

AGENDA
BOARD OF PUBLIC WORKS MEETING
Tuesday, March 28, 2023 at 6:00 p.m.
Jackson Municipal Complex
Village Board Room
N168W19851 Main Street
Jackson, WI 53037

1. Call to Order and Roll Call
2. Approval of the Board of Public Works Minutes of February 28, 2023
3. Review of Bids for The Oaks of Jackson Subdivision Utility Installation
4. Review of Bids for 2023 Utility & Street Improvements CTH P, Sherman Road and Highland Road
5. Resolution #23-06 Preliminary Intent to Special Assess for Highland Road Improvements
6. Resolution #23-07 Preliminary Intent to Special Assess for Sherman Road Sanitary Sewer Installation
7. Pay Request #2 – STH 60 Utility Upgrade Project
8. Announcements Spring Cleanup Day and Yard Waste/Brush Pickup
9. Director of Public Works Report
10. Citizens/Village Staff to address the Board
11. Adjourn

Persons with disabilities requiring special accommodations for attendance at the meeting should contact the Administration Department at the Jackson Municipal Complex at least one (1) business day prior to the meeting.

It is possible that members of the Village Board may attend the above meeting. No action will be taken by any governmental body at this meeting other than the governmental body specifically referred to in this meeting notice. This notice is given so that members of the Village Board may attend the meeting without violating the open meeting law.

DRAFT MINUTES
Board of Public Works Meeting
Tuesday, February 28, 2023 at 6:00 p.m.
Jackson Municipal Complex
Village Board Room
N168W19851 Main Street
Jackson, WI 53037

1. Call to Order and Roll Call

Chair Tr. Heckendorf called the meeting to order at 6:00 p.m.

Members Present: Tr. Engelhardt, Tr. Matter, Tim Meffert, Jeff Mitchell, and Chris Sberna

Member Excused: Sarah Malchow

Staff Present: Administrator Jen Keller, Director of Public Works Brian Kober, and Clerk Jilline Dobratz

2. Approval of the Board of Public Works Minutes of January 31, 2023

Motion by Tr. Matter, second by Tr. Engelhardt to approve the Board of Public Works minutes of January 31, 2023.

Vote: 6 ayes, 0 nays. Motion carried.

3. Water Service Request – Derek Strohm – Tax Key No. T7-0744 – Mill Road

Director Kober gave background information on water service requests. The property is in the Town of Jackson Water Expansion Area. If granted, a resolution is approved for a one year period. If the connection is not made, the property owner would have to re-apply for water connection.

Motion by Tr. Heckendorf, second by Tim Meffert to recommend Village Board approve Water Service Request – Derek Strohm – Tax Key No. T7-0744 on Mill Road with an expiration of one year from the time it is approved.

Vote: 6 ayes, 0 nays. Motion carried.

4. Review of Village Code Mailbox Policy

Director Kober reviewed the current mailbox policy and \$30.00 reimbursement amount.

Motion by Tr. Heckendorf, second by Tr. Engelhardt to recommend Village Board approve the increase to the Village Code Mailbox Policy to \$50.00.

Director Kober stated if approved by the Village Board, the increase will be placed on the 2024 Fee Schedule.

Vote: 6 ayes, 0 nays. Motion carried.

5. Review of Rate Increase for Jackson Sewer and Water Utilities

Director Kober provided an update on sewer and water projects. Water Utility would complete the simplified rate case through the Public Service Commission (PSC), and the resulted rate increase would be accepted by both Utilities. The water rate increased needs PSC approval, the sewer rate increase only needs Village Board approval.

Motion by Tr. Heckendorf, second by Tr. Engelhardt to review the rate increase for Jackson Sewer and Water Utilities to a future Board of Public Works meeting.

Vote: 6 ayes, 0 nays. Motion carried.

6. Resolution 23-04 – Establishing Rate for Septic and Holding Tank Waste

Director Kober explained the Sewer Utility rate study from Town & Country. Discussion ensued on rate amounts.

Motion by Tr. Heckendorf, second by Chris Sberna to recommend Budget & Finance and Village Board approve Resolution 23-04 – Establishing Rate for Septic and Holding Tank Waste with the following rates; Holding Tank \$10.00 per 1,000 gallons, Septic System \$60.00 per 1,000 gallons, Septic Decant \$25.00 per 1,000 gallons, Grease Decant \$40.00 per 1,000 gallons, and Grease \$150.00 per 1,000 gallons with price increases effective July 1, 2023.

Vote: 6 ayes, 0 nays. Motion carried.

7. Pay Request #1 – STH 60 Utility Upgrade Project

Director Kober commented on the status of the project.

Motion by Tr. Matter, second by Tim Meffert to recommend Budget & Finance and Village Board approve Pay Request #1 to Advance Construction in the amount of \$115,787.61.

Vote: 6 ayes, 0 nays. Motion carried.

8. Pay Request #5 – Willow Ridge Drive Reconstruction Project

Director Kober explained the pay request. Approximately \$5,000.00 is being held for landscaping issues.

Motion by Tr. Heckendorf, second by Chris Sberna to recommend Budget & Finance and Village Board approve Pay Request #5 – Willow Ridge Drive Reconstruction Project in the amount of \$41,865.80.

Vote: 6 ayes, 0 nays. Motion carried.

9. Director of Public Works Report

Director Kober explained the report authored for the review of the Board.

Motion by Tr. Heckendorf, second by Tr. Engelhardt to place the Director of Public Works Report on file.

Vote: 6 ayes, 0 nays. Motion carried.

10. Citizens/Village Staff to Address the Board

None.

11. Adjourn

Motion by Tr. Heckendorf, second by Tr. Engelhardt to adjourn.

Vote: 6 ayes, 0 nays. Meeting was adjourned at 6:44 p.m.

Respectfully submitted,

Jilline Dobratz, *MMC/WCPC*
Village Clerk

Memo

To: Jen Keller, Village Administrator

From: Brian W. Kober, P. E., Director of Public Works/Village Engineer

Subject: Bid Results – The Oaks of Jackson Subdivision Utility Installation

Date: March 24, 2023

CC: Board of Public Works; Village Board

The Oaks of Jackson Subdivision Utility installation received five bids for the project. This was great news for the project. The project was aggressively bid with the five bids from low to high has a difference of roughly \$337,278.

In concurrence with the recommendation by Robert Malzahn, P.E. from SHE, Inc, accept DF Tomasini Contractors, Inc. for the amount of \$1,955,419.53 with Alternate No. 3 for a credit of \$24,000.00 to sell the topsoil from the site.

Also, with the approval of the bid the Village of Jackson is approving the extension of sanitary sewer and water to serve the property.

If you have any questions, please let me know.

Brian W. Kober, P.E.



Building a Better World
for All of Us®

March 21, 2023

RE: Village of Jackson, Wisconsin
The Oaks of Jackson
Recommendation of Award
SEH No. JACKV 170026 64.00

Mr. Brian Kober, P.E.
Director of Public Works & Village Engineer
Village of Jackson
W194N16660 Eagle Drive
Jackson, WI 53037

Dear Brian:

At 10:00 am, on Tuesday, March 21, 2023, the Village of Jackson (Village) received a total of 5 bids for subject project. The base bids ranged from a low of \$1,955,419.53 to a high of \$2,292,697.00. The bid summary below shows that the lowest responsible bidder was DF Tomasini Contractors, Inc.

<u>Contractor</u>	<u>Contract Total</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
DF Tomasini Contractors, Inc.	\$1,955,419.53	\$26,969.30	\$67,480.00	(\$24,000.00)
Mid City Corporation	\$2,056,288.00	\$26,700.50	\$66,800.00	\$80.00
Wondra Construction, Inc.	\$2,111,781.07	\$22,432.50	\$98,000.00	\$196,000.00
UPI Construction LLC	\$2,235,051.00	\$28,526.00	\$67,200.00	\$160.00
Buteyn-Peterson Construction Co.	\$2,292,697.00	\$49,232.50	\$68,000.00	(\$24,000.00)

The bids received were very competitive and all from reputable contractors. Specifically, DF Tomasini Contractors, Inc. is a well-known and often used general contractor, specializing in utility installation. SEH has done many projects with them in the past. We do not have any concerns using them to complete this project.

Please note the price for Alternate No. 3 is based on a unit price credit of \$3.00 per cubic yard for excess topsoil removal. The quantity provided for bidding purposes was estimated and the actual will be determined during construction, for which the final cost of this alternate may be different than presented. This is a reasonable unit price and comparable to other Village projects.

Accordingly, we recommend that the Village of Jackson award The Oaks of Jackson project to DF Tomasini Contractors, Inc. in the amount of \$1,955,419.53; and accept the unit price credit provided for Alternate No. 3 which upon determination of final quantity will be adjusted with a change order.

Engineers | Architects | Planners | Scientists

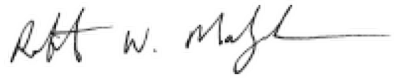
Short Elliott Hendrickson Inc., 501 Maple Avenue, Delafield, WI 53018-9351

262.646.6855 | 888.908.8166 fax | sehinc.com

SEH is 100% employee-owned | Affirmative Action–Equal Opportunity Employer

Recommendation of Award
March 21, 2023
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Sincerely,

A handwritten signature in black ink, appearing to read "R. Malzahn", followed by a horizontal line.

Robert Malzahn, P.E.
Project Engineer

Enclosure: Bid Tabulation

c: Mike Court, P.E. (SEH)

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The Oaks of Jackson - Village of Jackson (#8412855)
Owner: Village of Jackson
Solicitor: SEH - Delafield, WI
03/21/2023 10:00 AM CDT

Buteyn-Peterson Construction													
Company													
Section Title	Line Item	Item Code	Item Description	Units	Quantity	DF Tomasini Contractors, Inc.	Mid City Corporation	Wondra Construction, Inc.	UPI Construction LLC				
						Unit Price	Extension	Unit Price	Extension	Unit Price	Extension	Unit Price	Extension
SECTION 100 EROSION CONTROL AND SITE GRADING ITEMS							\$371,907.30		\$387,545.00		\$335,562.78		\$390,771.00
	1	100-01	Mobilization	LS	1	\$30,350.00	\$30,350.00	\$68,500.00	\$68,500.00	\$36,820.00	\$36,820.00	\$36,076.00	\$36,076.00
	2	100-02	Clearing and Grubbing	AC	3	\$13,755.00	\$41,265.00	\$7,250.00	\$21,750.00	\$5,333.33	\$15,999.99	\$14,100.00	\$42,300.00
	3	100-03	Tree Protection Fence	LF	600	\$3.99	\$2,394.00	\$3.95	\$2,370.00	\$3.90	\$2,340.00	\$4.10	\$2,460.00
	4	100-04	Silt Fence	LF	2400	\$1.77	\$4,248.00	\$1.75	\$4,200.00	\$1.65	\$3,960.00	\$2.00	\$4,800.00
	5	100-05	Sediment Logs	EA	120	\$126.25	\$15,150.00	\$125.00	\$15,000.00	\$75.00	\$9,000.00	\$130.00	\$15,600.00
	6	100-06	Tracking Pad	EA	1	\$4,337.00	\$4,337.00	\$4,294.00	\$4,294.00	\$3,398.79	\$3,398.79	\$4,446.00	\$4,446.00
	7	100-07	Inlet Protection Type A	EA	4	\$253.00	\$1,012.00	\$250.00	\$1,000.00	\$185.00	\$740.00	\$259.00	\$1,036.00
	8	100-08	Inlet Protection Type C	EA	17	\$65.65	\$1,116.05	\$65.00	\$1,105.00	\$65.00	\$1,105.00	\$68.00	\$1,156.00
	9	100-09	Inlet Protection Type D	EA	9	\$126.25	\$1,136.25	\$125.00	\$1,125.00	\$135.00	\$1,215.00	\$130.00	\$1,170.00
	10	100-10	Strip and Stockpile Topsoil	LS	1	\$43,831.00	\$43,831.00	\$43,397.00	\$43,397.00	\$77,588.00	\$77,588.00	\$44,927.00	\$44,927.00
	11	100-11	Site Grading	LS	1	\$134,086.00	\$134,086.00	\$132,758.00	\$132,758.00	\$87,500.00	\$87,500.00	\$137,438.00	\$137,438.00
	12	100-12	Basin Construction	LS	2	\$3,651.00	\$7,302.00	\$3,618.00	\$7,236.00	\$10,228.00	\$20,456.00	\$3,746.00	\$7,492.00
	13	100-13	Respread Topsoil, Seed, and Fertilizer	SY	60000	\$0.71	\$42,600.00	\$0.70	\$42,000.00	\$0.78	\$46,800.00	\$0.75	\$45,000.00
	14	100-14	Erosion Mat Class I Type A	SY	8000	\$1.57	\$12,560.00	\$1.55	\$12,400.00	\$1.00	\$8,000.00	\$1.65	\$13,200.00
	15	100-15	Erosion Mat Class II Type B	SY	2600	\$3.13	\$8,138.00	\$3.10	\$8,060.00	\$1.80	\$4,680.00	\$3.25	\$8,450.00
	16	100-16	Erosion Mat Class III Type B	SY	200	\$15.66	\$3,132.00	\$15.50	\$3,100.00	\$13.80	\$2,760.00	\$16.10	\$3,220.00
	17	100-17	Straw Mulch	SY	55000	\$0.35	\$19,250.00	\$0.35	\$19,250.00	\$0.24	\$13,200.00	\$0.40	\$22,000.00
SECTION 200 ROADWAY ITEMS							\$492,635.26		\$487,853.00		\$509,057.00		\$507,540.00
	18	200-01	Base Repair	CY	250	\$50.00	\$12,500.00	\$49.50	\$12,375.00	\$49.68	\$12,420.00	\$51.30	\$12,825.00
	19	200-02	Prepare Foundation for HMA Paving	LS	1	\$15,529.76	\$15,529.76	\$15,500.00	\$15,500.00	\$7,500.00	\$7,500.00	\$8,155.00	\$8,155.00
	20	200-03	Base Aggregate Dense 3/4"	TN	1600	\$15.57	\$24,912.00	\$23.09	\$36,944.00	\$20.34	\$32,544.00	\$24.00	\$38,400.00
	21	200-04	Base Aggregate Dense 1-1/4"	TN	6300	\$15.57	\$98,091.00	\$15.42	\$97,146.00	\$17.80	\$112,140.00	\$16.00	\$100,800.00
	22	200-05	HMA Pavement 4 LT 58-28 S (3")	SY	8100	\$13.94	\$112,914.00	\$13.80	\$111,780.00	\$13.80	\$111,780.00	\$15.30	\$123,930.00
	23	200-06	Concrete Curb & Gutter 30" Vertical Face	LF	5100	\$19.19	\$97,869.00	\$19.00	\$96,900.00	\$20.05	\$102,255.00	\$19.70	\$100,470.00
	24	200-07	Concrete Sidewalk 4-Inch	SF	25900	\$4.51	\$116,809.00	\$4.00	\$103,600.00	\$4.52	\$117,068.00	\$4.20	\$108,780.00
	25	200-08	Concrete Sidewalk 6-Inch	SF	650	\$8.49	\$5,518.50	\$8.00	\$5,200.00	\$8.52	\$5,538.00	\$8.30	\$5,395.00
	26	200-09	Curb Ramp Detectable Warning Field (Yellow)	SF	150	\$40.40	\$6,060.00	\$40.00	\$6,000.00	\$40.00	\$6,000.00	\$41.50	\$6,225.00
	27	200-10	Geotextile Type SR	SY	400	\$3.04	\$1,216.00	\$3.01	\$1,204.00	\$2.39	\$956.00	\$3.20	\$1,280.00
	28	200-11	Geogrid Type SR	SY	400	\$3.04	\$1,216.00	\$3.01	\$1,204.00	\$2.14	\$856.00	\$3.20	\$1,280.00
SECTION 300 SANITARY SEWER ITEMS							\$366,581.79		\$390,500.00		\$428,151.24		\$449,002.00
	29	300-01	Connection to Existing Utility	EA	1	\$2,059.14	\$2,059.14	\$2,500.00	\$2,500.00	\$913.57	\$913.57	\$3,123.00	\$3,123.00
	30	300-02	6-Inch PVC SDR-35 Sanitary Lateral w/ Granular	LF	1675	\$80.42	\$134,703.50	\$80.00	\$134,000.00	\$76.47	\$128,087.25	\$76.00	\$127,300.00
	31	300-03	8-Inch PVC SDR-35 Sanitary Sewer Main w/ Grar	LF	2300	\$77.92	\$179,216.00	\$85.00	\$195,500.00	\$98.79	\$227,217.00	\$103.00	\$236,900.00
	32	300-04	Sanitary Manhole 4-FT Diameter	EA	13	\$3,492.55	\$45,403.15	\$3,750.00	\$48,750.00	\$5,008.57	\$65,111.41	\$5,384.00	\$69,992.00
	33	300-05	Sanitary Manhole Internal Chimney Seal	EA	13	\$400.00	\$5,200.00	\$750.00	\$9,750.00	\$524.77	\$6,822.01	\$899.00	\$11,687.00
SECTION 400 STORM SEWER ITEMS							\$321,224.35		\$333,540.00		\$392,597.68		\$409,058.00
	34	400-01	Connection to Existing Utility	EA	2	\$2,362.14	\$4,724.28	\$1,000.00	\$2,000.00	\$3,122.21	\$6,244.42	\$2,161.00	\$4,322.00
	35	400-02	Storm Sewer RCP Class V 12-Inch	LF	400	\$59.21	\$23,684.00	\$60.00	\$24,000.00	\$62.97	\$25,188.00	\$64.00	\$25,600.00
	36	400-03	Storm Sewer RCP Class IV 15-Inch	LF	940	\$63.92	\$60,084.80	\$65.00	\$61,100.00	\$70.19	\$65,978.60	\$69.00	\$64,860.00
	37	400-04	Storm Sewer RCP Class III 18-Inch	LF	650	\$66.95	\$43,517.50	\$70.00	\$45,500.00	\$74.12	\$48,178.00	\$73.00	\$47,450.00
	38	400-05	Storm Sewer RCP Class III 24-Inch	LF	155	\$90.99	\$14,103.45	\$75.00	\$11,625.00	\$92.81	\$14,385.55	\$90.00	\$13,950.00
	39	400-06	Storm Sewer RCP Class III 27-Inch	LF	75	\$104.98	\$7,873.50	\$115.00	\$8,625.00	\$102.21	\$7,665.75	\$105.00	\$7,875.00
	40	400-07	Storm Sewer HDPE 12-Inch	LF	550	\$39.94	\$21,967.00	\$35.00	\$19,250.00	\$52.83	\$29,056.50	\$42.00	\$23,100.00
	41	400-08	Storm Sewer HDPE 15-Inch	LF	111	\$48.22	\$5,352.42	\$40.00	\$4,440.00	\$55.26	\$6,133.86	\$47.00	\$5,217.00

	42	400-09	Storm Reinforced Concrete Endwall 12-Inch	EA	2	\$876.00	\$1,752.00	\$1,250.00	\$2,500.00	\$1,172.74	\$2,345.48	\$1,144.00	\$2,288.00	\$980.00	\$1,960.00
	43	400-10	Storm Reinforced Concrete Endwall 18-Inch	EA	1	\$968.00	\$968.00	\$2,000.00	\$2,000.00	\$1,264.74	\$1,264.74	\$1,418.00	\$1,418.00	\$1,100.00	\$1,100.00
	44	400-11	Storm Reinforced Concrete Endwall 27-Inch	EA	1	\$1,456.00	\$1,456.00	\$3,000.00	\$3,000.00	\$1,558.03	\$1,558.03	\$2,047.00	\$2,047.00	\$1,425.00	\$1,425.00
	45	400-12	Storm PVC SDR-35 Pipe 6-Inch (Sump System)	LF	1275	\$31.78	\$40,519.50	\$40.00	\$51,000.00	\$51.06	\$65,101.50	\$63.00	\$80,325.00	\$49.00	\$62,475.00
	46	400-13	Storm PVC SDR-35 6-Inch Clean-Out (Sump System)	EA	4	\$697.35	\$2,789.40	\$750.00	\$3,000.00	\$728.32	\$2,913.28	\$477.00	\$1,908.00	\$550.00	\$2,200.00
	47	400-14	Storm Catch Basin 3-FT Diameter	EA	4	\$2,091.16	\$8,364.64	\$2,250.00	\$9,000.00	\$2,582.06	\$10,328.24	\$3,112.00	\$12,448.00	\$2,845.00	\$11,380.00
	48	400-15	Storm Inlet Manhole 4-FT Diameter	EA	8	\$2,775.24	\$22,201.92	\$2,750.00	\$22,000.00	\$3,625.28	\$29,002.24	\$3,734.00	\$29,872.00	\$3,670.00	\$29,360.00
	49	400-16	Storm Inlet Manhole 5-FT Diameter	EA	3	\$3,584.22	\$10,752.66	\$3,500.00	\$10,500.00	\$4,781.87	\$14,345.61	\$4,803.00	\$14,409.00	\$5,200.00	\$15,600.00
	50	400-17	Storm Manhole 4-FT Diameter (Doghouse)	EA	1	\$2,778.30	\$2,778.30	\$3,250.00	\$3,250.00	\$3,900.12	\$3,900.12	\$4,121.00	\$4,121.00	\$4,000.00	\$4,000.00
	51	400-18	Storm Inlet 2x3-FT	EA	17	\$2,233.99	\$37,977.83	\$2,250.00	\$38,250.00	\$2,606.32	\$44,307.44	\$3,366.00	\$57,222.00	\$2,900.00	\$49,300.00
	52	400-19	Storm Outlet Structure 4-FT Diameter	EA	1	\$4,127.33	\$4,127.33	\$5,000.00	\$5,000.00	\$7,350.16	\$7,350.16	\$4,563.00	\$4,563.00	\$4,525.00	\$4,525.00
	53	400-20	Storm Outlet Structure 5-FT Diameter	EA	1	\$6,229.82	\$6,229.82	\$7,500.00	\$7,500.00	\$7,350.16	\$7,350.16	\$6,063.00	\$6,063.00	\$6,750.00	\$6,750.00
SECTION 500 WATER MAIN ITEMS							\$403,070.83		\$456,850.00		\$446,412.37		\$478,680.00		\$561,545.00
	54	500-01	Connection to Existing Utility	EA	2	\$4,320.28	\$8,640.56	\$5,000.00	\$10,000.00	\$830.30	\$1,660.60	\$5,498.00	\$10,996.00	\$2,125.00	\$4,250.00
	55	500-02	8-Inch PVC C-900 Water Main w/ Granular Backfill	LF	2600	\$74.19	\$192,894.00	\$80.00	\$208,000.00	\$89.97	\$233,922.00	\$88.00	\$228,800.00	\$118.00	\$306,800.00
	56	500-03	6-Inch PVC C-900 Water Hydrant Lead w/ Granular Backfill	LF	100	\$148.95	\$14,895.00	\$90.00	\$9,000.00	\$102.92	\$10,292.00	\$84.00	\$8,400.00	\$147.00	\$14,700.00
	57	500-04	8-Inch Gate Valve and Box	EA	7	\$2,382.61	\$16,678.27	\$3,000.00	\$21,000.00	\$3,014.31	\$21,100.17	\$2,586.00	\$18,102.00	\$2,900.00	\$20,300.00
	58	500-05	Hydrant Assembly w/ Granular Backfill	EA	6	\$6,653.11	\$39,918.66	\$10,000.00	\$60,000.00	\$7,435.44	\$44,612.64	\$7,552.00	\$45,312.00	\$8,260.00	\$49,560.00
	59	500-06	Existing Hydrant Relocation	EA	2	\$2,359.54	\$4,719.08	\$3,000.00	\$6,000.00	\$1,500.00	\$3,000.00	\$5,757.00	\$11,514.00	\$3,350.00	\$6,700.00
	60	500-07	1-1/4-Inch HDPE SDR-9 Water Service	LF	1875	\$47.35	\$88,781.25	\$40.00	\$75,000.00	\$46.15	\$86,531.25	\$52.00	\$97,500.00	\$64.00	\$120,000.00
	61	500-08	1-1/4-Inch Water Service Tap and Corporation Valve	EA	59	\$304.77	\$17,981.43	\$600.00	\$35,400.00	\$377.34	\$22,263.06	\$496.00	\$29,264.00	\$340.00	\$20,060.00
	62	500-09	1-1/4-Inch Water Curb Valve and Box	EA	59	\$314.62	\$18,562.58	\$550.00	\$32,450.00	\$390.35	\$23,030.65	\$488.00	\$28,792.00	\$325.00	\$19,175.00
Base Bid Total:						\$1,955,419.53		\$2,056,288.00		\$2,111,781.07		\$2,235,051.00		\$2,292,697.00	
ALTERNATE NO. 1 - BASIN A CONSTRUCTION (ADD)							\$26,969.30		\$26,700.50		\$22,432.50		\$28,526.00		\$49,232.50
	63	A1-01	Silt Fence	LF	330	\$1.77	\$584.10	\$1.75	\$577.50	\$1.65	\$544.50	\$1.80	\$594.00	\$2.25	\$742.50
	64	A1-02	Strip and Stockpile Topsoil	LS	1	\$4,786.39	\$4,786.39	\$4,739.00	\$4,739.00	\$2,452.00	\$2,452.00	\$5,924.00	\$5,924.00	\$1,500.00	\$1,500.00
	65	A1-03	Site Grading (Berm Construction)	LS	1	\$12,039.20	\$12,039.20	\$11,920.00	\$11,920.00	\$9,680.00	\$9,680.00	\$12,218.00	\$12,218.00	\$15,000.00	\$15,000.00
	66	A1-04	Basin Construction	LS	1	\$2,364.41	\$2,364.41	\$2,341.00	\$2,341.00	\$4,616.00	\$4,616.00	\$2,400.00	\$2,400.00	\$22,000.00	\$22,000.00
	67	A1-05	Erosion Mat Class I Type A	SY	1600	\$1.57	\$2,512.00	\$1.55	\$2,480.00	\$1.00	\$1,600.00	\$1.60	\$2,560.00	\$1.50	\$2,400.00
	68	A1-06	Erosion Mat Class III Type B	SY	70	\$15.66	\$1,096.20	\$15.50	\$1,085.00	\$13.80	\$966.00	\$16.00	\$1,120.00	\$20.00	\$1,400.00
	69	A1-07	Respread Topsoil, Seed, and Fertilizer	SY	2900	\$1.08	\$3,132.00	\$1.07	\$3,103.00	\$0.78	\$2,262.00	\$1.10	\$3,190.00	\$2.00	\$5,800.00
	70	A1-08	Straw Mulch	SY	1300	\$0.35	\$455.00	\$0.35	\$455.00	\$0.24	\$312.00	\$0.40	\$520.00	\$0.30	\$390.00
ALTERNATE NO. 2 - Contractor Purchase and Haul Excess Common Excavation (ADD/DEDUCT)							\$67,480.00		\$66,800.00		\$98,000.00		\$67,200.00		\$68,000.00
	71	A2-01	Purchase Excess Common and Haul Away	CY	4000	\$16.87	\$67,480.00	\$16.70	\$66,800.00	\$24.50	\$98,000.00	\$16.80	\$67,200.00	\$17.00	\$68,000.00
ALTERNATE NO. 3 - Contractor Purchase and Haul Excess Topsoil (ADD/DEDUCT)							(\$24,000.00)		\$80.00		\$196,000.00		\$160.00		(\$24,000.00)
	72	A3-01	Purchase Excess Topsoil and Haul Away	CY	8000	(\$3.00)	(\$24,000.00)	\$0.01	\$80.00	\$24.50	\$196,000.00	\$0.02	\$160.00	(\$3.00)	(\$24,000.00)

