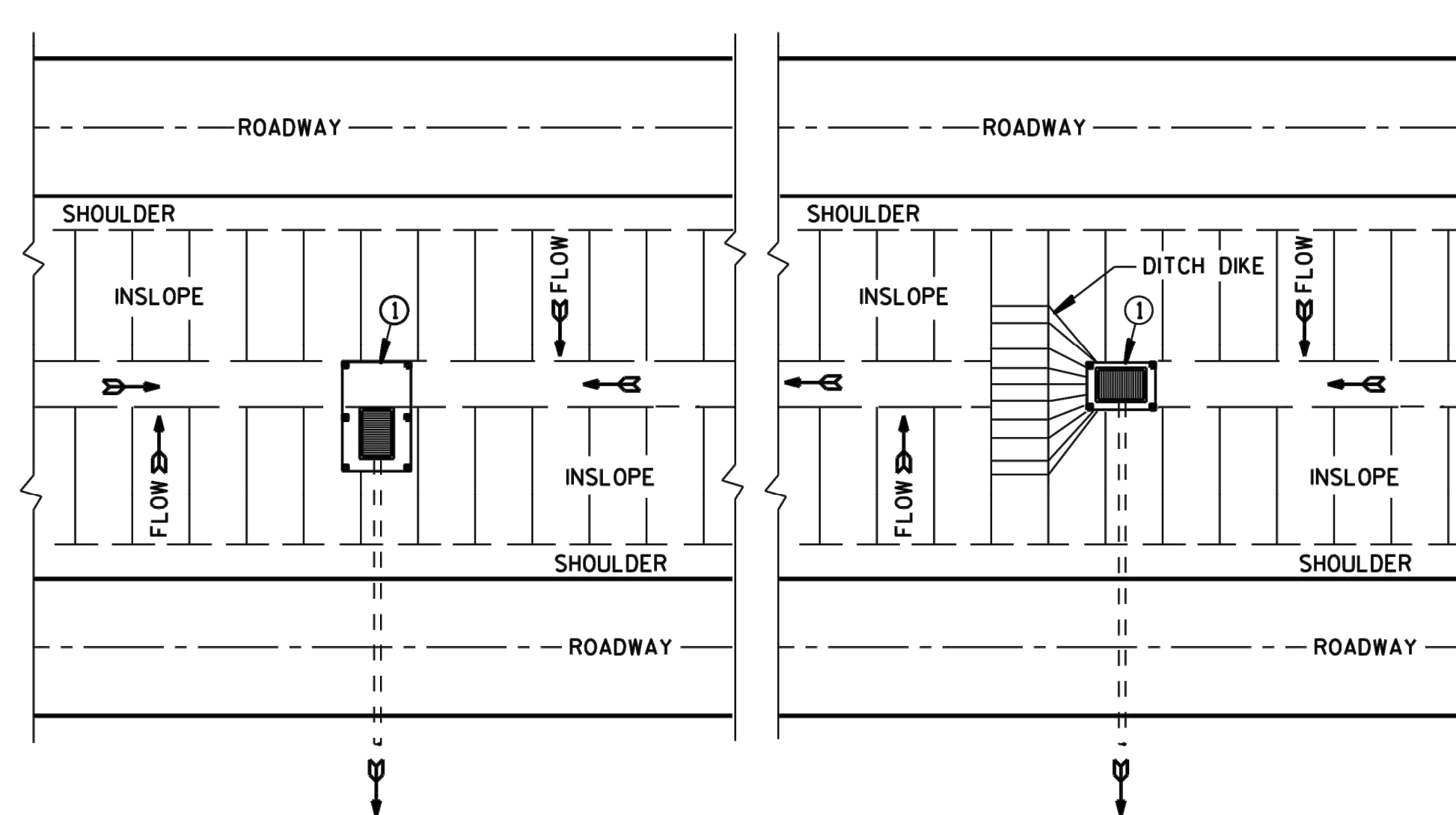


PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE

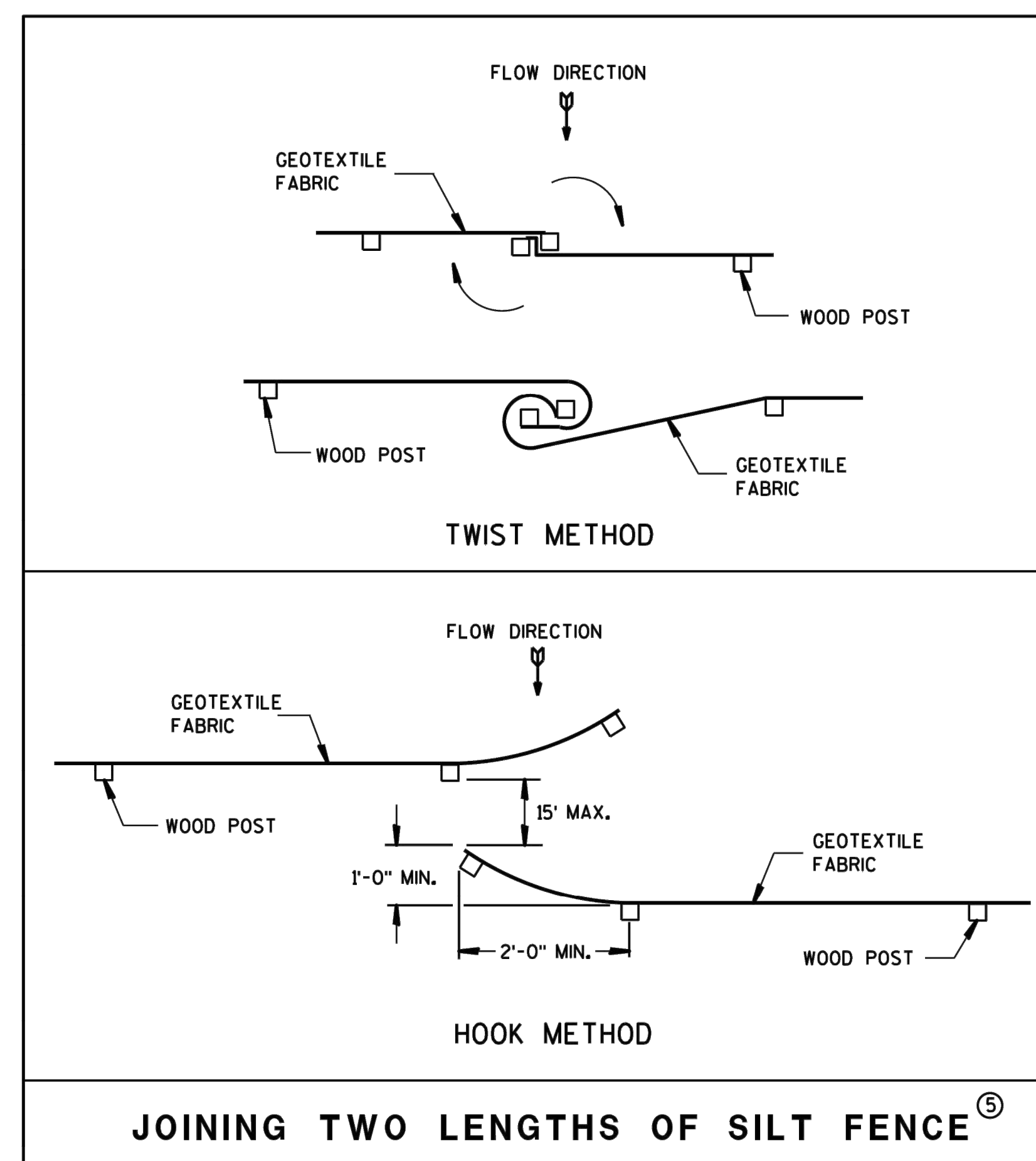


SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

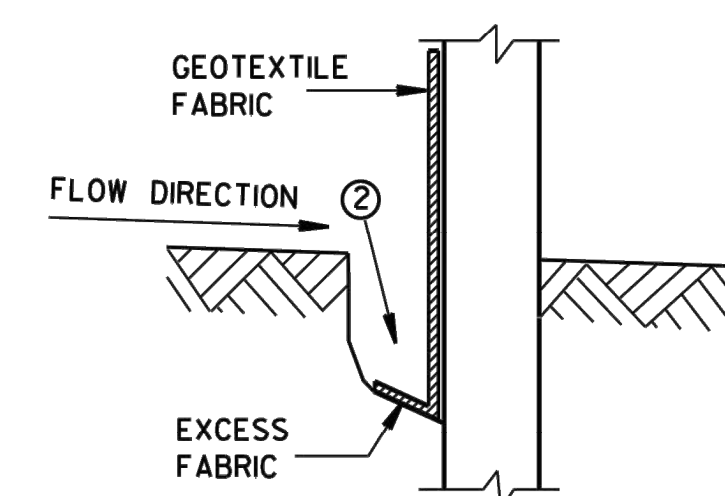


JOINING TWO LENGTHS OF SILT FENCE^⑤

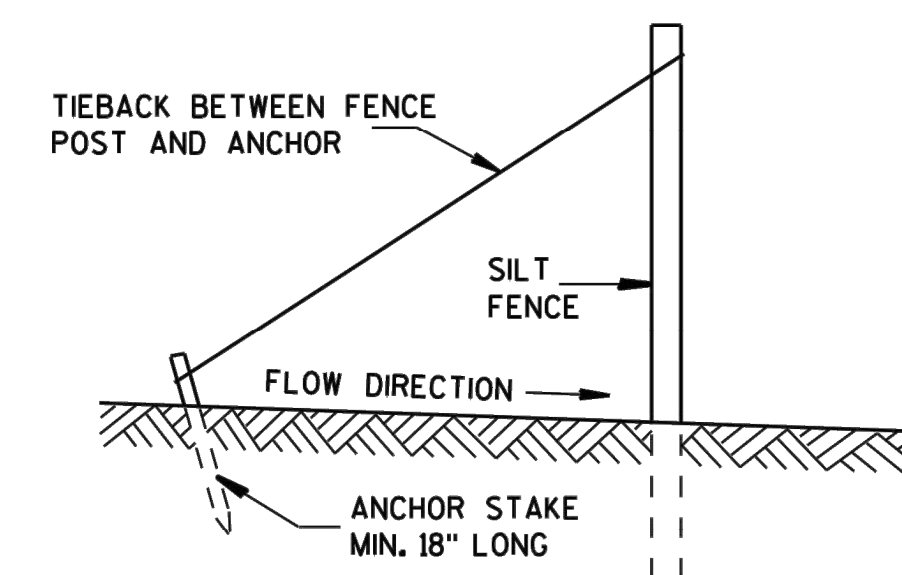
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1/8" X 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