----	RIGHT OF WAY
-----	PERMANENT EASEMENT
-----	PROPERTY LINE
△ ^{XX}	HORIZONTAL CONTROL POINT
× ^{BM}	BENCHMARK
●	SURVEY MARKER
●/◐	SOIL BORING
-----○-----	SANITARY SEWER AND MANHOLE
-----FM-----	FORCE MAIN AND LIFT STATION
-----○-----	SANITARY SEWER SERVICE & CLEANOUT
----- -----	WATER MAIN, HYDRANT, VALVE AND MANHOLE
-----●-----	WATER SERVICE AND CURB STOP BOX
-----○-----	STORM SEWER, MANHOLE AND CATCH BASIN
>-----	CULVERT AND APRON ENDWALL
G-----G-----G	GAS MAIN, VALVE, VENT AND METER
□ HH	HANDHOLE
-----FO-----	BURIED FIBER OPTIC CABLE AND MANHOLE
-----T-BUR-----	BURIED PHONE CABLE, PEDESTAL AND MANHOLE
-----TV-BUR-----	BURIED TV CABLE, PEDESTAL AND MANHOLE
-----P-BUR-----	BURIED ELECTRIC CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER
-----P-OH-----	OVERHEAD WIRE, POLE AND GUY WIRE
☼	LIGHT POLE
⊠	TRAFFIC SIGNAL
⊕	STREET NAME SIGN
⊙	SIGN (NON STREET NAME)
=====	RAILROAD TRACKS
⊙ 6"	DECIDUOUS AND CONIFEROUS TREE
⊙ 6"	BUSH / SHRUB AND STUMP
⊙ 6"	
~~~~~	EDGE OF WOODED AREA
-----WET-----	WETLAND
-----	BUILDING
-----X-----	FENCE (UNIDENTIFIED)
-----X-----	BARBED WIRE FENCE
-----XC-----	CHAIN LINK FENCE
-----XE-----	ELECTRIC WIRE FENCE
-----XWD-----	WOOD FENCE
-----XWW-----	WOVEN WIRE FENCE
-----	PLATE BEAM GUARDRAIL
-----	CABLE GUARDRAIL
-----○P-----	POST / BOLLARD
-----	RETAINING WALL

	STREET CENTERLINE
	RIGHT-OF-WAY
	PERMANENT EASEMENT
	TEMPORARY EASEMENT
	CONSTRUCTION LIMITS
	SANITARY SEWER, BULKHEAD AND MANHOLE
	FORCE MAIN
	SANITARY SERVICE AND CLEANOUT
	WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE
	WATER VALVE MANHOLE, REDUCER, BEND AND CROSS
	WATER SERVICE AND CURB STOP BOX
	STORM SEWER, MANHOLE AND CATCH BASIN
	CULVERT AND APRON ENDWALL
	DRAIN TILE
	DITCH / SWALE
	RIPRAP
	STREET NAME SIGN
	SIGN (NON STREET NAME)
	RETAINING WALL

The map displays a residential neighborhood with a central development highlighted in purple. The development is situated between Spruce Street to the north and Ridgeway Drive to the south. It includes Jackson Oaks Dr and Ridgeway Drive. Other streets shown include Pine Drive, Linden Drive, Aspen Drive, Hawthorn Drive, and Hickory Lane. The map also shows surrounding streets like STH 60 and various street names like Pine Drive, Linden Drive, Aspen Drive, Hawthorn Drive, and Hickory Lane. The map is oriented with North at the top.

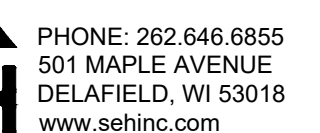
THE CONTRACTOR SHALL CALL THE WISCONSIN ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.



Sheet Number	Sheet Title
	TITLE & DETAILS
T 0.01	TITLE
D 1.00	DETAILS
D 1.01	DETAILS
D 1.02	DETAILS
	EROSION CONTROL & GRADING
C 2.00	INTERIM GRADING AND EROSION CONTROL PLAN
C 2.01	MASTER GRADING PLAN - OVERALL SITE
C 2.02	BASIN A
C 2.03	BASIN B
C 2.04	BASIN C
	ROAD & STORM SEWER
C 3.00	RIDGEWAY DRIVE - STA 1+00 TO 8+00
C 3.01	RIDGEWAY DRIVE - STA 8+00 TO 15+00
C 3.02	RIDGEWAY DRIVE - STA 15+00 TO 20+80
C 3.03	JACKSON OAKS DRIVE
C 3.04	STORM SEWER CROSSINGS
C 3.05	INTERSECTION DETAILS
	SANITARY SEWER & WATER MAIN
C 4.00	RIDGEWAY DRIVE - STA 1+00 TO 8+00
C 4.01	RIDGEWAY DRIVE - STA 8+00 TO 15+00
C 4.02	RIDGEWAY DRIVE - STA 15+00 TO 20+80
C 4.03	JACKSON OAKS DRIVE

VILLAGE OF JACKSON,  
WASHINGTON COUNTY

REV #	DATE	COMMENTS
1	03/07/2023	REVISED PER MUNICIPAL COMMENTS



of 19



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THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE A MINIMUM OF 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

STANDARD SPECIFICATIONS: PERFORM ALL WORK IN ACCORDANCE WITH THE PROVISIONS OF "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", MOST RECENT EDITION, AND "STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND OTHER REVISIONS TO DATE, UNLESS OTHERWISE SPECIFIED IN THE SPECIFICATIONS.

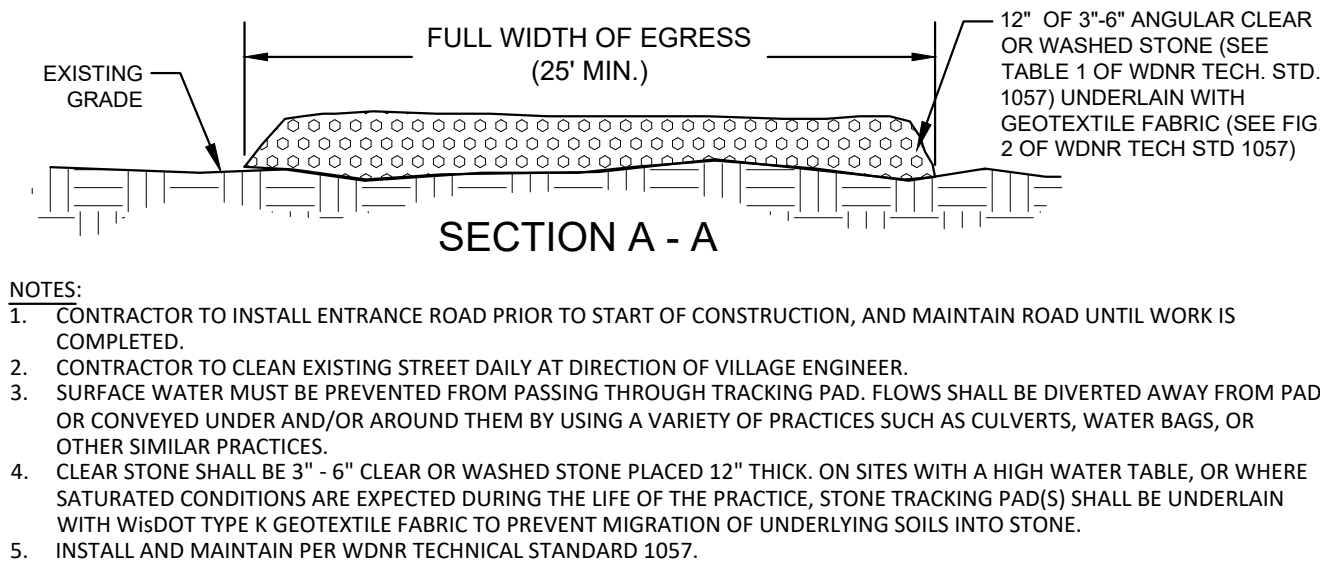
ALL CONTRACTORS SHALL OBTAIN A COPY OF THE VILLAGE OF JACKSON SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.

#### GENERAL

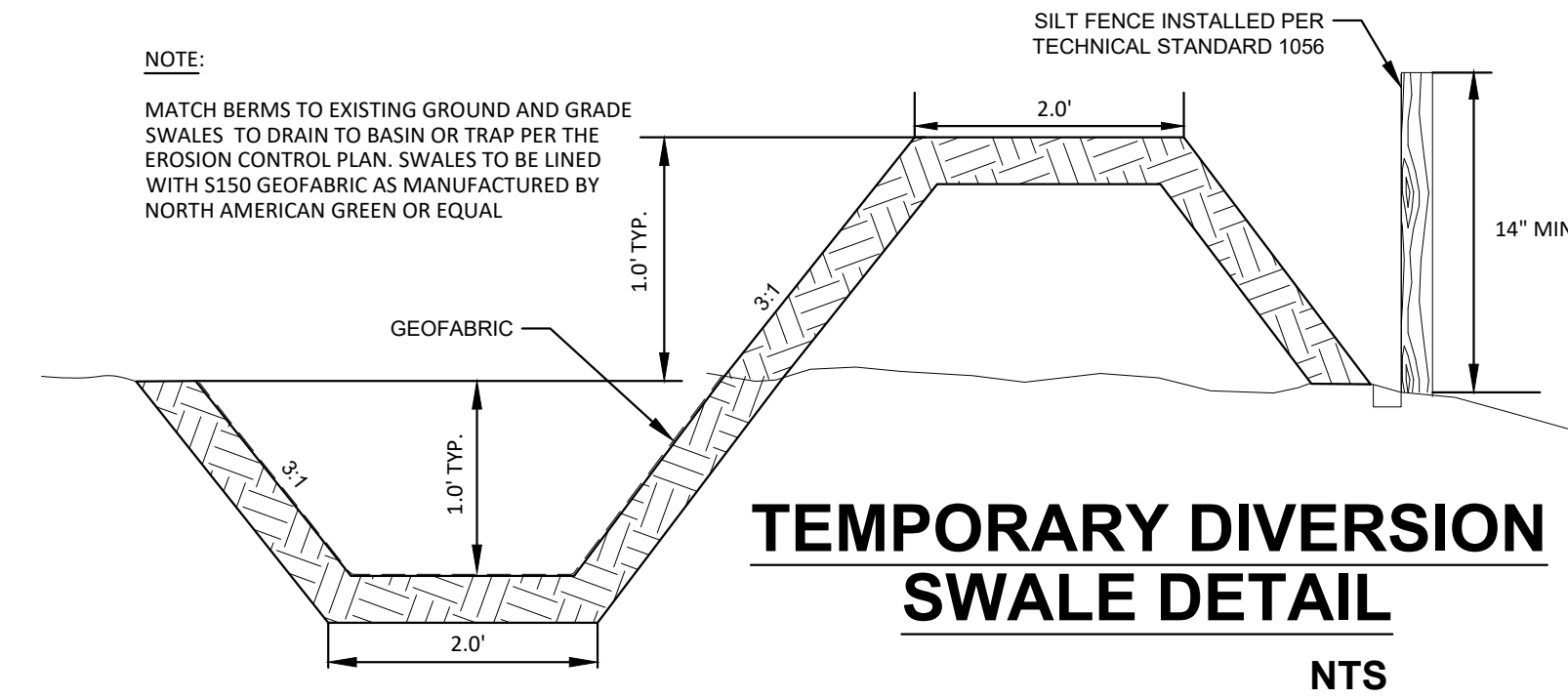
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MUNICIPALITY FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY AND/OR THEIR AGENTS, ETC. FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK IN THIS PROJECT.
- SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE BIDDER WILL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES AND SHALL STATE SUCH QUANTITIES IN THEIR PROPOSAL. THE CONTRACTOR SHALL BASE THEIR BID ON THEIR OWN ESTIMATE OF THE WORK REQUIRED AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT IS AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT THEIR WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGERS HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF THEIR INTENTIONS, AND TO REQUEST FIELD STAKING OF EXISTING UTILITIES.
- CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
- ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL AND SHOULD BE INCLUDED IN THE BID PRICES.

## GRAVEL TRACKING DRIVE DETAIL

NTS



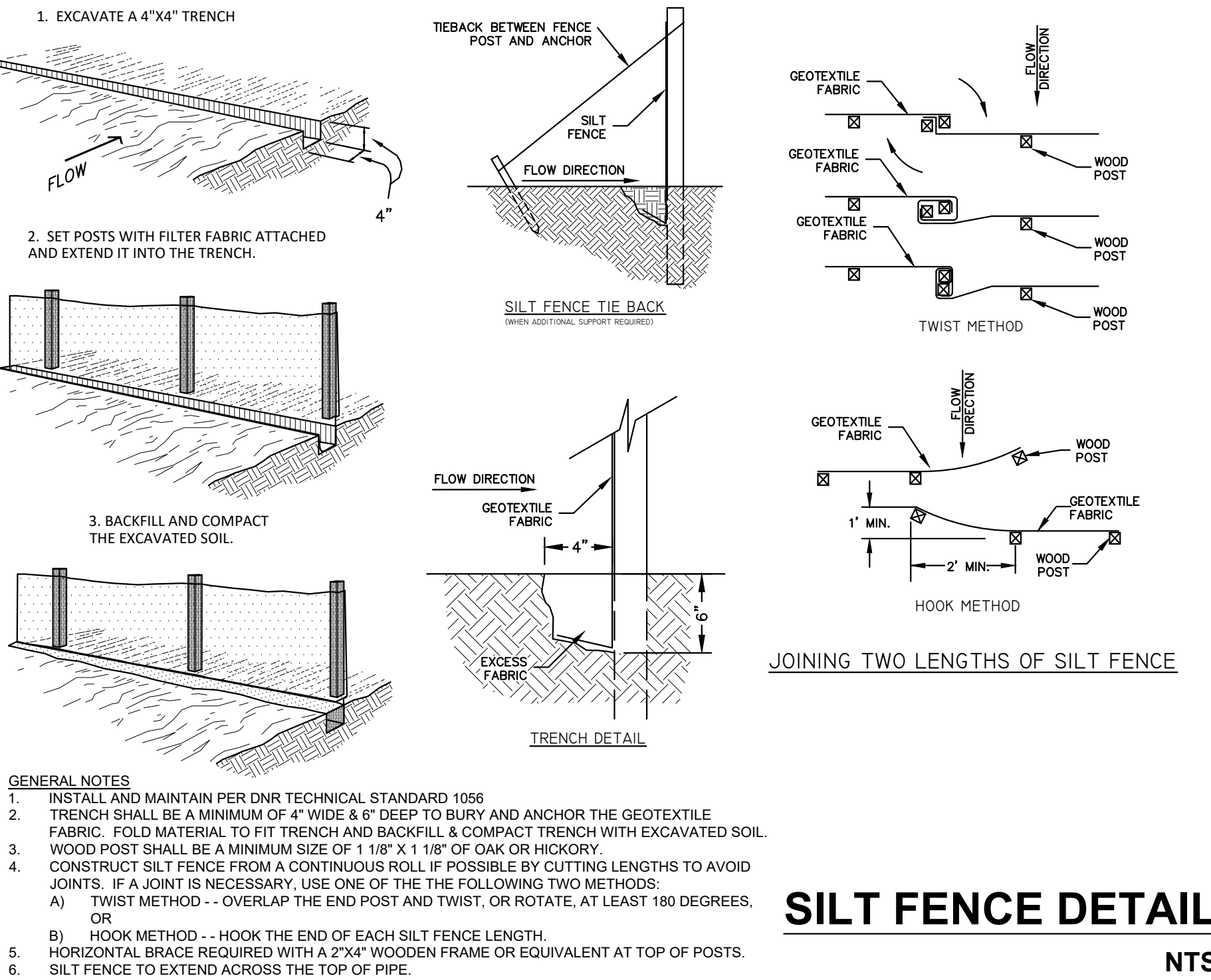
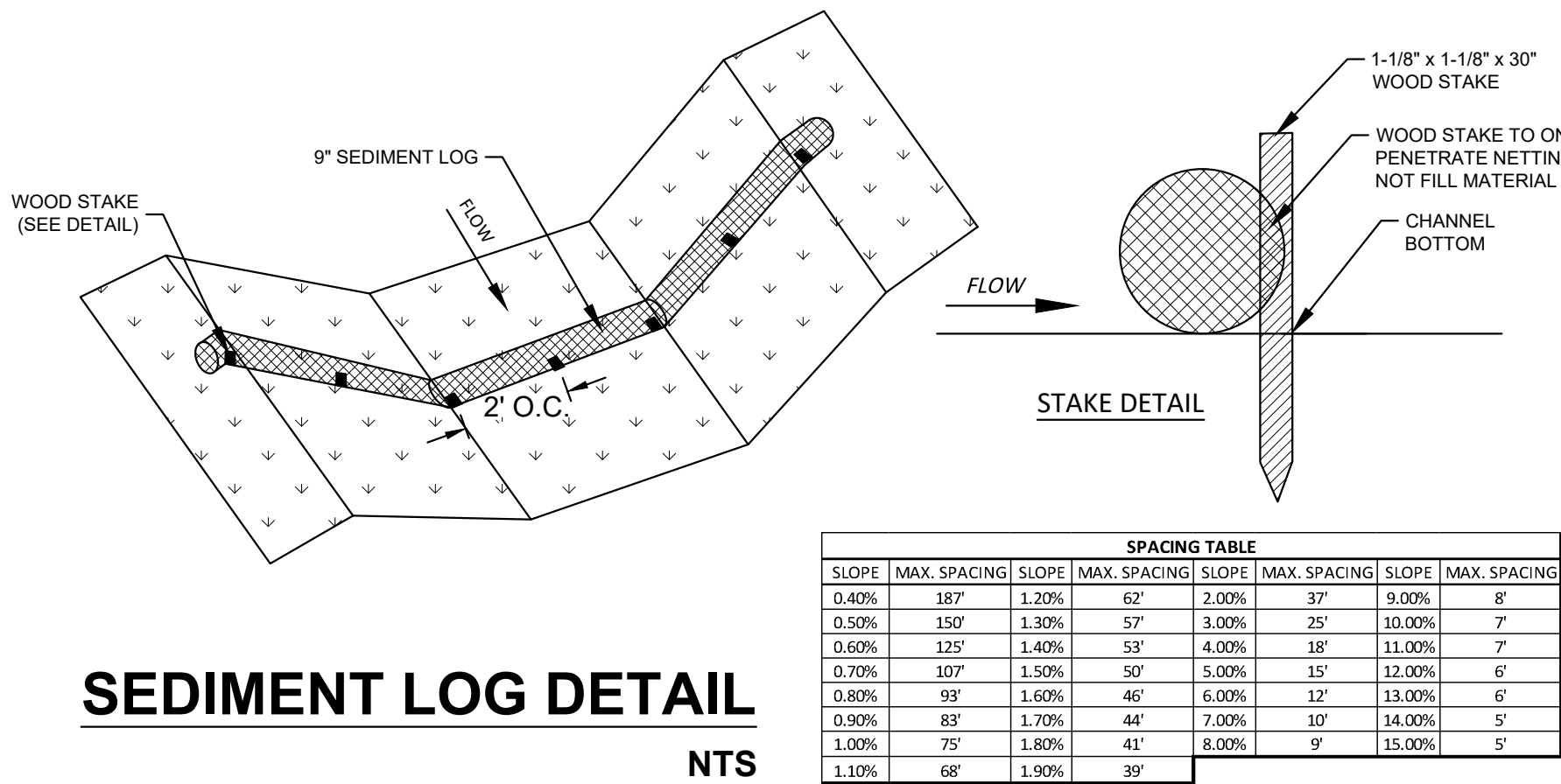
- NOTES:
- CONTRACTOR TO INSTALL ENTRANCE ROAD PRIOR TO START OF CONSTRUCTION, AND MAINTAIN ROAD UNTIL WORK IS COMPLETED.
  - CONTRACTOR TO CLEAN EXISTING STREET DAILY AT DIRECTION OF VILLAGE ENGINEER. SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY FROM PAD OR CONVEYED UNDER AND/OR AROUND THEM BY USING A VARIETY OF PRACTICES SUCH AS CULVERTS, WATER BAGS, OR OTHER SIMILAR PRACTICES.
  - CLEAR STONE SHALL BE 3" - 6" CLEAR OR WASHED STONE PLACED 12" THICK. ON SITES WITH A HIGH WATER TABLE, OR WHERE SATURATED CONDITIONS ARE EXPECTED DURING THE LIFE OF THE PRACTICE, STONE TRACKING PAD(S) SHALL BE UNDERLAIN WITH WISDOT TYPE K GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNDERLYING SOILS INTO STONE.
  - INSTALL AND MAINTAIN PER WDNr TECHNICAL STANDARD 1057.



NTS

## SEDIMENT LOG DETAIL

NTS

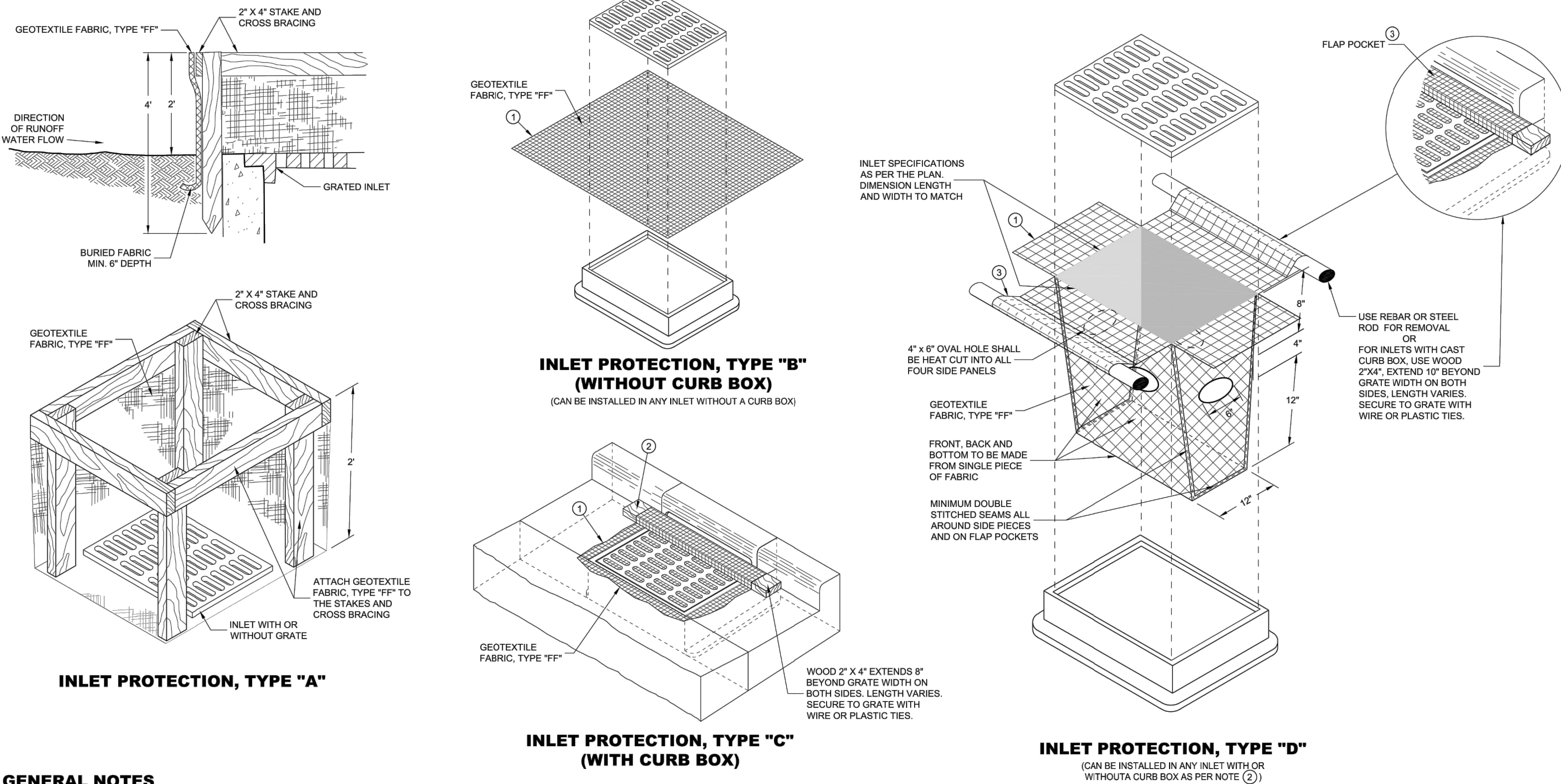


## SILT FENCE DETAIL

NTS

- GENERAL NOTES
- INSTALL AND MAINTAIN PER DNR TECHNICAL STANDARD 1056
  - 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. WOOD POST SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
  - 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) TWIST METHOD - OVERLAP THE END POST AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, OR  
B) HOOK METHOD - HOOK THE END OF EACH SILT FENCE LENGTH.
  - HORIZONTAL BRACE REQUIRED WITH A 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
  - SILT FENCE TO EXTEND ACROSS THE TOP OF PIPE.

## SDD 08E10 Inlet Protection, Types A, B, C and D



#### 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.

- FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- 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.
- FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

#### INSTALLATION NOTES

##### TYPES 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

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

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.

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 CINGH 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 TYPES A, B, C AND D

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
10/15/02  
DATE

/s/ Beth Cannestra  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER

DATE: 3/7/2023 1:45 PM

SEH Project	170026	Rev. #	1	Revision Issue Description	03/07/2023
Drawn By	ZJH				
Designed By	BK				
Checked By	MPC				

Rev. #	1	Revision Issue Description	03/07/2023
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NOTE:  
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CHASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

THE CONTRACTOR SHALL CALL THE STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.



Know what's below.  
Call before you dig.

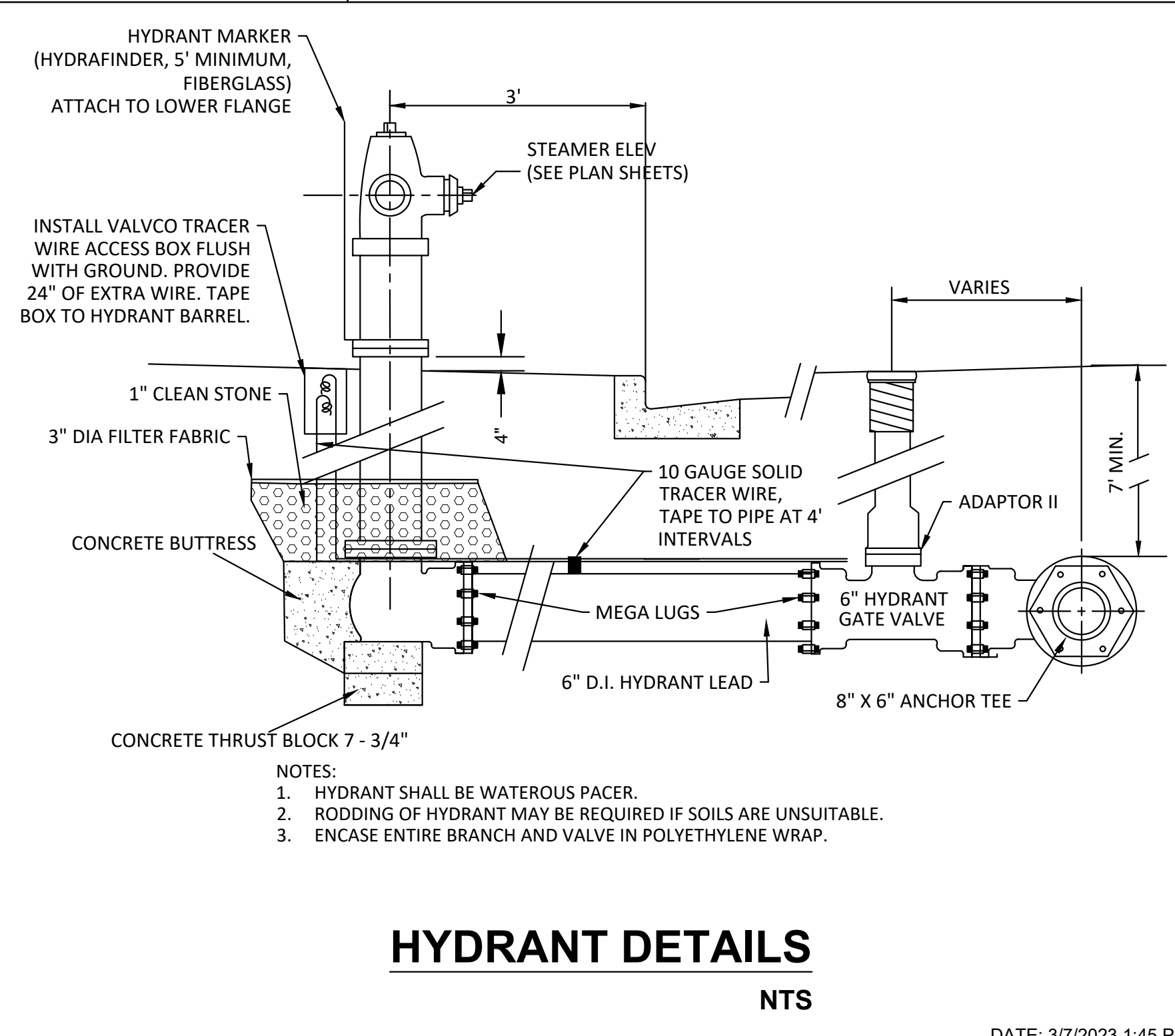
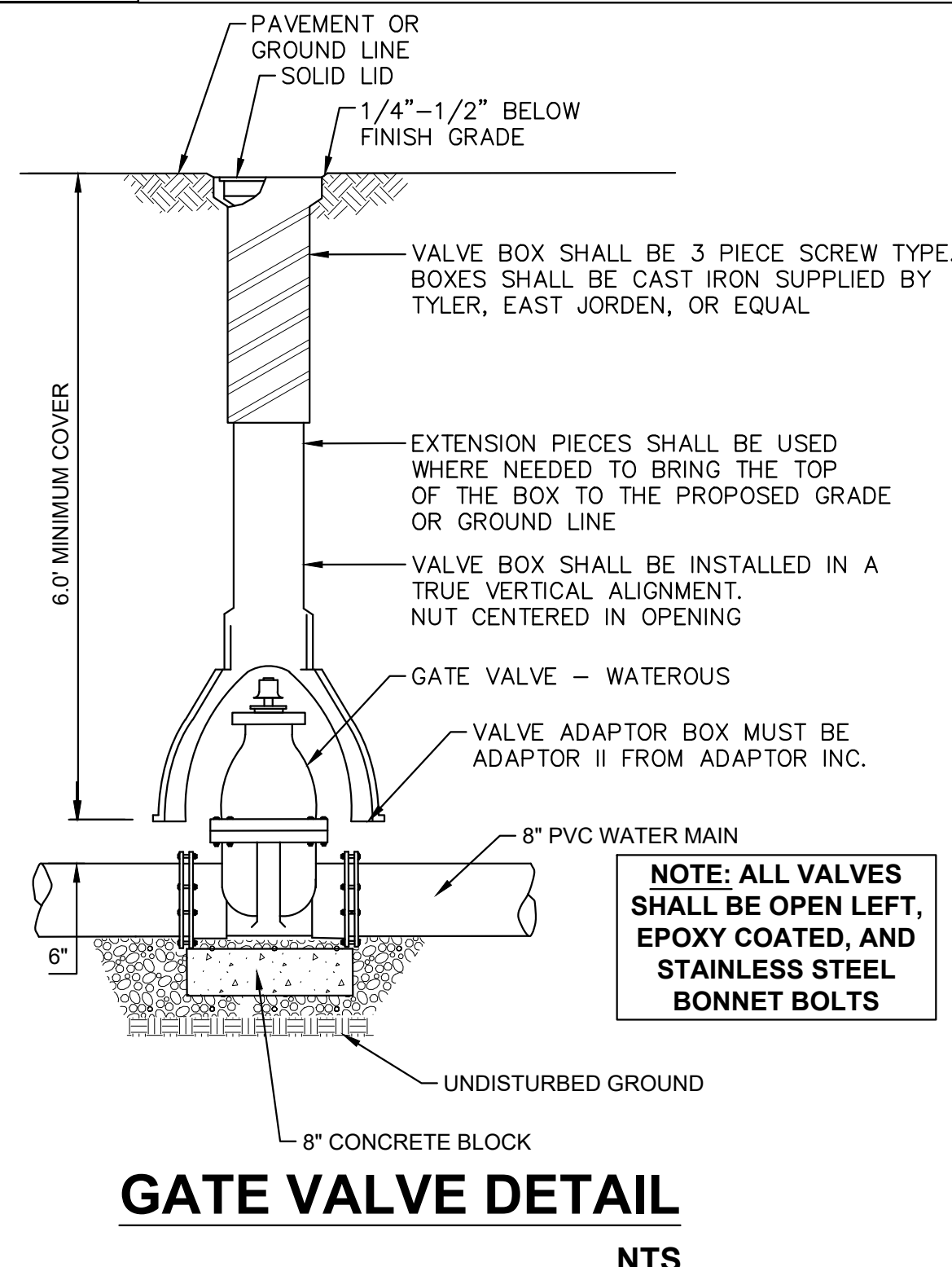
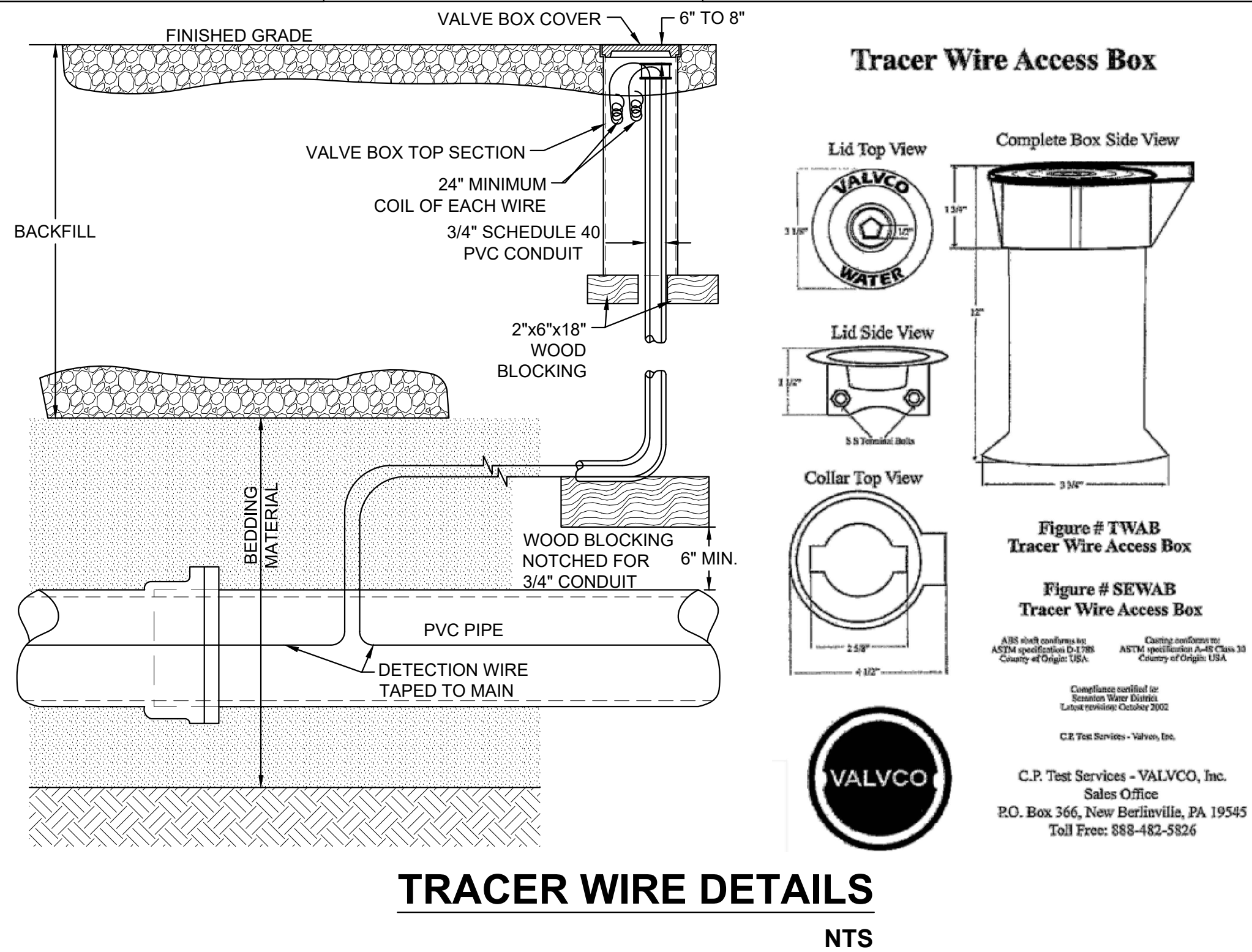
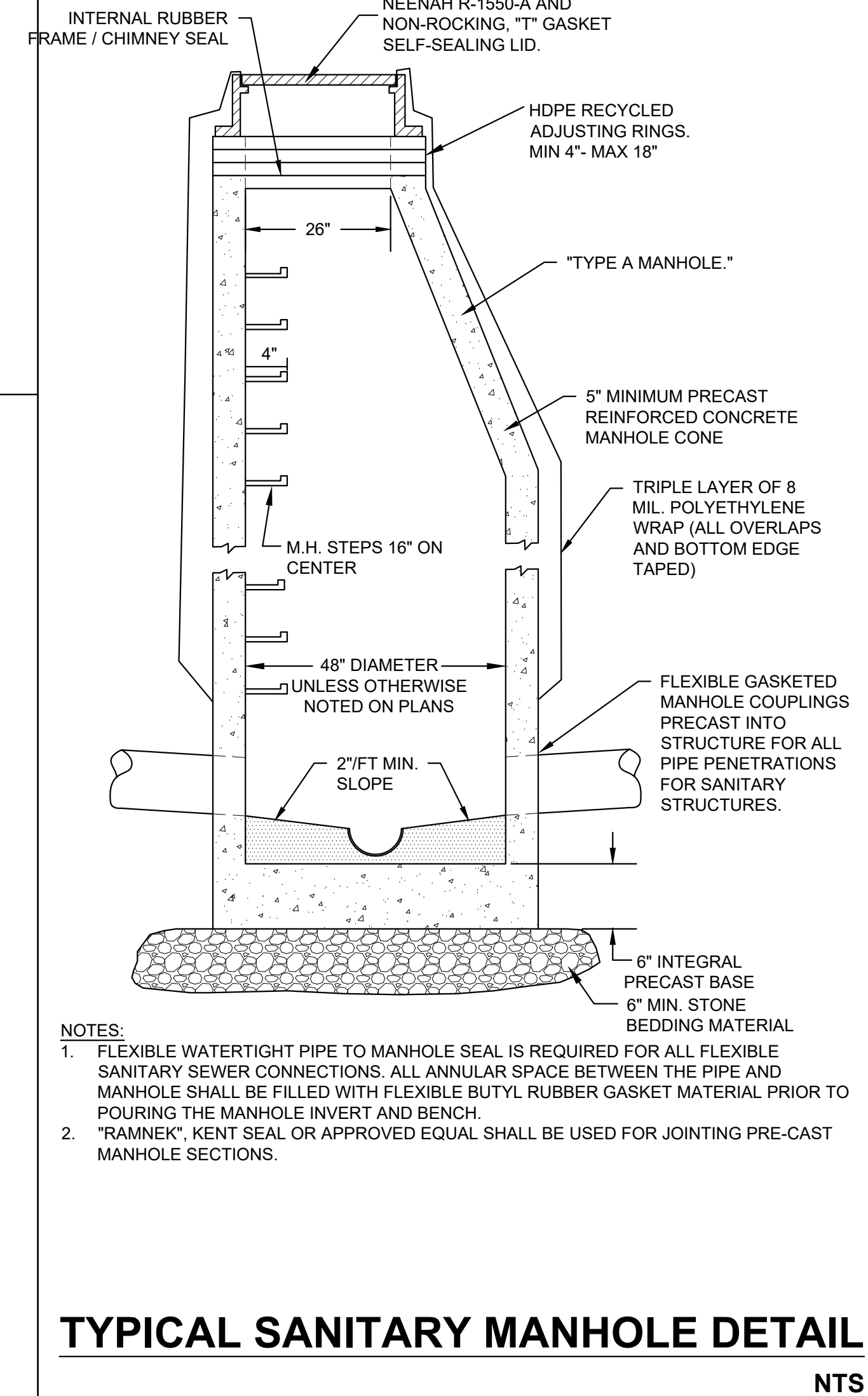
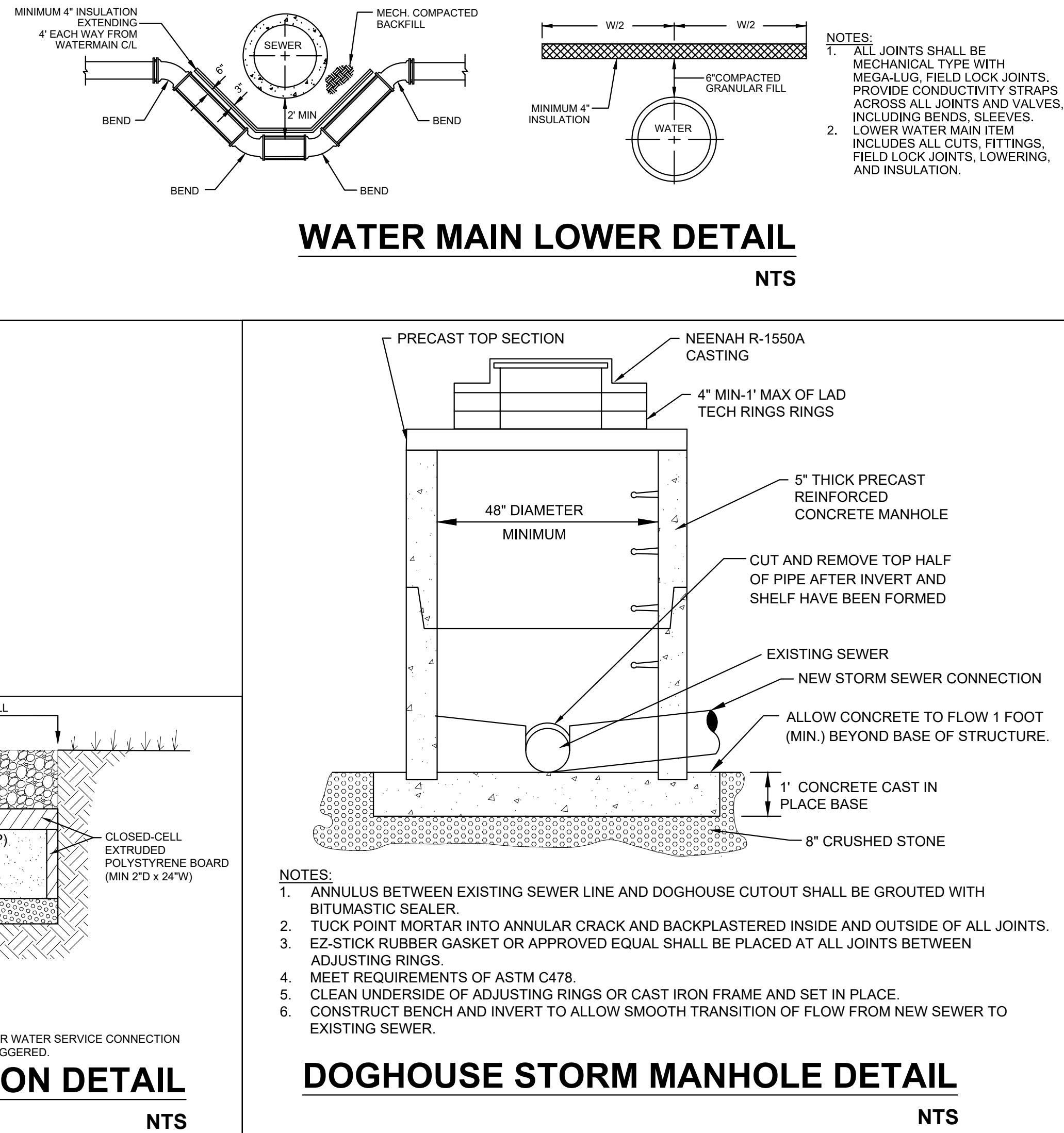
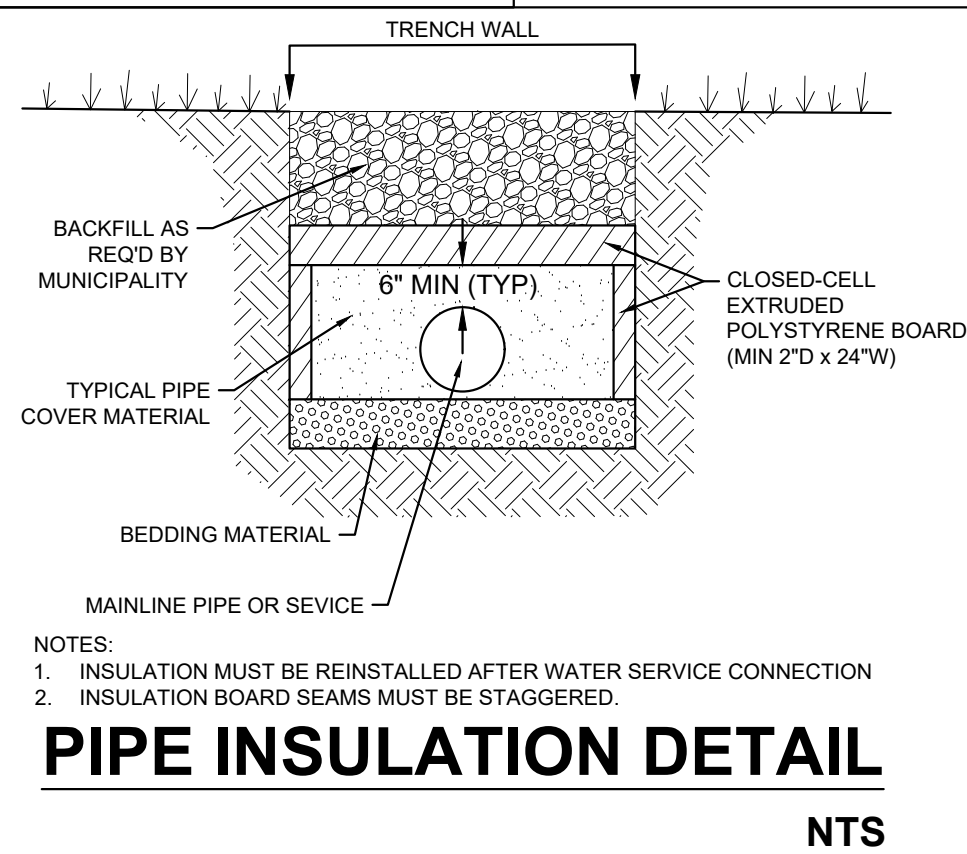
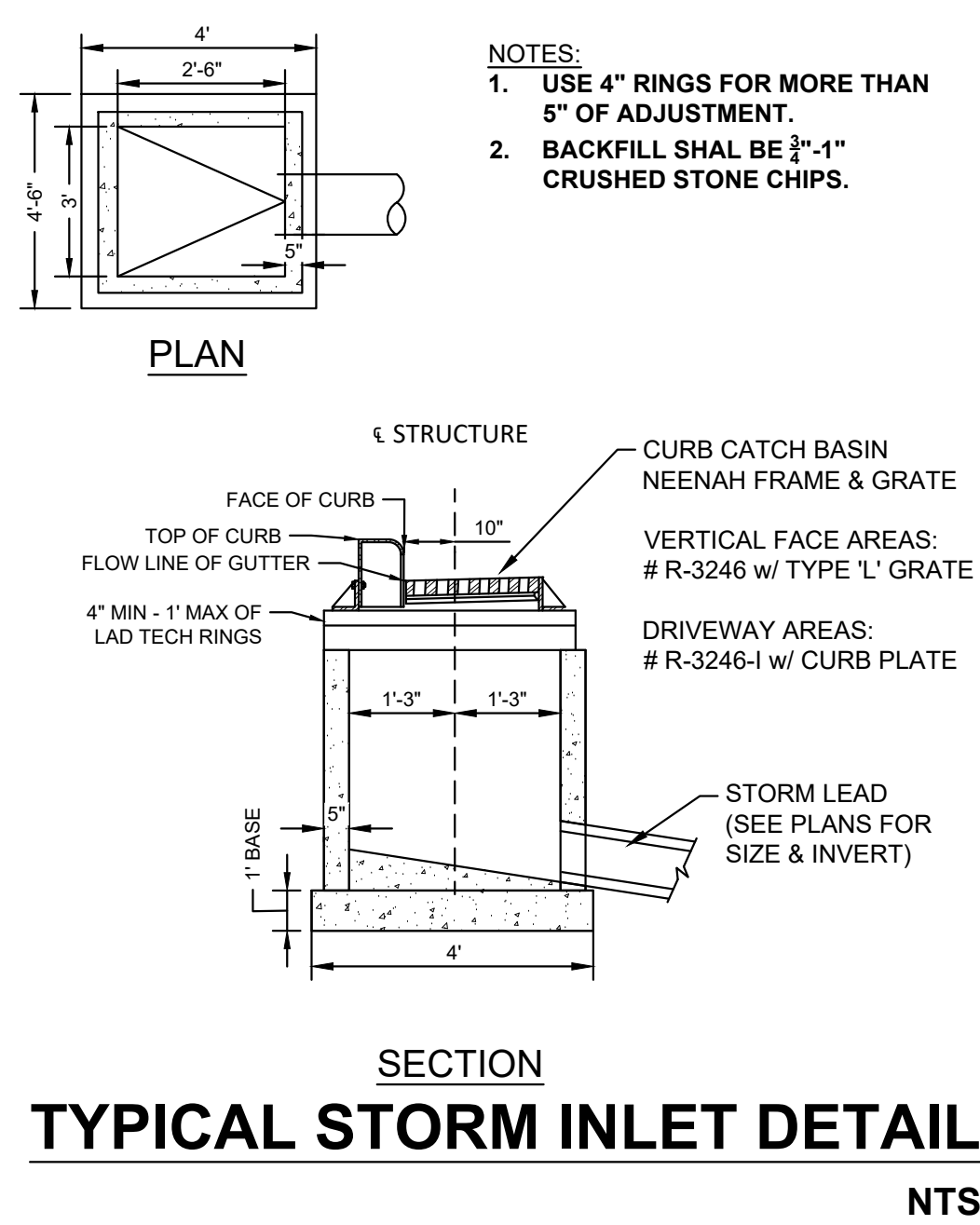
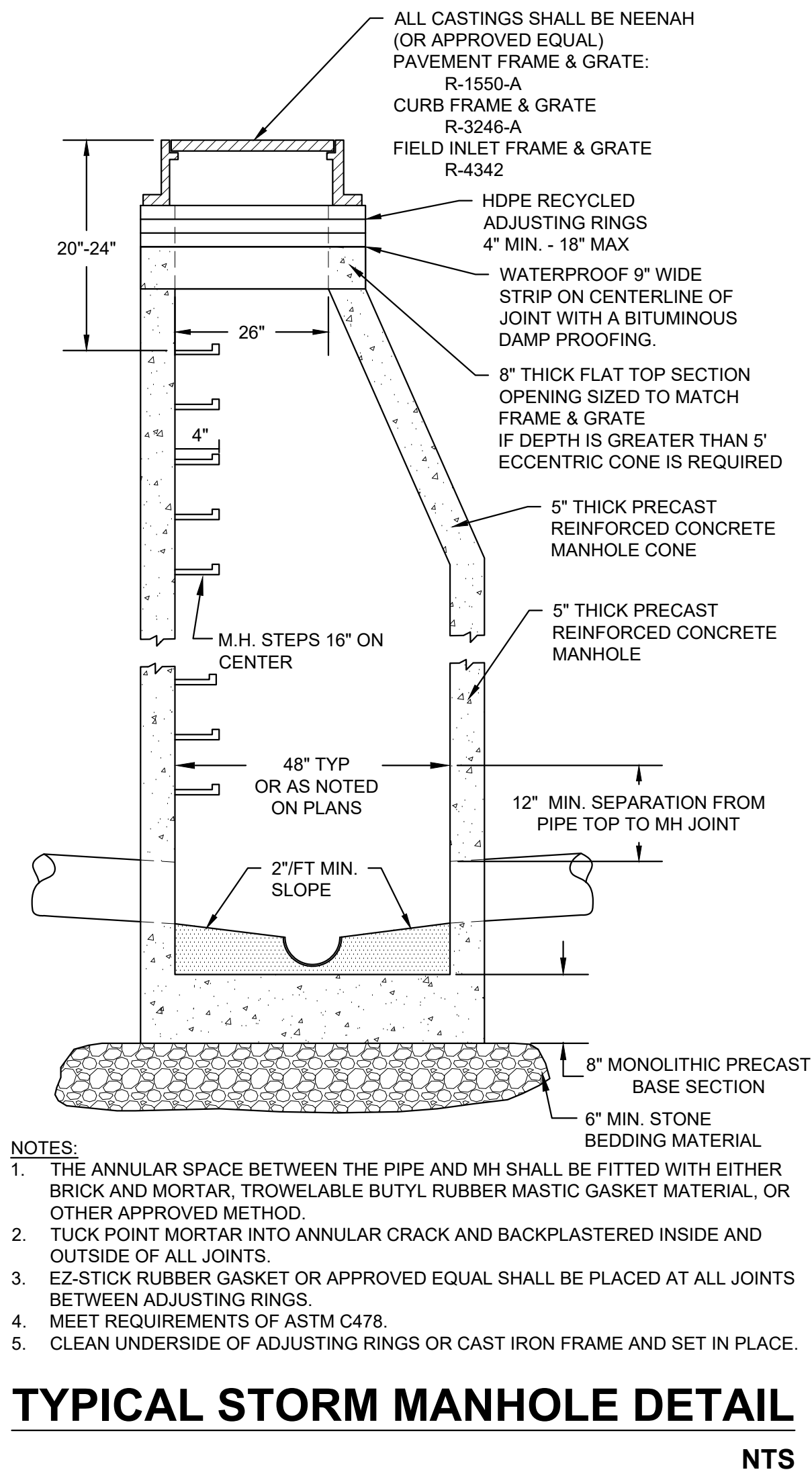
THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

TITLE & DETAILS  
DETAILS

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of 19

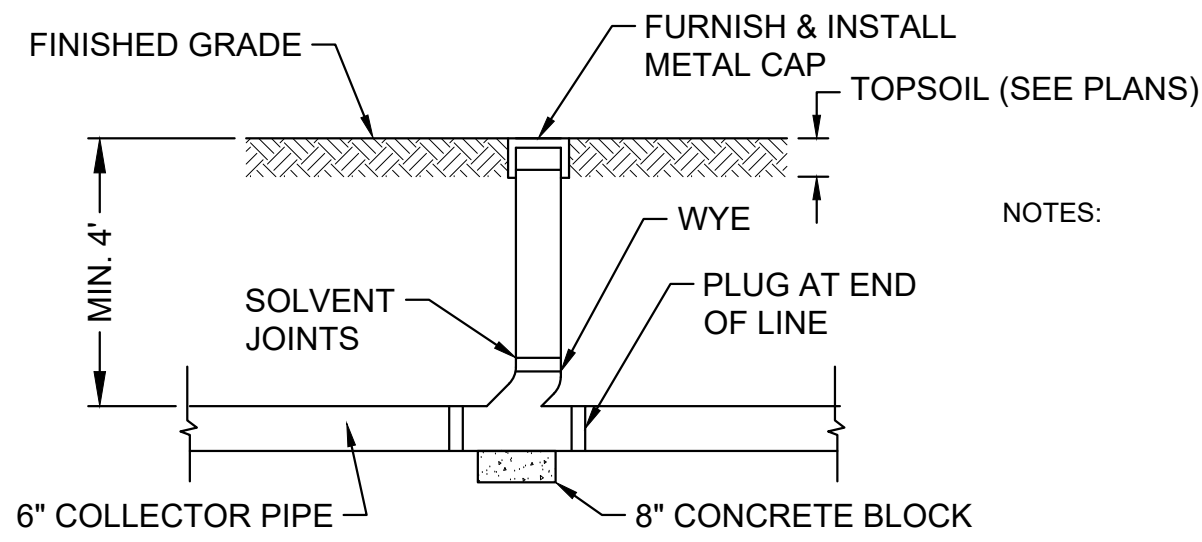


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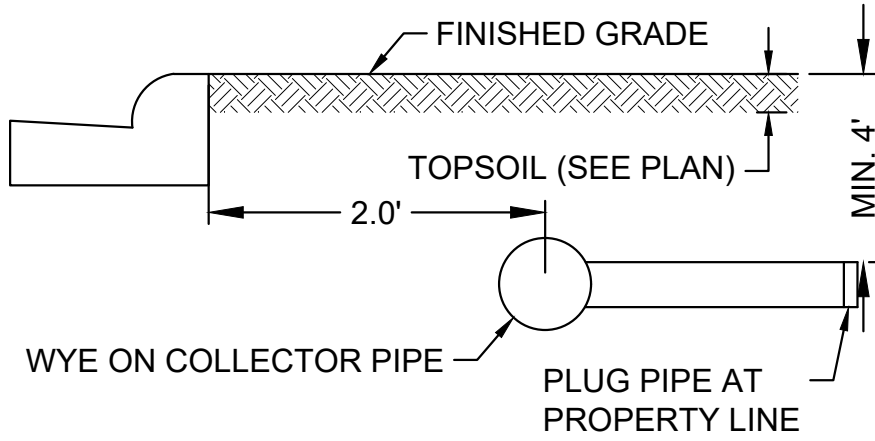
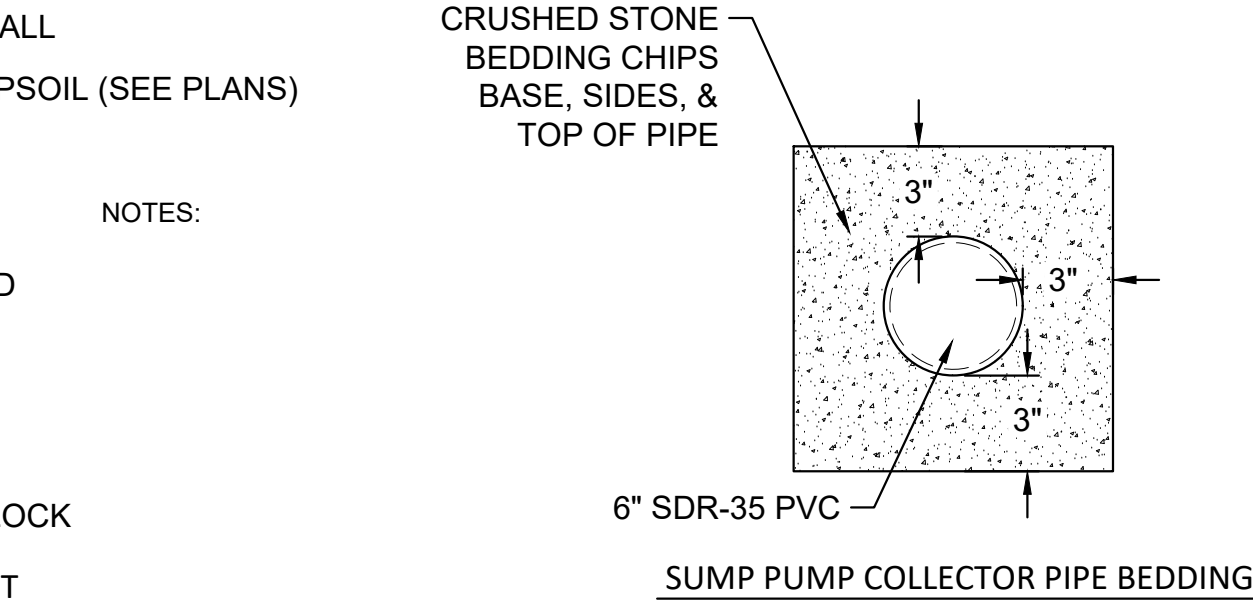




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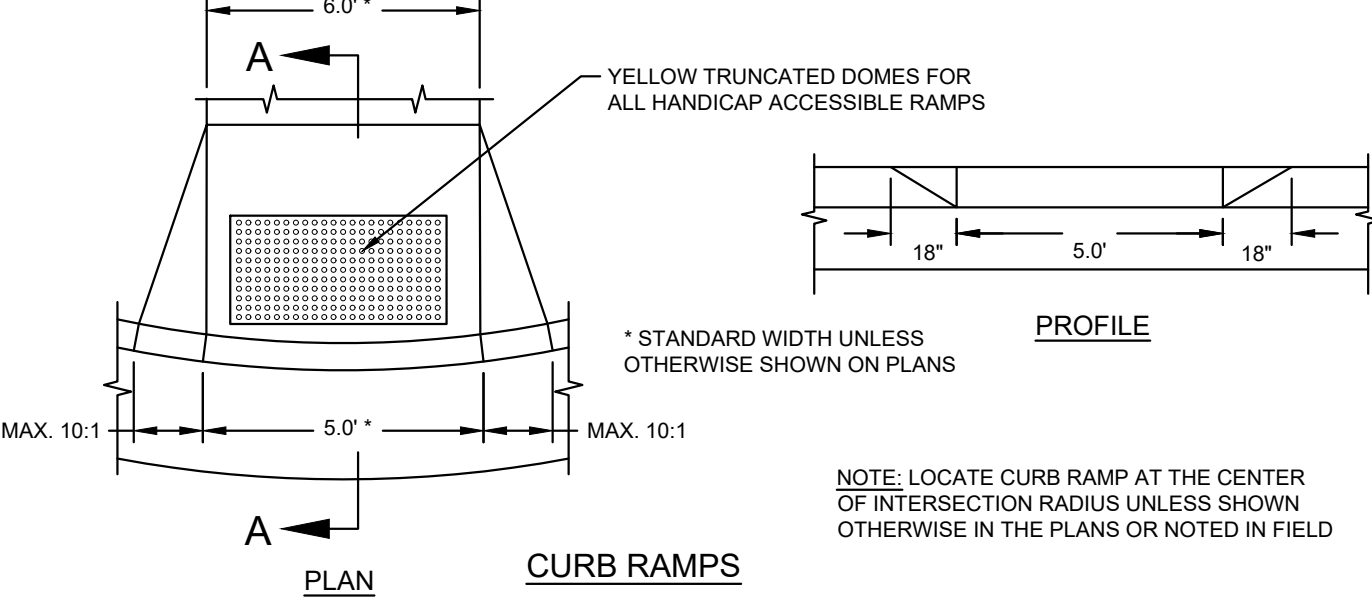
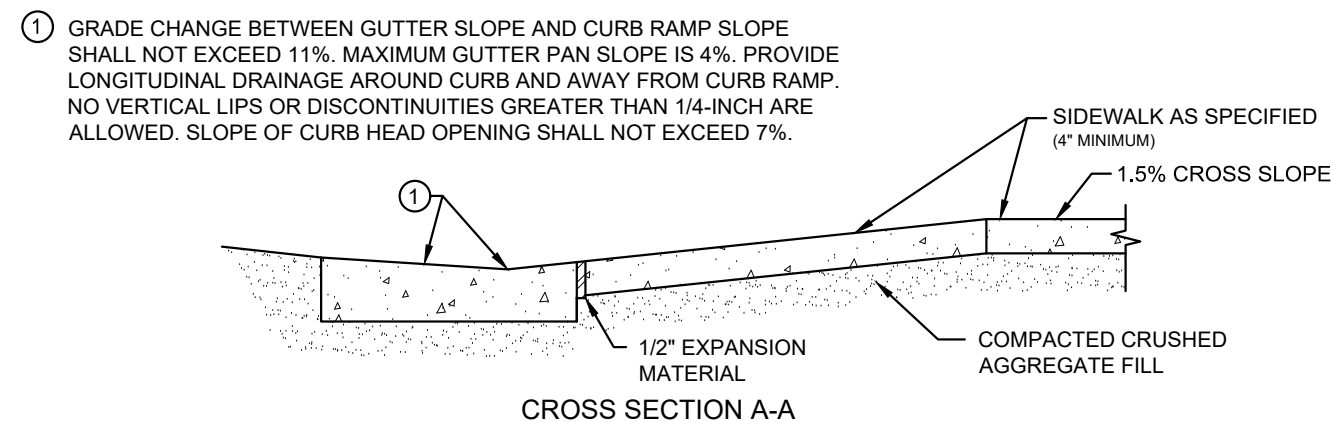


- NOTES:
- BENDS TO BE AS PER SPECIFICATIONS.
  - STEEL POST TO BE INSTALLED AT THE PROPERTY LINE TO MARK THE END OF THE PVC HOOKUP.
  - RISER PIPE MATERIAL AS PER SPEC.
  - CLEANOUT DETAILS:
    - INSTALL AT ALL SUMP COLLECTOR LINE ENDS.
    - INSTALL 300LF MAX. FROM CONNECTIONS AT STORM STRUCTURES, THEN 100LF MAX. FOR SUBSEQUENT CLEANOUTS.
  - CONNECT MAIN SUMP COLLECTOR LINE TO STORM STRUCTURE(S) AS REQ'D.
  - INSTALL TRACER WIRE, PER VILLAGE SPECIFICATIONS, ALONG ALL SUMP LATERALS AND SUMP COLLECTOR PIPING.



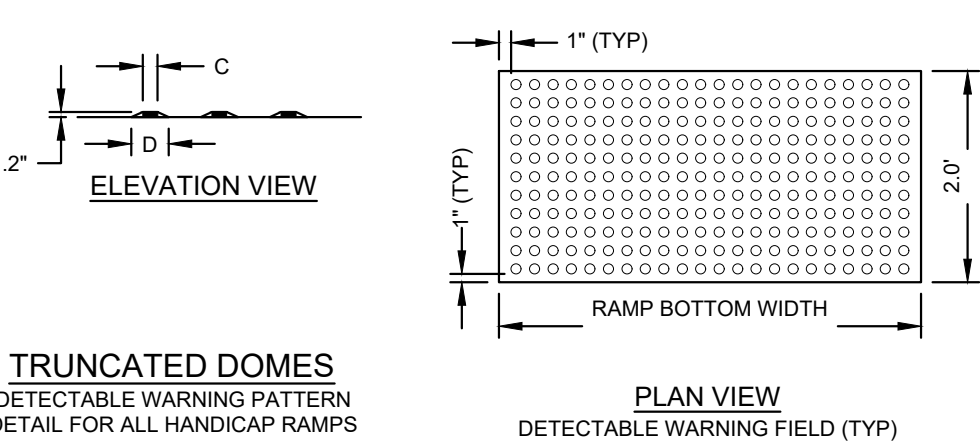
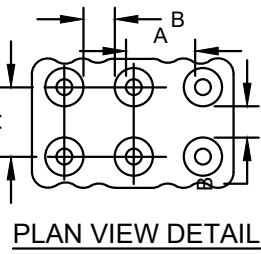
## SUMP PUMP COLLECTOR PIPE CLEANOUT AND LATERAL ASSEMBLY DETAIL

NTS



	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

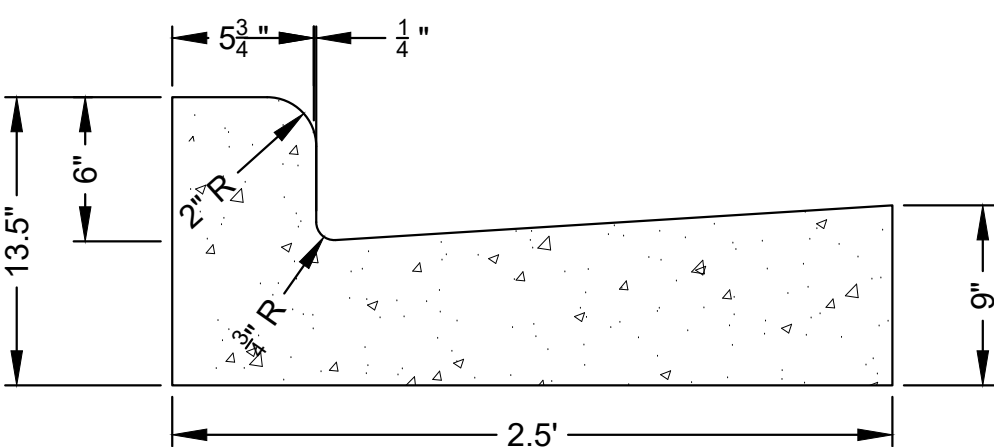
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION



NOTE: DETECTABLE WARNING STRIPS SHALL BE FACTORY PAINTED FEDERAL YELLOW. HOLLOW DOME STRIPS WILL BE REJECTED.

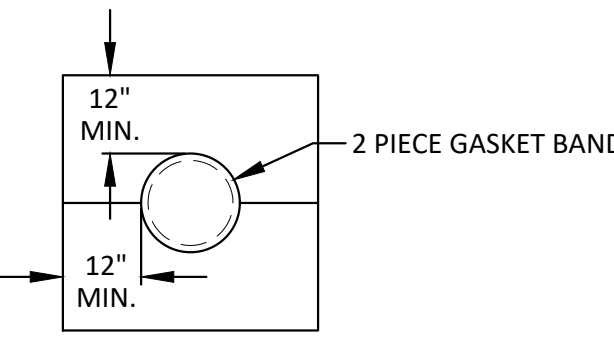
## DETECTABLE WARNING FIELD DETAIL

NTS



## 30" VERTICAL FACE CONCRETE CURB & GUTTER DETAIL

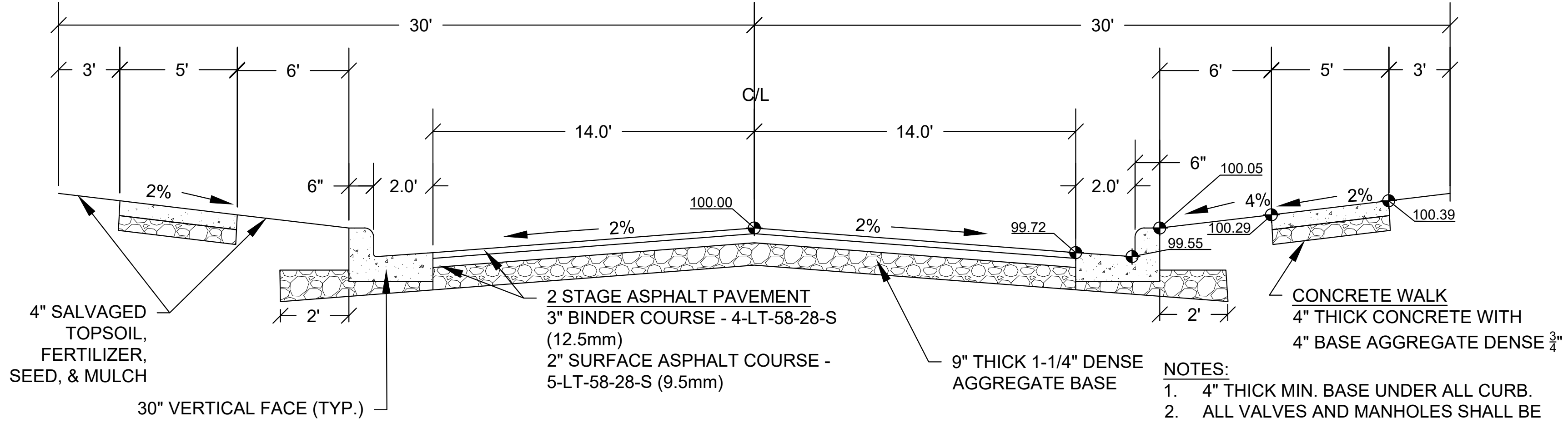
NTS



NOTES:  
ANTI-SEEP COLLARS SHALL HAVE A MINIMUM OF 12" PROJECTION FROM THE PIPE OUTSIDE DIAMETER AND SHALL BE SPACED AT AN INTERVAL NOT TO EXCEED 14 TIMES THE PROJECTION. COLLARS SHALL NOT BE PLACED CLOSER THAN WITHIN 2' OF A PIPE JOINT.

## ANTI-SEEP COLLAR DETAIL

NTS

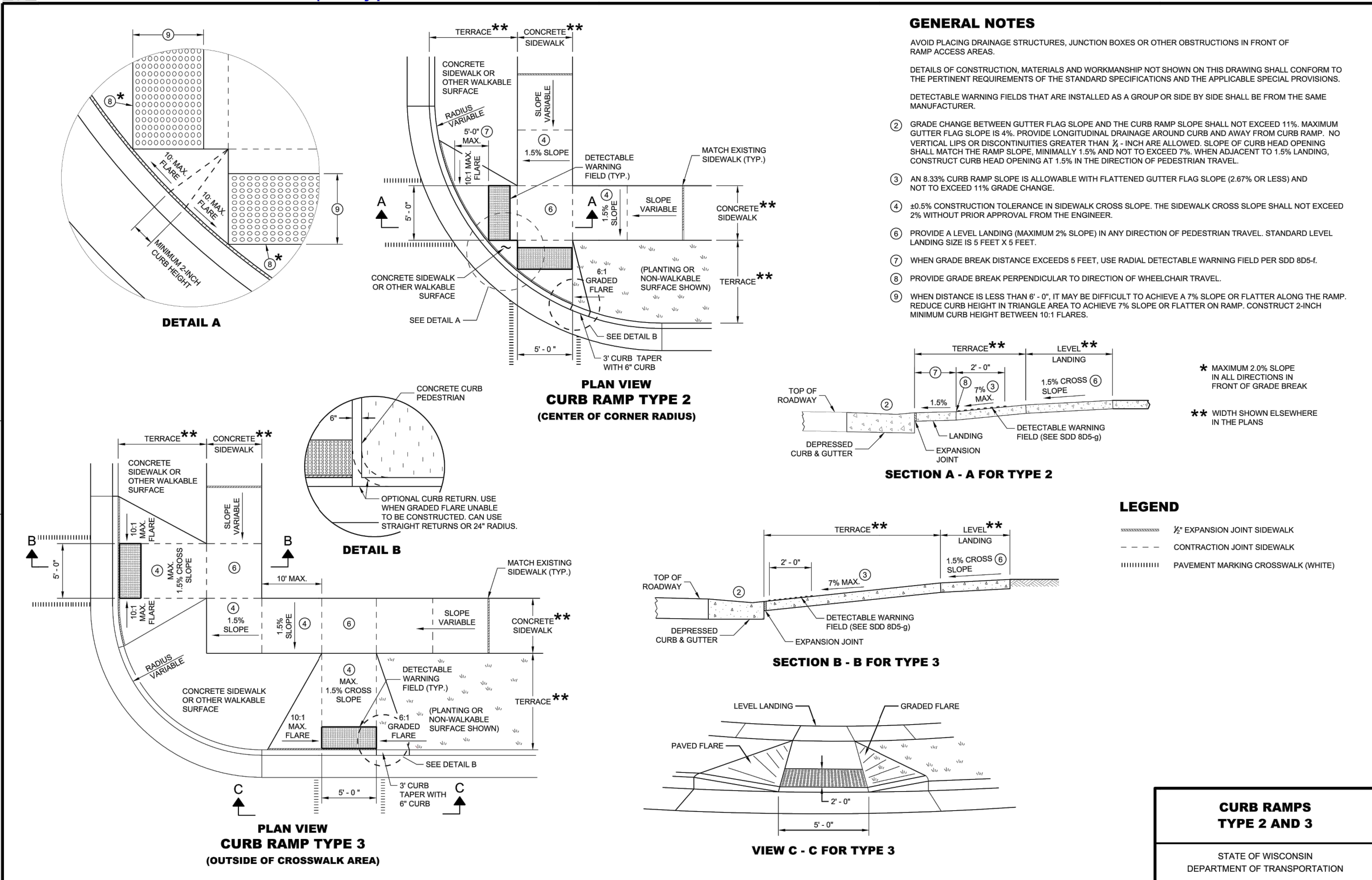


## TYPICAL ROAD CROSS SECTION

NTS

- NOTES:
- 4" THICK MIN. BASE UNDER ALL CURB.
  - ALL VALVES AND MANHOLES SHALL BE CONSTRUCTED TO FINAL GRADE.
  - CONTRACTOR TO WEDGE AND RAMP STRUCTURES WITH PAVING BINDER COURSE.
  - CONTRACT DOES NOT INCLUDE INSTALLATION OF SURFACE COURSE.