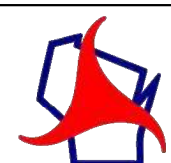


TRENCH DETAIL

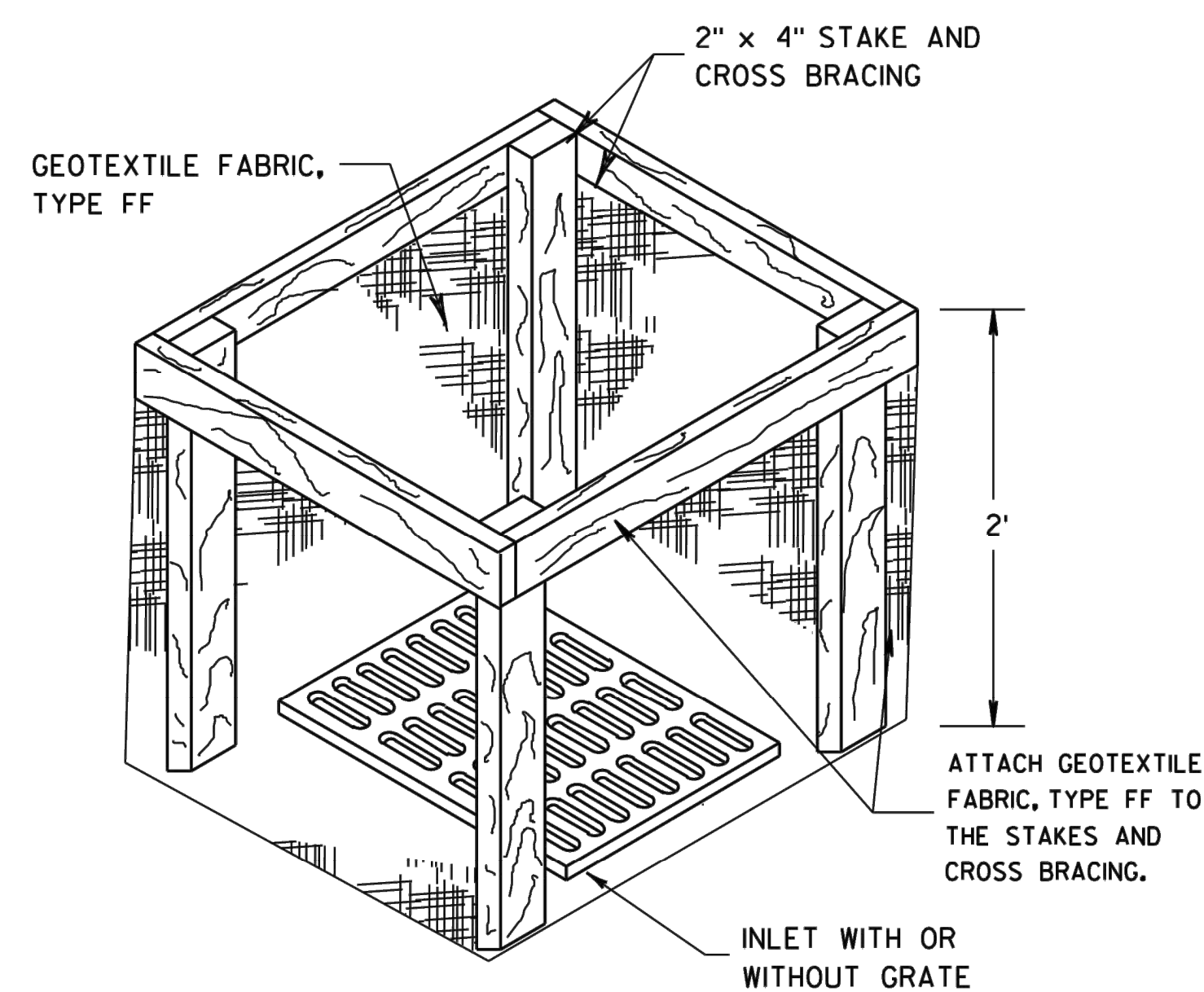
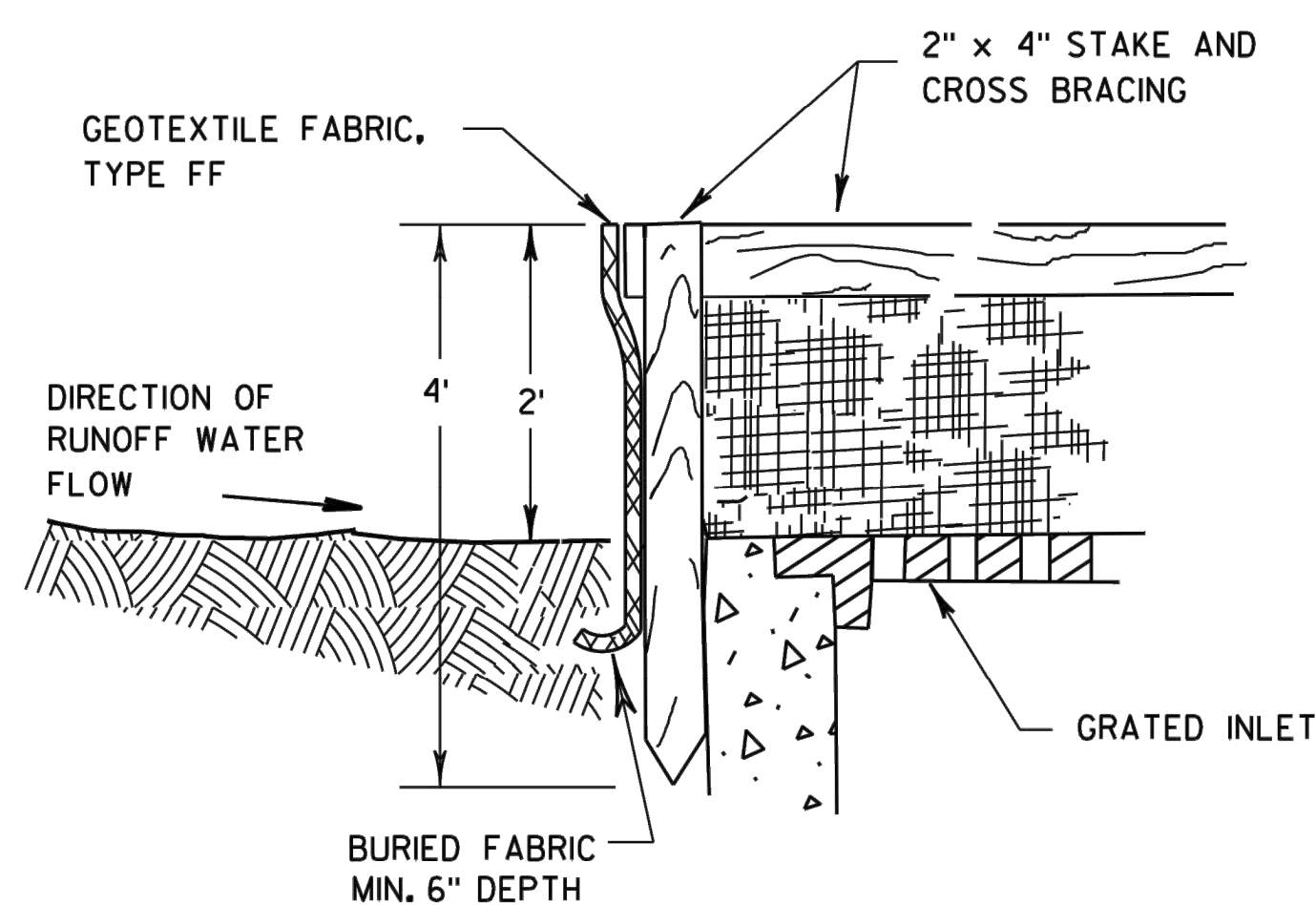


SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/s/ Beth Connestro CHIEF ROADWAY DEVELOPMENT ENGINEER



SDD 8e10 Inlet Protection Type A, B, C and D



INLET PROTECTION, TYPE A

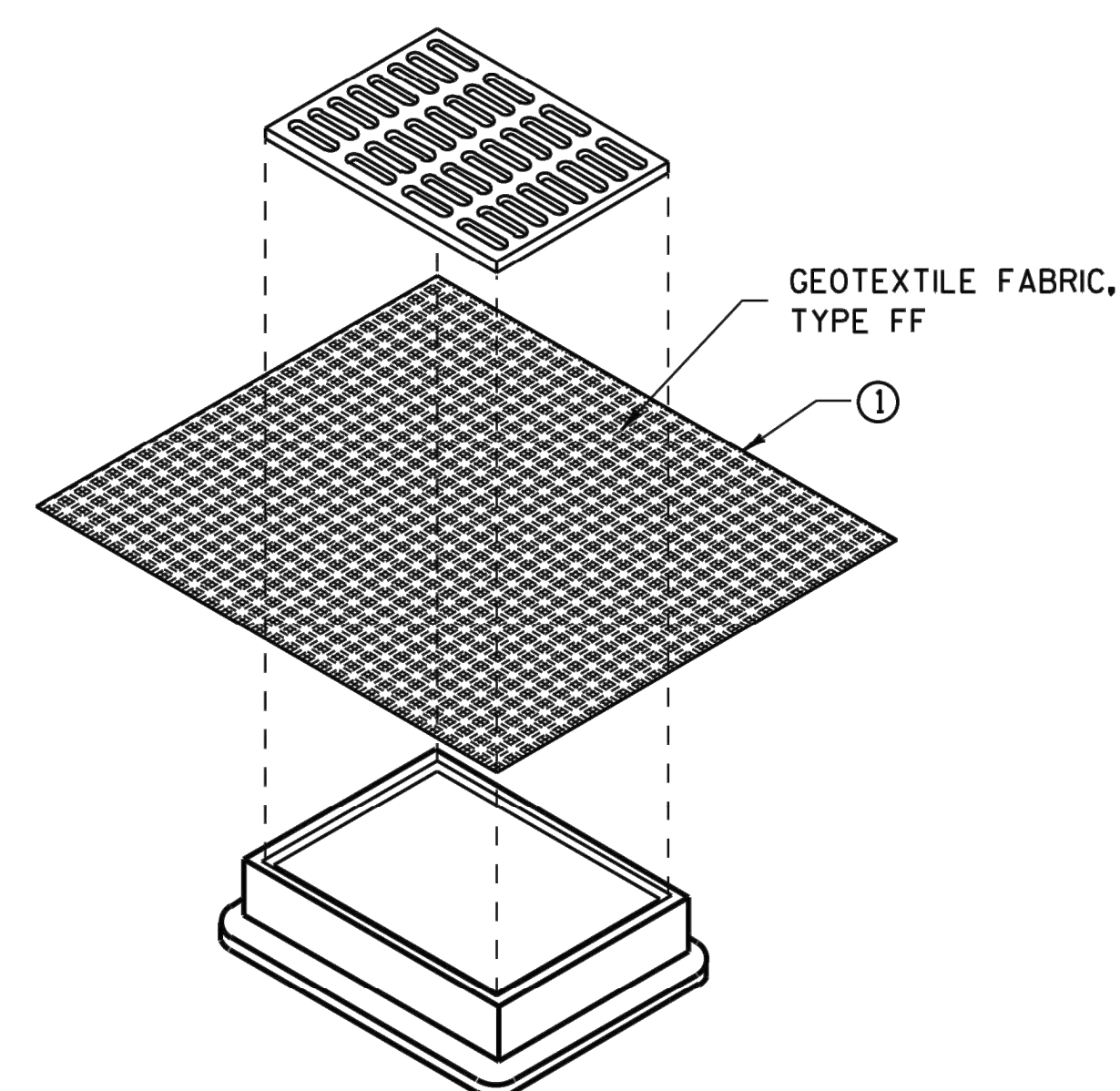
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE
DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE
SUBSTITUTED.

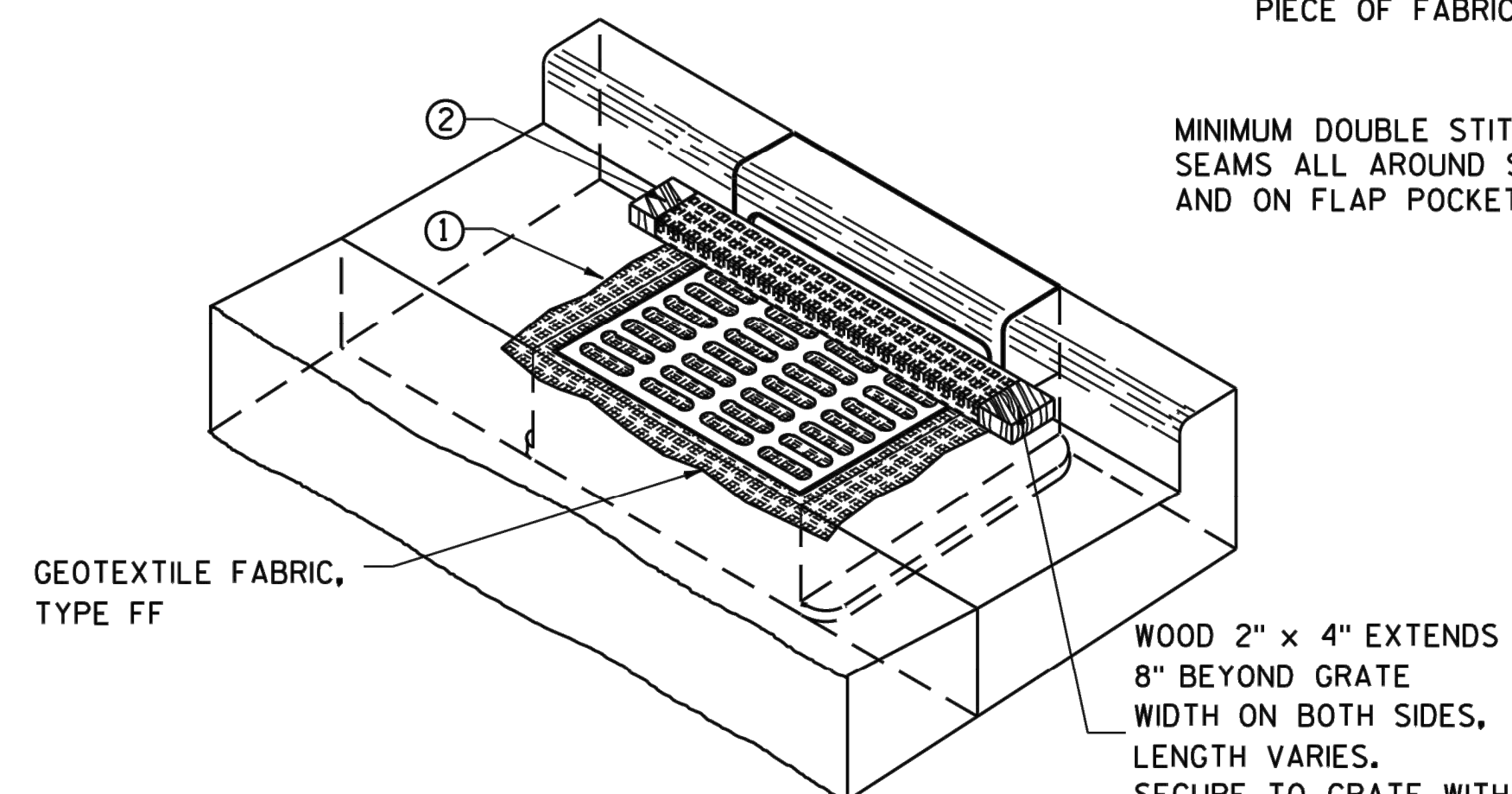
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

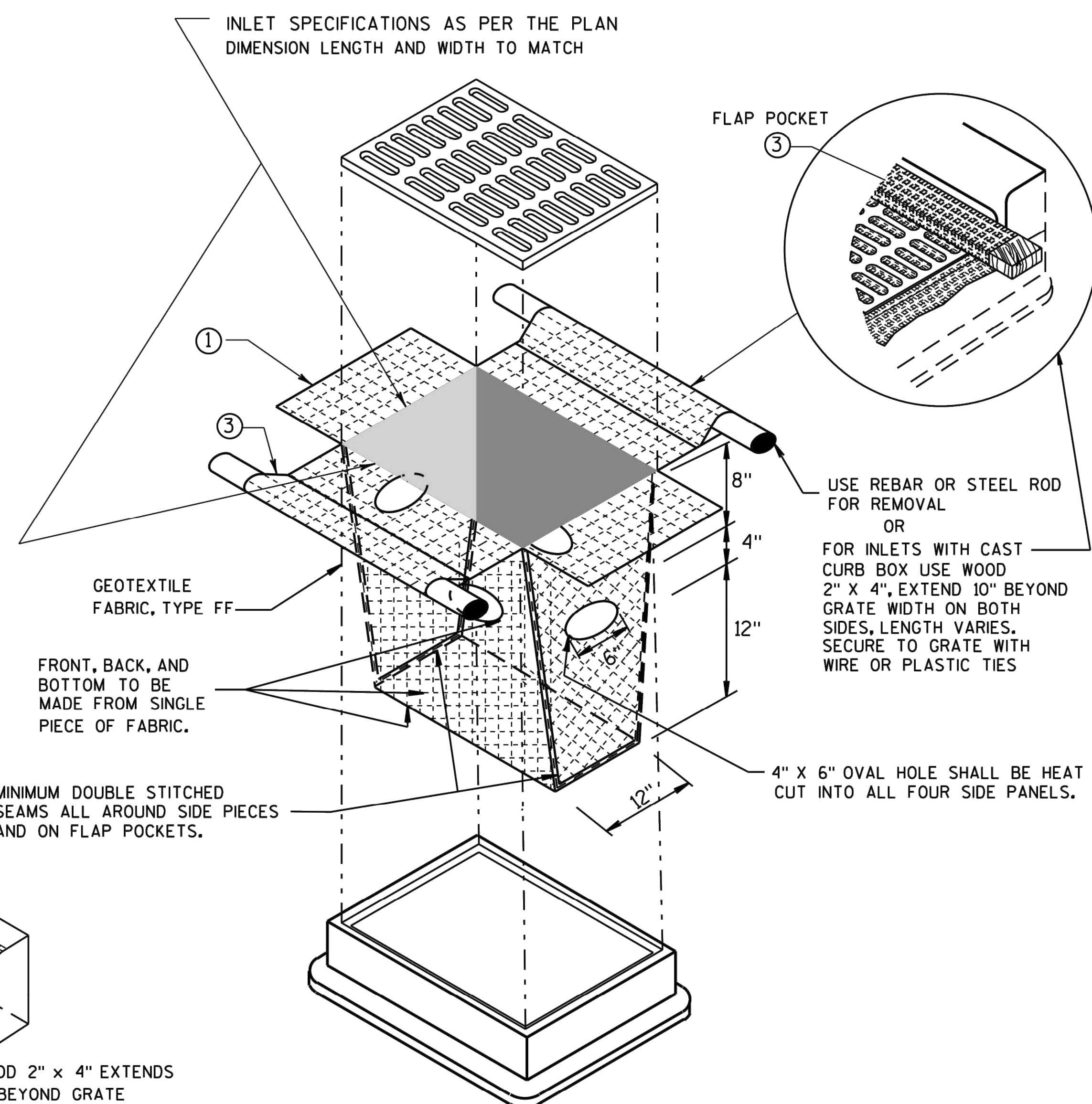
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE (2))