## SDD 08D05-b Curb Ramps Types 2 and 3



SDD 08D05 - 20b

SEH Project	170026	Rev. #	1	Revision Issue Description	REVISED PER MUNICIPAL COMMENTS	Date	03/07/2023
Drawn By	ZJH						
Designed By	BK						
Checked By	MPC						

Rev. #		Revision Issue Description		Date	



NOTE:  
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CIASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".  
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Know what's below.  
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THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

TITLE & DETAILS  
DETAILS

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EROSION CONTROL NOTES:

1. POST WDNR CERTIFICATE OF PERMIT COVERAGE ON-SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, AND THE SITE IS STABILIZED.
2. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
3. SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
4. PERMIT HOLDER IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 1/2" OR GREATER. CORRECT ANY DAMAGED STRUCTURES IMMEDIATELY. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
5. WHEN POSSIBLE: PRESERVE EXISTING VEGETATION, MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
6. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE "WDNR STORMWATER CONSTRUCTION AND POST-CONSTRUCTION TECHNICAL STANDARDS".

7. EROSION CONTROL MEASURES MAY NEED TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.
8. INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE AREA(S) SERVED HAVE 80% OR MORE ESTABLISHED VEGETATIVE COVER AS DETERMINED BY THE ENGINEER.
9. INSTALL PERIMETER EROSION CONTROLS AND TRACKING PAD(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD #1057 FOR CONSTRUCTION ENTRANCE(S).
10. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED. SEPARATE SWEEP MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD #1068.
11. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED OFF-SITE.
12. CONTRACTOR TO COORDINATE WITH MUNICIPALITY TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATION(S) FOR ANY EXCAVATED SOILS AND/OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).

13. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA(S) AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD #1060.
14. STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD #1067.
15. COMPLETE AND STABILIZE SEDIMENT BASIN(S)/TRAP(S) OR WET PONDS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 528). CONSTRUCT AND MAINTAIN SEDIMENT BASIN(S)/TRAP(S) PER WDNR TECHNICAL STANDARD #1063.
16. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE HALF OF THE CONTROL PRACTICE'S HEIGHT. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY.
17. INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD #1071.
18. ALL SIDE SLOPES 5:1 OR STEEPER SHALL BE RESTORED WITH CLASS I - TYPE 'A' EROSION MATTING, AND ALL AREAS OF CONCENTRATED FLOW SHALL BE RESTORED WITH CLASS II - TYPE 'B' CHANNEL MATTING. INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARDS #1062 AND #1063.

19. ALL SLOPES PROTECTED ONLY BY SILT FENCE MUST BE FULLY RESTORED WITHIN 30 DAYS OF DISTURBANCE.
20. STABILIZE ALL NON-ACTIVE STOCKPILES WITH TEMPORARY SEED & MULCH WITHIN 7 DAYS OF INACTIVITY AND/OR WITHIN 30 DAYS OF LAYUP. INSTALL SILT FENCING AROUND ALL DOWN SLOPE AND SIDE SLOPES OF TOPSOIL STOCKPILES. STOCKPILES NOT SHOWING ADEQUATE VEGETATION BY NOV 1 SHOULD BE DORMANT SEEDING AND COVERED WITH A WISDOT PAL TYPE A SOIL STABILIZER (FOR SLOPES 3 FEET HORIZONTAL TO 1 FOOT VERTICAL OR FLATTER) OR EROSION CONTROL MAT.
21. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS OF INACTIVITY. THIS MAY BE DONE USING TEMPORARY AND/OR PREEMINENT RESTORATION TECHNIQUES, DEPENDING ON PROGRESS OF GRADING ACTIVITIES OF THE AREA(S). THIS INCLUDES AREAS OF SITE DEVELOPMENT AND UTILITY CONSTRUCTION.
22. SEDIMENT CONTROL FOR UTILITY CONSTRUCTION
  - a. PLACE EXCAVATED TRENCH MATERIAL ON HIGH SIDE OF THE TRENCH.
  - b. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER UTILITY INSTALLATION.

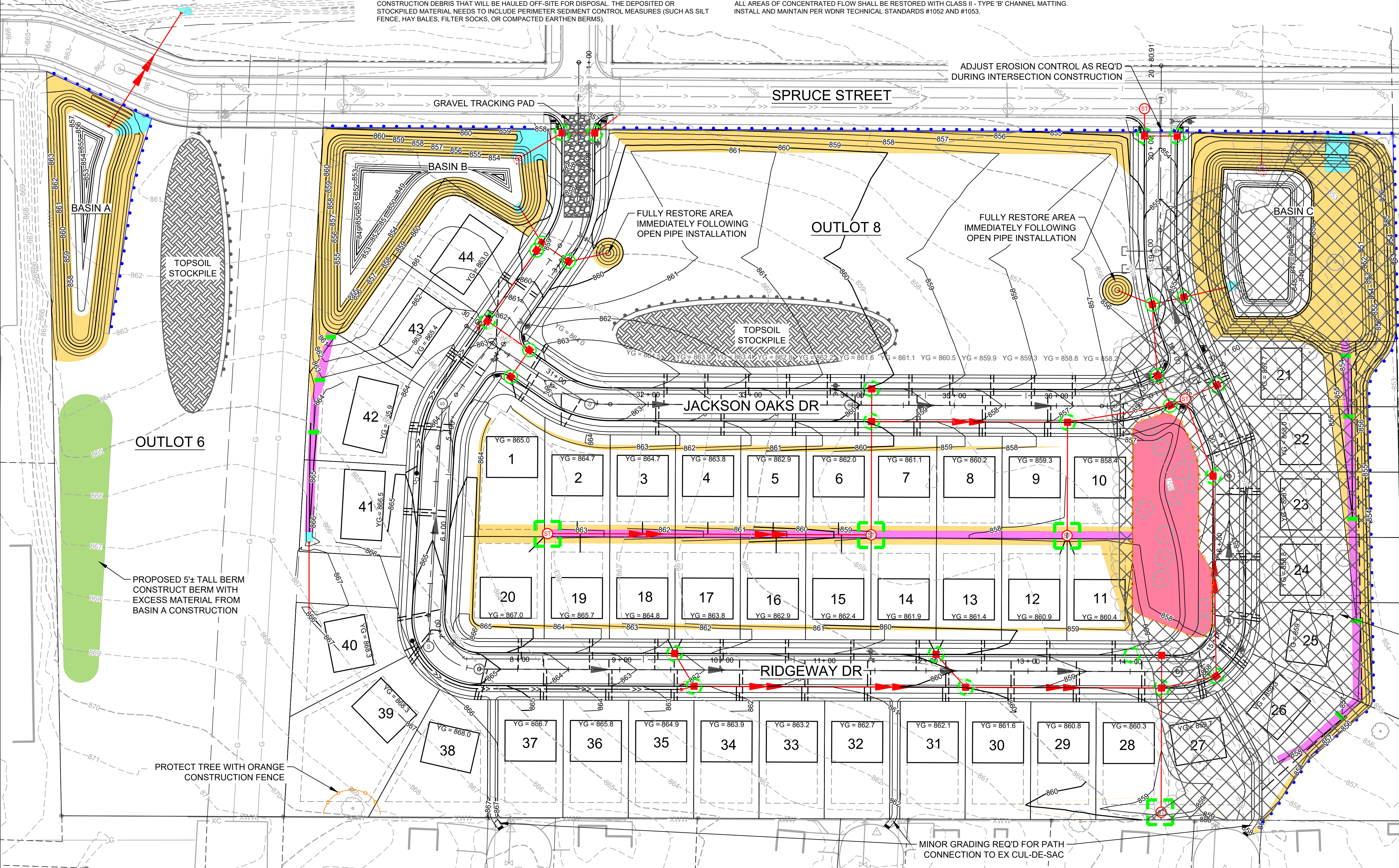
**EROSION CONTROL LEGEND**  
SEE SHEET D 1.00 FOR DETAILS

- INLET PROTECTION TYPE 'A'
- INLET PROTECTION TYPE 'C'
- INLET PROTECTION TYPE 'D'
- SEDIMENT LOG
- SILT FENCE
- CLASS I - TYPE 'A' ECRM
- CLASS II - TYPE 'B' CHANNEL MATTING
- CLASS III - TYPE 'B' TRM
- TREE PRESERVATION AREA
- CLEAR & GRUB LIMITS

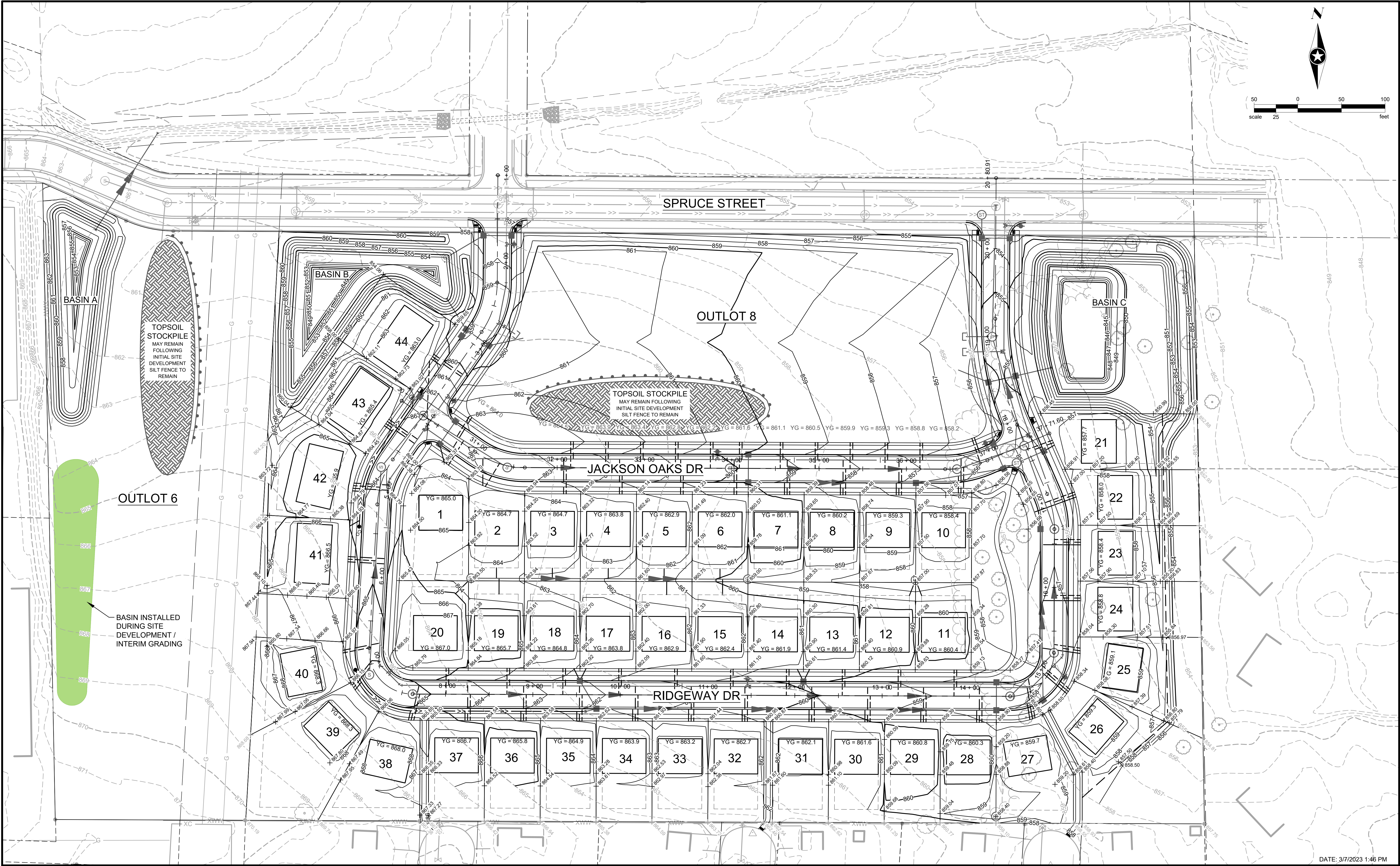
CONSTRUCTION SEQUENCE

1. INSTALL STONE TRACKING PAD.
2. INSTALL SILT FENCE AND CLEAR/GRUB TREES.
3. STRIP AND STOCKPILE TOPSOIL IN THE AREAS OF THE STORMWATER BASINS.
4. CONSTRUCT BASINS. BASIN WET AREAS SHALL BE USED AS SEDIMENT CONTROL DEVICES DURING SITE DEVELOPMENT. DIRECT ALL STORMWATER TO THE WET CELLS DURING CONSTRUCTION. THIS MAY REQUIRE TEMPORARY DIVERSION SWALES / BERMS NOT NECESSARILY SHOWN ON THE PLAN. FULLY RESTORE BASINS AND DIVERSION SWALES IMMEDIATELY AFTER CONSTRUCTION AND PRIOR TO ALL OTHER SITE WORK.
6. STRIP AND STOCKPILE TOPSOIL FROM REMAINDER OF SITE.
7. ROUGH GRADE SITE AND GRADE ROADS TO SUBGRADE. **NO MASS GRADING SHALL OCCUR UNTIL THE BASINS AND DIVERSION SWALES ARE IN PLACE AND THEIR RESTORATION MEASURES ARE INSTALLED.**
8. INSTALL UTILITIES (INSTALL INLET PROTECTION ON ALL NEWLY CONSTRUCTED STORM SEWER INLETS). NOTE: THIS MAY OCCUR CONCURRENTLY WITH SITE GRADING.
9. INSTALL ROAD BASE, CONCRETE CURBS, PAVEMENT, AND SIDEWALKS. NOTE: THIS MAY OCCUR CONCURRENTLY WITH SITE GRADING.
10. INSTALL FINAL RESTORATION OF ALL DISTURBED AREAS. NOTE: THIS MAY OCCUR CONCURRENTLY WITH SITE GRADING.
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN IN PLACE DURING SITE CONSTRUCTION UNTIL ALL CONTRIBUTING AREAS HAVE ESTABLISHED 80% VEGETATIVE COVER. REMOVE ACCUMULATED SEDIMENT FROM WET CELLS AND RESTORE AS REQUIRED. **NOTE: IT IS THE CONTRACTORS RESPONSIBILITY TO INSURE THAT THE CLAY LINER OF THE WET CELLS ARE NOT DAMAGED WHILE REMOVING ACCUMULATED SEDIMENT.** CONTRACTOR SHALL REPAIR ANY DAMAGE DONE TO SITE DURING REMOVAL OF TEMPORARY EROSION CONTROL MEASURES AND/OR SEDIMENT REMOVAL. SAID REPAIR(S) SHALL BE CONSIDERED INCIDENTAL TO SITE CONSTRUCTION.

MINIMIZE REMOVAL OF QUALITY TREES DURING CLEARING & GRUBBING TO THE AMOUNT PRACTICABLE







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SEH Project	170026	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	ZJH	1	REVISED PER MUNICIPAL COMMENTS	03/07/2023			
Designed By	BK						
Checked By	MPC						



NOTE:  
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL  
D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE  
GUIDELINES OF C/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE  
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THE CONTRACTOR SHALL CALL THE STATE ONE CALL SYSTEM AT 811  
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Know what's below.  
Call before you dig.

THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

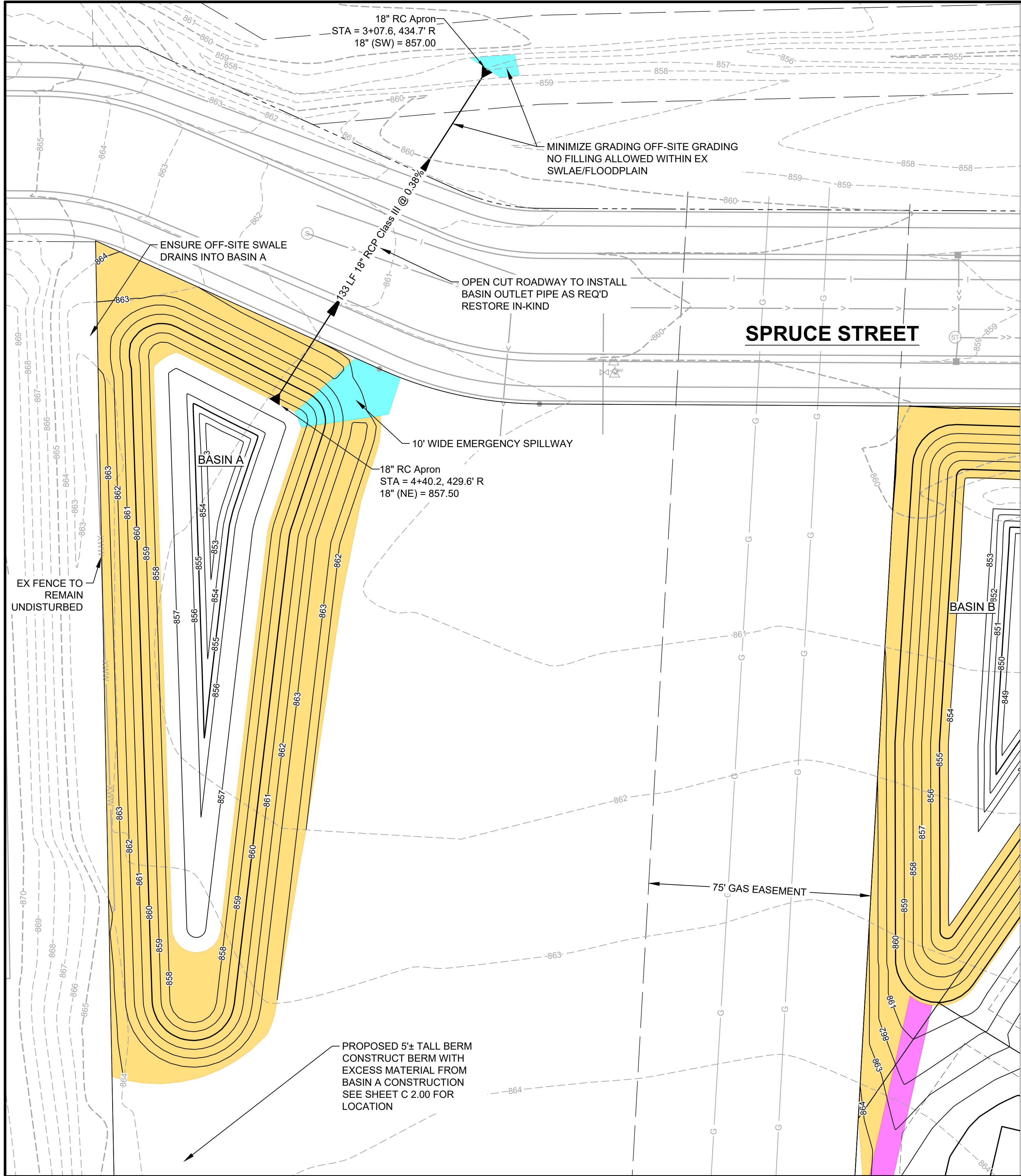
EROSION CONTROL & GRADING  
MASTER GRADING PLAN - OVERALL SITE

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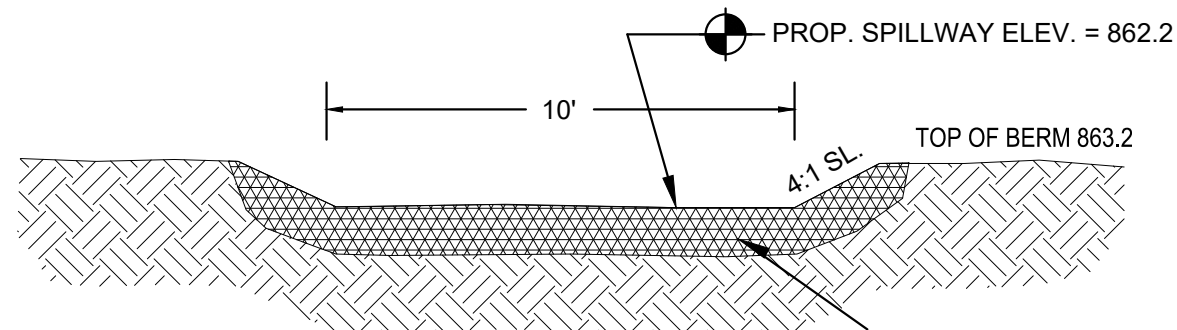
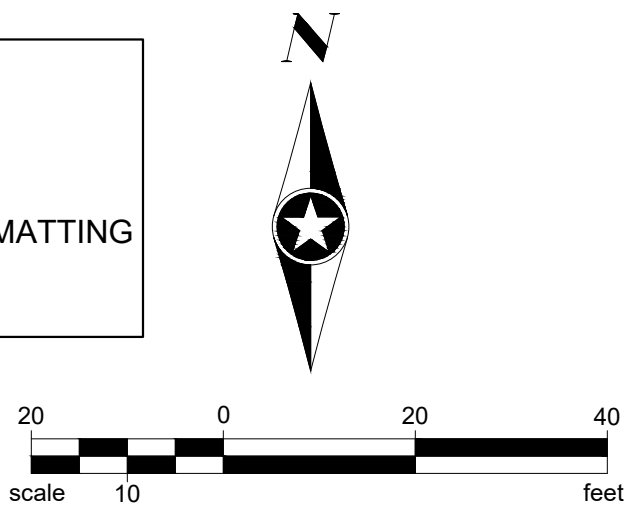
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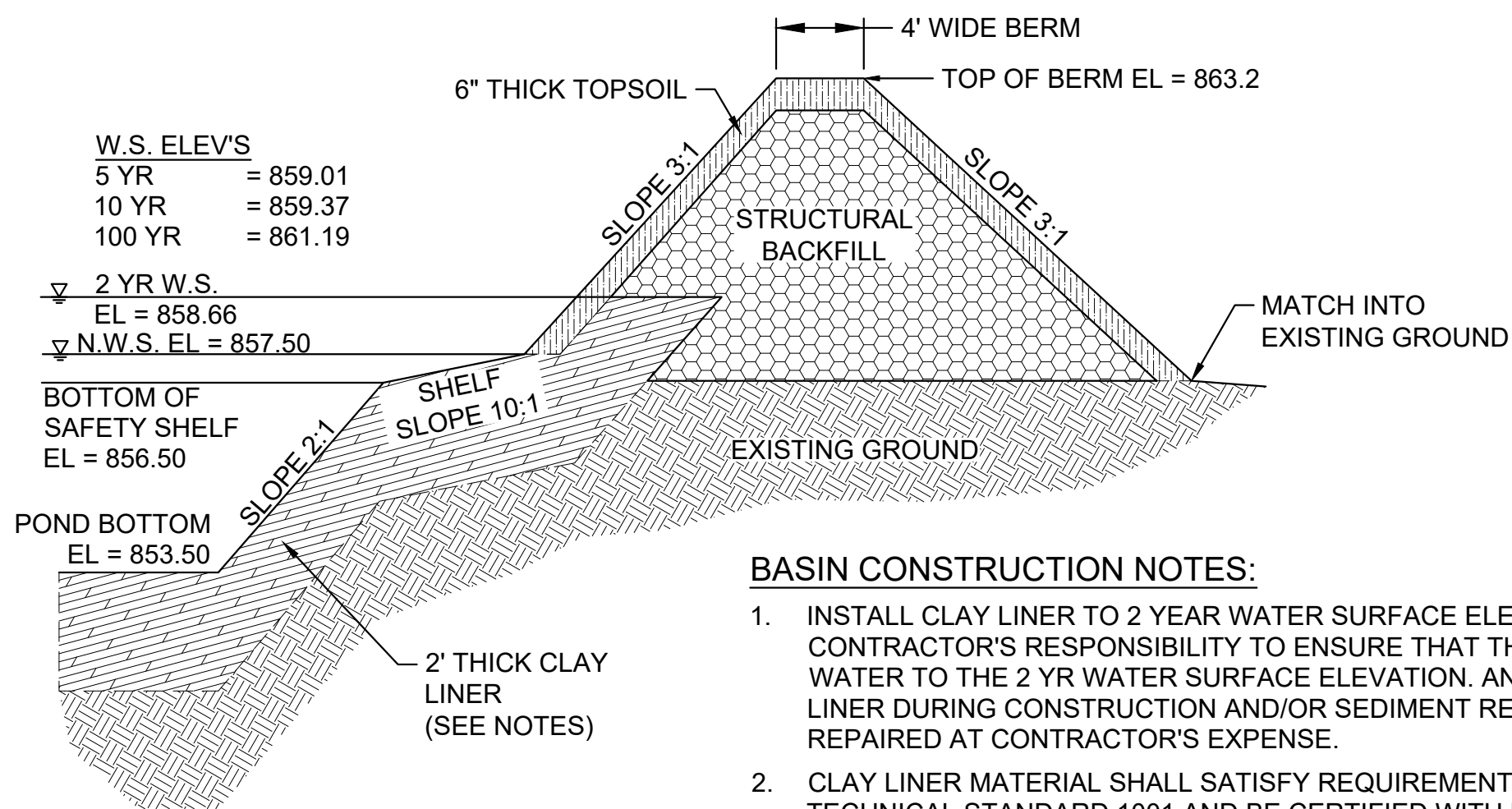
EROSION CONTROL LEGEND	
SEE SHEET D 1.00 FOR DETAILS	
	- CLASS I - TYPE 'A' ECRM
	- CLASS II - TYPE 'B' CHANNEL MATTING
	- CLASS III - TYPE 'B' TRM



VMAX SC350 BY NAG (OR EQUAL)  
INSTALL MATTING FROM 100 YR W.S. ELEV.  
INSIDE BASIN TO TOE OF SLOPE OUTSIDE BASIN  
TRM SHALL BE FILLED WITH TOPSOIL AND  
OVER-MATTED WITH CLASS II - TYPE 'B' ECRM

### BASIN A EMERGENCY SPILLWAY DETAIL

NTS



#### BASIN CONSTRUCTION NOTES:

1. INSTALL CLAY LINER TO 2 YEAR WATER SURFACE ELEVATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WET CELLS HOLD WATER TO THE 2 YR WATER SURFACE ELEVATION. ANY DAMAGED TO CLAY LINER DURING CONSTRUCTION AND/OR SEDIMENT REMOVAL SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
2. CLAY LINER MATERIAL SHALL SATISFY REQUIREMENTS OF WDNR TECHNICAL STANDARD 1001 AND BE CERTIFIED WITH LABORATORY TESTING. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE VILLAGE.
3. INSTALL 6" THICK TOPSOIL OVER CLAY LINER TO TOE OF SAFETY SHELF.
4. SEE SHEET C 2.00 FOR BASIN RESTORATION DETAILS.
5. EXTEND CLAY LINER UNDER TRM AT STORM SEWER OUTFALLS INTO BASIN.
6. SOIL BORING INFORMATION AND LOCATION AVAILABLE WITHIN SEPARATE STORMWATER MANAGEMENT REPORT DOCUMENT.

### BASIN A CROSS SECTION

NTS

SEH Project	170026	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	ZJH	1	REVISED PER MUNICIPAL COMMENTS	03/07/2023			
Designed By	BK						
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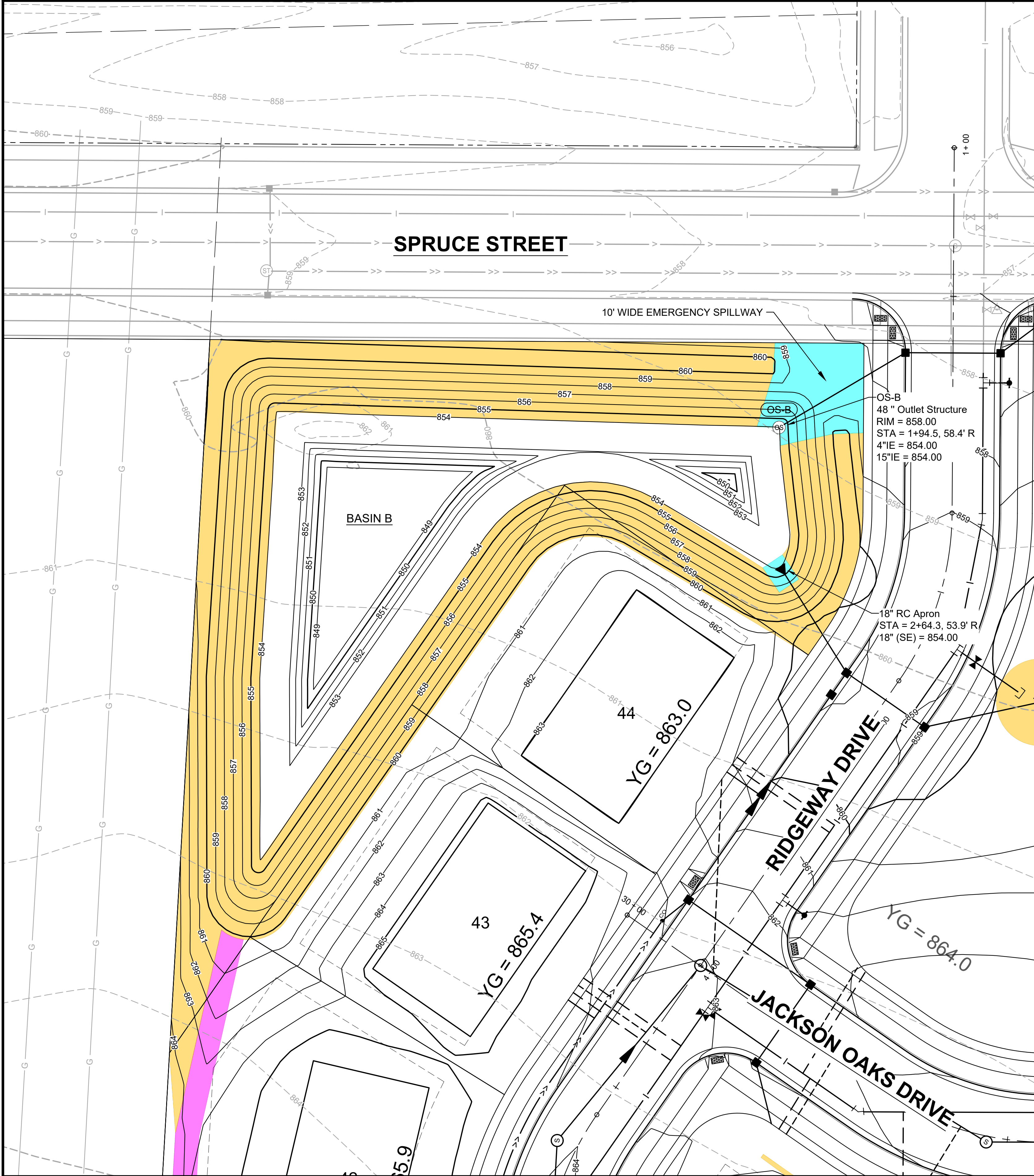
THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

EROSION CONTROL & GRADING  
BASIN A

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of 19

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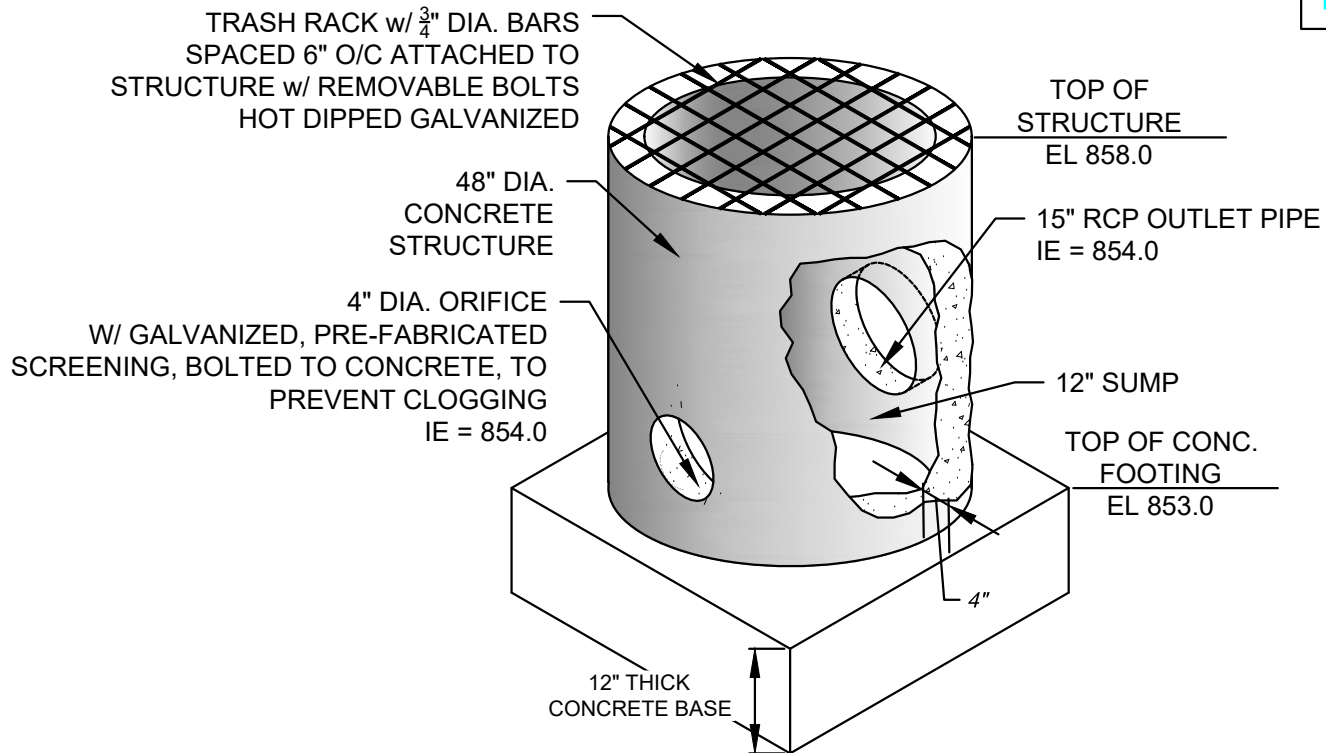
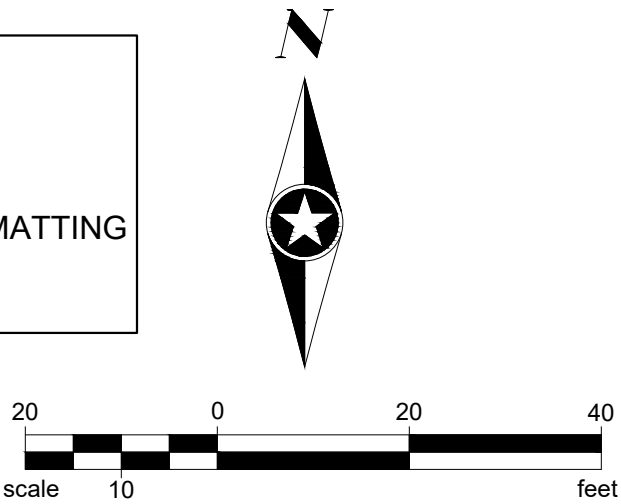


EROSION CONTROL LEGEND  
SEE SHEET D 1.00 FOR DETAILS

- CLASS I - TYPE 'A' ECRM

- CLASS II - TYPE 'B' CHANNEL MATTING

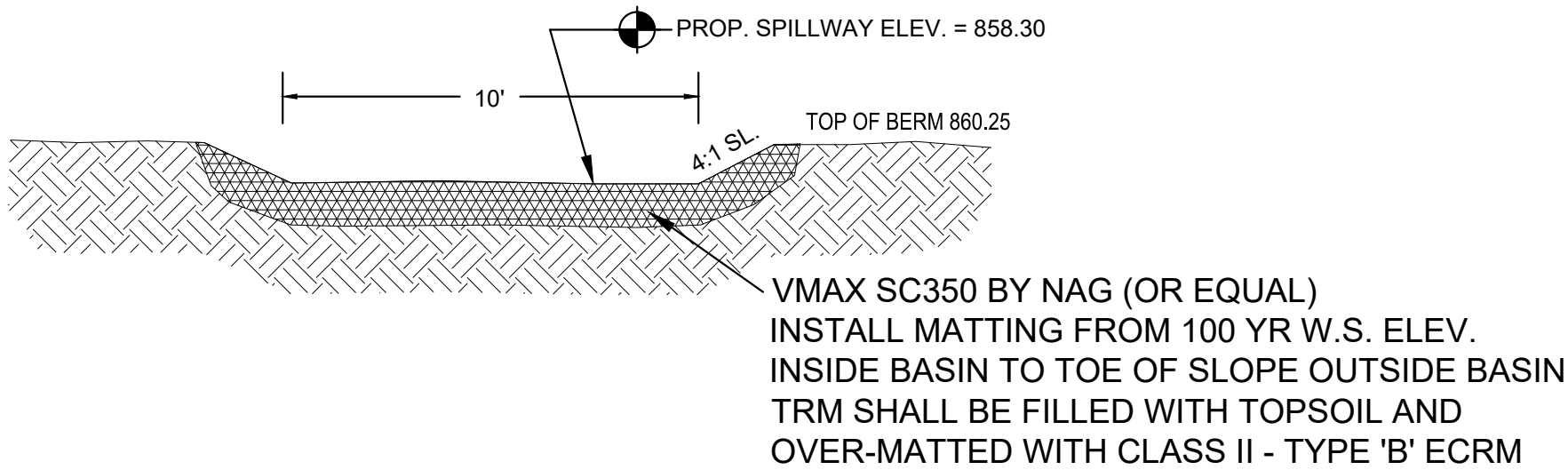
- CLASS III - TYPE 'B' TRM



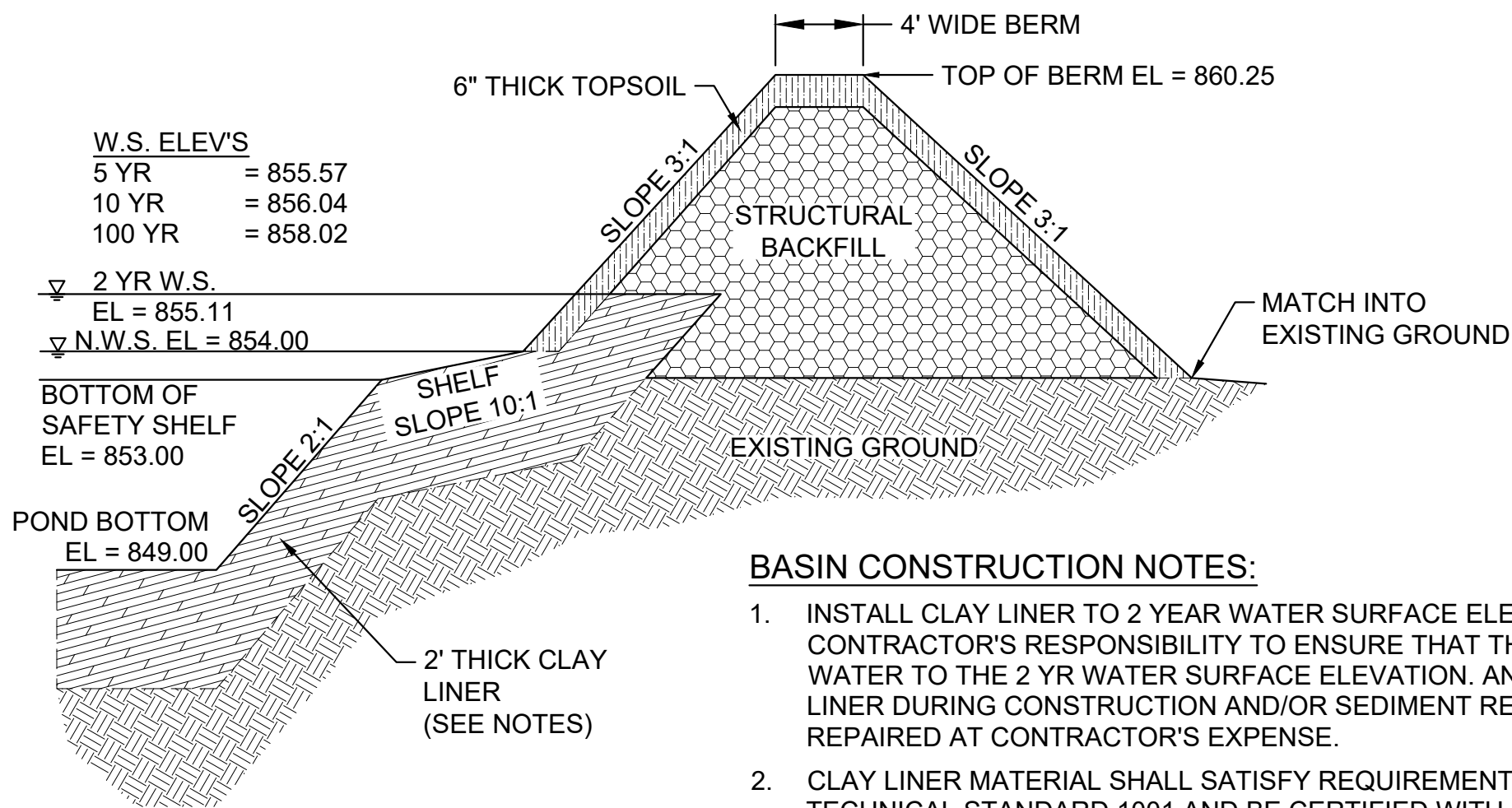
STRUCTURE CONSTRUCTION NOTES:

1. INSTALL RISER VERTICALLY ON TOP OF GRAVEL BASE
2. POUR FOOTING AROUND BASE OF STRUCTURE (EXTEND 4" BEYOND PIPE EDGE)
3. FILL RISER WITH CONCRETE TO SUMP ELEVATION

BASIN B OUTLET STRUCTURE DETAIL  
NTS



BASIN B EMERGENCY SPILLWAY DETAIL  
NTS



BASIN CONSTRUCTION NOTES:

1. INSTALL CLAY LINER TO 2 YEAR WATER SURFACE ELEVATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WET CELLS HOLD WATER TO THE 2 YR WATER SURFACE ELEVATION. ANY DAMAGED TO CLAY LINER DURING CONSTRUCTION AND/OR SEDIMENT REMOVAL SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
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4. SEE SHEET C 2.00 FOR BASIN RESTORATION DETAILS.
5. EXTEND CLAY LINER UNDER TRM AT STORM SEWER OUTFALLS INTO BASIN.
6. SOIL BORING INFORMATION AND LOCATION AVAILABLE WITHIN SEPARATE STORMWATER MANAGEMENT REPORT DOCUMENT.

BASIN B CROSS SECTION  
NTS