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-16-02 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 10-2

6

6

S.D.D. 8 E 10-2

7			
6			
5			
4			
3			
2			
1			

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GIFFORD SHOOL 2023 - NORTH PARKING LOT

CONSTRUCTION DETAILS

**RACINE UNIFIED SCHOOL DISTRICT, CITY OF RACINE
RACINE COUNTY, WISCONSIN**

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DESIGNED BY: TSP

DRAFTED BY: TSP

CHECKED BY: CLM

DATE: 07-13-2023

FILE NO.

8392-1000

SHEET NO

DT-02

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DESIGNED BY:	TSP
DRAFTED BY:	TSP
CHECKED BY:	CLM
DATE:	07-13-2023
FILE NO. 8392-10008	
SHEET NO. DT-03	



LS-TREE-02.DWG



LS-TREE-03.DWG



LS-TREE-04.DWG

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**

The Village Board of the Village of Caledonia, Racine County, Wisconsin, resolves as follows:

RECITALS

1. Section 9-2-12 entitled Storm Water Management Fees provides that the Village Board shall establish by Resolution the rate for an Equivalent Residential Unit (“ERU”) that shall be imposed to recover all or a portion of the costs incurred by the Village for storm water management purposes.

2. That in accordance with Section 9-2-12(h) of the Ordinance, the Village Board shall levy and collect the storm water management fees as a special charge against property in the District, under Wis. Stat. Sec. 66.0627.

3. On October 9, 2023 the Village of Caledonia Utility District recommended to the Village Board that it adopt the Caledonia Utility District Storm Water 2024 Budget based on a total of 16,246.76 ERU's in the Village-Wide Storm Water Utility District and an overall budget of \$1,058,980.50 for the Village of Caledonia Storm Water Utility District for the time period beginning December 1, 2023 through November 30, 2024.

NOW THEREFORE, BE IT RESOLVED, that the sum of \$65.25 per ERU be levied and assessed as part of the 2023 tax roll in accordance with the methodology set forth in the Ordinance and report that being:

<u>Customer Class</u>	<u>Storm Water Charge</u>
Single Family Residential	1 ERU
Non-Residential	1 ERU for each 5,230 sq. ft. of Impervious Area
Vacant	0.25 ERU

BE IT FURTHER RESOLVED, that all qualifying properties that are entitled to a credit in accordance with the policy adopted Resolution No. 2014-74 shall be granted such credit in accordance with the policy prior to placement of the storm water management fee on the 2023 tax roll.

BE IT FURTHER RESOLVED, that all properties which are exempt from property taxes on the tax roll shall be subject to such special charge.

BE IT FURTHER RESOLVED, that said special charges shall be paid in full on or before January 31, 2024. If not paid, such delinquent special charge shall become a lien as provided in Section 66.0627 (4), Wisconsin Statutes.

BE IT FURTHER RESOLVED that the following storm water management rate be, and hereby is, adopted for the time-period beginning December 1, 2023 through November 30, 2024:

- Rate of \$65.25 per ERU

Adopted by the Village Board of the Village of Caledonia, Racine County, Wisconsin, this ____ day of November 2023.

VILLAGE OF CALEDONIA


By: _____
Thomas Weatherston
Village President

Attest: _____

MEMORANDUM

DATE: Tuesday, October 17, 2023

TO: Caledonia Utility District

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

RE: Change Order #1 – Westview Village Stormwater Improvements

BACKGROUND INFORMATION

This Change Order is for the grading of a small drainage swale to address resident concerns.

This Change Order has an increase in cost of \$2,123.20 and adjusts the contract by 1.37%.

This Change Order has been reviewed and accepted.

It is recommended that Change Order #1 be approved.

RECOMMENDATION

Move to approve Change Order #1 for the Westview Village Stormwater Improvement Project with a contract increase of \$2,123.20.

SECTION 00 63 62
CHANGE ORDER

No. 1

Date of Issuance: October 3, 2023	Effective Date: October 3, 2023
Owner: Caledonia Utility District	Owner's Contract No.: 20C030.11
Contractor: Wanasek Corp.	Contractor's Project No.:
Engineer: Foth Infrastructure & Environment, LLC	Engineer's Project No.: 20C030.11
Project: Westview Village Stormwater Improvements	Contract Name:

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

Description: A small drainage swale was added to address resident concerns.

Attachments: Original Change Order request from Wanasek
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>154,465.00</u>	Original Contract Times: Substantial Completion: <u>September 16, 2022</u> Ready for Final Payment: <u>October 14, 2022</u> days or dates
[Increase] [Decrease] from previously approved Change Orders No. <u> </u> to No. <u> </u> : \$ <u>N/A</u>	[Increase] [Decrease] from previously approved Change Orders No. <u> </u> to No. <u> </u> : Substantial Completion: <u>N/A</u> Ready for Final Payment: <u>N/A</u> days
Contract Price prior to this Change Order: \$ <u>154,465.00</u>	Contract Times prior to this Change Order: Substantial Completion: <u>September 16, 2022</u> Ready for Final Payment: <u>October 14, 2022</u> days or dates
[Increase] [Decrease] of this Change Order: \$ <u>2,123.20</u>	[Increase] [Decrease] of this Change Order: Substantial Completion: <u>N/A</u> Ready for Final Payment: <u>N/A</u> days or dates
Contract Price incorporating this Change Order: \$ <u>156,588.20</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>September 16, 2022</u> Ready for Final Payment: <u>October 14, 2022</u> days or dates

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: <u></u>	By: _____	By: <u></u>
Engineer (if required)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Title: <u>Project Manager</u>	Title: _____	Title: <u>Assistant Corporate Secretary</u>
Date: <u>October 3, 2023</u>	Date: _____	Date: <u>October 10, 2023</u>

Approved by Funding Agency (if applicable)

By: _____ Date: _____
Title: _____



Change Order Request

Change Order Request Number: 22-462 E 09-001

Wanasek Job #

Date: 09/22/2023

Project: Westview Village	Customer Project #
To: Village of Caledonia Attn:	From: Wanasek Corporation 29606 Durand Ave Burlington, WI 53105
Phone:	Phone: 262-763-3561
Fax:	Fax: 262-767-9917

We hereby propose to make the following changes:

Cut in new swale above and beyond warranty work. Swale is approximately 15' wide X 80' long

Warranty work completed on 09/22/23 is not included in these costs.

Change Order Price \$ 2,123.20

If not denied within 48 hours, both parties agree that this work is approved and will be paid.

We are requesting a time extension of 0 days in conjunction with this change.

Wanasek Use	
To PM: 09/29/2023	JR
PM Authorization:	
Sent to customer:	

Change Order Request Summary

22-462 E 09-001

09/22/2023

Labor Type	Man Hours	\$/Hr	Total
Foreman	4.50	\$ 90.50	\$ 407.25
Operator	4.00	\$ 90.50	\$ 362.00
Laborer		\$ 83.00	\$ -
Truck Driver	1.50	\$ 74.25	\$ 111.38
Foreman OT		\$ 127.25	\$ -
Operator OT	1.25	\$ 127.25	\$ 159.06
Laborer OT		\$ 112.75	\$ -
Truck Driver OT		\$ 104.00	\$ -

Subtotal :	\$ 1,039.69
Mark-Up - 15% :	\$ 155.95
Total Labor :	\$ 1,195.64

Material	Quantity	Units	Cost	Total
Topsoil	7.00	cy	\$ 24.00	\$ 168.00
Dumping	2.00	ea	\$ 65.00	\$ 130.00
Grass Seed	30.00	LBS	\$ 3.55	\$ 106.50
Straw Bales	3.00	ea	\$ 4.00	\$ 12.00
				\$ -

Subtotal :	\$ 416.50
Sales Tax - 5.0% :	\$ 20.83
Mark-Up - 15% :	\$ 65.60
Total Materials :	\$ 502.92

Equipment	Hours	Cost	Total
PICK-UP TRUCK	5.75	\$ 22.00	\$ 126.50
SKID STEER W/TRACKS	4.00	\$ 50.75	\$ 203.00
TANDEM AXLE DUMP	1.50	\$ 26.50	\$ 39.75

Subtotal :	\$ 369.25
Mark-Up - 15% :	\$ 55.39
Total Equipment :	\$ 424.64

Subcontractor	Total


Subtotal :	\$ -
Mark-Up - 5% :	\$ -
Total Subcontractors :	\$ -

Total Change Order Request:	\$ 2,123.20
------------------------------------	--------------------

MEMORANDUM

DATE: Wednesday, October 25, 2023

TO: Caledonia Utility District

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

RE: Change Order #2 – Westview Village Stormwater Improvements

BACKGROUND INFORMATION

This Change Order is a miscellaneous Change Order that adjusts the quantities of the project to match the quantities of the items installed. There are 12 items in the bid quantities that require adjustment to match the asbuilt quantities. The total of all of the pluses and minuses equal a increase in the project cost of \$2,137.05.

This Change Order has an increase in cost of \$2,137.05 and adjusts the contract by 1.38%. Overall Change Orders have increased the contract by 2.76%.

This Change Order has been reviewed and accepted.

It is recommended that Change Order #2 be approved.

RECOMMENDATION

Move to approve Change Order #2 for the Westview Village Stormwater Improvement Project with a contract increase of \$2,137.05.

SECTION 00 63 62
CHANGE ORDER

No. 2

Date of Issuance: October 13, 2023	Effective Date: October 13, 2023
Owner: Caledonia Utility District	Owner's Contract No.: 20C030.11
Contractor: Wanasek Corp.	Contractor's Project No.:
Engineer: Foth Infrastructure & Environment, LLC	Engineer's Project No.: 20C030.11
Project: Westview Village Stormwater Improvements	Contract Name:

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

Description: Final unit item quantity rebalance for project closeout

Attachments: NONE

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>154,465.00</u>	Original Contract Times: Substantial Completion: <u>September 16, 2022</u> Ready for Final Payment: <u>October 14, 2022</u> days or dates
[Increase] [Decrease] from previously approved Change Orders No. <u>1</u> to No. <u> </u> : \$ <u>2,123.20</u>	[Increase] [Decrease] from previously approved Change Orders No. <u> </u> to No. <u> </u> : Substantial Completion: <u>N/A</u> Ready for Final Payment: <u>N/A</u> days
Contract Price prior to this Change Order: \$ <u>156,588.20</u>	Contract Times prior to this Change Order: Substantial Completion: <u>September 16, 2022</u> Ready for Final Payment: <u>October 14, 2022</u> days or dates
[Increase] [Decrease] of this Change Order: \$ <u>2,137.05</u>	[Increase] [Decrease] of this Change Order: Substantial Completion: <u>N/A</u> Ready for Final Payment: <u>N/A</u> days or dates
Contract Price incorporating this Change Order: \$ <u>158,725.25</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>September 16, 2022</u> Ready for Final Payment: <u>October 14, 2022</u> days or dates

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: <u></u>	By: _____	By: <u></u>
Engineer (if required)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Title: <u>Project Manager</u>	Title: _____	Title: <u>Asst. Corp Secretary</u>
Date: <u>October 25, 2023</u>	Date: _____	Date: <u>10/25/2023</u>

Approved by Funding Agency (if applicable)

By: _____ Date: _____
Title: _____

Description	Current Contract Quantity	Unit	Unit Price	Total
Mobilization/Demobilization	1	LS	\$ 8,250.00	\$ 8,250.00
Clearing and Grubbing	1	LS	\$ 2,310.00	\$ 2,310.00
Traffic Control	1	LS	\$ 1,080.00	\$ 1,080.00
Silt Fence	1,340	LF	\$ 2.00	\$ 2,680.00
Rock Filled Filter Bag	80	EA	\$ 16.00	\$ 1,280.00
Stripping and Stockpiling Topsoil	2,225	SY	\$ 4.00	\$ 8,900.00
Inlet Protection	4	EA	\$ 70.00	\$ 280.00
Sawcut Pavement, Full Depth	45	LF	\$ 5.00	\$ 225.00
Pavement Removal	210	SY	\$ 4.00	\$ 840.00
Regrading Drainage Swale	42	CY	\$ 65.00	\$ 2,730.00
Connect to Existing Storm Sewer	2	EA	\$ 2,600.00	\$ 5,200.00
36-inch RCP Storm Sewer (Granular Backfill)	101	LF	\$ 235.00	\$ 23,735.00
36-inch RCP Storm Sewer (Spoil Backfill)	228	LF	\$ 175.00	\$ 39,900.00
18-inch RCP Storm Sewer (Spoil Backfill)	16	LF	\$ 125.00	\$ 2,000.00
36-inch End Section	1	EA	\$ 1,975.00	\$ 1,975.00
60-inch Diameter Manhole	6	VF	\$ 880.00	\$ 5,280.00
84-inch Diameter Manhole	6	VF	\$ 1,970.00	\$ 11,820.00
3/4" Crushed Limestone (Shoulder Restoration)	8	TON	\$ 30.00	\$ 240.00
1 1/4" Crushed Limestone (HMA Base)	35	TON	\$ 30.00	\$ 1,050.00
HMA Binder Course	55	TON	\$ 145.00	\$ 7,975.00
HMA Surface Course	20	TON	\$ 280.00	\$ 5,600.00
Bituminous Tack Coat	15	GAL	\$ 6.00	\$ 90.00
Medium Riprap	8	CY	\$ 125.00	\$ 1,000.00
Topsoil, Seed, Fertilizer, and Erosion Mat	2,225	SY	\$ 9.00	\$ 20,025.00
Resident Swale	1	LS	\$ 2,123.20	\$ 2,123.20

Totals= \$156,588.20

Installed Quantity	Installed Total
1	\$ 8,250.00
1	\$ 2,310.00
1	\$ 1,080.00
637	\$ 1,274.00
0	\$ -
2000	\$ 8,000.00
4	\$ 280.00
45	\$ 225.00
207	\$ 828.00
42	\$ 2,730.00
2	\$ 5,200.00
101	\$ 23,735.00
220	\$ 38,500.00
16	\$ 2,000.00
1	\$ 1,975.00
6	\$ 5,280.00
6	\$ 11,820.00
16.11	\$ 483.30
17	\$ 510.00
43.15	\$ 6,256.75
32.18	\$ 9,010.40
0	\$ -
5	\$ 625.00
2914.4	\$ 26,229.60
1	\$ 2,123.20

\$158,725.25


CO 2 Quantity Adjustment	CO 2 Total Adjustment
0	\$ -
0	\$ -
0	\$ -
-703	\$ (1,406.00)
-80	\$ (1,280.00)
-225	\$ (900.00)
0	\$ -
0	\$ -
-3	\$ (12.00)
0	\$ -
0	\$ -
-8	\$ (1,400.00)
0	\$ -
0	\$ -
0	\$ -
8	\$ 243.30
-18	\$ (540.00)
-12	\$ (1,718.25)
12	\$ 3,410.40
-15	\$ (90.00)
-3	\$ (375.00)
689	\$ 6,204.60
0	\$ -

\$2,137.05

MEMORANDUM

DATE: Wednesday, October 25, 2023

TO: Caledonia Utility District

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

RE: Final Acceptance – Westview Village Stormwater Improvements

BACKGROUND INFORMATION

The Wanasek Corp has submitted the final pay request for the Westview Village Stormwater Improvements Project. The work was started in 2022 and completed in 2023. This payment is for the final adjustment of quantities and retainage.

The Final Lien Waivers have been requested. It is recommended that the check not be set out until the Final Lien Waviers have been received.

RECOMMENDATION

Move to recommend Final Acceptance of the Westview Village Stormwater Improvements Project.



Ballpark Commons Office Building
7044 South Ballpark Drive, Suite 200
Franklin, WI 53132
(414) 336-7900
foth.com

October 25, 2023

Mr. Tony Bunkelman, PE
Caledonia Utility District
5043 Chester Lane
Racine, WI 53402

Re: Westview Village Stormwater Improvements

Dear Tony:

Attached, please find Pay Application No. 4, the final payment for the Westview Village Stormwater Improvements project. I recommend processing the pay request as shown.

The total amount recommended for Invoice No. 4 is \$9,953.30

Please let me know if you have any questions or comments.

Sincerely,

Foth Infrastructure & Environment, LLC

A handwritten signature in blue ink that reads "Andrew M. Schultz".

Andrew Schultz, PE
Project Manager
Licensed in WI

Enclosure(s)

Attachment 1

Original Pay Application from Wanasek

APPLICATION AND CERTIFICATE FOR PAYMENT

PAGE 1 OF 2

TO: Caledonia Utility District
333 4-1/2 Mile Road
Racine, WI 53402

PROJECT: Westview Village Stormwater
Improvements

APPLICATION # 4
APPL. DATE: 10/25/2023
BILLING 12/16/2023
PERIOD: 10/31/2023

Distribution to:
OWNER

ARCHITECT
CONTRACTOR

FROM: The Wanasek Corp
29606 Durand Ave
Burlington, WI 53105

OWNER'S:
CONTRACT #
CONTRACT DATE:

22-462

CONTRACTOR'S APPLICATION FOR PAYMENT

CHANGE ORDER SUMMARY		ADDITIONS	DEDUCTIONS
Total Change Orders approved in previous months by Owner			0.00
CHANGE ORDERS APPROVED THIS MONTH			
CO1	Change Order 1	2,123.20	
CO2	Change Order 2	2,137.05	
NET CHANGES by Change Orders		4,260.25	0.00
			4,260.25

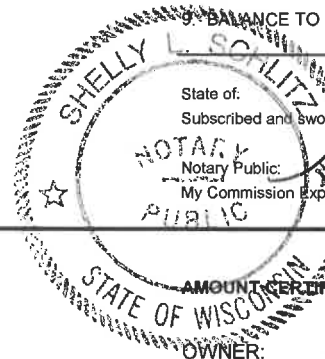
Application is made for payment, as shown below in connection with the Contract.
Continuation Sheets, are attached.