SEH Project	170026	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	ZJH	1	REVISED PER MUNICIPAL COMMENTS	03/07/2023			
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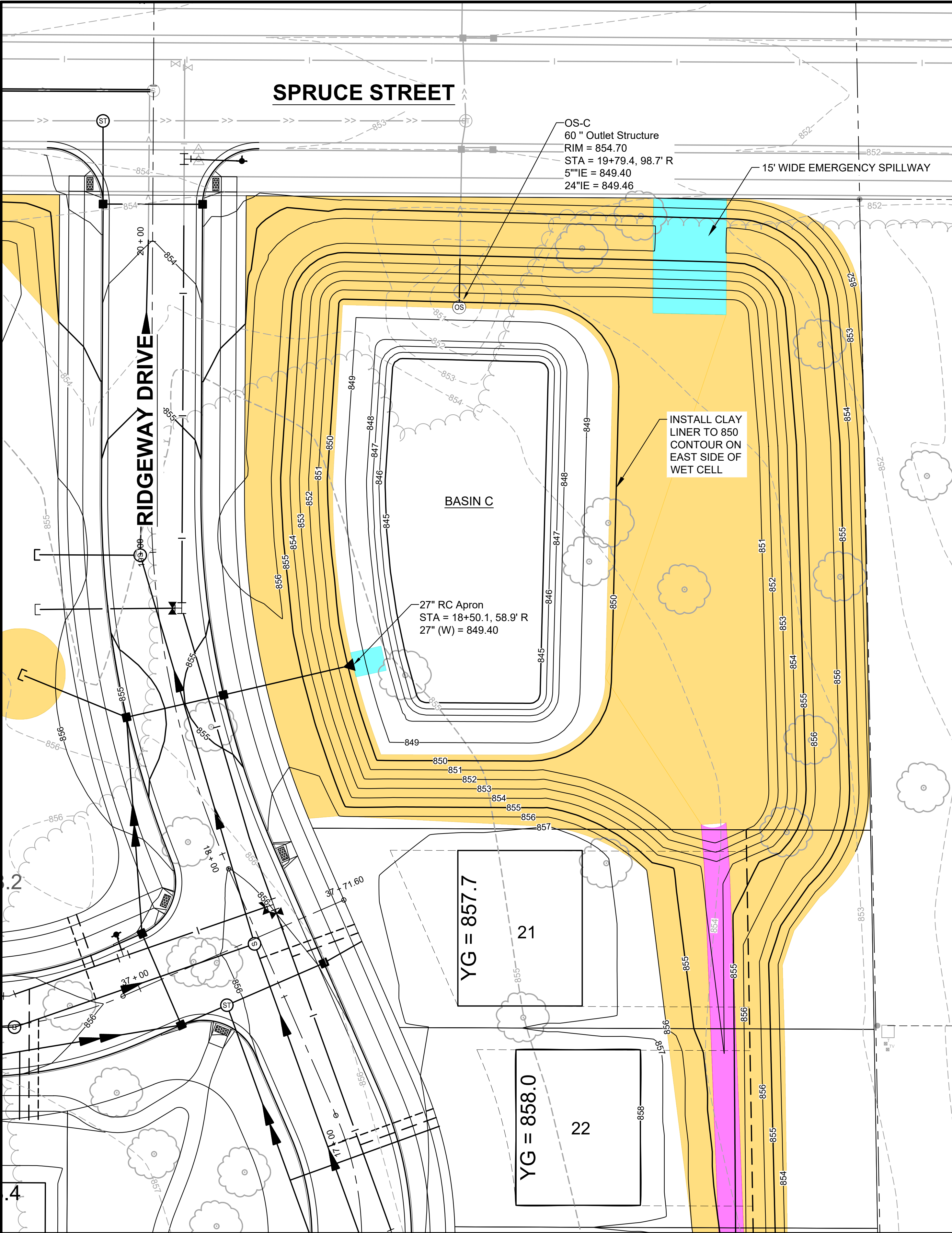
THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

EROSION CONTROL & GRADING  
BASIN B

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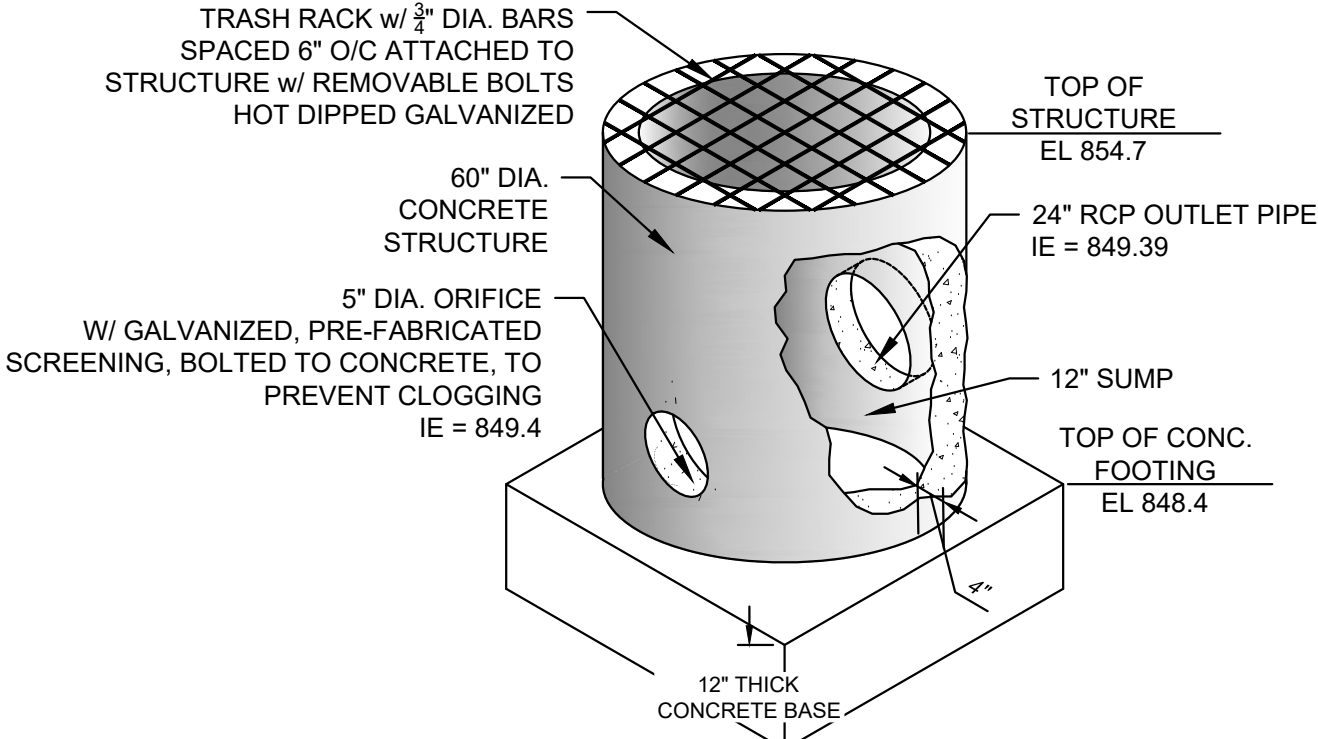
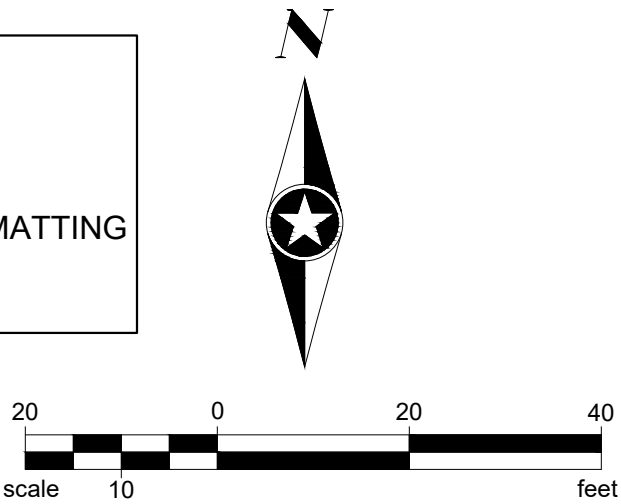


EROSION CONTROL LEGEND  
SEE SHEET D 1.00 FOR DETAILS

- CLASS I - TYPE 'A' ECRM

- CLASS II - TYPE 'B' CHANNEL MATTING

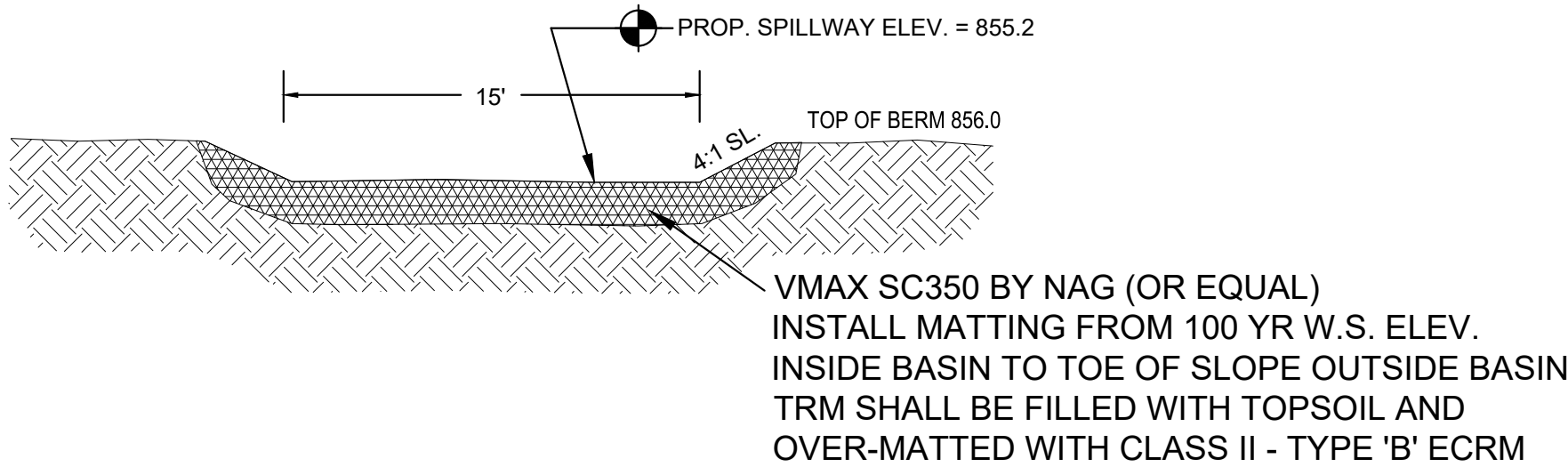
- CLASS III - TYPE 'B' TRM



- STRUCTURE CONSTRUCTION NOTES:
1. INSTALL RISER VERTICALLY ON TOP OF GRAVEL BASE
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  3. FILL RISER WITH CONCRETE TO SUMP ELEVATION

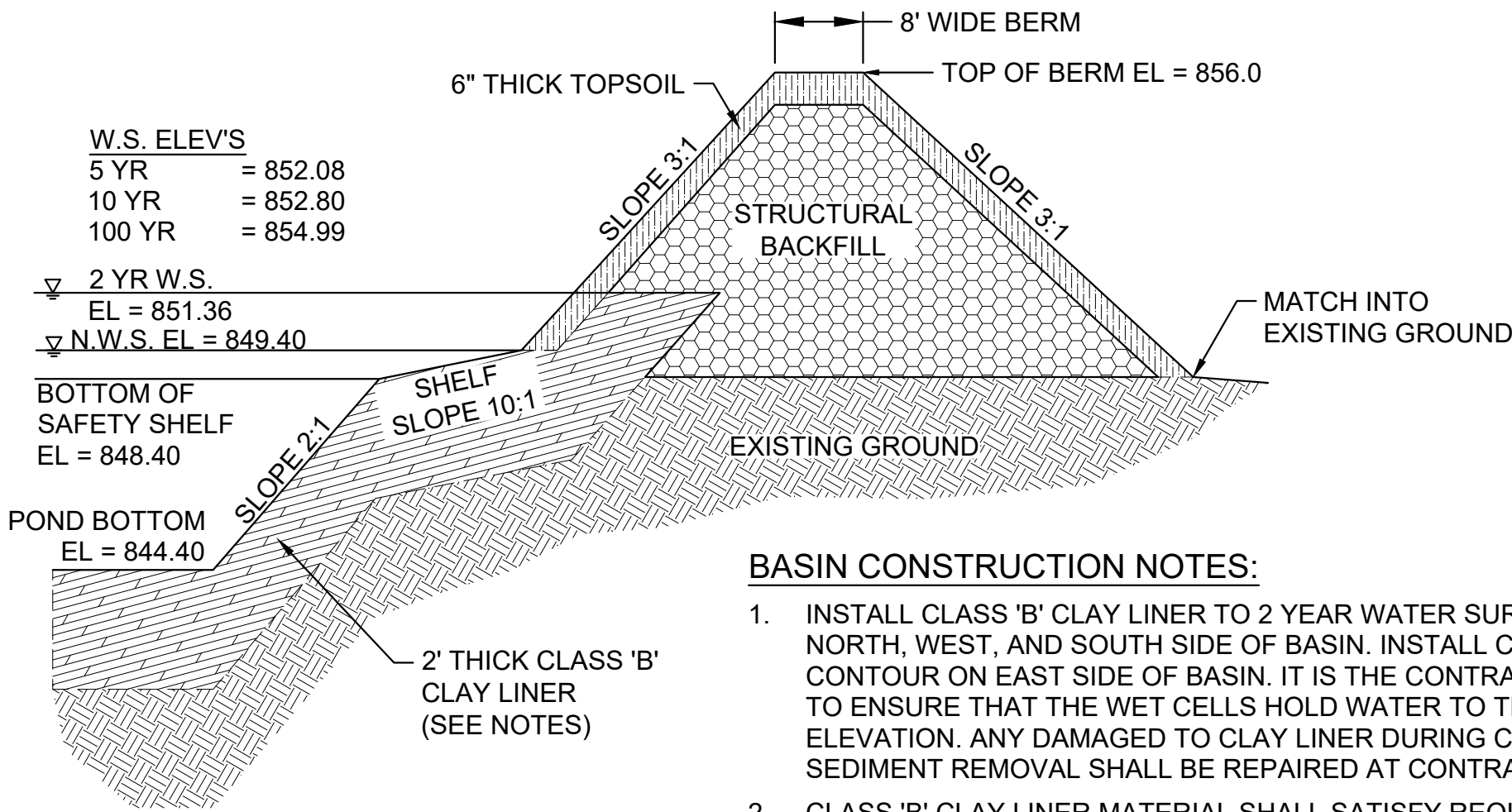
BASIN C OUTLET STRUCTURE DETAIL

NTS



BASIN C EMERGENCY SPILLWAY DETAIL

NTS



- BASIN CONSTRUCTION NOTES:
1. INSTALL CLASS 'B' CLAY LINER TO 2 YEAR WATER SURFACE ELEVATION ON NORTH, WEST, AND SOUTH SIDE OF BASIN. INSTALL CLAY LINER TO 850 CONTOUR ON EAST SIDE OF BASIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WET CELLS HOLD WATER TO THE 2 YR WATER SURFACE ELEVATION. ANY DAMAGED TO CLAY LINER DURING CONSTRUCTION AND/OR SEDIMENT REMOVAL SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
  2. CLASS 'B' CLAY LINER MATERIAL SHALL SATISFY REQUIREMENTS OF WDNr TECHNICAL STANDARD 1001 AND BE CERTIFIED WITH LABORATORY TESTING. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE VILLAGE.
  3. INSTALL 6" THICK TOPSOIL OVER CLAY LINER TO TOE OF SAFETY SHELF.
  4. SEE SHEET C 2.00 FOR BASIN RESTORATION DETAILS.
  5. EXTEND CLAY LINER UNDER TRM AT STORM SEWER OUTFALLS INTO BASIN.
  6. SOIL BORING INFORMATION AND LOCATION AVAILABLE WITHIN SEPARATE STORMWATER MANAGEMENT REPORT DOCUMENT.

BASIN C CROSS SECTION

NTS

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Drawn By	ZJH	1	REVISED PER MUNICIPAL COMMENTS	03/07/2023			
Designed By	BK						
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THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

EROSION CONTROL & GRADING  
BASIN C

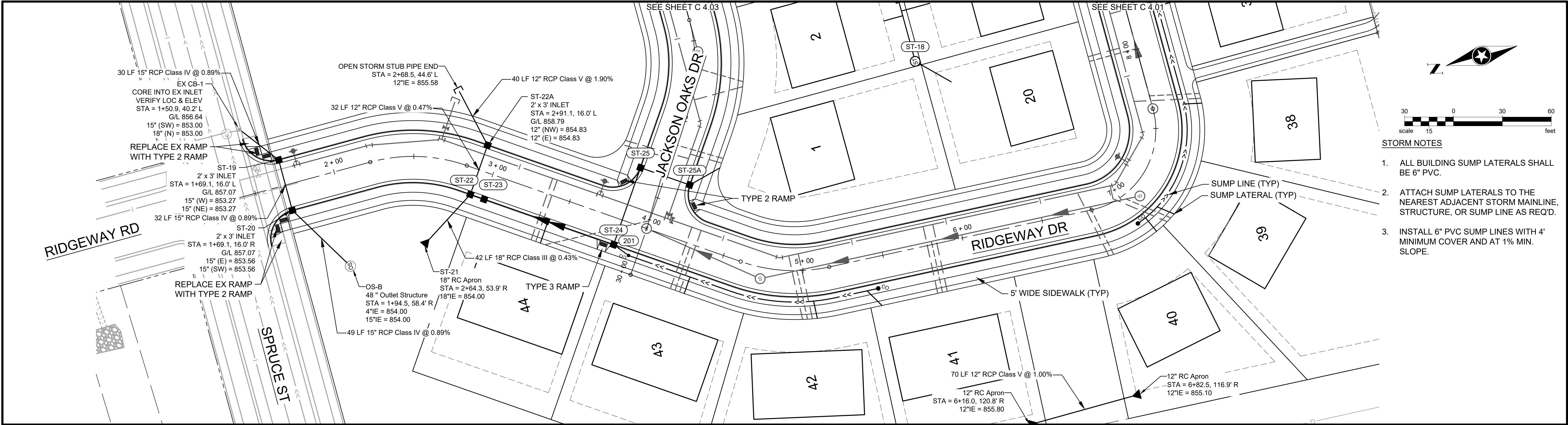
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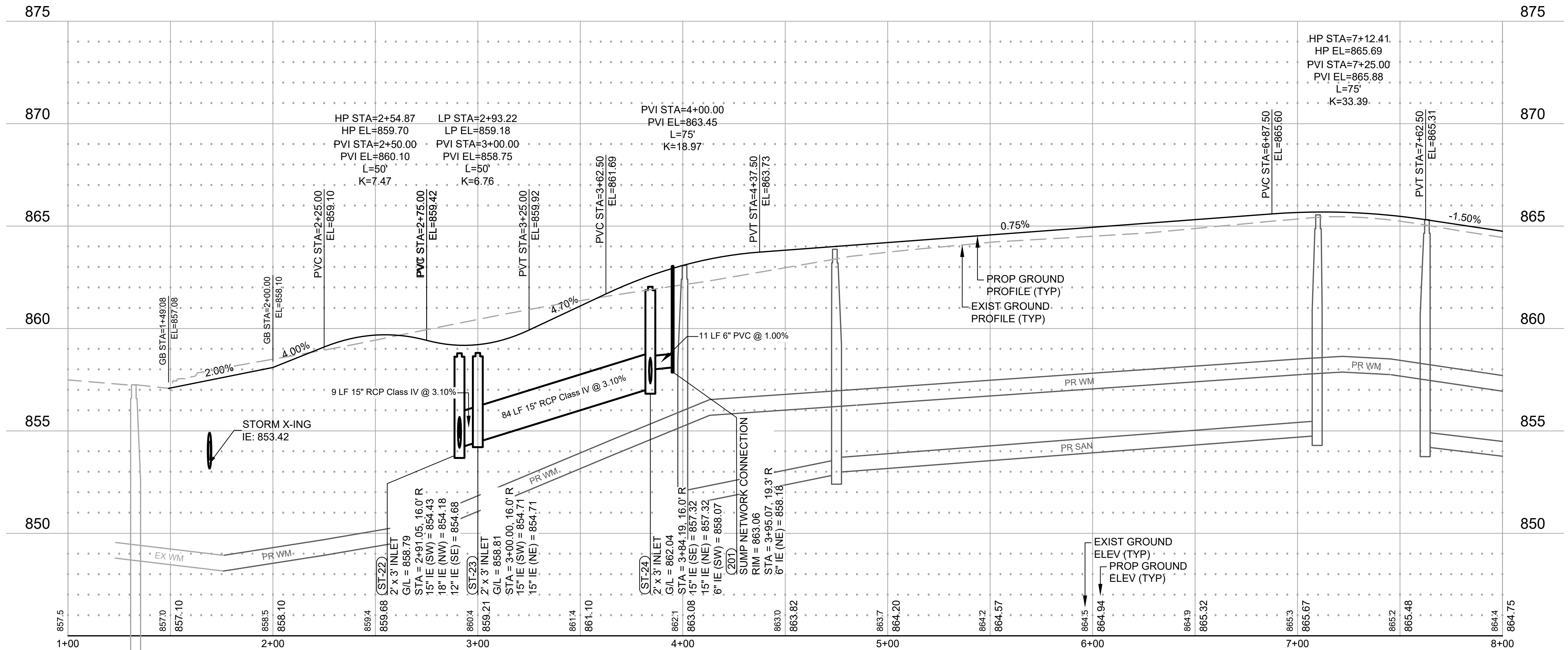
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- STORM NOTES**
1. ALL BUILDING SUMP LATERALS SHALL BE 6" PVC.
  2. ATTACH SUMP LATERALS TO THE NEAREST ADJACENT STORM MAINLINE, STRUCTURE, OR SUMP LINE AS REQ'D.
  3. INSTALL 6" PVC SUMP LINES WITH 4' MINIMUM COVER AND AT 1% MIN. SLOPE.



SEH Project	170026
Drawn By	ZJH
Designed By	BK
Checked By	MPC

Rev.#	Revision Issue Description	Date
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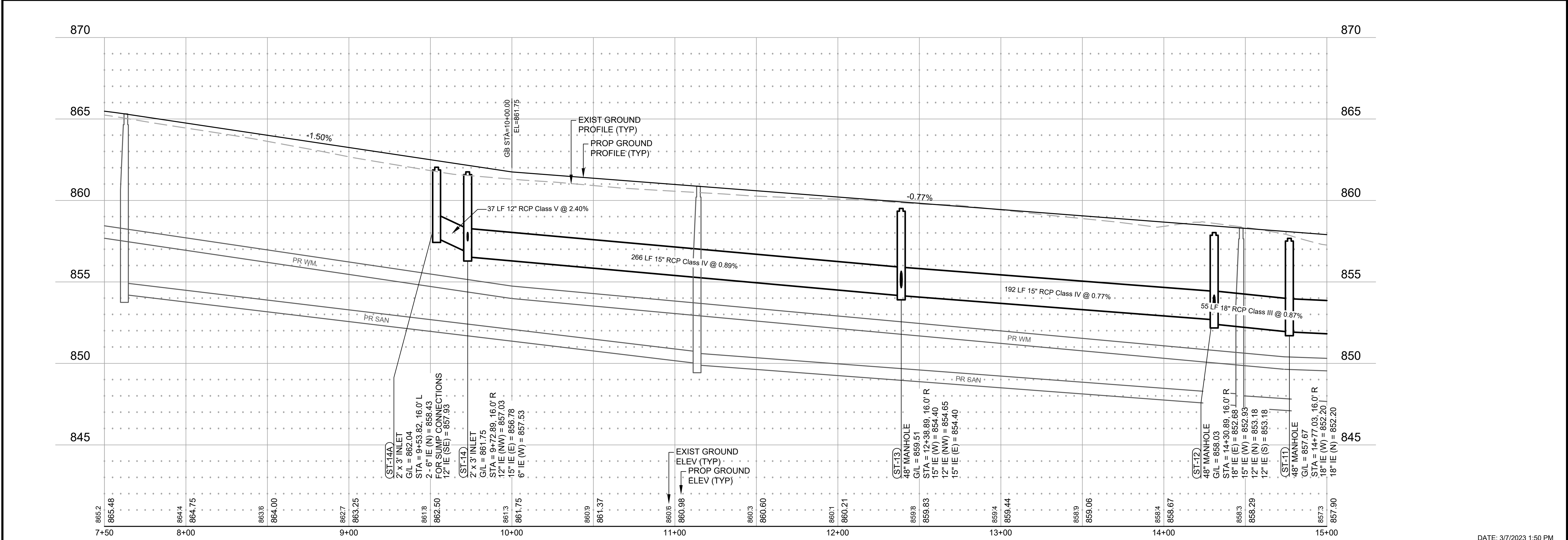
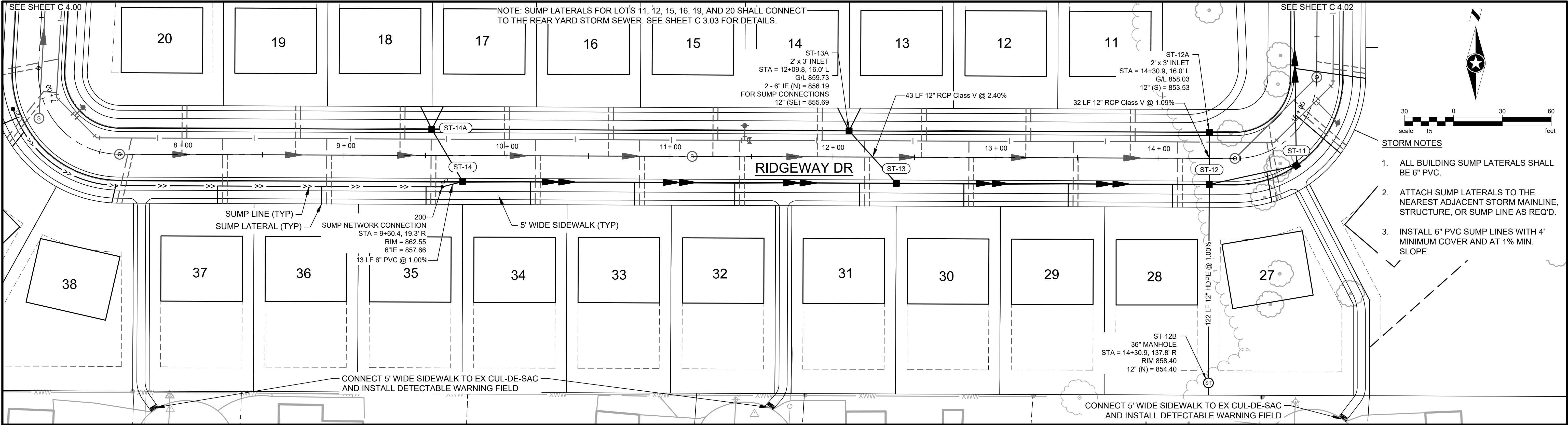
THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

ROAD & STORM SEWER  
RIDGWAY DRIVE - STA 1+00 TO 8+00

C 3.00  
of 19

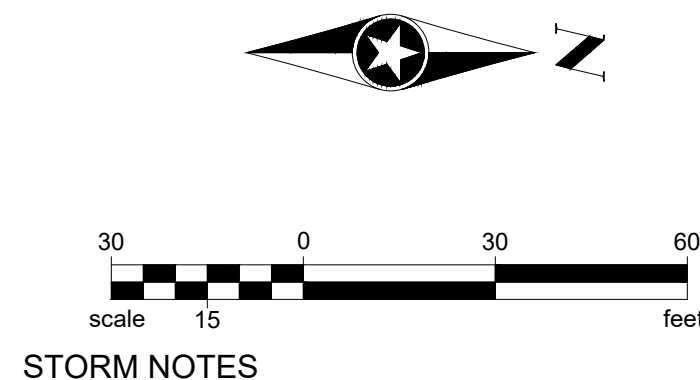
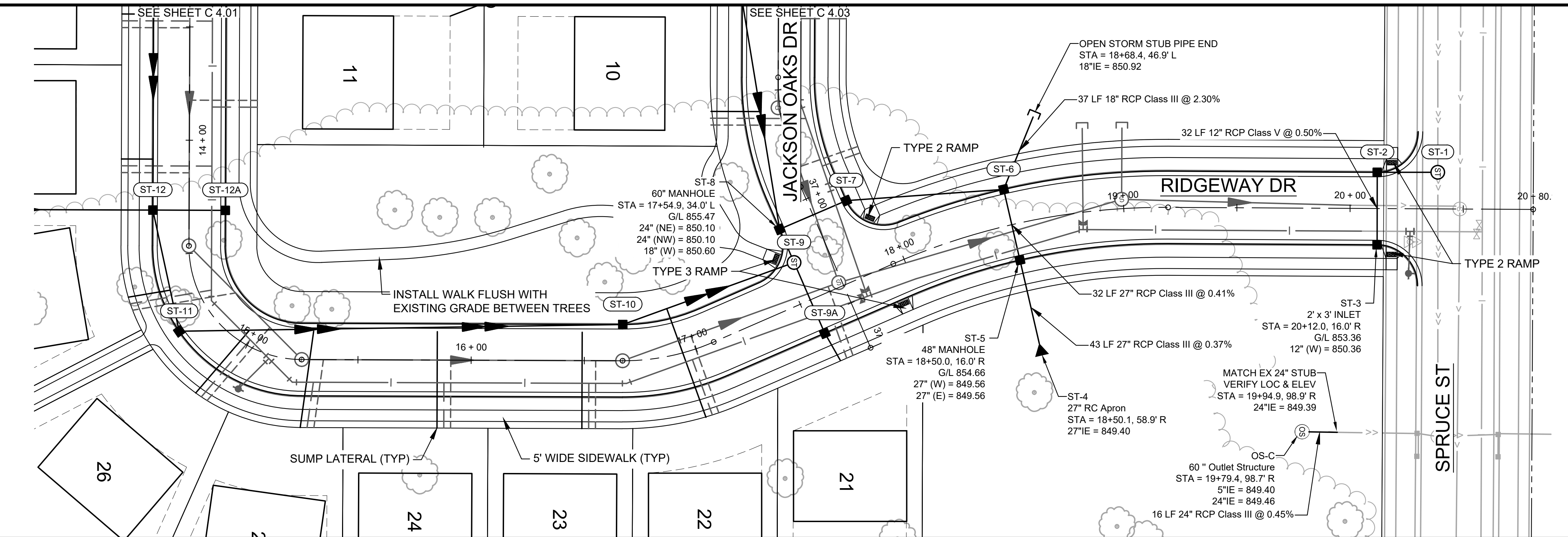
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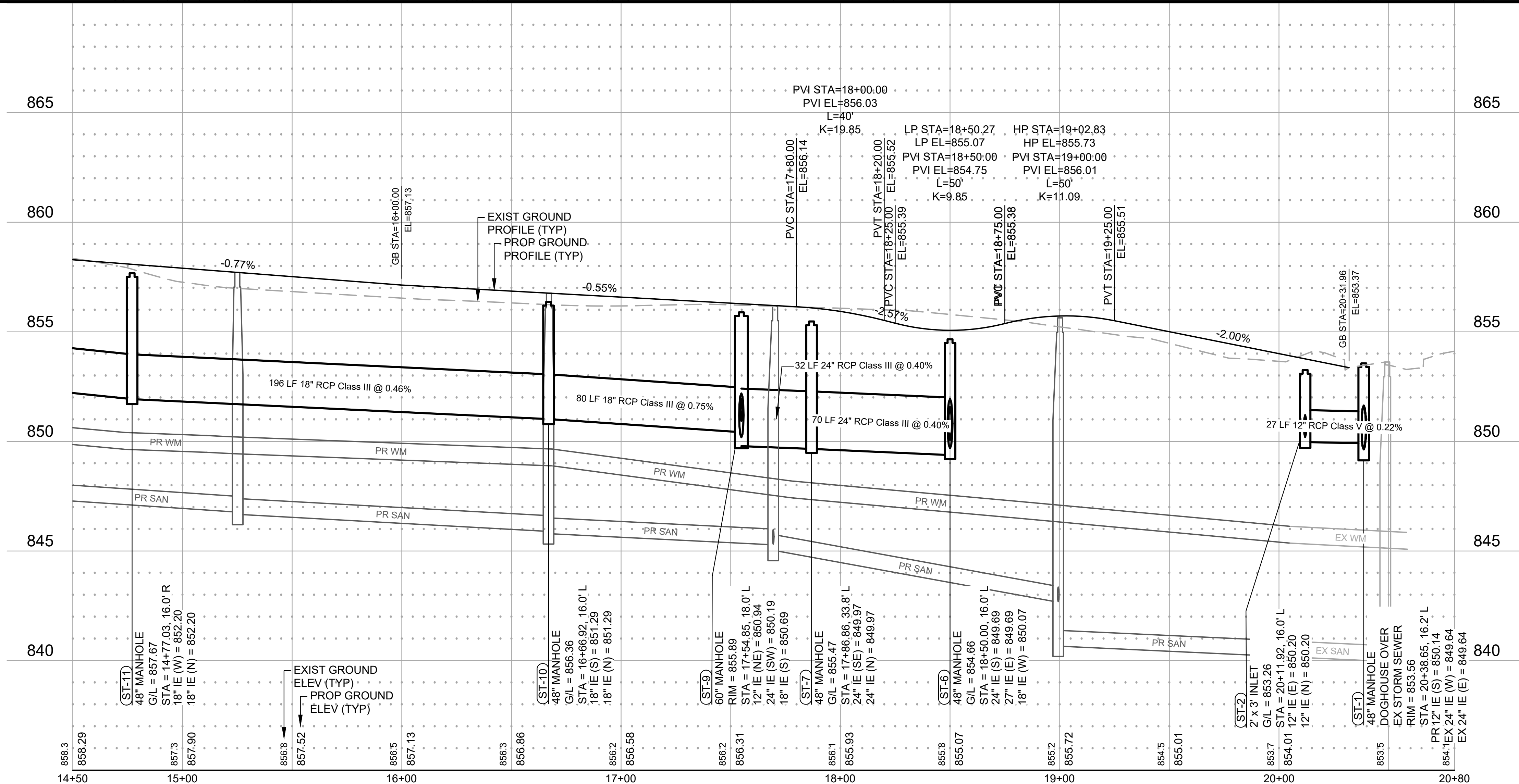


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STORM NOTES

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- INSTALL 6" PVC SUMP LINES WITH 4" MINIMUM COVER AND AT 1% MIN. SLOPE.



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SEH Project	170026
Drawn By	ZJH
Designed By	BK
Checked By	MPC

Rev.#	1
Revision Issue Description	REVISED PER MUNICIPAL COMMENTS
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Date	



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THE OAKS OF JACKSON  
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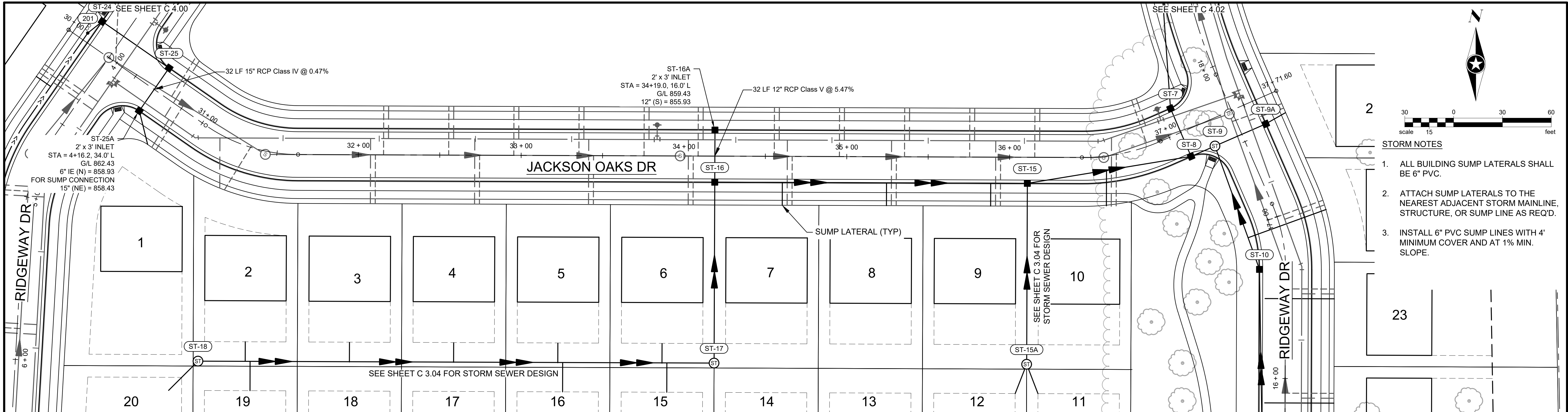
ROAD & STORM SEWER  
RIDGWAY DRIVE - STA 15+00 TO 20+80

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of 19

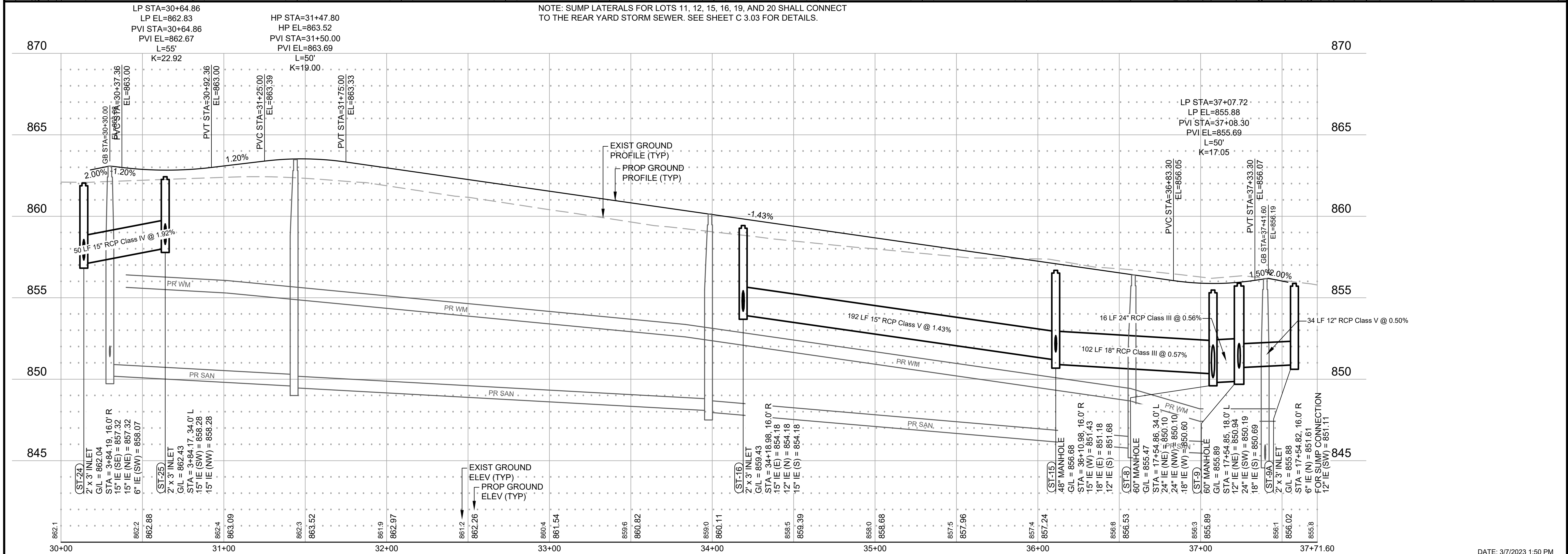


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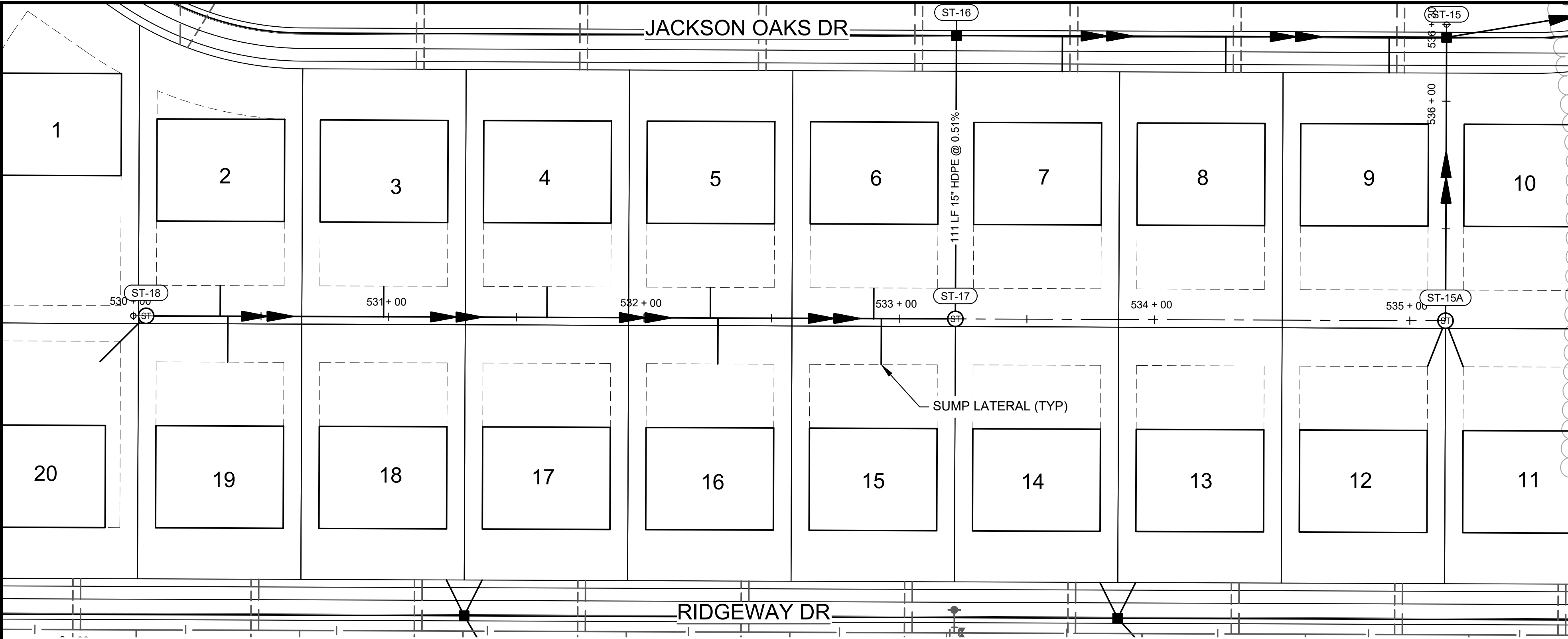


- STORM NOTES
1. ALL BUILDING SUMP LATERALS SHALL BE 6" PVC.
  2. ATTACH SUMP LATERALS TO THE NEAREST ADJACENT STORM MAINLINE, STRUCTURE, OR SUMP LINE AS REQ'D.
  3. INSTALL 6" PVC SUMP LINES WITH 4' MINIMUM COVER AND AT 1% MIN. SLOPE.

NOTE: SUMP LATERALS FOR LOTS 11, 12, 15, 16, 19, AND 20 SHALL CONNECT TO THE REAR YARD STORM SEWER. SEE SHEET C 3.03 FOR DETAILS.







STORM NOTES

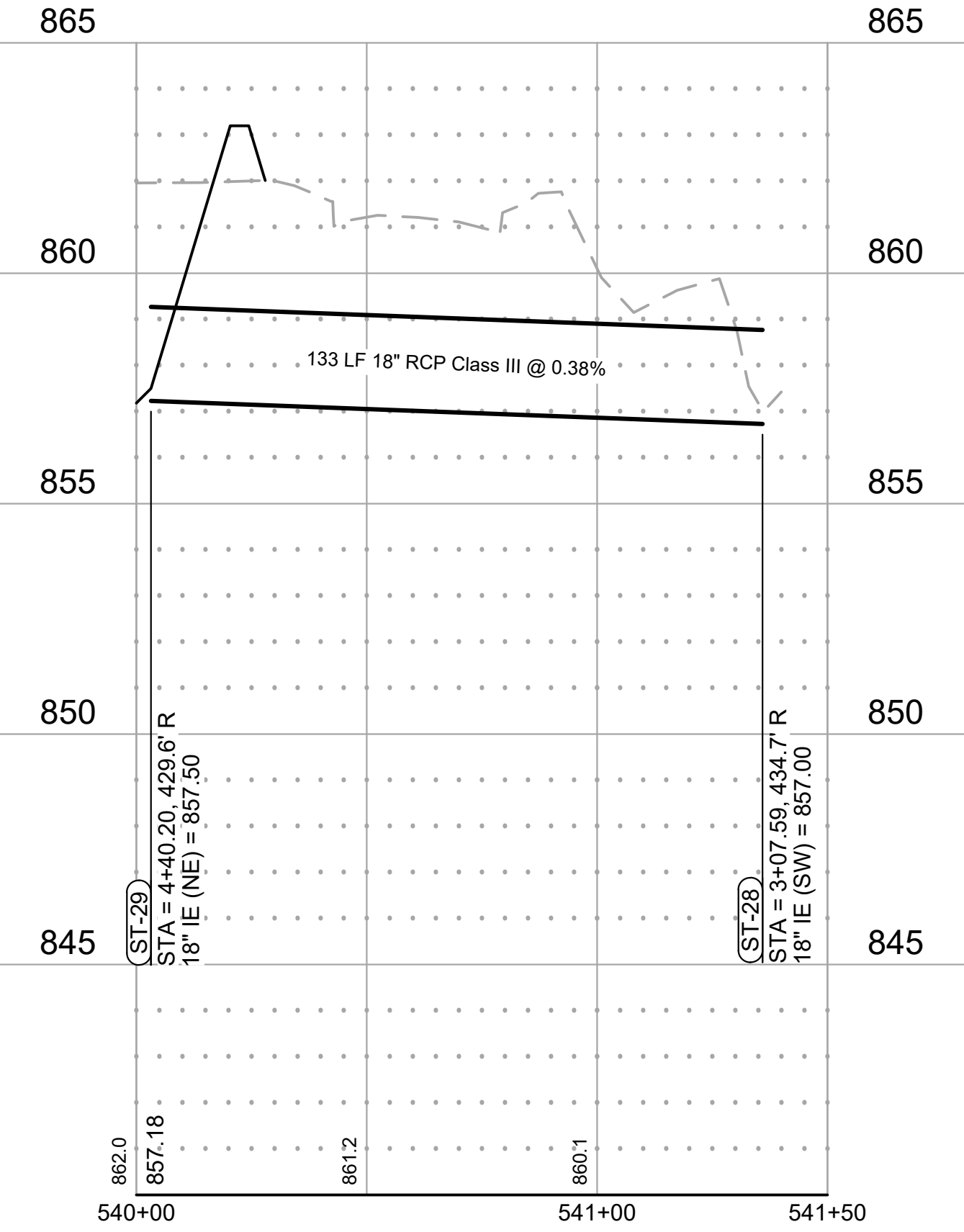
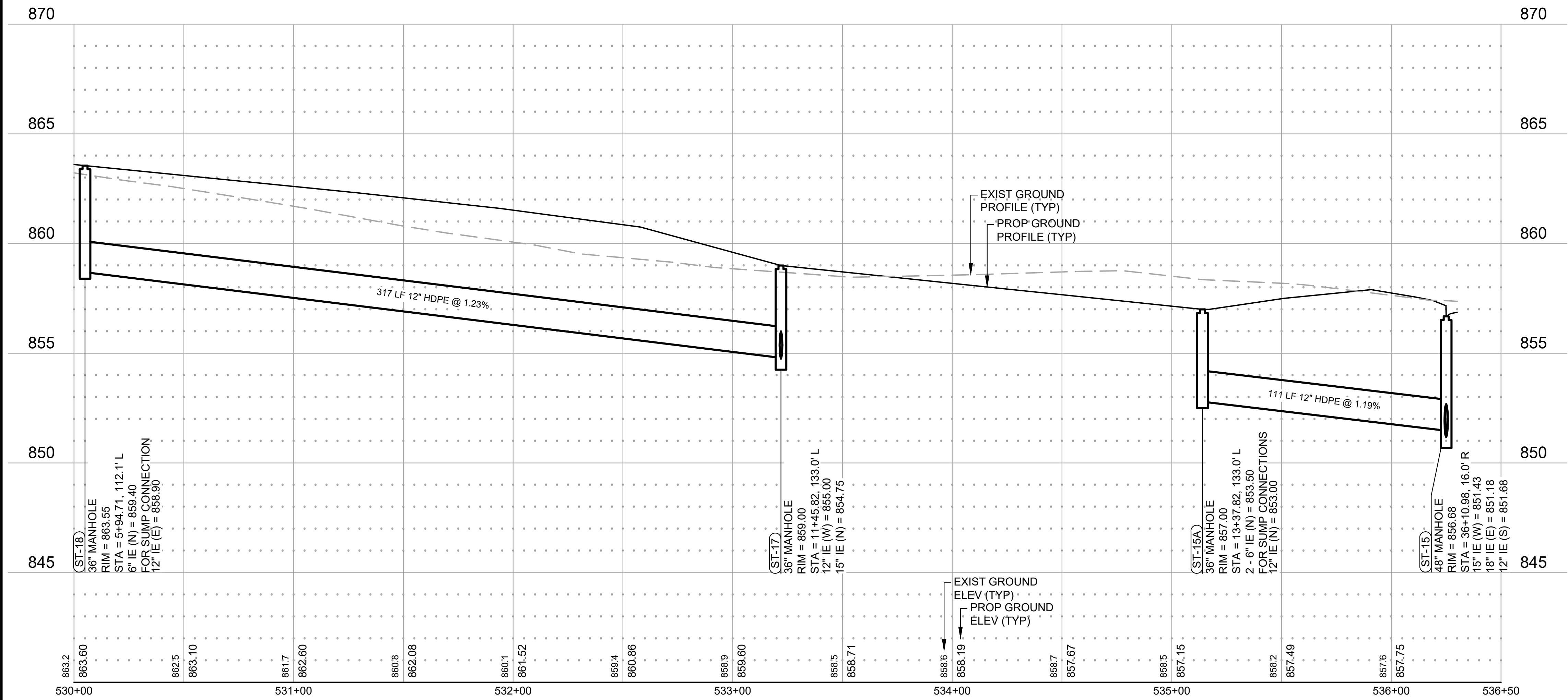
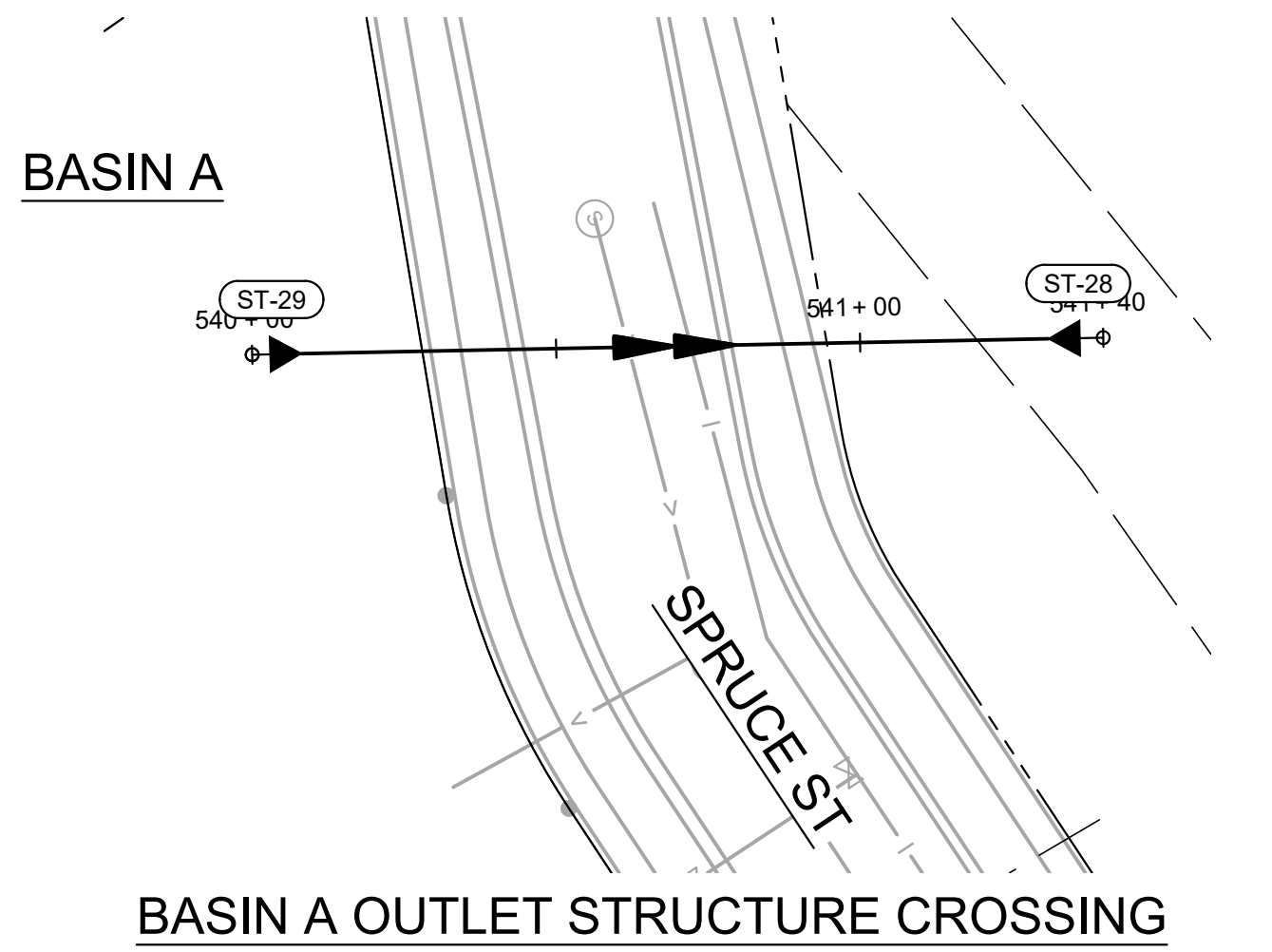
1. ALL BUILDING SUMP LATERALS SHALL BE 6" PVC.

2. ATTACH SUMP LATERALS TO THE NEAREST ADJACENT STORM MAINLINE, STRUCTURE, OR SUMP LINE AS REQ'D.

3. INSTALL 6" PVC SUMP LINES WITH 4' MINIMUM COVER AND AT 1% MIN. SLOPE.

3001560

scale15feet





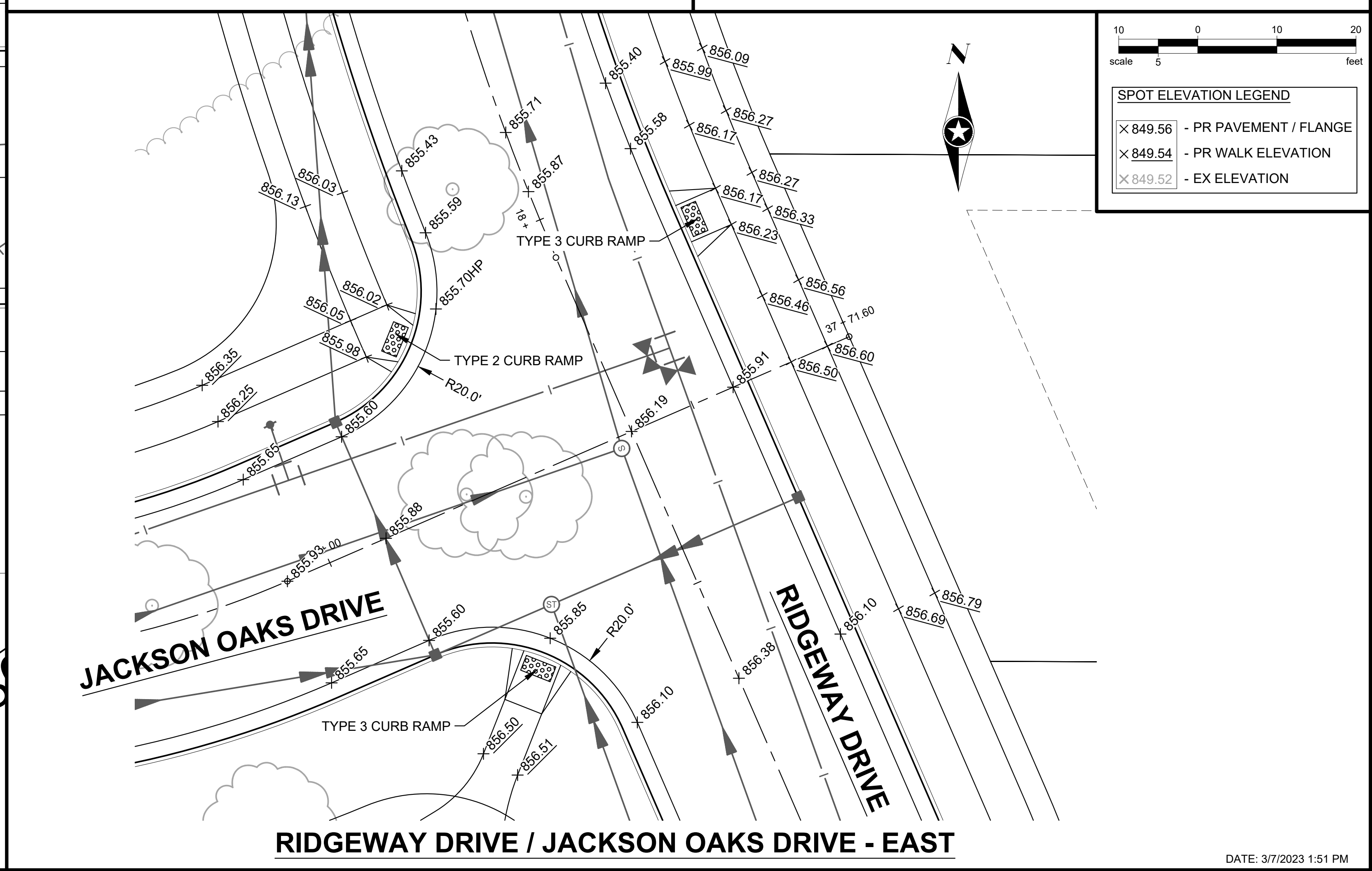
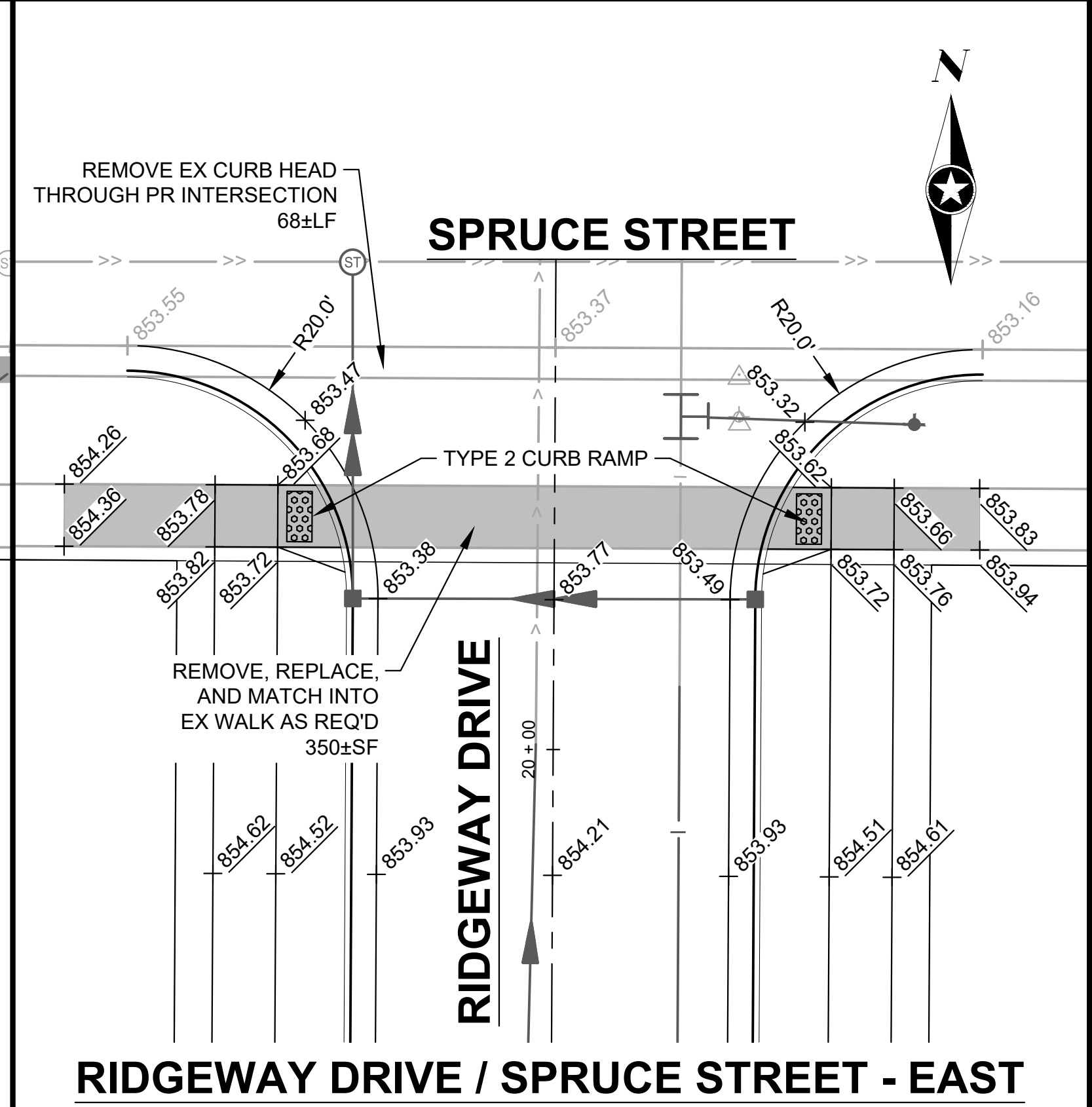
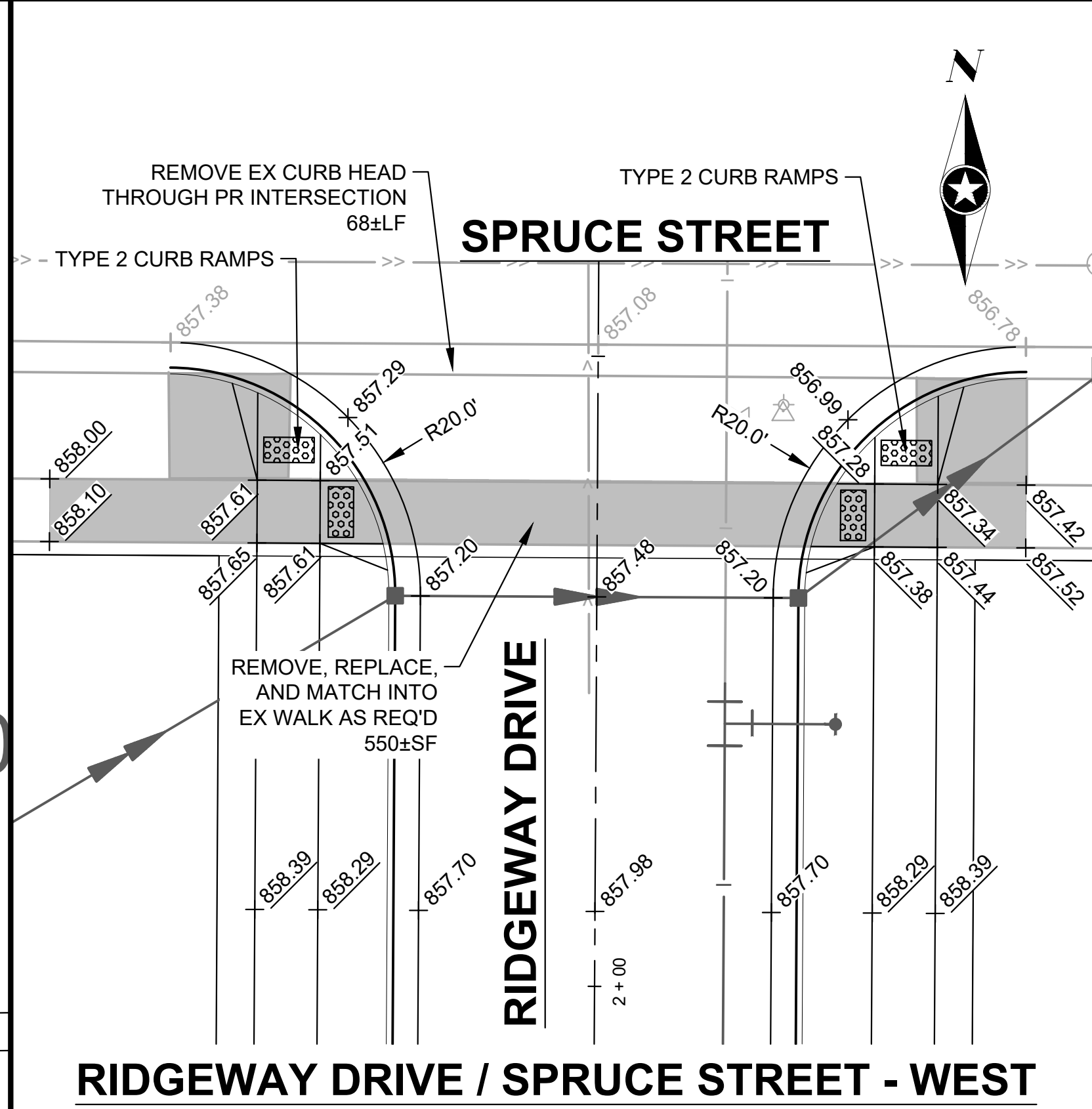
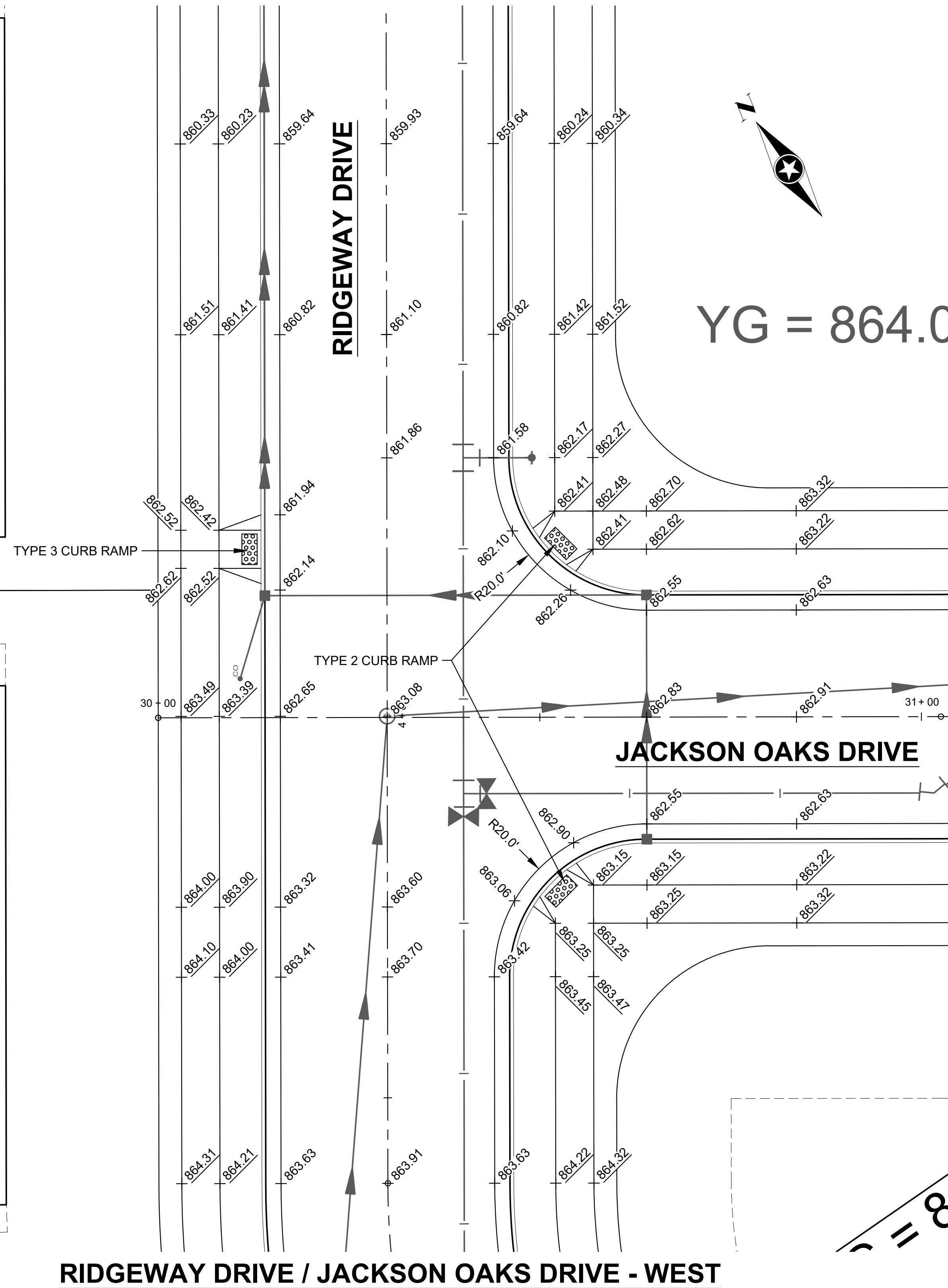
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44

YG = 863.0

43

YG = 865.4



10 0 10 20  
scale 5 feet

**SPOT ELEVATION LEGEND**

- × 849.56 - PR PAVEMENT / FLANGE
- × 849.54 - PR WALK ELEVATION
- × 849.52 - EX ELEVATION

SEH Project	170026	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	ZJH						
Designed By	BK						
Checked By	MPC						



NOTE:  
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL  
D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE  
GUIDELINES OF C/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE  
COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."  
THE CONTRACTOR SHALL CALL THE STATE ONE CALL SYSTEM AT 811  
BEFORE COMMENCING EXCAVATION.



THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

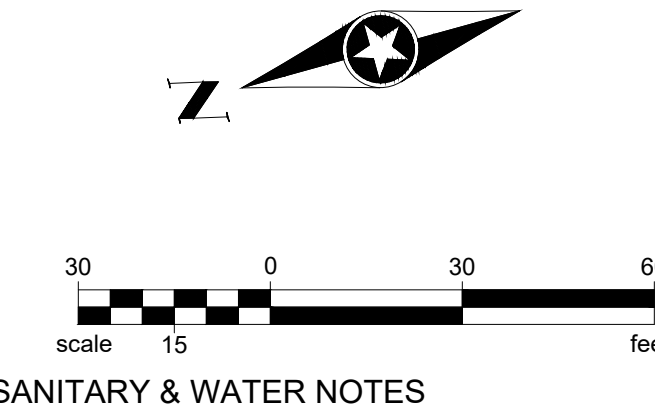
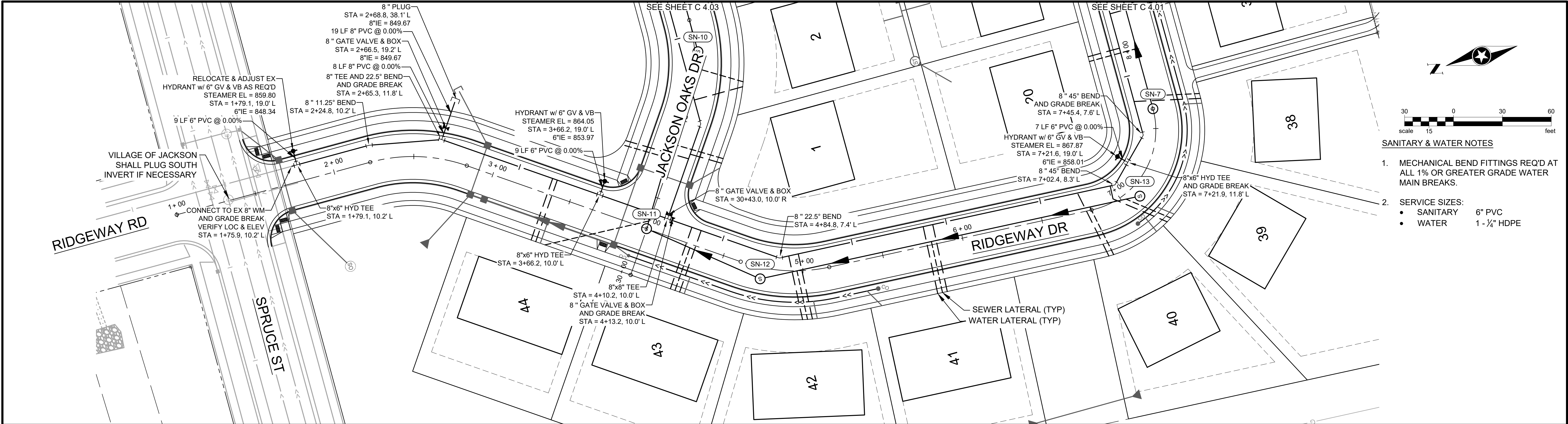
ROAD & STORM SEWER  
INTERSECTION DETAILS

C 3.05  
of 19

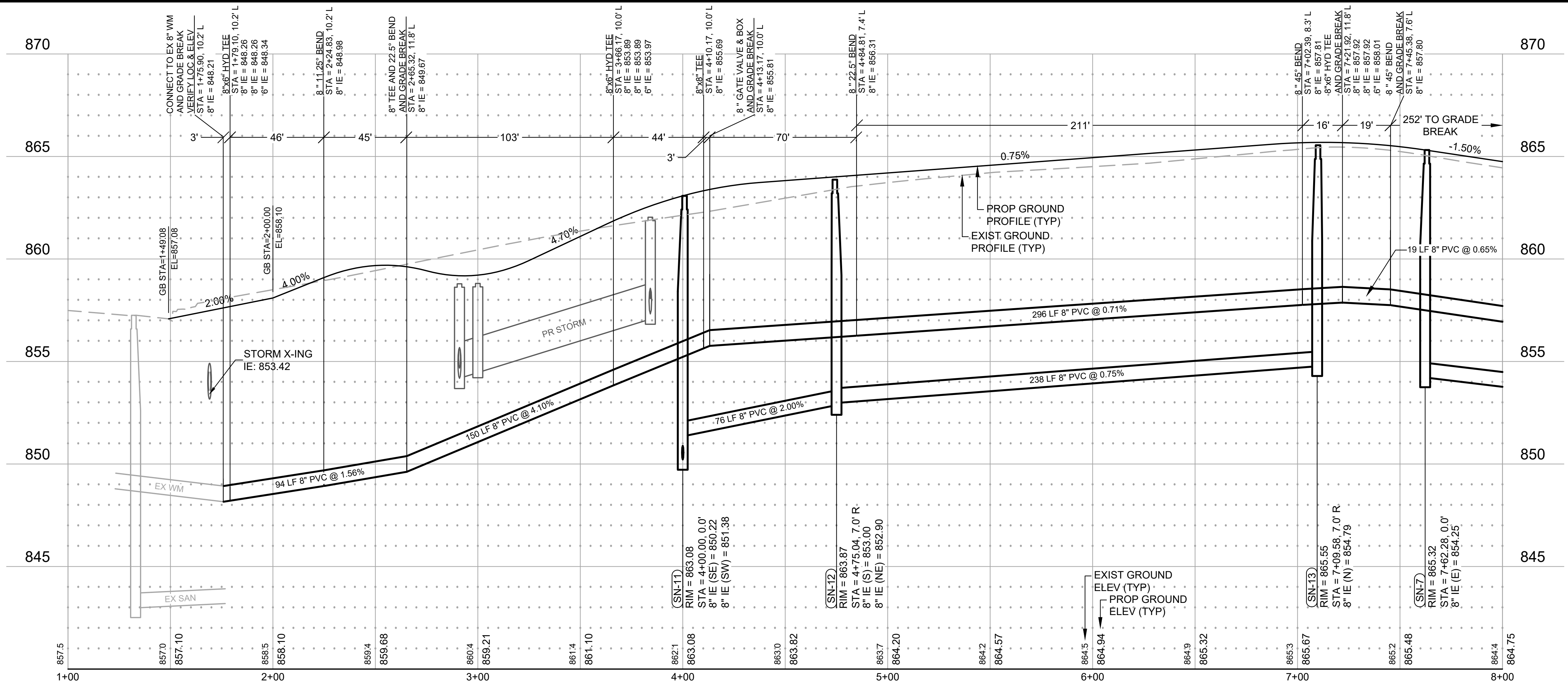
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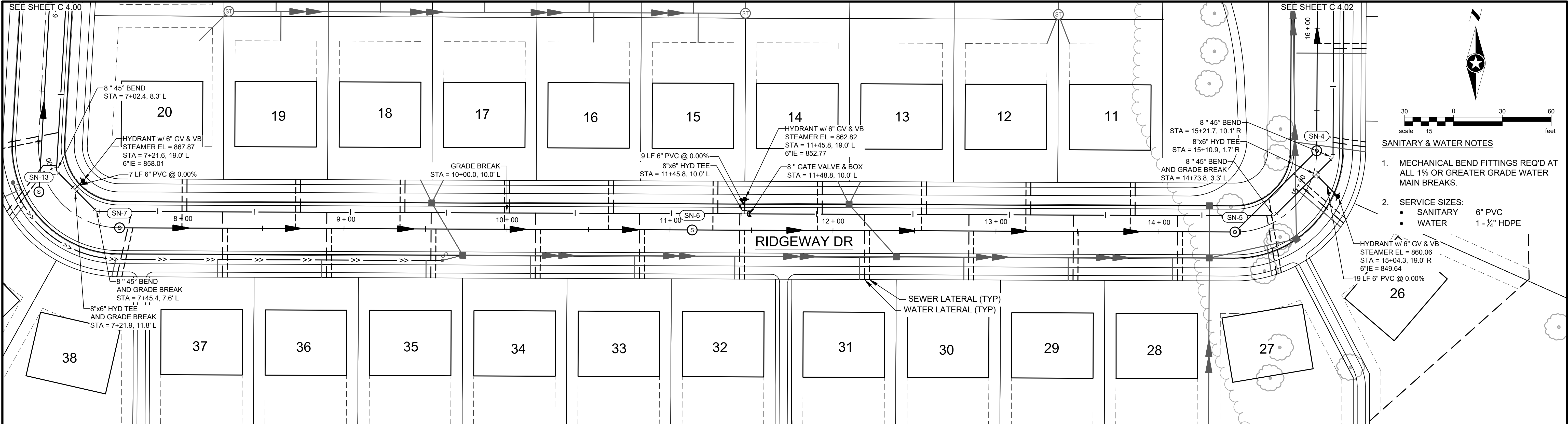


- SANITARY & WATER NOTES**
- MECHANICAL BEND FITTINGS REQ'D AT ALL 1% OR GREATER GRADE WATER MAIN BREAKS.
  - SERVICE SIZES:
    - SANITARY 6" PVC
    - WATER 1 - 1/4" HDPE



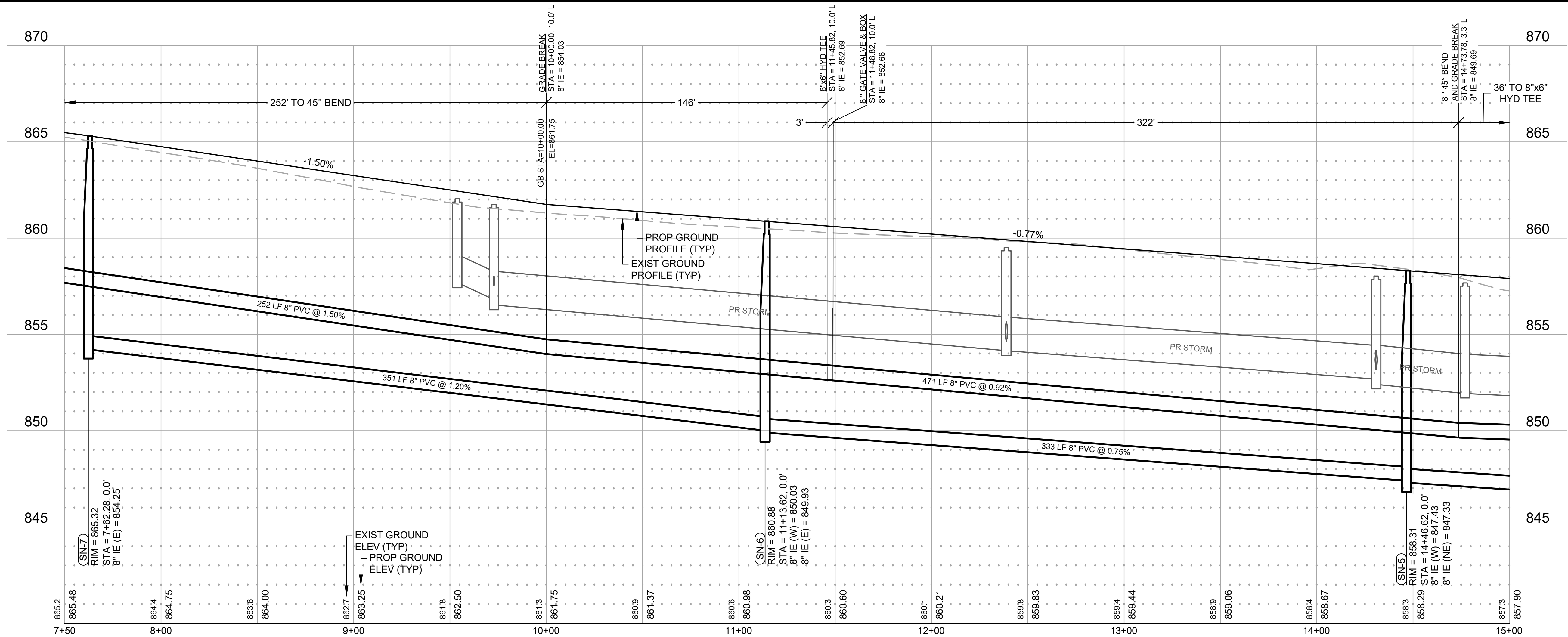


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SANITARY & WATER NOTES

- MECHANICAL BEND FITTINGS REQ'D AT ALL 1% OR GREATER GRADE WATER MAIN BREAKS.
- SERVICE SIZES:
  - SANITARY 6" PVC
  - WATER 1 - 1/4" HDPE



DATE: 3/7/2023 1:53 PM

SEH Project	170026	Rev.#	1	Revision Issue Description	REVISED PER MUNICIPAL COMMENTS	Date	03/07/2023
Drawn By	ZJH						
Designed By	BK						
Checked By	MPC						



NOTE:  
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL  
D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE  
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THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

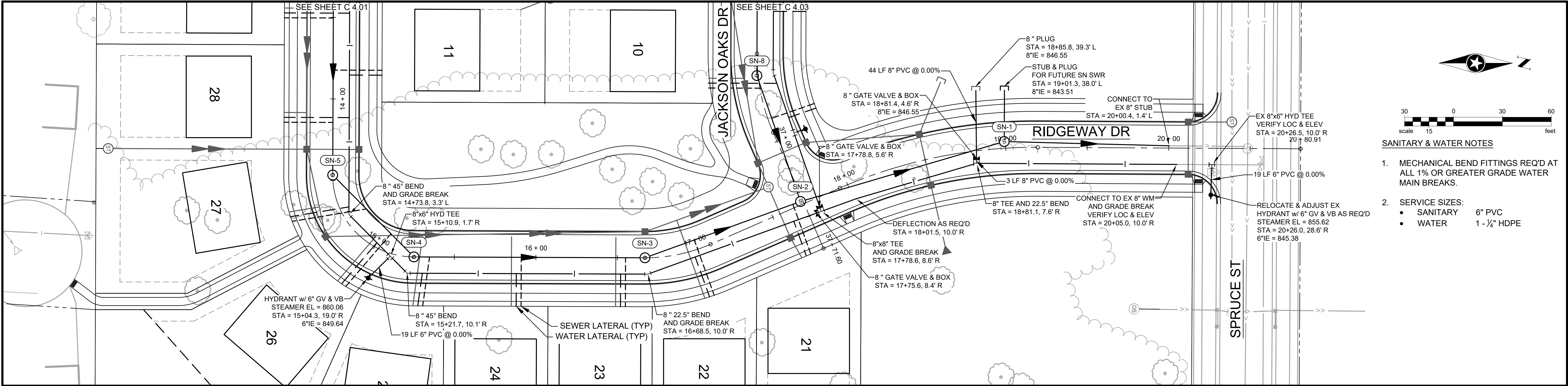
SANITARY SEWER & WATER MAIN  
RIDGEMAN DRIVE - STA 8+00 TO 15+00

C 4.01

of 19

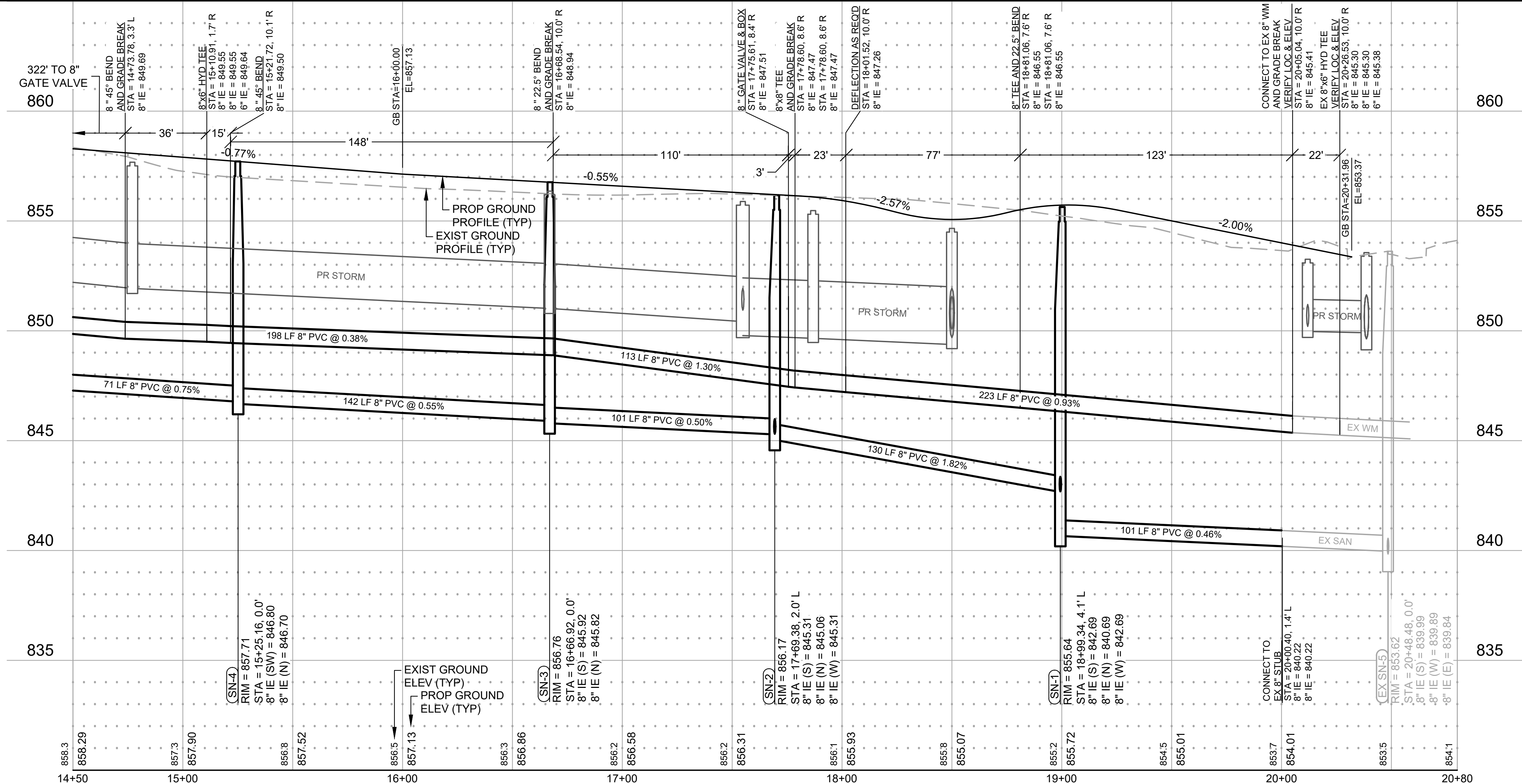


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SANITARY & WATER NOTES

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DATE: 3/7/2023 1:53 PM

SEH Project	170026	Rev.#	1	Revision Issue Description	Date	Rev.#	1	Revision Issue Description	Date
Drawn By	ZJH			REVISED PER MUNICIPAL COMMENTS	03/07/2023				
Designed By	BK								
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Know what's below.  
Call before you dig.

THE OAKS OF JACKSON  
VILLAGE OF JACKSON, WI

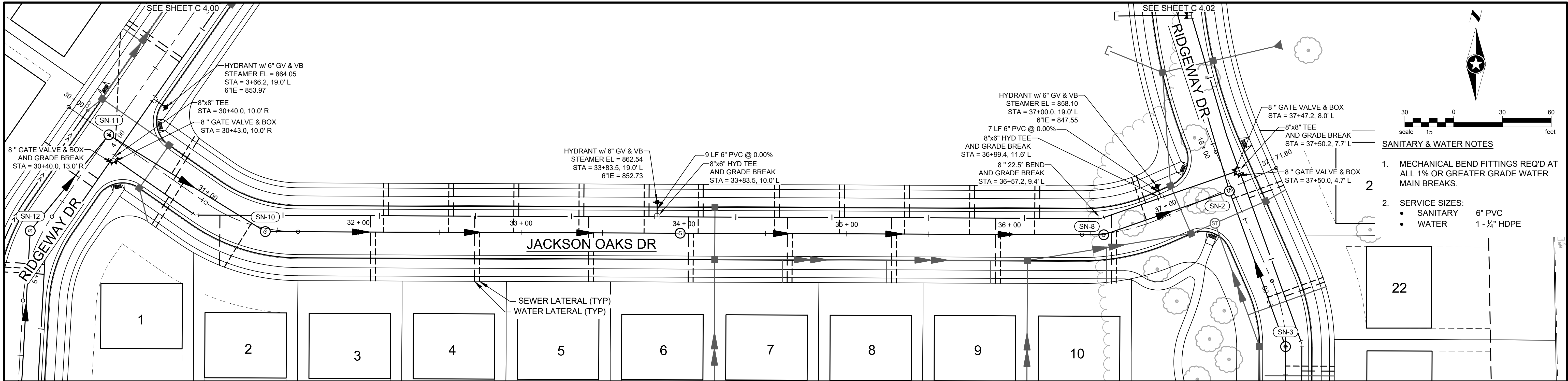
SANITARY SEWER & WATER MAIN  
RIDGWAY DRIVE - STA 15+00 TO 20+80

C 4.02

of 19

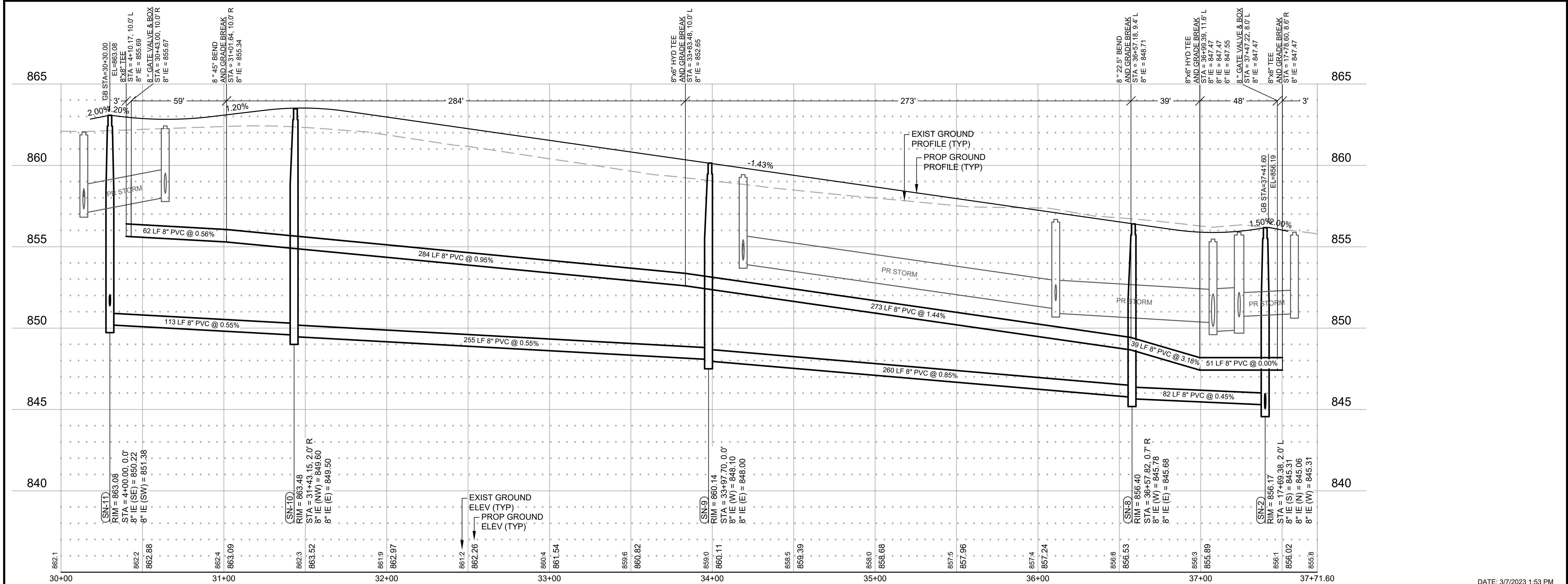


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#### SANITARY & WATER NOTES

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- SERVICE SIZES:
  - SANITARY 6" PVC
  - WATER 1 - 1/4" HDPE





# Memo

**To:** Jen Keller, Village Administrator

**From:** Brian W. Kober, P. E., Director of Public Works/Village Engineer

**Subject:** Bid Results -2023 Utility & Street Improvements Project  
CTH P, Sherman Rd, & Highland Rd

**Date:** March 24, 2023

**CC:** Board of Public Works; Village Board

The 2023 Utility & Street Improvements CTH P, Sherman Rd, & Highland Rd Project unfortunately received one bid for the project. The project was bid with three different projects: CTH P – Sanitary Sewer and Water; Sherman Road - Sanitary Sewer; and Highland Road – Curb and Sidewalk.

The CTH P and Sherman Road Projects came in higher than the engineer's estimate, but the Highland Road Project came in \$15,634.00 lower. The Sherman Road and Highland Road Projects will be special assessed to the benefiting property owners, so rebidding was considered but not recommended with the lower price for Highland Road Project.

After the bid opening, we contacted a contractor that did not bid on the project but took out plans to bid. They stated that they were afraid of the ground water around the creek and did not bid. They stated if directional drilling the water main was as an option, they might have bid on the project. We have reached out to Vinton Construction Company requesting quotes on changing the water main to directional drilling for a possible price difference. The casing method that we prefer for water way crossings is we only need the initial permits from the approving agencies. Any other method, we need approval anytime you work on the pipe.

Recommend approval of the bid from Vinton Construction Company with staff working on negotiating with the Contractor for ways to lower the price associated with CTH P Project.

If you have any questions, please let me know.

Brian W. Kober, P.E.

2023 Utility and Street Improvements (#8413999)  
Owner: Village of Jackson  
Solicitor: Gremmer & Associates  
03/21/2023 02:00 PM CDT

Section Title					Engineer Estimate		Vinton Construction Company		
Line Item	Item Code	Item Description	UofM	Quantity	Unit Price	Extension	Unit Price	Extension	
CTH P						\$1,098,769.00		\$1,839,038.30	\$740,269.30
100	100-01	Removing Asphaltic Surface	SY	1376	\$10.00	\$13,760.00	\$9.50	\$13,072.00	(\$688.00)
101	100-02	Removing Curb & Gutter	LF	62	\$10.00	\$620.00	\$10.00	\$620.00	\$0.00
102	100-05	Base Aggregate Dense 3/4-Inch	TON	375	\$20.00	\$7,500.00	\$36.88	\$13,830.00	\$6,330.00
103	100-06	Base Aggregate Dense 1 1/4-Inch	TON	740	\$20.00	\$14,800.00	\$19.24	\$14,237.60	(\$562.40)
104	100-07	Asphaltic Surface	TON	325	\$200.00	\$65,000.00	\$134.00	\$43,550.00	(\$21,450.00)
105	100-08	Asphaltic Flumes	SY	15	\$100.00	\$1,500.00	\$55.00	\$825.00	(\$675.00)
106	100-09	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	62	\$45.00	\$2,790.00	\$77.00	\$4,774.00	\$1,984.00
107	100-11	Traffic Control	LS	1	\$25,000.00	\$25,000.00	\$8,967.00	\$8,967.00	(\$16,033.00)
108	100-14	Sawing Asphalt & Concrete	LF	2361	\$4.00	\$9,444.00	\$2.50	\$5,902.50	(\$3,541.50)
109	100-15	Salvaged Topsoil, Seed No. 40, Fertilizer Type B & Erosion Mat Urban Class	SY	4150	\$9.00	\$37,350.00	\$7.04	\$29,216.00	(\$8,134.00)
110	100-16	Salvaged Topoil, Seed No. 40, Fertilizer Type B & Mulch	SY	1500	\$7.00	\$10,500.00	\$6.04	\$9,060.00	(\$1,440.00)
111	100-19	Culvert Pipe Checks	EACH	6	\$100.00	\$600.00	\$40.00	\$240.00	(\$360.00)
112	100-20	Temporary Ditch Checks	EACH	18	\$100.00	\$1,800.00	\$27.00	\$486.00	(\$1,314.00)
113	100-21	Inlet Protection Type B	EACH	1	\$100.00	\$100.00	\$70.00	\$70.00	(\$30.00)
114	100-23	Silt Fence	LF	2660	\$3.00	\$7,980.00	\$2.02	\$5,373.20	(\$2,606.80)
115	100-24	Remove & Replace Driveway Culverts	EACH	3	\$1,500.00	\$4,500.00	\$953.00	\$2,859.00	(\$1,641.00)
116	100-26	Remove & Replace Tracking Pad	EACH	1	\$1,500.00	\$1,500.00	\$3,000.00	\$3,000.00	\$1,500.00
117	100-27	Mobilization	EACH	1	\$30,000.00	\$30,000.00	\$240,000.00	\$240,000.00	\$210,000.00
118	300-02	Connect to Existing Sanitary Sewer Main	EACH	1	\$3,000.00	\$3,000.00	\$2,177.00	\$2,177.00	(\$823.00)
119	300-03	Sanitary Manhole 4-FT Diameter With Casting	EACH	5	\$5,000.00	\$25,000.00	\$8,797.00	\$43,985.00	\$18,985.00
120	300-05	Sanitary Sewer PVC SDR-35 6-Inch	LF	312	\$120.00	\$37,440.00	\$219.00	\$68,328.00	\$30,888.00
121	300-06	Sanitary Sewer PVC SDR-35 8-Inch	LF	424	\$130.00	\$55,120.00	\$389.00	\$164,936.00	\$109,816.00
122	300-07	Sanitary Sewer PVC SDR-26 8-Inch	LF	1127	\$140.00	\$157,780.00	\$326.00	\$367,402.00	\$209,622.00
123	400-01	Connect to Existing Water Main Pipe	EACH	2	\$3,000.00	\$6,000.00	\$4,408.00	\$8,816.00	\$2,816.00
124	400-02	Water Main Steel Casing 24-Inch	LF	90	\$650.00	\$58,500.00	\$1,380.00	\$124,200.00	\$65,700.00
125	400-03	Water Main PVC DR-18 6-Inch	LF	77	\$135.00	\$10,395.00	\$102.00	\$7,854.00	(\$2,541.00)
126	400-04	Water Main PVC DR-18 12-Inch	LF	3368	\$130.00	\$437,840.00	\$171.00	\$575,928.00	\$138,088.00
127	400-05	Water Gate Valve 6-Inch	EACH	2	\$2,000.00	\$4,000.00	\$1,929.00	\$3,858.00	(\$142.00)
128	400-06	Water Gate Valve 12-Inch	EACH	8	\$4,500.00	\$36,000.00	\$4,877.00	\$39,016.00	\$3,016.00
129	400-07	Water Tee 12x6-Inch	EACH	2	\$750.00	\$1,500.00	\$866.00	\$1,732.00	\$232.00
130	400-08	Water Tee 12x12-Inch	EACH	1	\$1,000.00	\$1,000.00	\$1,485.00	\$1,485.00	\$485.00
131	400-09	Water 11.25 Deg Bend 12-Inch	EACH	2	\$850.00	\$1,700.00	\$769.00	\$1,538.00	(\$162.00)
132	400-10	Water 22.5 Deg Bend 12-Inch	EACH	1	\$850.00	\$850.00	\$790.00	\$790.00	(\$60.00)
133	400-11	Water 45 Deg Bend 12-Inch	EACH	12	\$850.00	\$10,200.00	\$861.00	\$10,332.00	\$132.00
134	400-12	Water Sleeve 12-Inch	EACH	1	\$850.00	\$850.00	\$762.00	\$762.00	(\$88.00)
135	400-13	Water Plug 12-Inch	EACH	1	\$850.00	\$850.00	\$342.00	\$342.00	(\$508.00)
136	400-14	Water Hydrant	EACH	2	\$5,500.00	\$11,000.00	\$5,895.00	\$11,790.00	\$790.00
137	400-15	Water Manhole 5-FT Diameter with Casting	EACH	1	\$5,000.00	\$5,000.00	\$7,685.00	\$7,685.00	\$2,685.00



Sherman Road						\$113,786.00		\$226,516.10	\$112,730.10
200	100-01	Removing Asphaltic Surface	SY	111	\$10.00	\$1,110.00	\$9.50	\$1,054.50	(\$55.50)
201	100-02	Removing Curb & Gutter	LF	23	\$10.00	\$230.00	\$10.00	\$230.00	\$0.00
202	100-05	Base Aggregate Dense 3/4-Inch	TON	25	\$20.00	\$500.00	\$56.88	\$1,422.00	\$922.00
203	100-06	Base Aggregate Dense 1 1/4-Inch	TON	65	\$20.00	\$1,300.00	\$19.24	\$1,250.60	(\$49.40)
204	100-07	Asphaltic Surface	TON	32	\$200.00	\$6,400.00	\$265.00	\$8,480.00	\$2,080.00
205	100-10	Concrete Curb & Gutter 30-Inch Type D	LF	23	\$45.00	\$1,035.00	\$109.00	\$2,507.00	\$1,472.00
206	100-11	Traffic Control	LS	1	\$15,000.00	\$15,000.00	\$4,155.00	\$4,155.00	(\$10,845.00)
207	100-14	Sawing Asphalt & Concrete	LF	218	\$4.00	\$872.00	\$2.50	\$545.00	(\$327.00)
208	100-17	Topsoil, Seed No. 40, Fertilizer Type B & Erosion Mat Urban Class I Type B	SY	350	\$10.00	\$3,500.00	\$8.50	\$2,975.00	(\$525.00)
209	100-19	Culvert Pipe Checks	EACH	1	\$100.00	\$100.00	\$40.00	\$40.00	(\$60.00)
210	100-20	Temporary Ditch Checks	EACH	3	\$100.00	\$300.00	\$27.00	\$81.00	(\$219.00)
211	100-23	Silt Fence	LF	243	\$3.00	\$729.00	\$3.00	\$729.00	\$0.00
212	100-25	Remove, Salvage & Reinstall Riprap	LS	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$0.00
213	100-27	Mobilization	EACH	1	\$15,000.00	\$15,000.00	\$20,000.00	\$20,000.00	\$5,000.00
214	300-01	Connect to Existing Sanitary Sewer Manhole	EACH	1	\$3,000.00	\$3,000.00	\$2,177.00	\$2,177.00	(\$823.00)
215	300-03	Sanitary Manhole 4-FT Diameter With Casting	EACH	1	\$5,000.00	\$5,000.00	\$9,050.00	\$9,050.00	\$4,050.00
216	300-05	Sanitary Sewer PVC SDR-35 6-Inch	LF	54	\$115.00	\$6,210.00	\$280.00	\$15,120.00	\$8,910.00
217	300-06	Sanitary Sewer PVC SDR-35 8-Inch	LF	400	\$130.00	\$52,000.00	\$388.00	\$155,200.00	\$103,200.00
Highland Road						\$125,986.00		\$110,352.15	(\$15,633.85)
300	100-01	Removing Asphaltic Surface	SY	515	\$10.00	\$5,150.00	\$4.60	\$2,369.00	(\$2,781.00)
301	100-02	Removing Curb & Gutter	LF	42	\$10.00	\$420.00	\$10.00	\$420.00	\$0.00
302	100-03	Removing Concrete Sidewalk & Driveway	SY	65	\$10.00	\$650.00	\$9.00	\$585.00	(\$65.00)
303	100-04	Excavation Common	CY	313	\$40.00	\$12,520.00	\$30.70	\$9,609.10	(\$2,910.90)
304	100-05	Base Aggregate Dense 3/4-Inch	TON	45	\$20.00	\$900.00	\$34.34	\$1,545.30	\$645.30
305	100-06	Base Aggregate Dense 1 1/4-Inch	TON	445	\$20.00	\$8,900.00	\$19.25	\$8,566.25	(\$333.75)
306	100-07	Asphaltic Surface	TON	150	\$200.00	\$30,000.00	\$115.00	\$17,250.00	(\$12,750.00)
307	100-08	Asphaltic Flumes	SY	15	\$100.00	\$1,500.00	\$55.00	\$825.00	(\$675.00)
308	100-10	Concrete Curb & Gutter 30-Inch Type D	LF	453	\$45.00	\$20,385.00	\$30.00	\$13,590.00	(\$6,795.00)
309	100-11	Traffic Control	LS	1	\$5,000.00	\$5,000.00	\$3,268.00	\$3,268.00	(\$1,732.00)
310	100-12	Concrete Sidewalk 4-Inch	SF	1396	\$8.00	\$11,168.00	\$8.75	\$12,215.00	\$1,047.00
311	100-13	Concrete Driveway 6-Inch	SY	115	\$75.00	\$8,625.00	\$89.00	\$10,235.00	\$1,610.00
312	100-14	Sawing Asphalt & Concrete	LF	537	\$4.00	\$2,148.00	\$2.50	\$1,342.50	(\$805.50)
313	100-18	Topsoil, Seed No. 40, Fertilizer Type B & Mulch	SY	665	\$8.00	\$5,320.00	\$8.20	\$5,453.00	\$133.00
314	100-20	Temporary Ditch Checks	EACH	1	\$100.00	\$100.00	\$40.00	\$40.00	(\$60.00)
315	100-22	Inlet Protection Type C	EACH	2	\$100.00	\$200.00	\$70.00	\$140.00	(\$60.00)
316	100-27	Mobilization	EACH	1	\$10,000.00	\$10,000.00	\$20,000.00	\$20,000.00	\$10,000.00
317	300-04	Adjusting Sanitary Sewer Manhole Casting	EACH	1	\$1,000.00	\$1,000.00	\$650.00	\$650.00	(\$350.00)
318	400-16	Adjusting Hydrant	EACH	1	\$1,000.00	\$1,000.00	\$1,425.00	\$1,425.00	\$425.00
319	400-17	Adjusting Water Curb Box	EACH	2	\$500.00	\$1,000.00	\$412.00	\$824.00	(\$176.00)
Base Bid Total:						\$1,338,541.00		\$2,175,906.55	

## Brian Kober

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**From:** Jeff Chvosta <J.Chvosta@gremmerassociates.com>  
**Sent:** Wednesday, March 22, 2023 10:34 AM  
**To:** rraboine@vintoniwis.com  
**Cc:** Brian Kober  
**Subject:** VOJ 23-01; CTH P, Sherman Road & Highland Road; Village of Jackson - Directionally Drilled Water Main  
**Attachments:** VOJ 23-01_Plan_DirectionalDrill_Water.pdf

Ron,

Thanks for discussing the subject project yesterday afternoon after the bid opening. Per our conversation, the Village is considering the option of directionally drilling portions of the water main to be installed in lieu of open trenching or placing within a casing. I have attached plan sheets showing the potential areas of water main that could be directionally drilled with corresponding lengths. At this time, the Village is attempting to obtain a preliminary quote on the potential change in scope. It is understood that additional items/quantities may need adjustment related to connections, appurtenances and restoration. If the project is awarded, a formal contract change order would be executed at that time.

The following is a summary of the water main lengths:

- Directionally drilled water main in lieu of open trench = 2,903-feet
- Directionally drilled water main in lieu of steel casing = 129-feet
- Directionally drilled water main in lieu of open trench CTH P crossing = 97-feet

Please let Brian Kober or myself know if you have any questions. The Board of Public Works will review the bid at the meeting on Tuesday, March 28th and the Village Board on Tuesday, April 11th. Any information that is able to be provided prior to the meetings would be appreciated.

Thanks,  
Jeff

**Jeffrey A. Chvosta, PE**

**Project Engineer**

**E:** [j.chvosta@gremmerassociates.com](mailto:j.chvosta@gremmerassociates.com)

**O:** (920) 924-5720

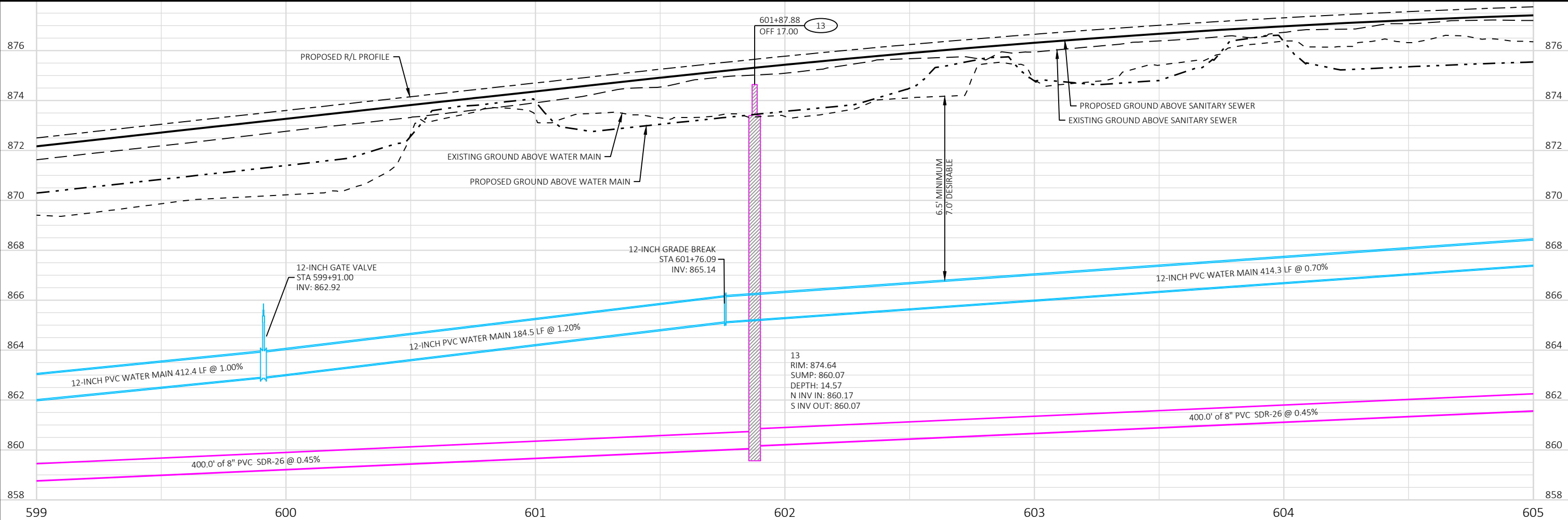
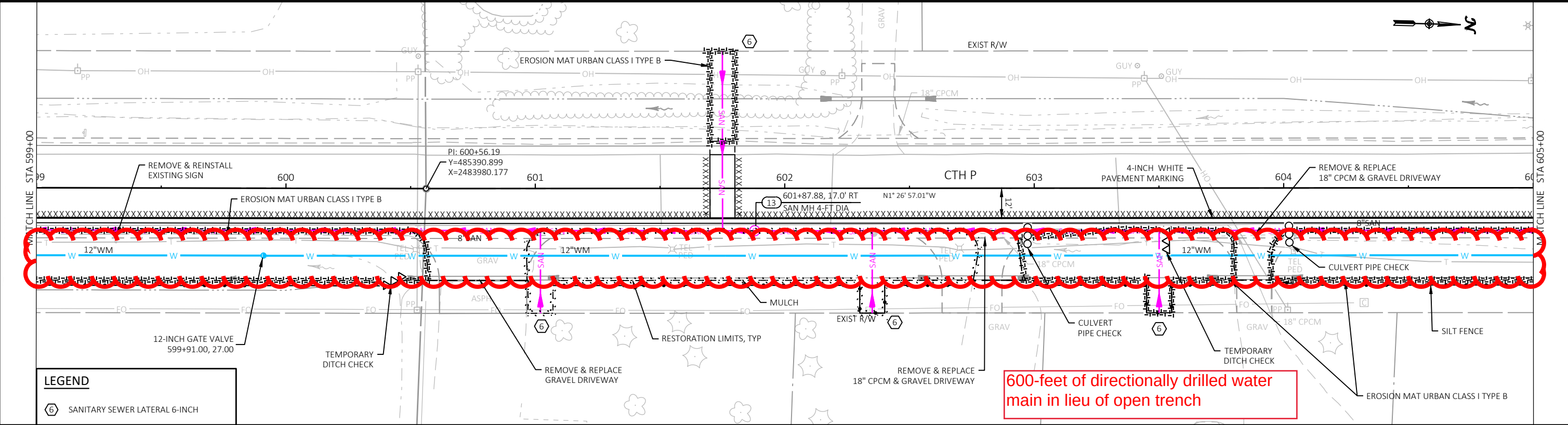
**W:** [www.gremmerassociates.com](http://www.gremmerassociates.com)



93 S. Pioneer Road, Suite 300  
Fond du Lac, WI 54935

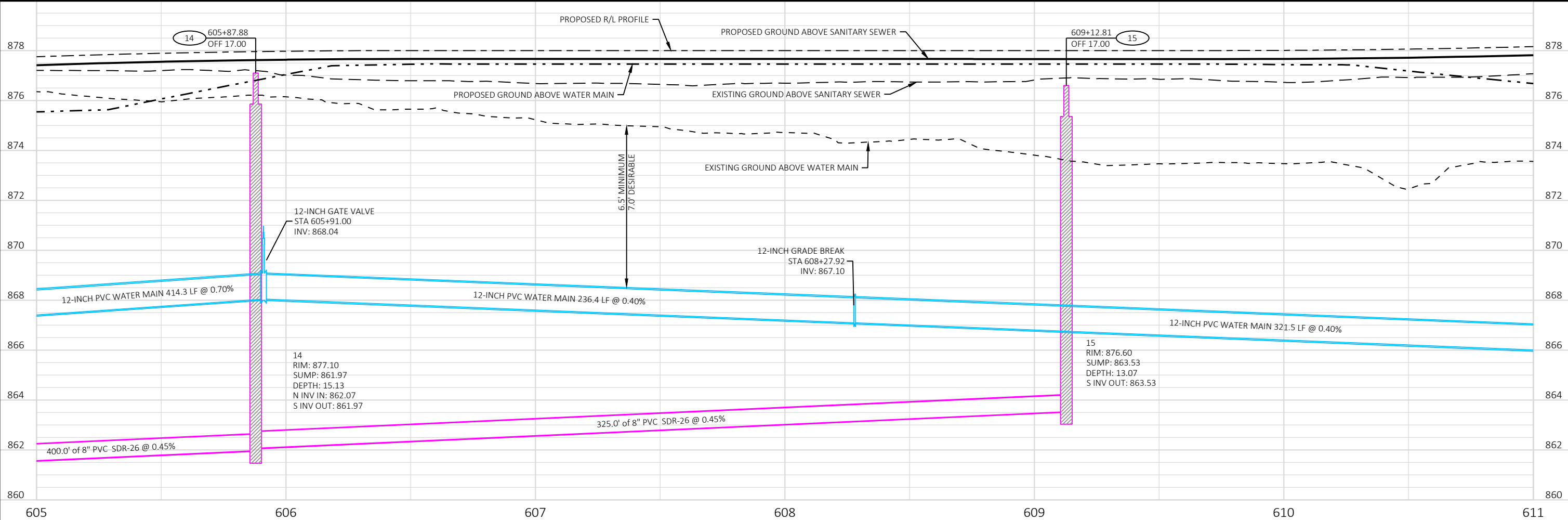
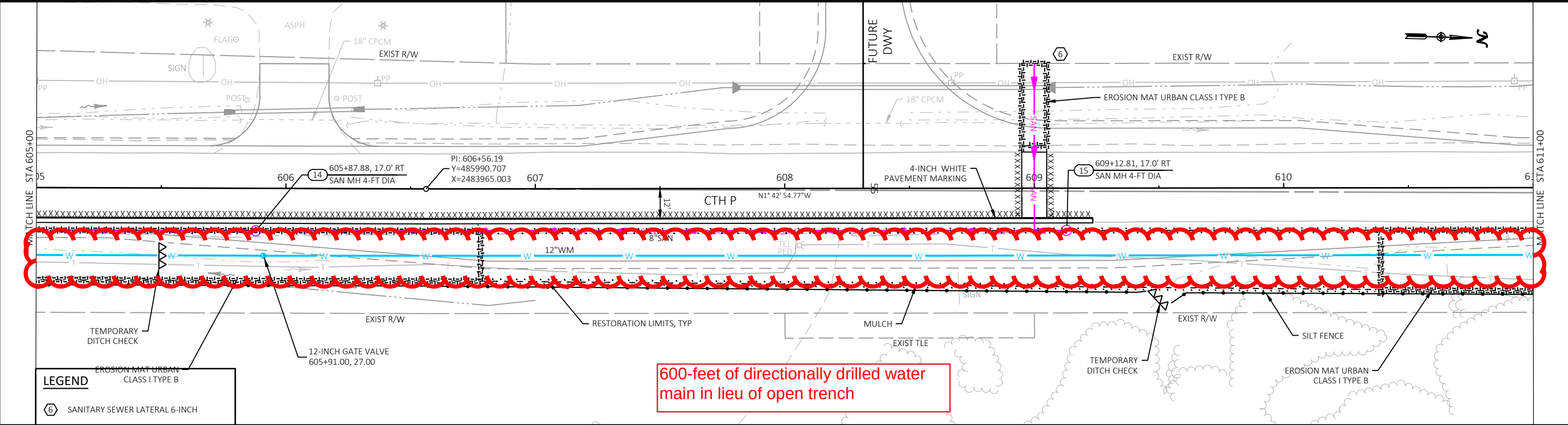






Revisions:	Job No: VOJ 23-01	Designed: KAL		93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	UTILITY PLANS CTH P	SHEET 7 40
	Date: 03/07/2023	Drawn: AJS Checked: JAC					



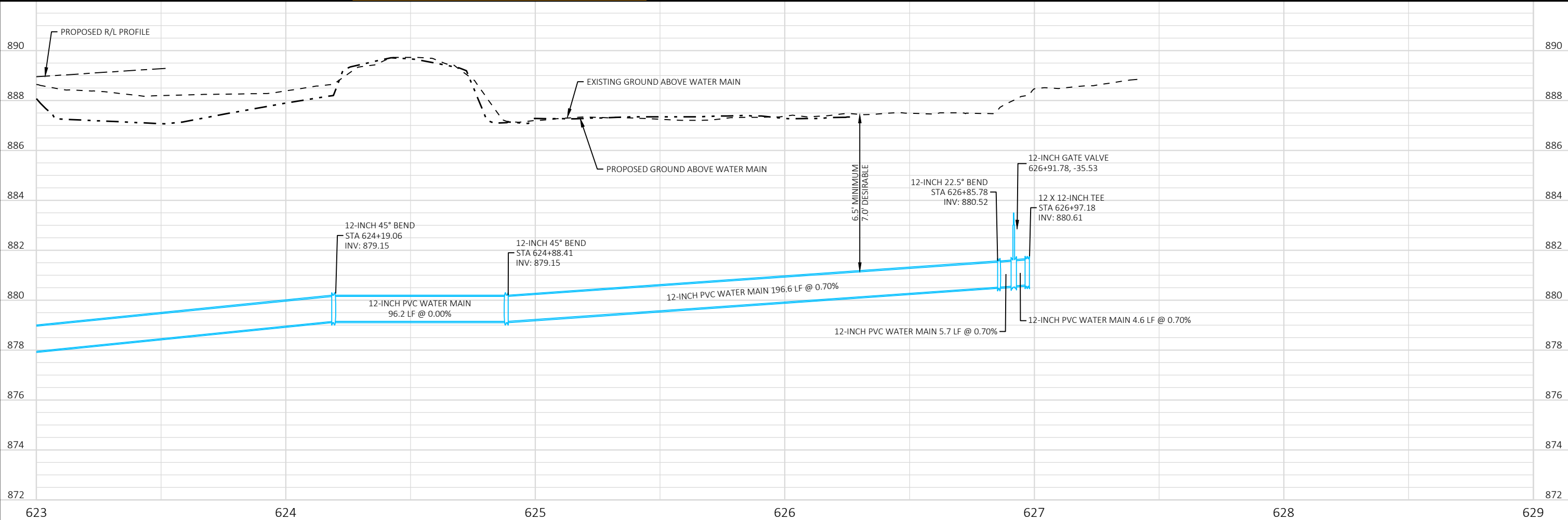
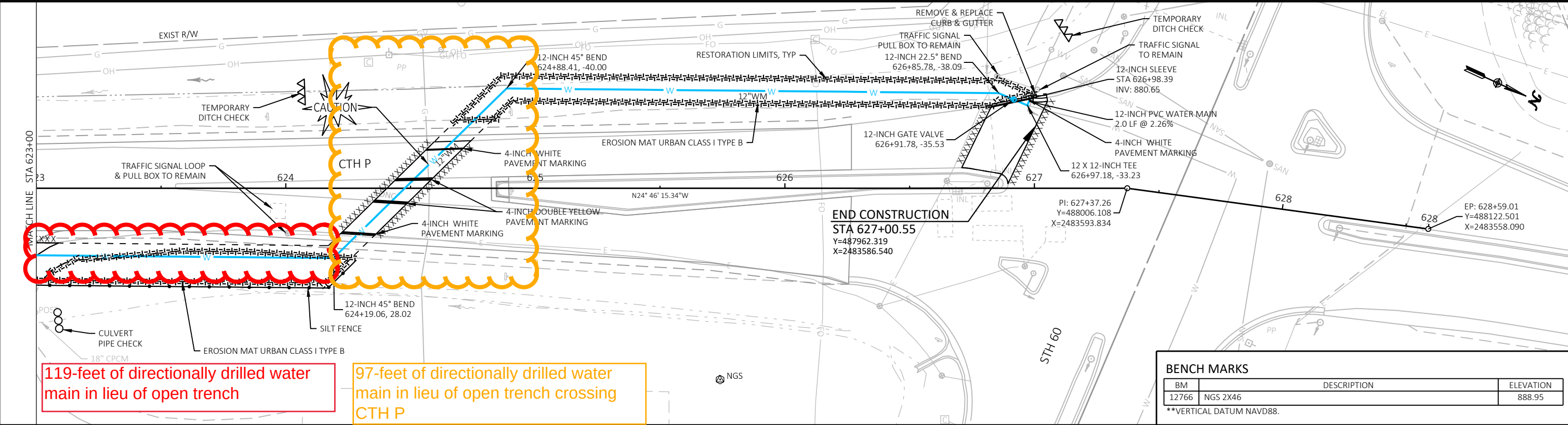


Revisions:	Job No: VOJ 23-01	Designed: KAL		93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	UTILITY PLANS CTH P	SHEET
	Date: 03/07/2023	Drawn: AJS					Checked: JAC









Revisions:	Job No: VOJ 23-01	Designed: KAL		93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	UTILITY PLANS CTH P	SHEET
	Drawn: AIS	Checked: JAC					11
Date: 03/07/2023							40





March 22, 2023

Village of Jackson  