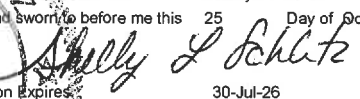
1. ORIGINAL CONTRACT SUM	\$ 154,465.00
2. Net Change by Change Order	4,260.25
3. CONTRACT SUM TO DATE (1 + 2)	\$158,725.25
4. TOTAL COMPLETED & STORED TO DATE (Col. G)	158,725.25
5. RETAINAGE (Column J)	0% 0.00
6. TOTAL EARNED LESS RETAINAGE	158,725.25
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT	148,771.95
8. CURRENT PAYMENT DUE	\$9,953.30
9. BALANCE TO FINISH PLUS RETAINAGE	0.00

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the contract documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that the current payment shown herein is now due.

CONTRACTOR:

BY:  DATE: 25-Oct-23
Shelly Schiltz - Assistant Corporate Secretary



State of: Wisconsin County of: Racine
Subscribed and sworn to before me this 25 Day of October 2023
Notary Public: 
My Commission Expires: 30-Jul-26

OWNER'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observation and the date comprising the application, the Owner certifies that to the best of his knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED. This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payments and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

AMOUNT CERTIFIED \$9,953.30

OWNER:

BY:  DATE: 10/25/2023

ITEM	DESCRIPTION	UNIT PRICE	ESTIMATED QUANTITY	SCHEDULE OF VALUES AMOUNT	QUANTITY PREVIOUS	QUANTITY THIS DRAW	AMOUNT COMPLETED	% COMP
1	Mobilization/Demobilization	\$ 8,250.00	1.00	\$ 8,250.00	1.00		\$ 8,250.00	100%
2	Clearing and Grubbing	\$ 2,310.00	1.00	\$ 2,310.00	1.00		\$ 2,310.00	100%
3	Traffic Control	\$ 1,080.00	1.00	\$ 1,080.00	1.00		\$ 1,080.00	100%
4	Silt Fence	\$ 2.00	1,340.00	\$ 2,680.00	637.00	703.00	\$ 2,680.00	100%
5	Rock Filled Filter Bag	\$ 16.00	80.00	\$ 1,280.00		80.00	\$ 1,280.00	100%
6	Stripping and Stockpiling Topsoil	\$ 4.00	2,225.00	\$ 8,900.00	2,000.00	225.00	\$ 8,900.00	100%
7	Inlet Protection	\$ 70.00	4.00	\$ 280.00	4.00		\$ 280.00	100%
8	Sawcut Pavement, Full Depth	\$ 5.00	45.00	\$ 225.00	45.00		\$ 225.00	100%
9	Pavement Removal	\$ 4.00	210.00	\$ 840.00	207.00	3.00	\$ 840.00	100%
10	Regrading Drainage Swale	\$ 65.00	42.00	\$ 2,730.00	42.00		\$ 2,730.00	100%
11	Connect to Existing Storm Sewer	\$ 2,600.00	2.00	\$ 5,200.00	2.00		\$ 5,200.00	100%
12	36-Inch RCP Storm Sewer (Granular Backfill)	\$ 235.00	101.00	\$ 23,735.00	101.00		\$ 23,735.00	100%
13	36-Inch RCP Storm Sewer (Spoil Backfill)	\$ 175.00	228.00	\$ 39,900.00	220.00	8.00	\$ 39,900.00	100%
14	18-Inch RCP Storm Sewer (Spoil Backfill)	\$ 125.00	16.00	\$ 2,000.00	16.00		\$ 2,000.00	100%
15	36-Inch End Section	\$ 1,975.00	1.00	\$ 1,975.00	1.00		\$ 1,975.00	100%
16	60-Inch Diameter Manhole	\$ 880.00	6.00	\$ 5,280.00	6.00		\$ 5,280.00	100%
17	84-Inch Diameter Manhole	\$ 1,970.00	6.00	\$ 11,820.00	6.00		\$ 11,820.00	100%
18	3/4" Crushed Limestone (Shoulder Restoration)	\$ 30.00	8.00	\$ 240.00	16.11	(8.11)	\$ 240.00	100%
19	1 1/4" Crushed Limestone (HMA Base)	\$ 30.00	35.00	\$ 1,050.00	17.00	18.00	\$ 1,050.00	100%
20	HMA Binder Course	\$ 145.00	55.00	\$ 7,975.00	43.15	11.85	\$ 7,975.00	100%
21	HMA Surface Course	\$ 280.00	20.00	\$ 5,600.00	32.18	(12.18)	\$ 5,600.00	100%
22	Bituminous Tack Coat	\$ 6.00	15.00	\$ 90.00		15.00	\$ 90.00	100%
23	Medium Riprap	\$ 125.00	8.00	\$ 1,000.00	5.00	3.00	\$ 1,000.00	100%
24	Topsoil, Seed, Fertilizer, and Erosion Mat	\$ 9.00	2,225.00	\$ 20,025.00	2,914.40	(689.40)	\$ 20,025.00	100%
				\$ -				
CO1	Change Order 1	\$ 2,123.20	1.00	\$ 2,123.20	-	1.00	\$ 2,123.20	100%
CO2	Change Order 2	\$ 2,137.05	1.00	\$ 2,137.05	-	1.00	\$ 2,137.05	100%
	TOTAL			\$ 158,725.25			\$ 158,725.25	100%

Note: Total Schedule of Values Amount should equal the current Contract Price

\$ -



THE WANASEK CORP.
EXCAVATION & UTILITY CONTRACTOR

Invoice Number: 22-462-04 final
Invoice Date: 10/25/2023
Customer Number: 813900
Job Number: 22-462ES
Due Date: 11/24/2023

Caledonia Utility District
333 4 1/2 Mile Road
Racine, WI 53402

**Westview Village Stormwater
Improvements**

Draw #4 - Final: \$ 9,953.30

Gross Billing:	\$	9,953.30
5% Retainage:	\$	-
Net Billing:	\$	9,953.30



Member *For each month or part thereof that amounts due are not paid within 15 days of invoice date, a late charge of 1 1/2% per month will be added. Customer shall pay all costs of collection including attorney's fees and services rendered in collecting past due invoices.




Since 1903

29606 Durand Ave • Burlington, WI 53105 • 262-763-3561 • 888-763-1550 • Fax: 262-767-9917 • www.wanasek.com

MEMORANDUM

DATE: Wednesday, October 25, 2023

TO: Caledonia Utility District

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

RE: Change Order #2 Washington Meadows Water Main Improvements

BACKGROUND INFORMATION

Change Order #2 on the Washington Meadow Water Main Improvements Project is a miscellaneous Change Order that adjusts the quantities of the bid items to match the asbuilt quantities. There are 20 bid items that require adjustment to match the asbuilt quantities. The total of all of the pluses and minuses equal a decrease in the project cost of \$95,906.11.

Change Order #2 adjusts the contract by -5.70%. Overall change orders have decreased the contract by -3.91%

It is recommended that Change Order #2 be approved.

RECOMMENDATION

Move to approve Change Order #2 in the amount of -\$95,906.11 for the Washington Meadows Water Main Improvements Project.

No. 2

-Final quantity balance spreadsheet.

By: _____ Date: _____
Title: _____

Description	Current Contract Quantity	Unit	Unit Price	Total
Mobilization/Demobilization	1	LS	\$ 90,000.00	\$ 90,000.00
Traffic Control	1	LS	\$ 7,015.00	\$ 7,015.00
Clearing and Grubbing	1	LS	\$ 8,700.00	\$ 8,700.00
Sawcut Pavement, Full Depth	6,900	LF	\$ 2.35	\$ 16,215.00
Remove and Replace Signing	1	LS	\$ 1,390.00	\$ 1,390.00
Remove and Replace Postal Boxes	1	LS	\$ 5,350.00	\$ 5,350.00
Silt Fence	365	LF	\$ 2.85	\$ 1,040.25
Rock Filled Filter Bags	870	EA	\$ 12.10	\$ 10,527.00
Inlet Protection	34	EA	\$ 167.00	\$ 5,678.00
8-inch PVC Water Main, Spoil Backfill	2,163	LF	\$ 72.00	\$ 155,736.00
8-inch PVC Water Main, Granular Backfill	4,517	LF	\$ 106.50	\$ 481,060.50
8-inch PVC Water Main, Slurry Backfill	202	LF	\$ 184.00	\$ 37,168.00
Hydrant Assembly	15	EA	\$ 7,350.00	\$ 110,250.00
6-inch Hydrant Lead	179	LF	\$ 50.50	\$ 9,039.50
8-inch Gate Valve	19	EA	\$ 2,350.00	\$ 44,650.00
HDPE Water Service (1") - Open Cut	1,132	LF	\$ 60.50	\$ 68,486.00
HDPE Water Service (1") - Trenchless Pit Launch Installation	1,828	LF	\$ 45.10	\$ 82,442.80
1" Water Service Fittings	93	EA	\$ 581.00	\$ 54,033.00
Connection to Existing Water Main	4	EA	\$ 3,500.00	\$ 14,000.00
Polystyrene Insulation 4"W X 4"T	80	LF	\$ 12.50	\$ 1,000.00
1 1/4" Dense Graded Base (HMA Base)	2,550	TON	\$ 19.15	\$ 48,832.50
3/4" Dense Graded Base (Driveway & Shoulder Restoration)	400	TON	\$ 33.25	\$ 13,300.00
HMA Binder Course	960	TON	\$ 182.00	\$ 174,720.00
HMA Surface Course (Includes Driveways)	650	TON	\$ 133.50	\$ 86,775.00
Bituminous Tack Coat	2,020	GAL	\$ 6.40	\$ 12,928.00
12" CMP Culverts w/ FES	308	LF	\$ 86.50	\$ 26,642.00
9" x 14" CMPA Culverts w/ FES	108	LF	\$ 87.70	\$ 9,471.60
13"x17" CMPA Culverts w/ FES	72	LF	\$ 97.60	\$ 7,027.20
Ditching	2,670	LF	\$ 11.30	\$ 30,171.00
Topsoil, Seed, Fertilizer, and Erosion Mat	10,500	SY	\$ 6.75	\$ 70,875.00
Sanitary Sewer Lateral Relay	200	LF	\$ 193.50	\$ 38,700.00
Pole Holding Allowance	1	LS	\$ 20,000.00	\$ 20,000.00
6-inch PVC Water Main, Spoil Backfill	2,163	LF	\$ (8.00)	\$ (17,304.00)
6-inch PVC Water Main, Granular Backfill	4,517	LF	\$ (8.00)	\$ (36,136.00)
HDPE Water Service (2") - Open Cut	202	LF	\$ (1.00)	\$ (202.00)
2" Water Service Fittings	19	EA	\$ (400.00)	\$ (7,600.00)
Various Items	1	LS	\$ 30,073.55	\$ 30,073.55