W194 N16660 Eagle Drive  
Jackson, WI 53037

Attention: Brian Kober  
Director of Public Works

Subject: 2023 Utility and Street Improvements  
CTH P, Sherman Road & Highland Road  
Project No. VOJ 23-01  
Bid Review

Dear Mr. Kober:

We have evaluated the bid received on March 21st, 2023 for the 2023 Utility and Street Improvements along CTH P, Sherman Road and Highland Road.

One bid was received and is summarized below:

<u>Vinton Construction Company</u>	<u>Total</u>
CTH P	\$1,839,038.30
Sherman Road	\$226,516.10
<u>Highland Road</u>	<u>\$110,352.15</u>
Bid Total	\$2,175,906.55

Bid items relating to sanitary sewer pipe, water main pipe, casing pipe and mobilization were higher than anticipated along CTH P and Sherman Road. Based on a conversation with Vinton Construction Company after the bid opening, the factors associated with the higher prices were the potential for high ground water, pumping/dewatering, construction under flagging operations, and overall project risk. At the time of this submittal, Gremmer & Associates, Inc. has requested a preliminary quote from Vinton Construction Company to install the water main along CTH P via directionally drilled methods in lieu of open trench and casing pipe installation.

Our evaluation of the submitted prequalification statement, bid form, and bid bond for Vinton Construction Company indicates that they are capable of completing the work required as shown in the contract documents. The Board of Public Works and Village Board will have the final decision related to accepting or rejecting the single bid received by Vinton Construction Company.

Sincerely,



Jeffrey A. Chvosta, P.E.  
Project Engineer  
Gremmer & Associates, Inc.

Enclosures:  
Contractor Bid Forms



DOCUMENT 00300

BID FORM

OWNER: Village of Jackson, Wisconsin

PROJECT: 2023 Utility and Street Improvements

NUMBER: VOJ 23-01

THIS BID IS SUBMITTED TO: Village of Jackson  
Department of Public Works  
W194 N16660 Eagle Drive  
Jackson, Wisconsin 53037

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNERS in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of OWNERS.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged:

Addendum No.

Addendum Date

#1

3/14/2023

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

- D. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.
  - E. Bidder does not consider that any further examinations, investigations, exploration, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
  - F. Bidder is aware of the general nature of work to be performed by OWNERS and others at the Site that relates to the Work as indicated in the Bidding Documents.
  - G. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
  - H. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by ENGINEER is acceptable to Bidder.
  - I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- 4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNERS.
- 5.01 Bidder will complete the Work in accordance with the Contract Documents for the unit prices listed in Document 00310 Schedule of Prices.
- 6.01 Bidder agrees that the Work will be complete as specified in Document 00500, Agreement, Article 4.02, Contract Time, and ready for final payment in accordance with Paragraph 15.06 of the General Conditions and Article 4.02 of the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement.



7.01 The following documents are attached to or submitted via QuestCDN vBid and made a condition of this Bid:

- A. Document 00310, Bid Schedule
- B. Document 00490, Disclosure of Ownership
- C. Required Bid bond in the form of Bid Bond, Certified Check or Bank Cashier's Check.

8.01 The terms used in this Bid, which are defined in the General Conditions of the Construction Contract included as part of the Contract Documents and have the meanings assigned to them in the General Conditions.

SUBMITTED on March 21st, 2023.

If BIDDER is:

An Individual

By: _____ (SEAL)  
(Individual's Name Typed or Printed)

doing business as _____

Business address: _____

Phone No.: _____ Fax No.: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____  
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Business address: _____

Phone No. _____ Fax No. _____

A Corporation

By: Vinton Construction Company  
(Corporation name)

State of Incorporation: Wisconsin

Type (General Business, Professional, Service, Limited Liability:

General Business

By:   
(Signature -- attach evidence of authority to sign)

Name (typed or printed): Michael J. Maples



(Secretary) Richard P. Lamers / Acting Secretary

Business address: 1322 33rd Street (P.O. Box 137)

Phone No.: 920-682-0375 Fax No.: 920-682-2838



A Joint Venture

Joint Venturer Name: _____ (SEAL)

By: _____  
(Signature -- attach evidence of authority to sign)

Title: _____

Business Address _____

_____

Phone No.: _____ Fax No.: _____

Joint Venturer Name: _____ (SEAL)

By: _____  
(Signature -- attach evidence of authority to sign)

Title: _____

Business Address _____

_____

Phone No.: _____ Fax No.: _____

Phone and FAX Number, and Address for receipt of official communications:

_____

_____

(Each joint venturer must sign. The manner of signing for Each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above).

END OF DOCUMENT

**VINTON CONSTRUCTION COMPANY**  
**SHAREHOLDERS AND BOARD OF DIRECTORS**  
**CONSENT RESOLUTION IN LIEU OF SPECIAL MEETING**

**January 1, 2018**

In lieu of a special joint meeting of the Shareholders and Board of Directors of Vinton Construction Company, the undersigned, constituting all of the current Shareholders and all of the current members of the Board of Directors of Vinton Construction Company, hereby approve and adopt the following resolutions, by unanimous consent, enacted in accordance with the provisions of Chapter 180 of the Wisconsin Statutes, as evidenced by their respective signatures, below:

**BE IT HEREBY RESOLVED**, that all appropriate actions, resolutions and motions undertaken and adopted by the Officers, Directors and Shareholders of the Company, to date, are hereby approved, ratified and confirmed as valid acts of the Company; and

**BE IT FURTHER RESOLVED**, that, as of this January 1, 2018, each of the following individuals is hereby appointed by the undersigned Current Shareholders to serve on the Board of Directors of the Corporation, until said individual's successor is duly appointed:

Director and Chairman of the Board:	James J. Maples
Director:	Michael J. Maples
Director:	Richard P. Lamers
Director:	Jeffrey M. Maples

**BE IT ALSO RESOLVED**, that, as of this January 1, 2018, the undersigned Current Directors of the Company hereby appoint each of the following individuals to serve in his or her specified position, as an Officer of the Company, until his or her successor is duly elected:

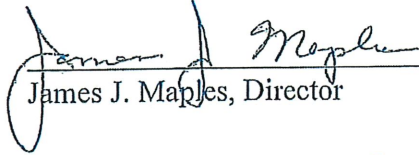
President:	Michael J. Maples
Vice President:	Richard P. Lamers
Vice President:	Jeffrey M. Maples
Assistant Vice President:	Kristin Maples-Lamers
Secretary:	Mary G. Maples
Treasurer:	Michael J. Maples

**BE IT RESOLVED, ALSO**, that each of the afore-referenced Company Officers is hereby authorized and empowered to sign any instrument or document on behalf of the Company, and any third party who or which has not otherwise been informed or otherwise become aware may accept and rely upon any such Officer's signature as having been duly authorized, and as being binding upon the Company. By way of specific example (but without, in any way, intending to be all inclusive), such power and authority to sign on behalf of (and thereby bind) the Company shall extend to any instrument or document required by any state, county or municipality; any current or prospective customer or client of the Company; any contractor for which the Company is acting as a subcontractor; any financial institution; any bonding company; any insurance company; any union; any Company employee; or any vendor with whom or which the Company is working, negotiating, or otherwise doing business.



THE PRECEDING RESOLUTIONS are hereby enacted by the unanimous consent of the undersigned parties, as of the day and year first above written, as evidenced by their respective signatures, below.

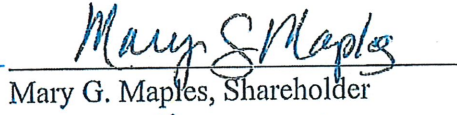
**CURRENT DIRECTORS:**

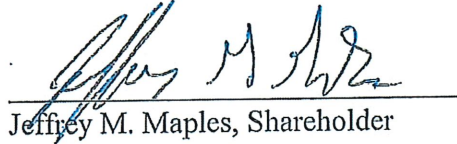
  
James J. Maples, Director

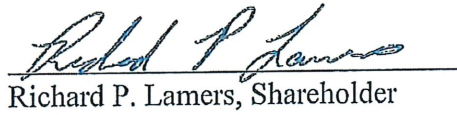
  
Michael J. Maples, Director

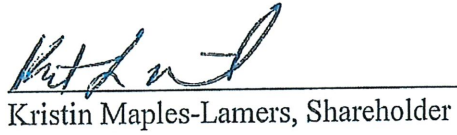
**CURRENT SHAREHOLDERS:**

  
Michael J. Maples, Shareholder

  
Mary G. Maples, Shareholder

  
Jeffrey M. Maples, Shareholder

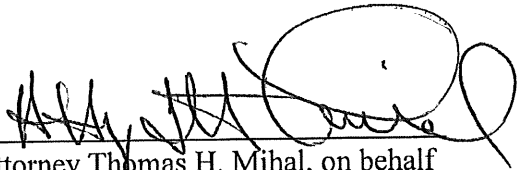
  
Richard P. Lamers, Shareholder

  
Kristin Maples-Lamers, Shareholder

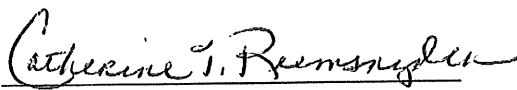
**Certification of Authority**

I, Thomas H. Mihal, the undersigned Corporate Attorney on behalf of Vinton Construction Company (the "Company") hereby certify that the attached copy of the Vinton Construction Company Shareholders and Board of Directors Consent Resolution, dated January 1, 2018, accurately reflects the list of those individuals who, by proper action of the Company's Board of Directors on that date, were duly appointed to serve as the current Officers of the Company; and that, as is also reflected on said Consent Resolution, each of said Officers was therein duly authorized to sign any instrument or document on behalf of the Company, and any third party who has not otherwise been informed may accept and rely upon any given Officer's signature on any such instrument or document as evidence reflecting the Company's binding agreement to the terms and conditions thereof.

This Certification of Authority is hereby made by the Corporate Attorney for and on behalf of Vinton Construction Company, on this 8th day of June, 2018, as evidenced by his notarized signature, below.

  
Attorney Thomas H. Mihal, on behalf  
of Vinton Construction Company

Subscribed and sworn to before me  
this 8th day of June, 2018.



Catherine T. Reemsnyder  
Notary Public, State of Wisconsin  
My Commission expires 08/14/2020.





United States of America

State of Wisconsin

DEPARTMENT OF FINANCIAL INSTITUTIONS

Division of Corporate & Consumer Services



To All to Whom These Presents Shall Come, Greeting:

I, Jennifer Dohm, Deputy Administrator of the Division of Corporate and Consumer Services, Department of Financial Institutions, do hereby certify that

**VINTON CONSTRUCTION COMPANY**

is a domestic corporation or a domestic limited liability company organized under the laws of this state and that its date of incorporation or organization is May 16, 1931.

I further certify that said corporation or limited liability company has, within its most recently completed report year, filed an annual report required under ss. 180.1622, 180.1921, 181.0214 or 183.0120 Wis. Stats., and that it has not filed articles of dissolution.



IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the Department on November 16, 2022.

A handwritten signature in black ink that reads 'Jennifer Dohm'.

JENNIFER DOHM, Deputy Administrator  
Division of Corporate and Consumer Services  
Department of Financial Institutions

---

DFI/Corp/33

**To validate the authenticity of this certificate**

Visit this web address: <http://www.wdfi.org/apps/ccs/verify/>

Enter this code: **347949-A8B642FC**

## BID SCHEDULE

Item No	Item Description	Units	Quantity	Unit Price	Bid Amount
CTH P					
100-01	Removing Asphaltic Surface	SY	1,376	\$ 9.50	\$ 13,072.00
100-02	Removing Curb & Gutter	LF	62	\$ 10.00	\$ 620.00
100-05	Base Aggregate Dense 3/4-Inch	TON	375	\$ 36.88	\$ 13,830.00
100-06	Base Aggregate Dense 1 1/4-Inch	TON	740	\$ 19.24	\$ 14,237.60
100-07	Asphaltic Surface	TON	325	\$ 134.00	\$ 43,550.00
100-08	Asphaltic Flumes	SY	15	\$ 55.00	\$ 825.00
100-09	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	62	\$ 77.00	\$ 4,774.00
100-11	Traffic Control	LS	1	\$ 8,967.00	\$ 8,967.00
100-14	Sawing Asphalt & Concrete	LF	2,361	\$ 2.50	\$ 5,902.50
100-15	Salvaged Topsoil, Seed No. 40, Fertilizer Type B & Erosion Mat Urban Class I Type B	SY	4,150	\$ 7.04	\$ 29,216.00
100-16	Salvaged Topoil, Seed No. 40, Fertilizer Type B & Mulch	SY	1,500	\$ 6.04	\$ 9,060.00
100-19	Culvert Pipe Checks	EACH	6	\$ 40.00	\$ 240.00
100-20	Temporary Ditch Checks	EACH	18	\$ 27.00	\$ 486.00
100-21	Inlet Protection Type B	EACH	1	\$ 70.00	\$ 70.00
100-23	Silt Fence	LF	2,660	\$ 2.02	\$ 5,373.20
100-24	Remove & Replace Driveway Culverts	EACH	3	\$ 953.00	\$ 2,859.00
100-26	Remove & Replace Tracking Pad	EACH	1	\$ 3,000.00	\$ 3,000.00
100-27	Mobilization	EACH	1	\$ 240,000.00	\$ 240,000.00
300-02	Connect to Existing Sanitary Sewer Main	EACH	1	\$ 2,177.00	\$ 2,177.00
300-03	Sanitary Manhole 4-FT Diameter With Casting	EACH	5	\$ 8,797.00	\$ 43,985.00
300-05	Sanitary Sewer PVC SDR-35 6-Inch	LF	312	\$ 219.00	\$ 68,328.00
300-06	Sanitary Sewer PVC SDR-35 8-Inch	LF	424	\$ 389.00	\$ 164,936.00
300-07	Sanitary Sewer PVC SDR-26 8-Inch	LF	1,127	\$ 326.00	\$ 367,402.00
400-01	Connect to Existing Water Main Pipe	EACH	2	\$ 4,408.00	\$ 8,816.00
400-02	Water Main Steel Casing 24-Inch	LF	90	\$ 1,380.00	\$ 124,200.00
400-03	Water Main PVC DR-18 6-Inch	LF	77	\$ 102.00	\$ 7,854.00
400-04	Water Main PVC DR-18 12-Inch	LF	3,368	\$ 171.00	\$ 575,928.00
400-05	Water Gate Valve 6-Inch	EACH	2	\$ 1,929.00	\$ 3,858.00
400-06	Water Gate Valve 12-Inch	EACH	8	\$ 4,877.00	\$ 39,016.00
400-07	Water Tee 12x6-Inch	EACH	2	\$ 866.00	\$ 1,732.00
400-08	Water Tee 12x12-Inch	EACH	1	\$ 1,485.00	\$ 1,485.00
400-09	Water 11.25 Deg Bend 12-Inch	EACH	2	\$ 769.00	\$ 1,538.00
400-10	Water 22.5 Deg Bend 12-Inch	EACH	1	\$ 790.00	\$ 790.00
400-11	Water 45 Deg Bend 12-Inch	EACH	12	\$ 861.00	\$ 10,332.00
400-12	Water Sleeve 12-Inch	EACH	1	\$ 762.00	\$ 762.00
400-13	Water Plug 12-Inch	EACH	1	\$ 342.00	\$ 342.00
400-14	Water Hydrant	EACH	2	\$ 5,895.00	\$ 11,790.00
400-15	Water Manhole 5-FT Diameter with Casting	EACH	1	\$ 7,685.00	\$ 7,685.00
CTH P TOTAL					\$ 1,839,038.30



## BID SCHEDULE

Item No	Item Description	Units	Quantity	Unit Price	Bid Amount
<b>SHERMAN ROAD</b>					
100-01	Removing Asphaltic Surface	SY	111	\$ 9.50	\$ 1,054.50
100-02	Removing Curb & Gutter	LF	23	\$ 10.00	\$ 230.00
100-05	Base Aggregate Dense 3/4-Inch	TON	25	\$ 56.88	\$ 1,422.00
100-06	Base Aggregate Dense 1 1/4-Inch	TON	65	\$ 19.24	\$ 1,250.60
100-07	Asphaltic Surface	TON	32	\$ 265.00	\$ 8,480.00
100-10	Concrete Curb & Gutter 30-Inch Type D	LF	23	\$ 109.00	\$ 2,507.00
100-11	Traffic Control	LS	1	\$ 4,155.00	\$ 4,155.00
100-14	Sawing Asphalt & Concrete	LF	218	\$ 2.50	\$ 545.00
100-17	Topsoil, Seed No. 40, Fertilizer Type B & Erosion Mat Urban Class I Type B	SY	350	\$ 8.50	\$ 2,975.00
100-19	Culvert Pipe Checks	EACH	1	\$ 40.00	\$ 40.00
100-20	Temporary Ditch Checks	EACH	3	\$ 27.00	\$ 81.00
100-23	Silt Fence	LF	243	\$ 3.00	\$ 729.00
100-25	Remove, Salvage & Reinstall Riprap	LS	1	\$ 1,500.00	\$ 1,500.00
100-27	Mobilization	EACH	1	\$ 20,000.00	\$ 20,000.00
300-01	Connect to Existing Sanitary Sewer Manhole	EACH	1	\$ 2,177.00	\$ 2,177.00
300-03	Sanitary Manhole 4-FT Diameter With Casting	EACH	1	\$ 9,050.00	\$ 9,050.00
300-05	Sanitary Sewer PVC SDR-35 6-Inch	LF	54	\$ 280.00	\$ 15,120.00
300-06	Sanitary Sewer PVC SDR-35 8-Inch	LF	400	\$ 388.00	\$ 155,200.00
<b>SHERMAN ROAD TOTAL</b>					\$ 226,516.10
<b>HIGHLAND ROAD</b>					
100-01	Removing Asphaltic Surface	SY	515	\$ 4.60	\$ 2,369.00
100-02	Removing Curb & Gutter	LF	42	\$ 10.00	\$ 420.00
100-03	Removing Concrete Sidewalk & Driveway	SY	65	\$ 9.00	\$ 585.00
100-04	Excavation Common	CY	313	\$ 30.70	\$ 9,609.10
100-05	Base Aggregate Dense 3/4-Inch	TON	45	\$ 34.34	\$ 1,545.30
100-06	Base Aggregate Dense 1 1/4-Inch	TON	445	\$ 19.25	\$ 8,566.25
100-07	Asphaltic Surface	TON	150	\$ 115.00	\$ 17,250.00
100-08	Asphaltic Flumes	SY	15	\$ 55.00	\$ 825.00
100-10	Concrete Curb & Gutter 30-Inch Type D	LF	453	\$ 30.00	\$ 13,590.00
100-11	Traffic Control	LS	1	\$ 3,268.00	\$ 3,268.00
100-12	Concrete Sidewalk 4-Inch	SF	1,396	\$ 8.75	\$ 12,215.00
100-13	Concrete Driveway 6-Inch	SY	115	\$ 89.00	\$ 10,235.00
100-14	Sawing Asphalt & Concrete	LF	537	\$ 2.50	\$ 1,342.50
100-18	Topsoil, Seed No. 40, Fertilizer Type B & Mulch	SY	665	\$ 8.20	\$ 5,453.00
100-20	Temporary Ditch Checks	EACH	1	\$ 40.00	\$ 40.00
100-22	Inlet Protection Type C	EACH	2	\$ 70.00	\$ 140.00
100-27	Mobilization	LS	1	\$ 20,000.00	\$ 20,000.00
300-04	Adjusting Sanitary Sewer Manhole Casting	EACH	1	\$ 650.00	\$ 650.00
400-16	Adjusting Hydrant	EACH	1	\$ 1,425.00	\$ 1,425.00
400-17	Adjusting Water Curb Box	EACH	2	\$ 412.00	\$ 824.00
<b>HIGHLAND ROAD TOTAL</b>					\$ 110,352.15
<b>BID TOTAL</b>					\$ 2,175,906.55

## Disclosure of Ownership

The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d), 66.0904(10)(d) and 103.49(7)(d), Wisconsin Statutes.

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

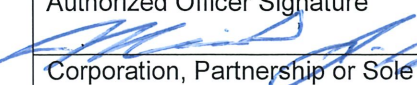
Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1) (m), Wisconsin Statutes].

- (1) On the date a contractor submits a bid to or completes negotiations with a state agency, local governmental unit, or developer, investor or owner on a project subject to Section 66.0903, 66.0904 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency, local governmental unit, or developer, investor or owner, the name of any "other construction business," which the contractor, or a shareholder, officer or partner of the contractor, owns or has owned within the preceding three (3) years.
- (2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 66.0904(2), 103.49(2) and 103.50(2), Wisconsin Statutes.
- (3) This form must ONLY be filed, with the state agency project owner, local governmental unit project owner, or developer, investor or owner of a publicly funded private construction project that will be awarding the contract, if **both (A) and (B) are met.**
  - (A) The contractor, or a shareholder, officer or partner of the contractor:
    - (1) Owns at least a 25% interest in the "other construction business," indicated below, on the date the contractor submits a bid or completes negotiations; or
    - (2) Has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.
  - (B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for hours worked in excess of the prevailing hours of labor, to any employee at any time within the preceding three (3) years.

### Other Construction Business

Business Name			
N/A			
Street Address or P O Box	City	State	Zip Code
Business Name			
Street Address or P O Box	City	State	Zip Code
Business Name			
Street Address or P O Box	City	State	Zip Code
Business Name			
Street Address or P O Box	City	State	Zip Code

**I hereby state under penalty of perjury that the information, contained in this document, is true and accurate according to my knowledge and belief.**

Print the Name of Authorized Officer			
Michael J. Maples			
Authorized Officer Signature		Date Signed	
		March 21st, 2023	
Corporation, Partnership or Sole Proprietorship Name			
Vinton Construction Company			
Street Address or P O Box	City	State	Zip Code
1322 33rd Street (P.O. Box 137)	Two Rivers	WI	54241

**If you have any questions call (608) 266-6861**





# AIA Document A310™ - 2010

## Bid Bond

### CONTRACTOR:

(Name, legal status and address)

Vinton Construction Company

2705 N. Rapids Road

Manitowoc, WI 54221

### OWNER:

(Name, legal status and address)

VILLAGE OF JACKSON

W194 N16660 EAGLE DRIVE

JACKSON, WI 53037

### BOND AMOUNT:

FIVE PERCENT OF AMOUNT BID (5% OF BID)

### PROJECT:

(Name, location or address, and Project number, if any)

2023 UTILITY AND STREET IMPROVEMENTS

VOJ 23-01

VILLAGE OF JACKSON, WASHINGTON COUNTY, WISCONSIN

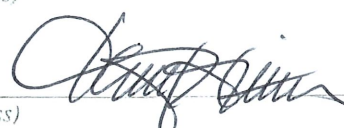
The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 21ST day of MARCH, 2023

  
(Witness)

  
(Witness)

Vinton Construction Company

(Contractor as Principal)

(Title) MICHAEL J. MAPLES / PRESIDENT

Travelers Casualty and Surety Company of America

(Surety)

(Title) Kathryn A. Weidner, Attorney-in-Fact



**CAUTION:** You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

Init.

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ACD43070810





**Travelers Casualty and Surety Company of America  
Travelers Casualty and Surety Company  
St. Paul Fire and Marine Insurance Company**