Totals= \$1,712,054.90

Installed Quantity	Installed Total
1	\$ 90,000.00
1	\$ 7,015.00
1	\$ 8,700.00
6900	\$ 16,215.00
1	\$ 1,390.00
1	\$ 5,350.00
365	\$ 1,040.25
870	\$ 10,527.00
34	\$ 5,678.00
2154	\$ 155,088.00
4636	\$ 499,734.00
162	\$ 29,808.00
15	\$ 110,250.00
167.5	\$ 8,458.75
19	\$ 44,650.00
987	\$ 59,713.50
1976	\$ 89,117.60
92	\$ 53,452.00
4	\$ 14,000.00
80	\$ 1,000.00
2279.5	\$ 43,652.43
164.58	\$ 5,472.29
1069.68	\$ 194,681.76
419.79	\$ 56,041.97
200	\$ 1,280.00
374	\$ 32,351.00
135	\$ 11,839.50
72	\$ 7,027.20
2670	\$ 30,171.00
8182	\$ 55,228.50
27	\$ 5,224.50
0	\$ -
2154	\$ (17,232.00)
4636	\$ (37,088.00)
162	\$ (162.00)
19	\$ (7,600.00)
1	\$ 30,073.55

Totals= \$1,616,148.79


CO 2 Quantity Adjustment	CO 2 Total Adjustment
0	\$ -
0	\$ -
0	\$ -
0	\$ -
0	\$ -
0	\$ -
0	\$ -
0	\$ -
-9	\$ (648.00)
119	\$ 12,673.50
-40	\$ (7,360.00)
0	\$ -
-12	\$ (580.75)
0	\$ -
-145	\$ (8,772.50)
148	\$ 6,674.80
-1	\$ (581.00)
0	\$ -
0	\$ -
-271	\$ (5,180.08)
-235	\$ (7,827.72)
110	\$ 19,961.76
-230	\$ (30,733.04)
-1,820	\$ (11,648.00)
66	\$ 5,709.00
27	\$ 2,367.90
0	\$ -
0	\$ -
-2,318	\$ (15,646.50)
-173	\$ (33,475.50)
-1	\$ (20,000.00)
-9	\$ 72.00
119	\$ (952.00)
-40	\$ 40.00
0	\$ -
0	\$ -

Totals= -\$95,906.12

MEMORANDUM

DATE: Tuesday, October 17, 2023

TO: Caledonia Utility District

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

RE: Final Acceptance – Washington Meadows Watermain Improvements

BACKGROUND INFORMATION

Reesman's Excavating & Grading has submitted the final pay request for the Washington Meadows Watermain Improvements Project. The work was started in 2022 and completed in 2023. This payment is for the final adjustment of quantities and retainage.

The Final Lien waivers have been received.

RECOMMENDATION

Move to recommend Final Acceptance of the Washington Meadows Watermain Improvements Project.



Ballpark Commons Office Building
7044 South Ballpark Drive, Suite 200
Franklin, WI 53132
(414) 336-7900
foth.com

October 12, 2023

Tony Bunkelman, PE
Caledonia Utility District
333 4 ½ Mile Road
Racine, WI 53402

Re: Washington Meadows Water Main Relay-Pay Application No. 6 (Final)

Dear Tony,

Attached is Pay Application No. 6 for the above referenced project. I recommend processing the pay request as shown.

The total amount recommended for Invoice Pay Application No. 6 is \$40,403.72.

Please let me know if you have any questions or comments.

Sincerely,

Foth Infrastructure & Environment, LLC

A handwritten signature in blue ink, appearing to read "Andrew M. Schultz".

Andrew M. Schultz, PE
Project Manager
Licensed in WI

Enclosure(s)

Attachment 1

Original pay request from Reesmans

TO GENERAL CONTR.: FROM CONTRACTOR: Reesman's Excavating and Grading 28815 Bushnell Road Burlington, WI 53105 CONTRACT OWNER : Vilalge of Caledonia Utility District	PROJECT: Washington Meadows Water Main Improvements ENGINEER: Foth CONTRACT DATE:	APPLICATION NO.: 6 INVOICE NO: 22EWMW1-6 INVOICE DATE: 8/7/2023 PERIOD: 5/19/2023 TO: 6/19/2023 DISTRIBUTION TO: <input checked="" type="checkbox"/> X / OWNER <input checked="" type="checkbox"/> X / ENGINEER/ARCHITECT <input checked="" type="checkbox"/> X / CONTRACTOR
---	--	---

CONTRACTOR'S APPLICATION FOR PAYMENT

THE UNDERSIGNED CONTRACTOR CERTIFIES THAT TO THE BEST OF THE CONTRACTOR'S KNOWLEDGE, INFORMATION AND BELIEF THE WORK COVERED BY THIS APPLICATION FOR PAYMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THAT ALL AMOUNTS HAVE BEEN PAID BY THE CONTRACTOR FOR WORK FOR WHICH PREVIOUS CERTIFICATES FOR PAYMENT WERE ISSUED AND PAYMENTS RECEIVED FROM THE OWNER, AND THAT CURRENT PAYMENT SHOWN HEREIN IS NOW DUE.

CONTRACTOR: REESMAN'S EXCAVATING AND GRADING

BY: 

DATE: 8-9-2023

STATE OF: WISCONSIN COUNTY OF: RACINE

SUBSCRIBED AND SWORN TO BEFORE ME THIS 9th DAY OF August 2023

NOTARY PUBLIC:  MY COMMISSION EXPIRES: 4-21-25

APPLICATION IS MADE FOR PAYMENT, AS SHOWN BELOW, IN CONNECTION WITH THE CONTRACT. A CONTINUATION SHEET IS ATTACHED.

1. ORIGINAL CONTRACT AMOUNT	\$1,681,981.35
2. NET CHANGE BY CHANGE ORDERS	\$30,073.55
3. CONTRACT SUM TO DATE	\$1,712,054.90
4. TOTAL COMPLETED & STORED TO DATE	\$1,616,148.79
5. RETAINAGE 5% to 50% completion	0%
**TOTAL	\$0.00
6. TOTAL EARNED LESS RETAINAGE	\$1,616,148.79
7. LESS PREVIOUS PAYMENTS REQUESTED	\$1,575,745.07
8. CURRENT PAYMENT DUE	\$40,403.72
9. BALANCE TO FINISH, PLUS RETAINAGE	\$95,906.12

ARCHITECT/ENGINEER'S CERTIFICATE OF PAYMENT

IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, BASED ON ON-SITE OBSERVATIONS AND THE DATA COMPRISING THE ABOVE APPLICATION, THE ARCHITECT/ENGINEER CERTIFIES TO THE OWNER THAT TO THE BEST OF THE ARCHITECT/ENGINEER'S KNOWLEDGE, INFORMATION AND BELIEF THE WORK HAS PROGRESSES AS INDICATED, THE QUALITY OF THE WORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND THE CONTRACTOR IS ENTITLED TO PAYMENT OF THE AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$40,403.72

ATTACH EXPLANATION IF AMOUNT CERTIFIED DIFFERS FROM THE AMOUNT APPLIED FOR

ARCHITECT/ENGINEER:

BY:



DATE: 10/12/2023

MERICA HAMMOND
Notary Public, State of Wisconsin

THIS CERTIFICATE IS NOT NEGOTIABLE. THE AMOUNT CERTIFIED IS PAYABLE ONLY TO THE CONTRACTOR NAMED HEREIN. ISSUANCE, PAYMENT AND ACCEPTANCE OF PAYMENT ARE WITHOUT PREJUDICE TO ANY RIGHTS OF THE OWNER OR CONTRACTOR UNDER THIS CONTRACT.

CONTINUATION SHEET

AIA Document G702, Application and Certificate for Payment,
containing Contractor's signed Certification is attached.

Schedule of Values

Application no.: 6

Invoice No.: 22EWMW1-6

Invoice Date: 6/27/2023

Washington Meadows				From: 5/19/2023				To: 6/19/2023			
A	B			C	D	E	G	H	I	J	K
ITEM NUMBER	DESCRIPTION OF WORK	UNIT	BID QUANTITY	UNIT PRICE	SCHEDULED VALUE	(D+E+F) OF PREVIOUS APPLICATION	WORK COMPLETED QUANTITY THIS PERIOD	TOTAL QUANTITY COMPLETE (D+E+F)	AMOUNT THIS PERIOD (E+F) * C	TOTAL AMOUNT COMPLETED AND STORED TO DATE (G+I)	BALANCE TO FINISH (J) % COMPLETE (I/K)
1	Mobilization	1	LS	\$90,000.00	\$90,000.00	1.00	0.00	1.00	\$0.00	\$90,000.00	\$0.00 100%
2	Traffic Control	1	LS	\$7,015.00	\$7,015.00	1.00	0.00	1.00	\$0.00	\$7,015.00	\$0.00 100%
3	Clearing & Grubbing	1	LS	\$8,700.00	\$8,700.00	1.00	0.00	1.00	\$0.00	\$8,700.00	\$0.00 100%
4	Sawcut Pavement	6900	LF	\$2.35	\$16,215.00	6,900.00	0.00	6900.00	\$0.00	\$16,215.00	\$0.00 100%
5	Remove & Replace Signing	1	LS	\$1,390.00	\$1,390.00	1.00	0.00	1.00	\$0.00	\$1,390.00	\$0.00 100%
6	Remove & Replace Mailboxes	1	LS	\$5,350.00	\$5,350.00	1.00	0.00	1.00	\$0.00	\$5,350.00	\$0.00 100%
7	Silt Fence	365	LF	\$2.85	\$1,040.25	365.00	0.00	365.00	\$0.00	\$1,040.25	\$0.00 100%
8	Rock Filled Bags	870	EA	\$12.10	\$10,527.00	870.00	0.00	870.00	\$0.00	\$10,527.00	\$0.00 100%
9	Inlet Protection	34	EA	\$167.00	\$5,678.00	34.00	0.00	34.00	\$0.00	\$5,678.00	\$0.00 100%
10	8" PVC Water Main - Spoil Backfill	2163	LF	\$72.00	\$155,736.00	2,154.00	0.00	2154.00	\$0.00	\$155,088.00	\$648.00 100%
11	8" PVC Water Main - Granular Backfill	4517	LF	\$106.50	\$481,060.50	4,636.00	0.00	4636.00	\$0.00	\$493,734.00	(\$12,673.50) 103%
12	8" PVC Water Main - Slurry Backfill	202	LF	\$184.00	\$37,168.00	162.00	0.00	162.00	\$0.00	\$29,808.00	\$7,360.00 80%
13	Hydrant Assembly	15	EA	\$7,350.00	\$110,250.00	15.00	0.00	15.00	\$0.00	\$110,250.00	\$0.00 100%
14	6" Hydrant Lead	179	LF	\$50.50	\$9,039.50	167.50	0.00	167.50	\$0.00	\$8,458.75	\$580.75 94%
15	8" Gate Valve	19	EA	\$2,350.00	\$44,650.00	19.00	0.00	19.00	\$0.00	\$44,650.00	\$0.00 100%
16	HDPE Water Service (1") Open Cut	1132	LF	\$60.50	\$68,486.00	987.00	0.00	987.00	\$0.00	\$59,713.50	\$8,772.50 87%
17	HDPE Water Service (1") Trenchless Pit Launch Install	1828	LF	\$45.10	\$82,442.80	1,976.00	0.00	1976.00	\$0.00	\$89,117.60	(\$5,674.80) 108%
18	1" Water Service Fittings	93	EA	\$581.00	\$54,033.00	92.00	0.00	92.00	\$0.00	\$53,452.00	\$581.00 99%
19	Connection To Existing Water Main	4	EA	\$3,500.00	\$14,000.00	4.00	0.00	4.00	\$0.00	\$14,000.00	\$0.00 100%
20	Polystyrene Insulation 4" W x 4" T	80	LF	\$12.50	\$1,000.00	80.00	0.00	80.00	\$0.00	\$1,000.00	\$0.00 100%
21	1 1/4" Dense Graded Driveway & Shoulder Restoration	2550	Ton	\$19.15	\$48,832.50	2,279.50	0.00	2279.50	\$0.00	\$43,652.43	\$5,180.08 89%
22	3/4" Dense Base (Driveway & Shoulder Restoration)	400	EA	\$33.25	\$13,300.00	164.58	0.00	164.58	\$0.00	\$5,472.29	\$7,827.72 41%
23	HMA Binder Course	960	TON	\$182.00	\$174,720.00	1,069.68	0.00	1069.68	\$0.00	\$194,681.76	(\$19,961.76) 111%
24	HMA Surface Course	650	TON	\$133.50	\$86,775.00	419.79	0.00	419.79	\$0.00	\$56,041.97	\$30,733.04 65%
25	Bituminous Tack Coat	2020	GAL	\$6.40	\$12,928.00	200.00	0.00	200.00	\$0.00	\$1,280.00	\$11,648.00 10%
26	12" CMP Culverts w/FES	308	LF	\$86.50	\$26,642.00	374.00	0.00	374.00	\$0.00	\$32,351.00	(\$5,709.00) 121%
27	9" x 14" CMPA w/FES	108	LF	\$87.70	\$9,471.60	135.00	0.00	135.00	\$0.00	\$11,839.50	(\$2,367.90) 125%
28	13" x 17" CMPA	72	LF	\$97.60	\$7,027.20	72.00	0.00	72.00	\$0.00	\$7,027.20	\$0.00 100%
29	Ditching	2670	LF	\$11.30	\$30,171.00	2,670.00	0.00	2670.00	\$0.00	\$30,171.00	\$0.00 100%
30	Topsoil, Seed, Fertilizer & Erosion Mat	10500	SY	\$6.75	\$70,875.00	8,182.00	0.00	8182.00	\$0.00	\$55,228.50	\$15,646.50 78%
31	Sanitary Sewer Lateral Relay	200	LF	\$193.50	\$38,700.00	27.00	0.00	27.00	\$0.00	\$5,224.50	\$33,475.50 14%
***	Allowances - Utility Pole Holding	1	EA	\$20,000.00	\$20,000.00	0.00	0.00	0.00	\$0.00	\$0.00	\$20,000.00 0%
Alternate Bid - 6" Water Main											
10A	Unit Price Adjustment from 8" to 6" Water Main - Spoil Backfill	2163	LF	-\$8.00	-\$17,304.00	2,154.00	0.00	2154.00	\$0.00	(\$17,232.00)	(\$72.00) 100%
11A	Unit Price Adjustment from 8" to 6" Water Main - Granular Backfill	4517	LF	-\$8.00	-\$36,136.00	4,636.00	0.00	4636.00	\$0.00	(\$37,088.00)	\$952.00 103%
12A	Unit Price Adjustment from 8" to 6" PVC Water Main - Slurry Backfill	202	LF	-\$1.00	-\$202.00	162.00	0.00	162.00	\$0.00	(\$162.00)	(\$40.00) 80%
15A	Unit Price Adjustment from 8" to 6" Gate Valve	19	EA	-\$400.00	-\$7,600.00	19.00	0.00	19.00	\$0.00	(\$7,600.00)	\$0.00 100%
BASE CONTRACT TOTALS					\$1,681,981.35				\$0.00	\$1,586,075.24	\$95,906.12 94%
<i>Change Orders</i>											
	Cindy Drive Road Extension	1	LS	\$4,451.50	\$4,451.50	1.00	0.00	1.00	\$0.00	\$4,451.50	\$0.00 100%
	12 Valve Replacement	1	LS	\$7,977.16	\$7,977.16	1.00	0.00	1.00	\$0.00	\$7,977.16	\$0.00 100%
	Green Bay & 3 Mile Road Water Break Repair & Valve Rebuild	1	LS	\$9,479.78	\$9,479.78	1.00	0.00	1.00	\$0.00	\$9,479.78	\$0.00 100%
	Relay Culverts on Yorktown	1	LS	\$936.00	\$936.00	1.00	0.00	1.00	\$0.00	\$936.00	\$0.00 100%
	Install Hydrant At Deer Creek	1	LS	\$7,229.11	\$7,229.11	1.00	0.00	1.00	\$0.00	\$7,229.11	\$0.00 100%
CHANGE ORDER TOTALS					\$30,073.55				\$0.00	\$30,073.55	\$0.00 100%
TOTAL CONTRACT TO DATE					\$1,712,054.90				\$0.00	\$1,616,148.79	\$95,906.12 94%

MEMORANDUM

DATE: Wednesday, October 25, 2023

TO: Caledonia Utility District

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



RE: Hoods Creek Attenuation Basin Expansion – Final Acceptance

BACKGROUND INFORMATION

Miron Construction Co. Inc. will be submitting the final pay request for the Hoods Creek Attenuation Basin Expansion Project. The work was started in 2022 and completed in 2023.

There is some warranty work on the 2 flushing gates in cell 4 to be completed due to some leakage. The adjustment of the flushing gates has been brought up to the contractor and a schedule for the work should be provided shortly.

This payment is for the final adjustment of quantities and retainage. The pay request is anticipated to be received on October 26. Due to scheduling conflicts the packet may not have this request in it and will be brought to the Utility District Commission meeting.

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

RECOMMENDATION

Move to recommend Final Acceptance of the Hoods Creek Attenuation Basin Expansion Project.