**POWER OF ATTORNEY**

**KNOW ALL MEN BY THESE PRESENTS:** That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **JENNY L HIRTH** of **MADISON**, **Wisconsin**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

**IN WITNESS WHEREOF**, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April**, **2021**.



State of Connecticut

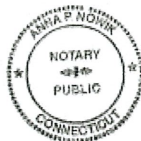
City of Hartford ss.

By:   
Robert L. Raney, Senior Vice President

On this the **21st** day of **April**, **2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

**IN WITNESS WHEREOF**, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2026**



  
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

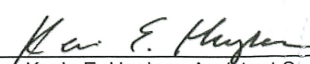
**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

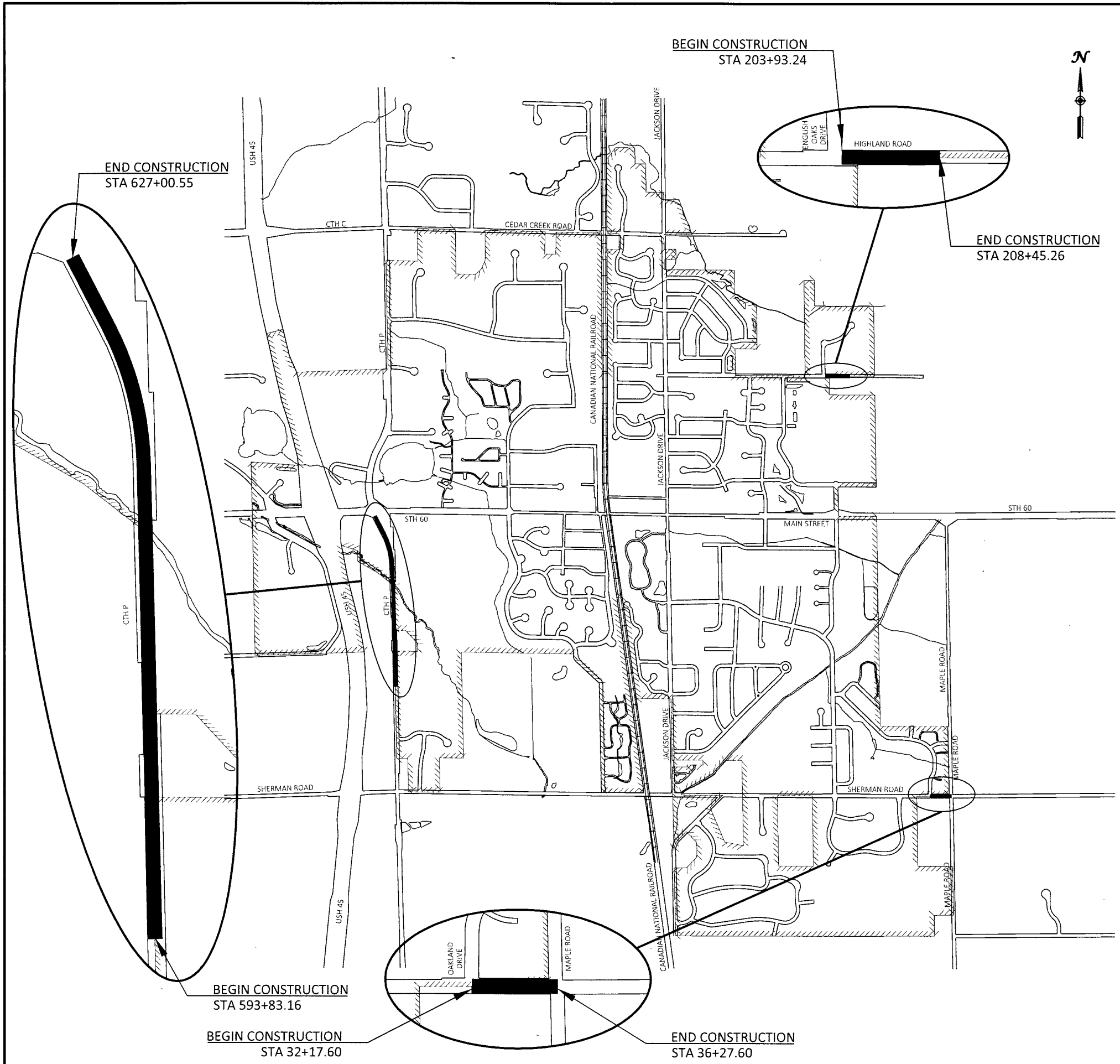
Dated this **21ST** day of **MARCH**, **2023**



  
Kevin E. Hughes, Assistant Secretary

**To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.**

**Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.**



Village of Jackson  
2023 Utility and Street Improvements  
CTH P, Sherman Road & Highland Road  
Project: VOJ 23-01

INDEX OF SHEETS

1	TITLE SHEET
2	GENERAL NOTES
3-5	TYPICAL SECTIONS & CONSTRUCTION DETAILS
6 - 14	UTILITY PLANS
15	PLAN & PROFILE
16 - 32	STANDARD DETAIL DRAWINGS
33 - 40	CROSS SECTIONS

ORIGINAL PLANS PREPARED BY

**GREMMER & ASSOCIATES, INC.**  
CONSULTING ENGINEERS  
Stevens Point • Fond du Lac  
93 South Pioneer Road, Suite 300  
Fond du Lac, WI 54935  
(920) 924-5720



(Date) JEFFREY A. CHVOSTA, PE

ACCEPTED FOR



Village of Jackson  
W194 N16660 Eagle Drive  
Jackson, WI 53037  
(262) 677-0707  
e-mail: brian.kober@villageofjacksonwi.gov  
Director of Public Works  
Brian Kober, P.E.

DATE: 03/07/2023



GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

A VERTICAL SAW CUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS, SIDEWALKS AND PAVEMENTS AT THE REMOVAL LIMITS.

SAWCUT LOCATIONS SHOWN ON THE PLANS ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD.

THE EXACT LOCATION AND LAYOUT OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

TOPSOIL, FERTILIZER, SEED, AND MULCH OR EROSION MAT AS SHOWN IN PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE PLACED ON ALL DISTURBED AREAS, EXCLUSIVE OF THE AREA OCCUPIED BY THE NEW PAVEMENTS, SIDEWALKS, ENTRANCES, AND RELATED STRUCTURES.

EROSION CONTROL NOTES

EROSION CONTROL MEASURE SHALL BE IN ACCORDANCE WITH LOCAL ORDINANCES AND THE WDNR CONSERVATION PRACTICE TECHNICAL STANDARDS.

EROSION CONTROL ITEMS SHALL BE FIELD LOCATED AS NEEDED.

SILT FENCE SHALL BE INSTALLED IN AREAS WHERE ON-SITE SOILS AND STORMWATER MAY EXIT THE CONSTRUCTION SITE.

ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. FLUSHING SHALL NOT BE ALLOWED.

FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR MORE THAN 7 WORKING DAYS, OR WHERE GRADING EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING, AND/OR MULCHING.

ALL DISTURBED AREAS SHALL BE TREATED WITH STABILIZATION MEASURES AS SPECIFIED WITHIN 3 WORKING DAYS OF FINAL GRADING.

ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR THE APPLICATION OF STABILIZATION MEASURES MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.

ALL EXISTING AND PROPOSED INLETS WITHIN THE PROJECT LIMITS SHALL RECEIVE INLET PROTECTION TYPE C. THE FIRST SET OF EXISTING INLETS DOWNSTREAM OF THE PROJECT LIMITS SHALL RECEIVE INLET PROTECTION TYPE C,

ABBREVIATIONS

ADJ	ADJUST
CB	CATCH BASIN
CBX	CONTROL BOX
COR	CORNER
D.I.	DUCTILE IRON
F/C	FACE OF CURB
G	GAS
GL	GAS LATERAL
GV	GAS VALVE
GP	GUY POLE
GUY	GUY WIRE ANCHOR
HYD	HYDRANT
MH	MANHOLE
MAX.	MAXIMUM
MIN.	MINIMUM
NOR.	NORMAL
LP	LIGHT POLE
PED	PEDESTAL
PVI	POINT OF VERTICAL INTERSECTION
PP	POWER POLE
PBX	PULL BOX
RCP	REINFORCED CONCRETE PIPE
RWALL	RETAINING WALL
SS OR ST	STORM SEWER
SA	SANITARY SEWER LATERAL
SP	SPECIAL
TEL	TELEPHONE
TOC	TOP OF CURB
TFS	TRAFFIC SIGNAL
WL	WATER LATERAL
W	WATER MAIN
WSO	WATER SHUT OFF
WV	WATER VALVE

CONVENTIONAL SYMBOLS

PLAN

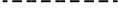
CORPORATE LIMITS



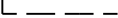
PROPERTY LINE



LOT LINE



LIMITED HIGHWAY EASEMENT



EXISTING RIGHT OF WAY



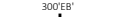
PROPOSED OR NEW R/W LINE



SLOPE INTERCEPT



REFERENCE LINE



EXISTING CULVERT



PROPOSED CULVERT  
(Box or Pipe)



COMBUSTIBLE FLUIDS



WOODED OR SHRUB AREA

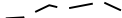


PROFILE

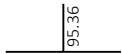
GRADE LINE



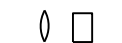
ORIGINAL GROUND



GRADE ELEVATION



CULVERT (Profile View)



UTILITIES

ELECTRIC (UNDERGROUND)



FIBER OPTIC (UNDERGROUND)



GAS (UNDERGROUND)



OVERHEAD UTILITY



SANITARY SEWER (UNDERGROUND)



STORM SEWER (UNDERGROUND)



TELEPHONE (UNDERGROUND)



WATER (UNDERGROUND)



UTILITY PEDESTAL



POWER POLE



TELEPHONE POLE



UTILITIES

SANITARY SEWER & WATER MAIN

VILLAGE OF JACKSON  
W194 N16660 EAGLE DRIVE  
JACKSON, WI 53037  
ATTN: BRIAN KOBER  
PHONE: (262) 677-0707  
EMAIL: brian.kober@villageofjackson.com

COMMUNICATIONS

AT&T - WISCONSIN  
435 SOUTH 95TH STREET  
MILWAUKEE, WI 53214-226  
ATTN: DEAN HERRO  
PHONE: (262) 226-9639  
EMAIL: dh2572@att.com

TRAFFIC SIGNALS

WISCONSIN DEPARTMENT OF TRANSPORTATION  
141 NW BARSTOW STREET  
WAUKESHA, WI 53188  
ATTN: JARRETT GATES  
PHONE: (262) 548-5894  
EMAIL: jarrett.gates@dot.wi.gov

ELECTRIC & GAS

WE ENERGIES  
500 SOUTH 116TH STREET  
WEST ALLIS WI 53214  
ATTN: WE ENERGIES UTILITY COORDINATOR  
PHONE:  
EMAIL: We-Utility-relocations@we-energies.com

COMMUNICATIONS

SPECTRUM  
1515 WEST WASHINGTON STREET  
WEST BEND, WI 53095  
ATTN: NICK FRASE  
MOBILE: (920) 304-6797  
EMAIL: nick.frase@charter.com

COMMUNICATIONS

MIDWEST FIBER NETWORKS  
6070 NORTH FLINT ROAD  
GLENDALE, WI 53209  
ATTN: RICHARD TRGOVEC  
PHONE: (414) 459-3554  
MOBILE: (414) 349-2979  
EMAIL: relocationrequests@midwestfibernetworks.com

DNR AREA LIAISON

WISCONSIN DEPT. OF NATURAL RESOURCES  
141 NW BARSTOW STREET #180  
WAUKESHA, WI 53188  
ATTN: BENTON STELZEL  
PHONE: (262) 623-0194  
EMAIL: benton.stelzel@wisconsin.gov

WASHINGTON COUNTY CONTACT

900 LANG STREET  
WEST BEND, WI 53090  
ATTN: SCOTT SCHMIDT, CHIEF PUBLIC WORKS OFFICER  
PHONE: (262) 335-4435  
EMAIL: scott.schmidt@washcowisco.gov

VILLAGE OF JACKSON CONTACT

W194 N16660 EAGLE DRIVE  
JACKSON, WI 53037  
ATTN: BRIAN KOBER  
PHONE: (262) 677-0707  
EMAIL: brian.kober@villageofjacksonwi.gov

DESIGN CONTACT

GREMMER & ASSOCIATES, INC.  
93 SOUTH PIONEER ROAD, SUITE 300  
FOND DU LAC, WI 54935  
ATTN: JEFFREY A. CHVOSTA, PE  
PHONE: (920) 924-5720  
EMAIL: j.chvosta@gremmerassociates.com



Dial 811 or (800)242-8511

www.DiggersHotline.com



93 South Pioneer Road, Suite 300  
Fond du Lac, WI 54935  
(920) 924-5720

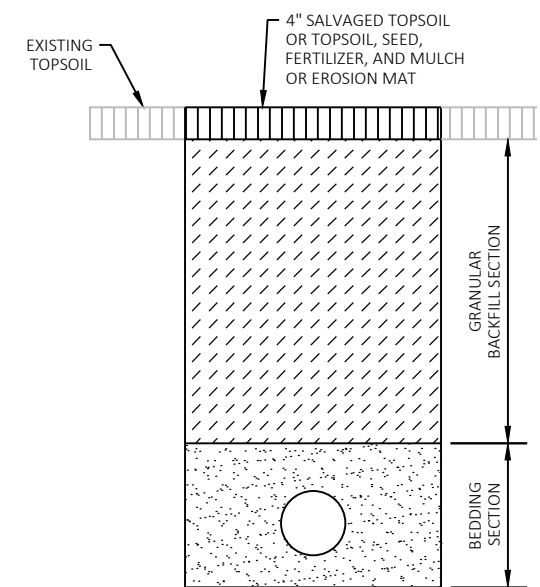
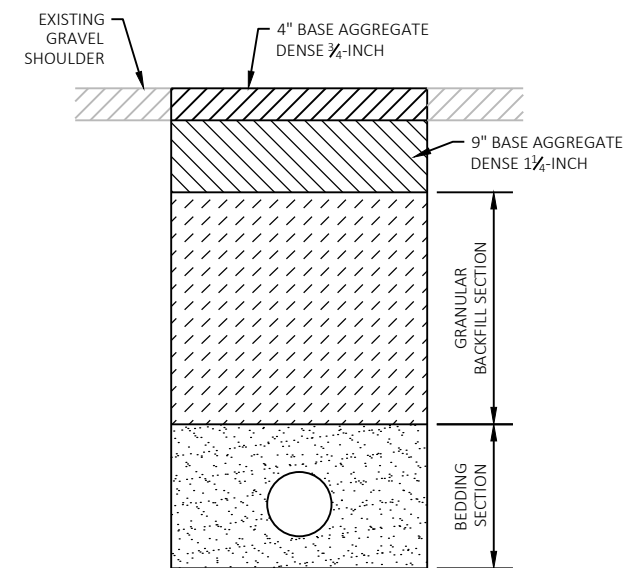
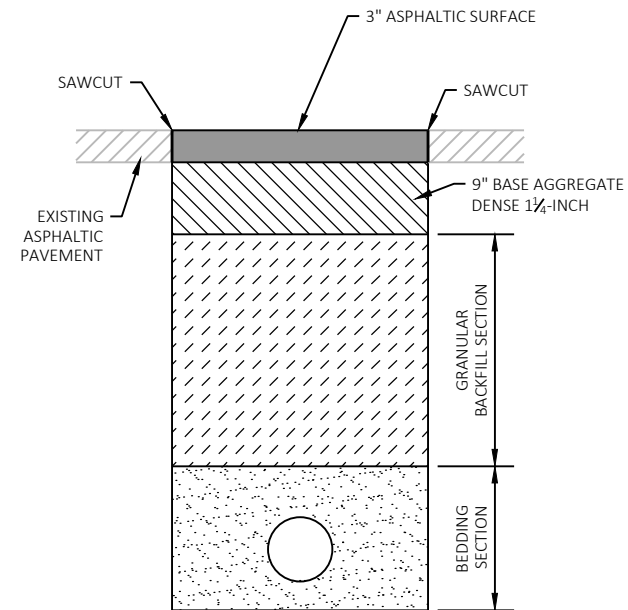
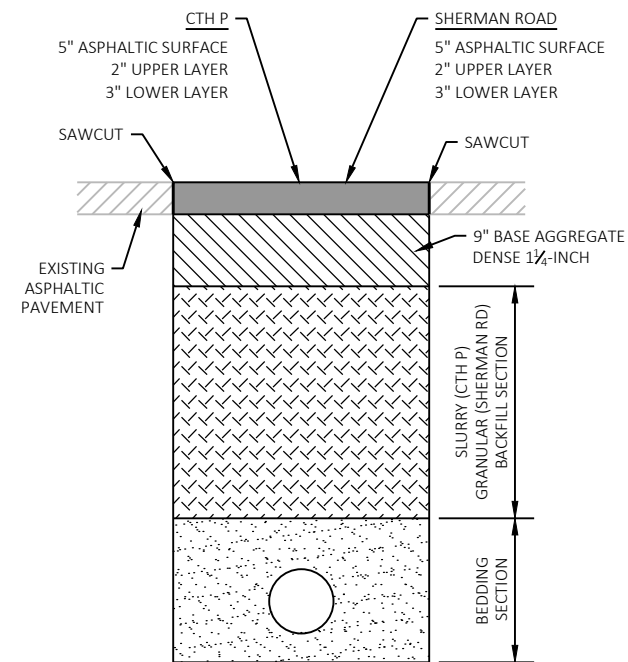
Village of Jackson  
2023 Utility and Street Improvements  
CTH P, Sherman Road & Highland Road

GENERAL NOTES

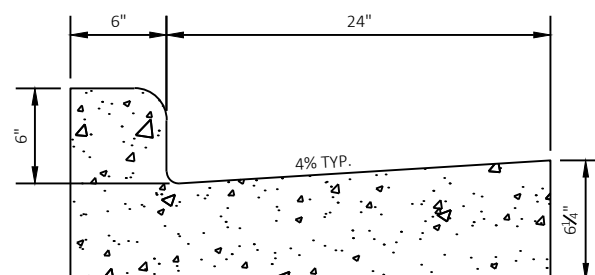
SHEET

2

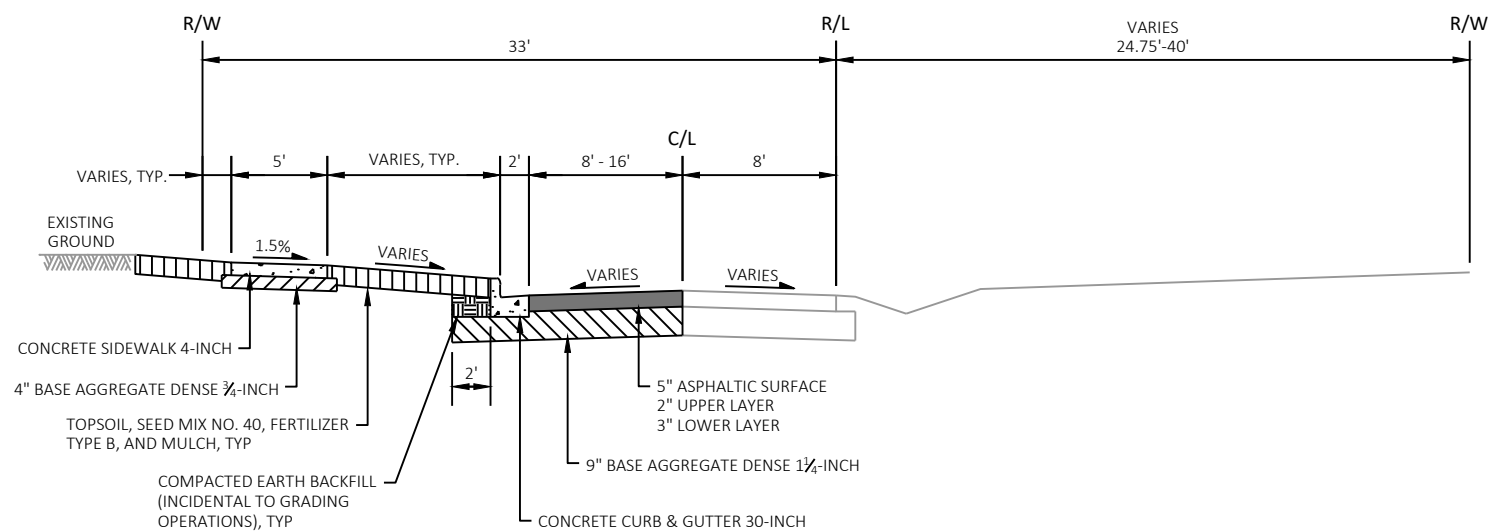
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## RESTORATION DETAIL



NOTE: CONCRETE CURB AND GUTTER SHALL BE IN ACCORDANCE WITH WISDOT SDD 8D01-22a



TYPICAL FINISHED SECTION

HIGHLAND ROAD  
STA 203+93.24 - STA 208+45.26

Revisions:	Job No: VOJ-2023	Designed: <u>KAL</u>
		Drawn: <u>AJS</u>
	Date: 02/23/2023	Checked: <u>JAC</u>



93 South Pioneer Road, Suite 300  
Fond du Lac, WI 54935  
(920) 924-5720

Village of Jackson  
2023 Utility and Street Improvements  
CTH P, Sherman Road & Highland Road

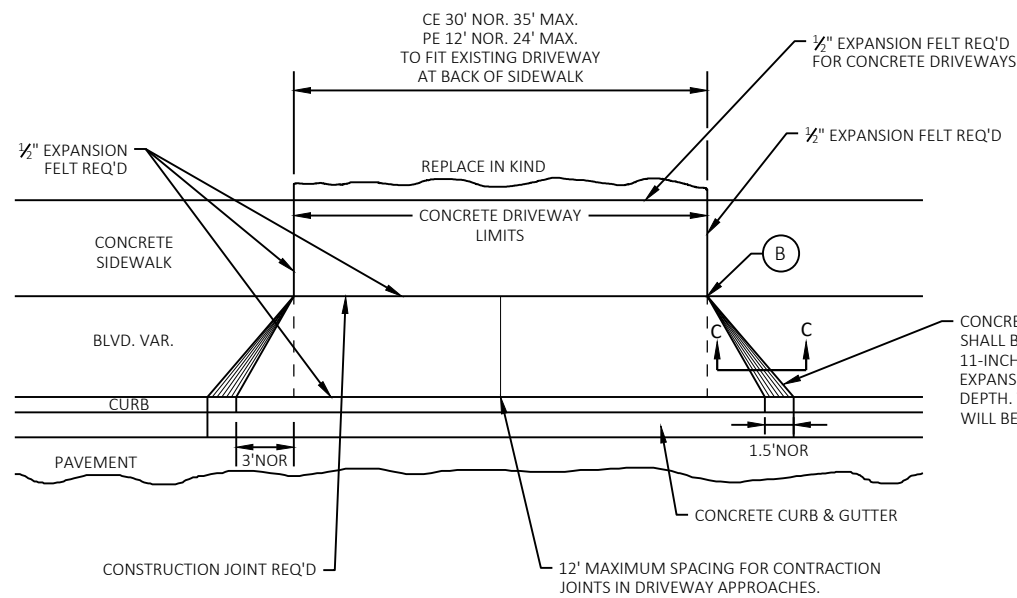
TYPICAL SECTIONS & CONSTRUCTION DETAILS	
--------------------------------------------	--

SHIFT

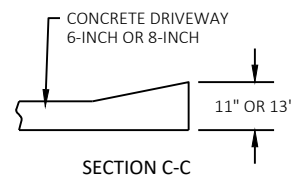
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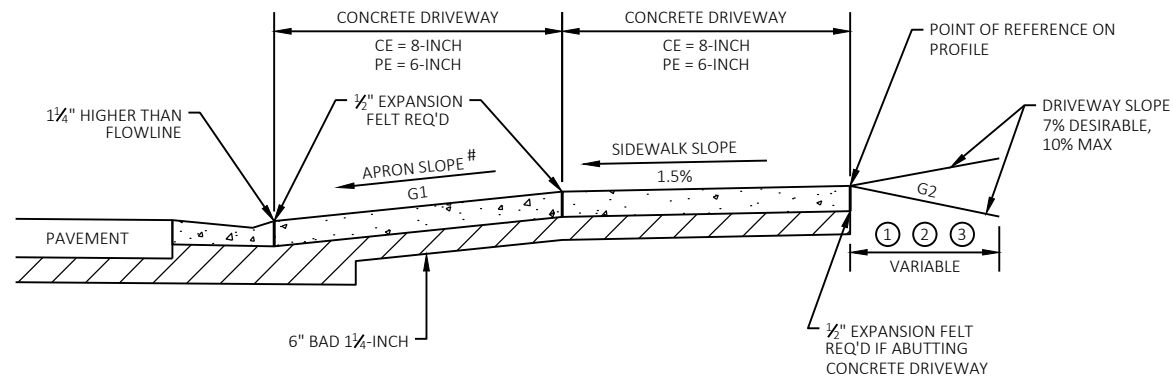




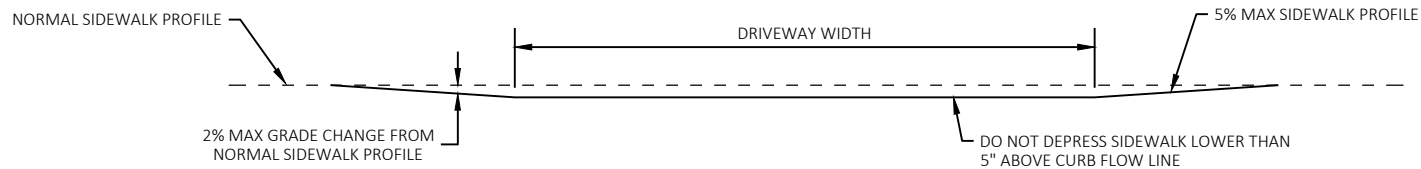
PLAN VIEW



SECTION C-C



TYPICAL SIDEWALK SECTION



DEPRESSED SIDEWALK PROFILE DETAIL

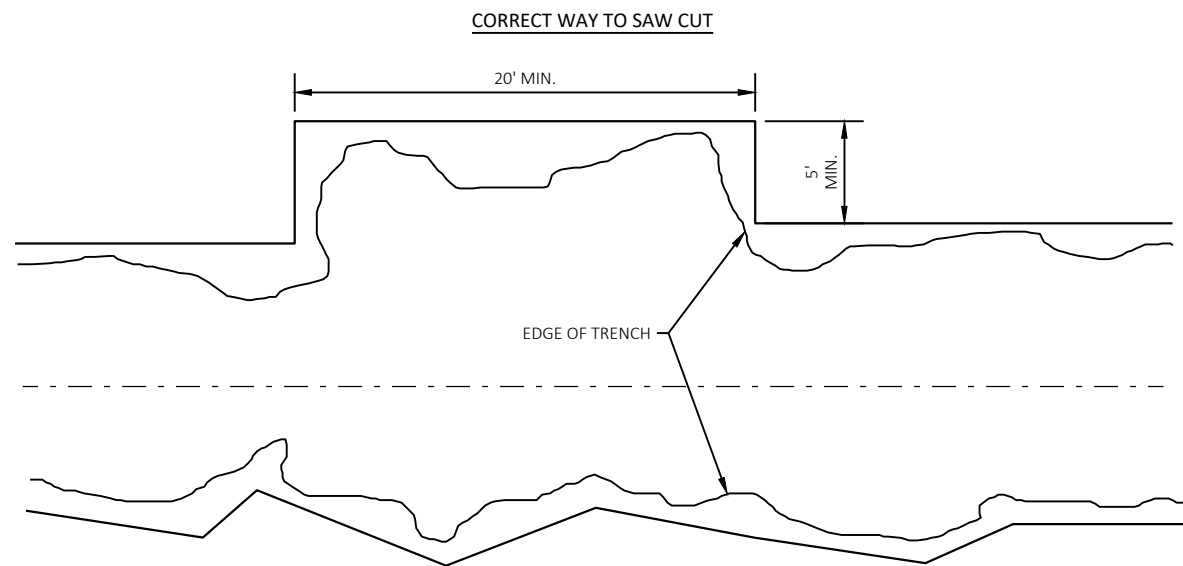
- ① — CE 8" CONC DWY OVER 6" BAD 1 1/4-INCH  
PE 6" CONC DWY OVER 6" BAD 1 1/4-INCH
- ② — 6" BASE AGG. DENSE 3/4-INCH
- ③ — CE 4" ASPH SURFACE OVER 6" BAD 1 1/4-INCH  
PE 3" ASPH SURFACE OVER 6" BAD 1 1/4-INCH

#	TERRACE WIDTH	APRON SLOPE (G1)		
		MIN %	DESIRABLE %	MAX %
	3 FT	7.0	8.5	11.0
	4 FT	5.0	7.0	11.0
	5 FT	4.0	7.0	11.0
	6 FT	4.0	7.0	11.0
	7 FT	3.5	7.0	11.0
	8 FT	3.0	7.0	11.0

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE

URBAN ENTRANCE DETAIL WITH SIDEWALK AND CURB & GUTTER

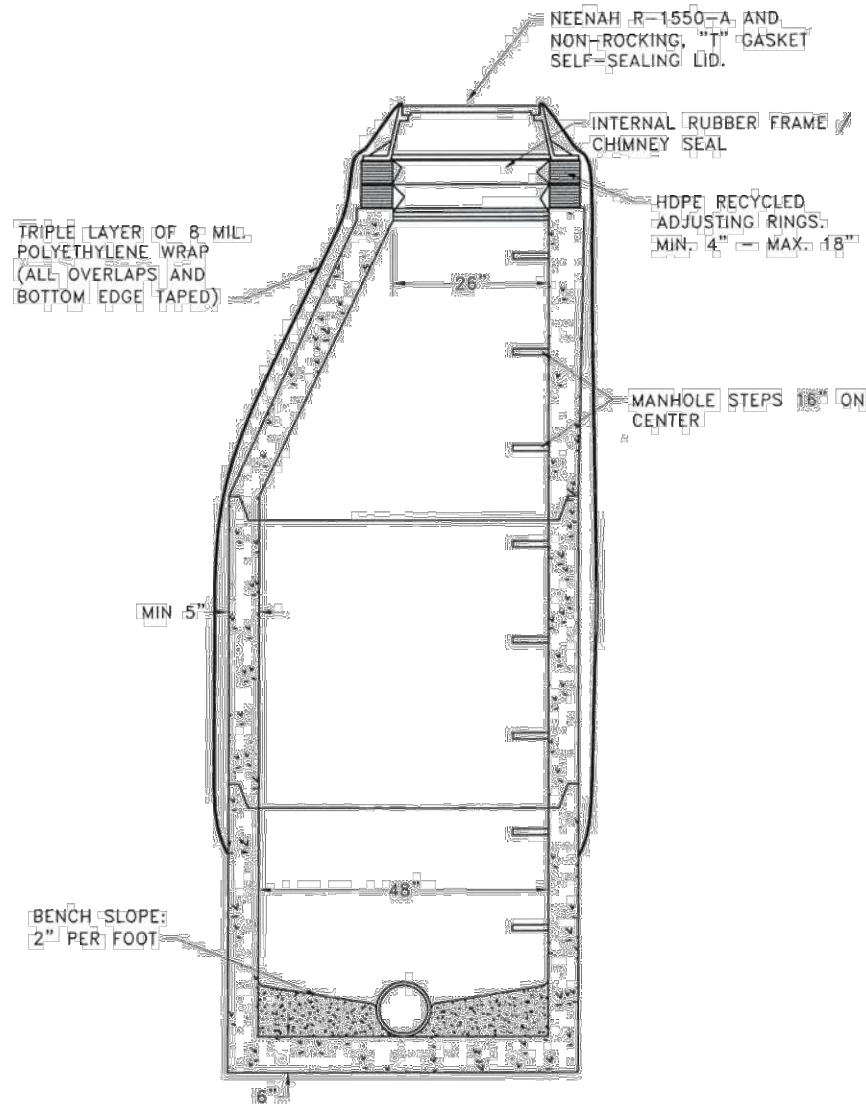


INCORRECT WAY TO SAW CUT

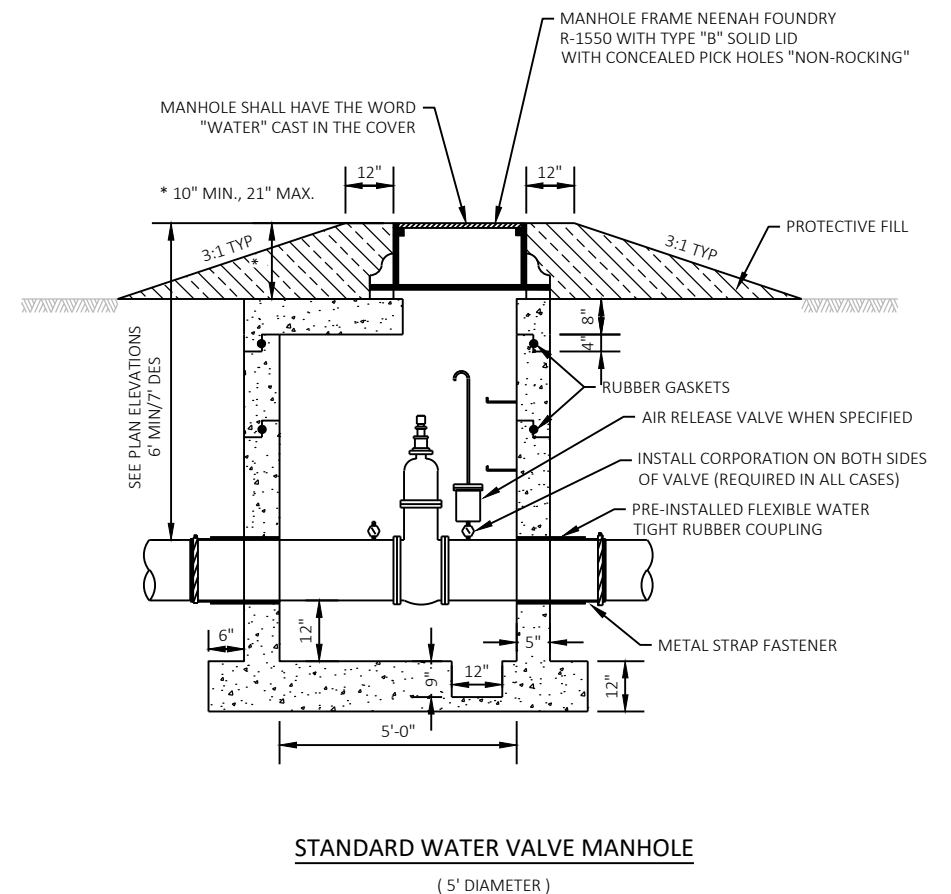
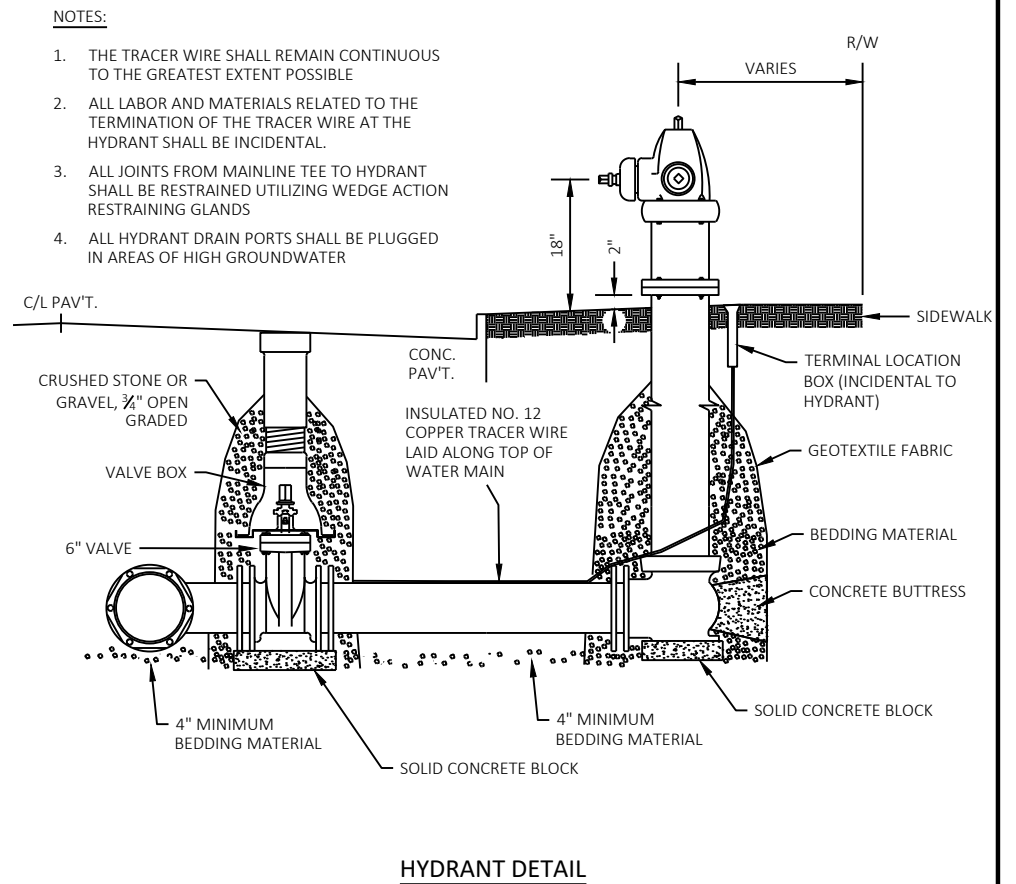
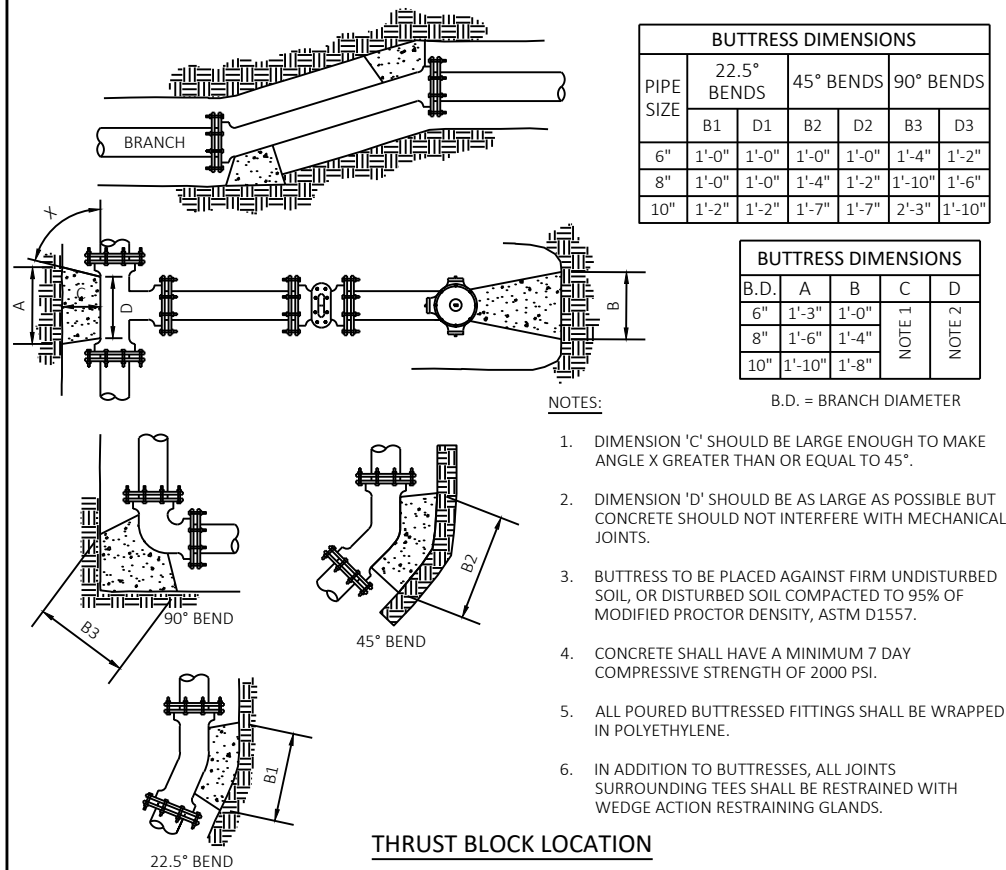
NOTE: WHEN SAW CUTTING THE PAVEMENT FOR TRENCH RESTORATION FOLLOWING CONSTRUCTION, ALL SAW CUTS SHALL BE MADE PARALLEL, OR PERPENDICULAR, TO CENTERLINE OF THE TRENCH. PARALLEL CUTS SHALL BE A MINIMUM LENGTH OF 20 FT. AND PERPENDICULAR CUTS SHALL BE A MINIMUM OF 5 FT IN LENGTH.

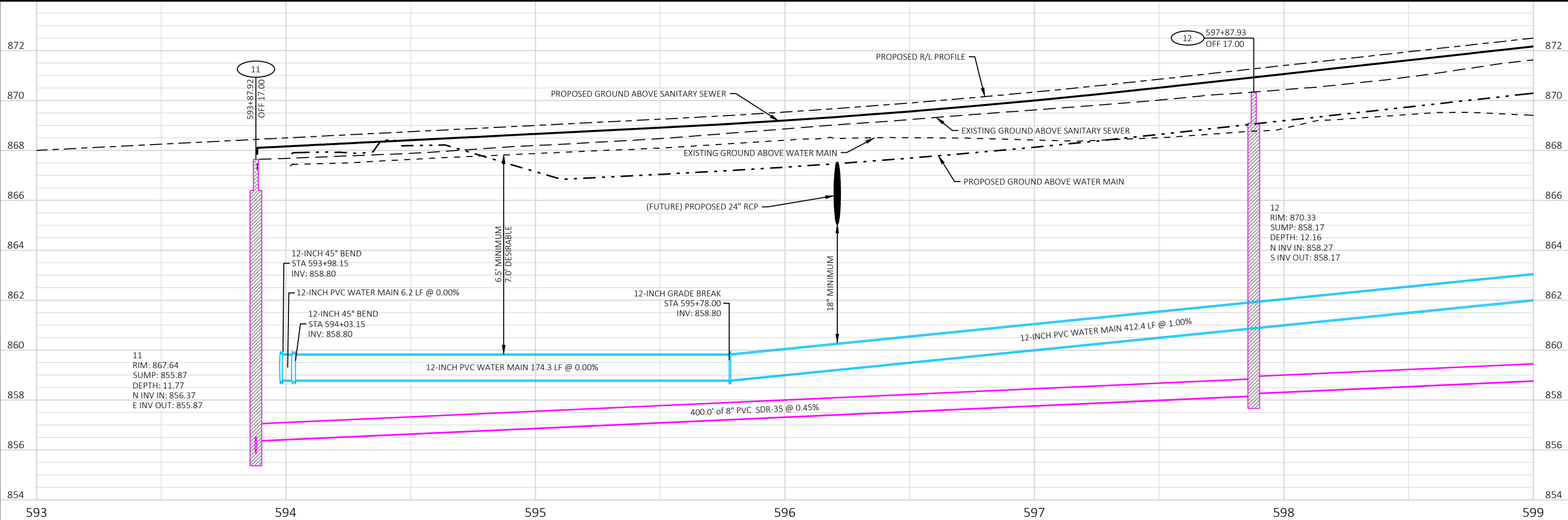
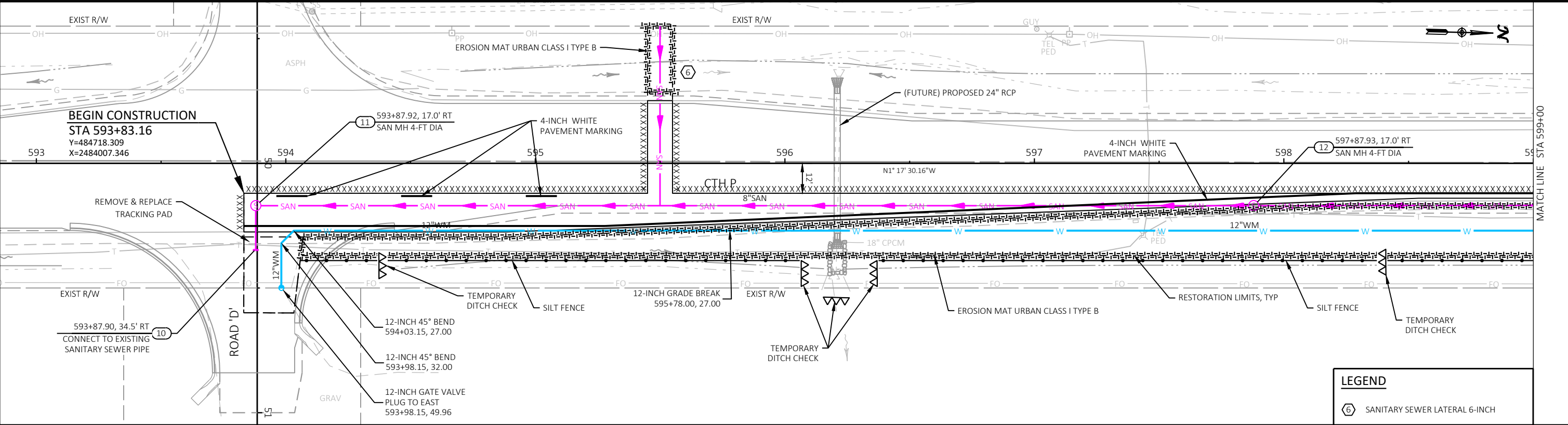
SAWCUT DETAIL

Revisions:	Job No: VOJ-2023	Designed: KAL		93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	TYPICAL SECTIONS & CONSTRUCTION DETAILS	SHEET 4 40
	Drawn: AIS	Checked: JAC					
	Date: 02/23/2023						



SANITARY MANHOLE DETAIL

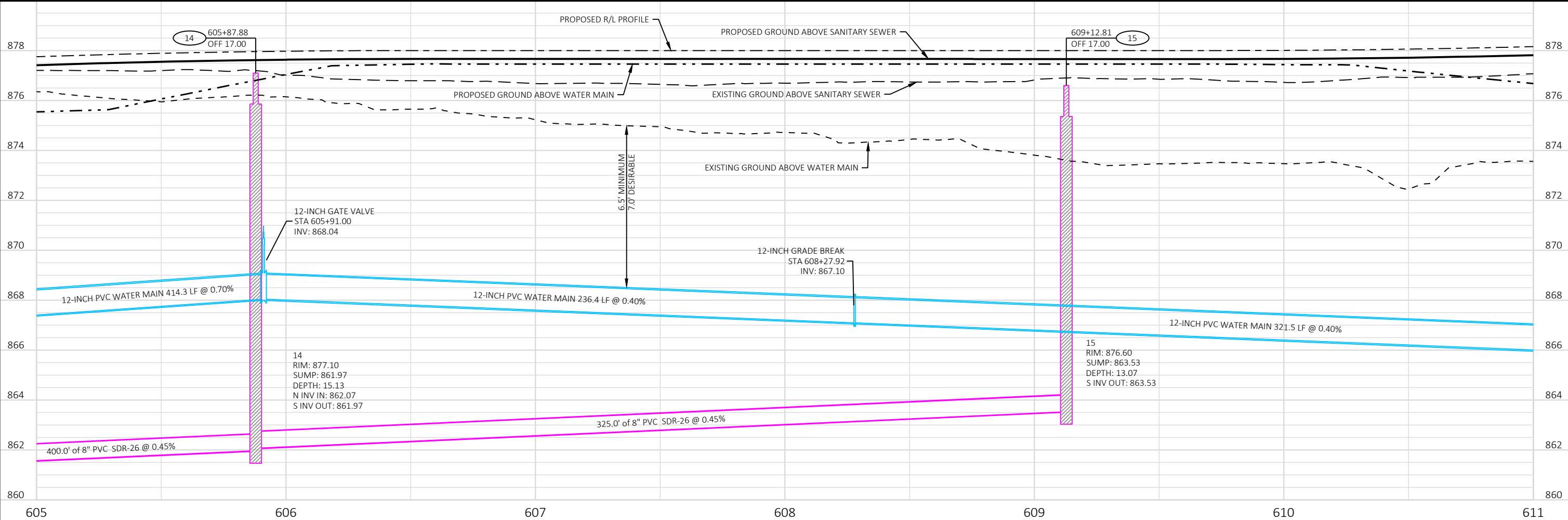
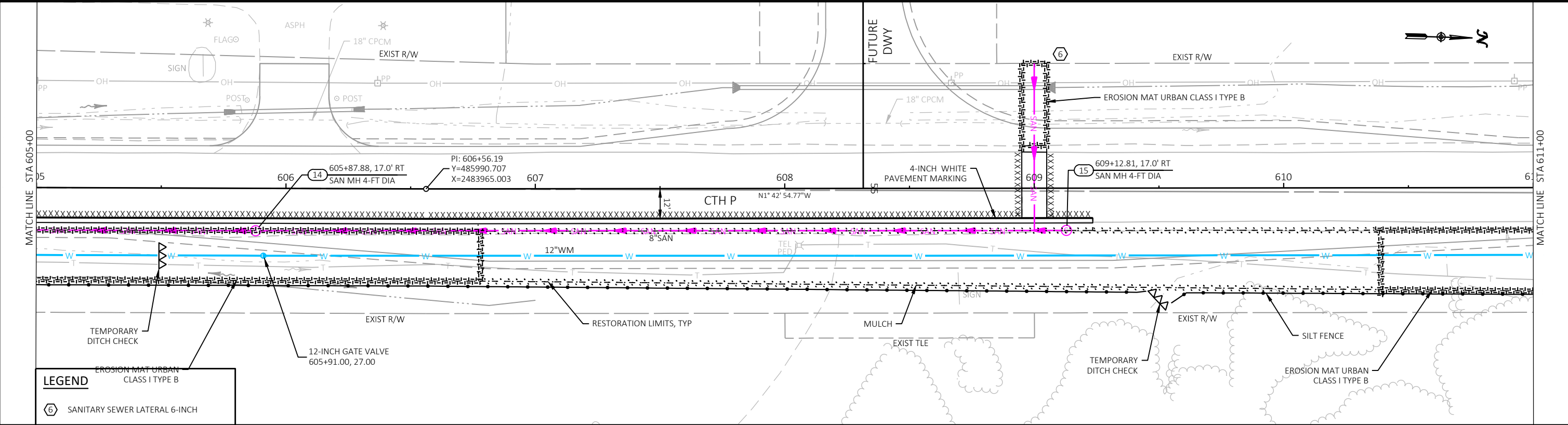




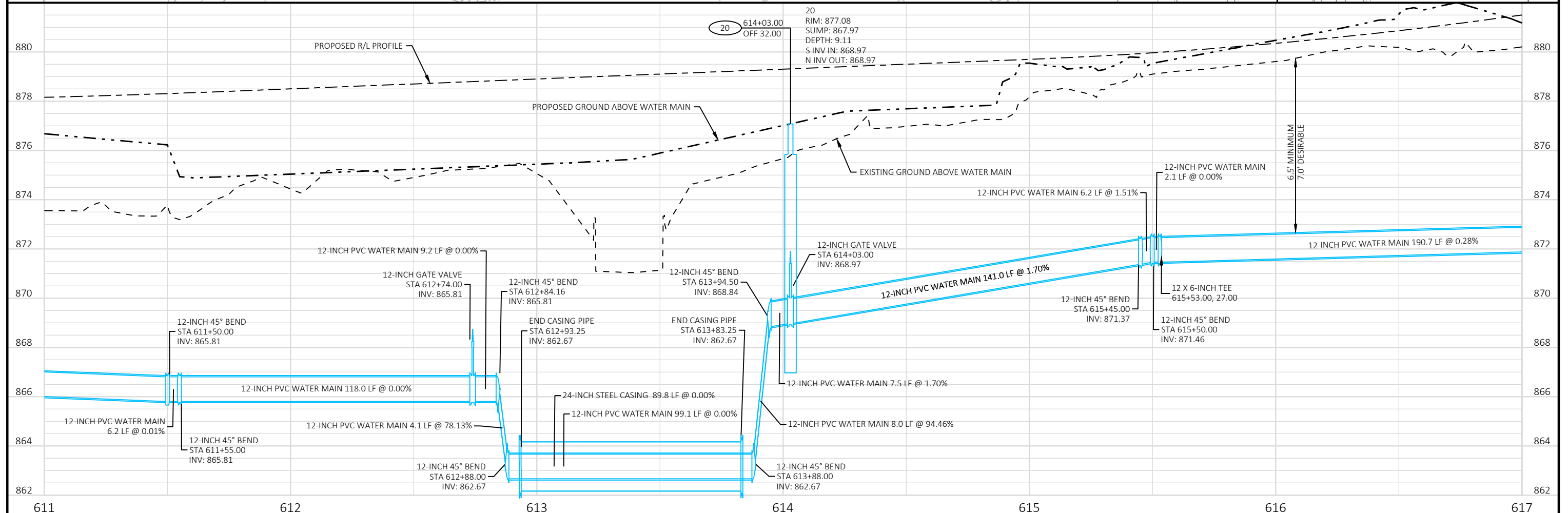
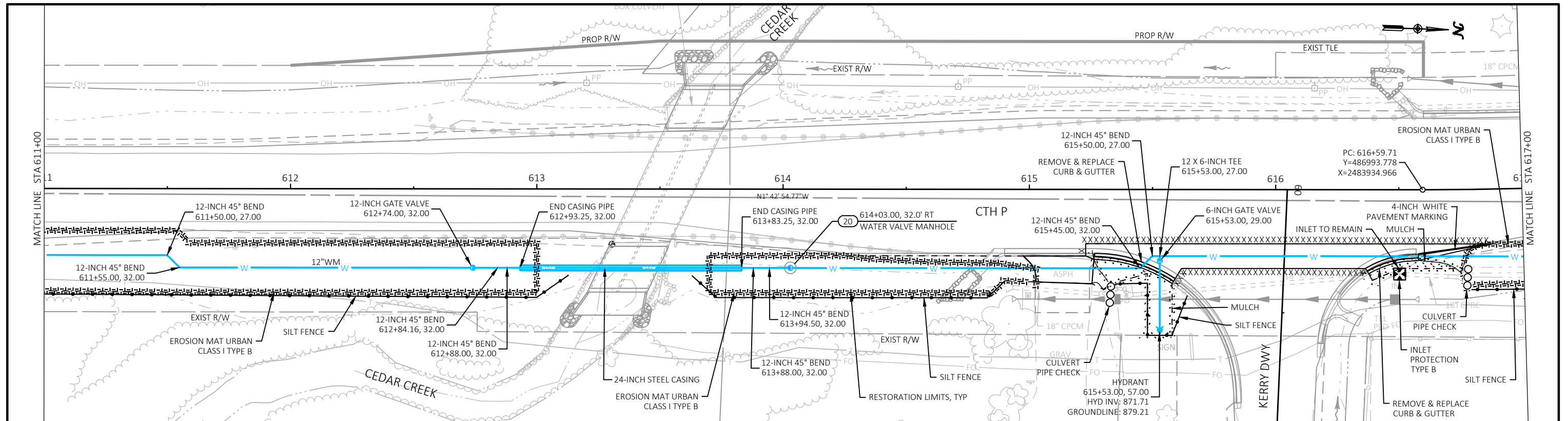
Revisions:	Job No: VOJ 23-01	Designed: KAL		93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	UTILITY PLANS CTH P	SHEET
	Date: 03/07/2023	Drawn: AJS					6
		Checked: JAC					40





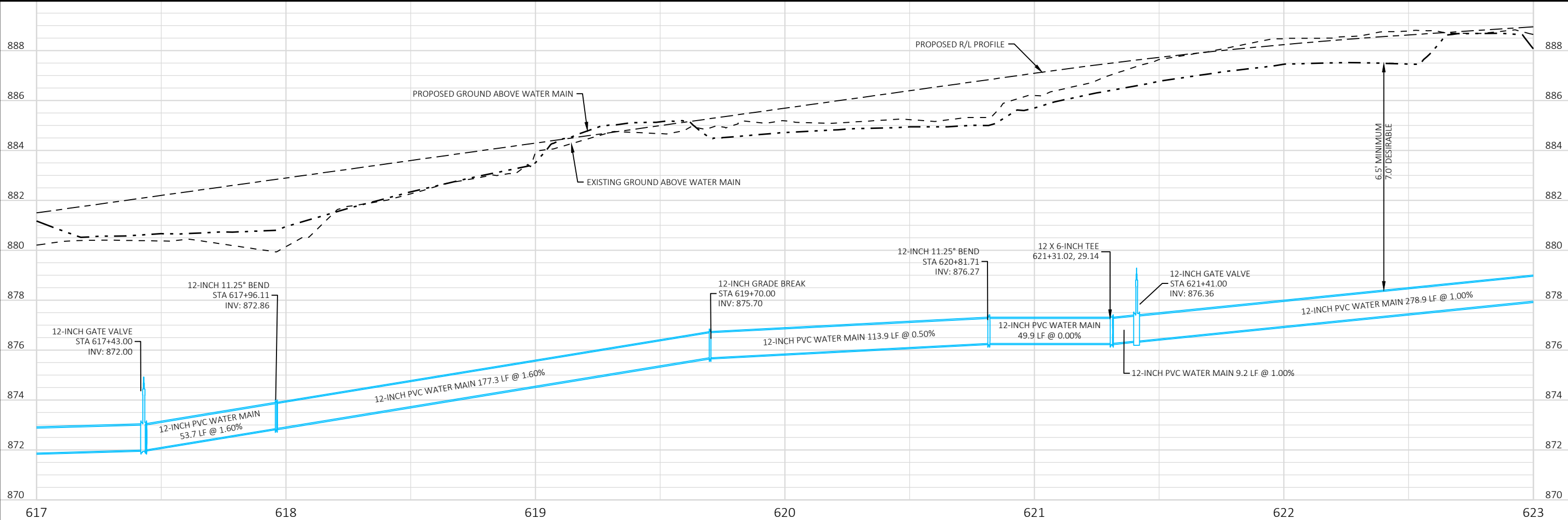
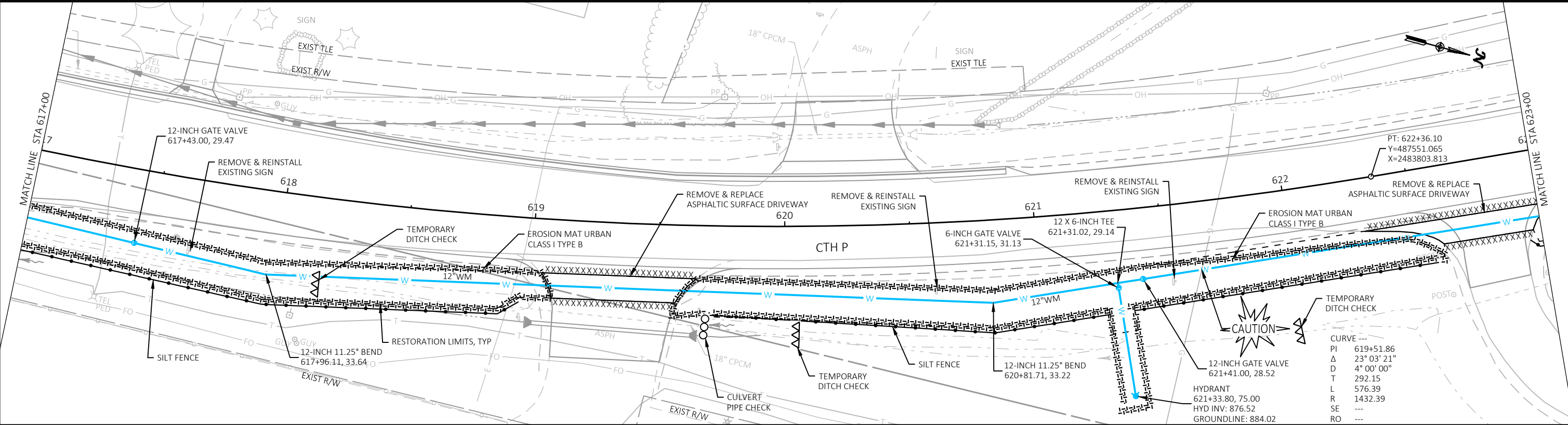


Revisions:	Job No: VOJ 23-01	Designed: KAL		93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	UTILITY PLANS CTH P	SHEET 8 40
	Drawn: AIS	Checked: JAC					
	Date: 03/07/2023						

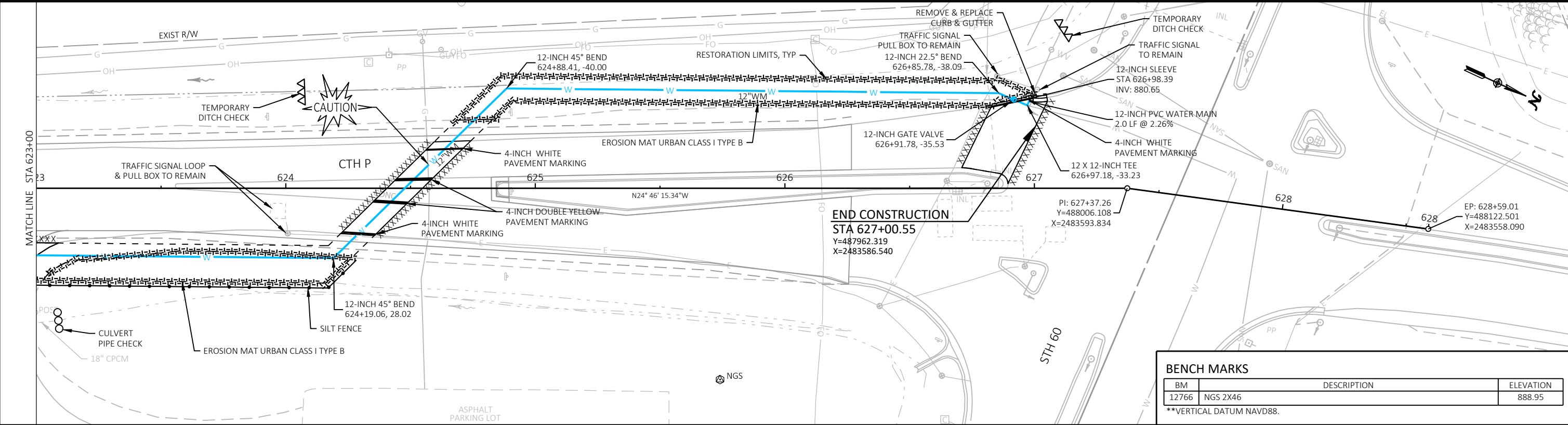


Revisions:		Job No: VOJ 23-01	Designed: KAL	Drawn: AIS	Checked: JAC	Date: 03/07/2023		93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	UTILITY PLANS CTH P	SHEET 9 40





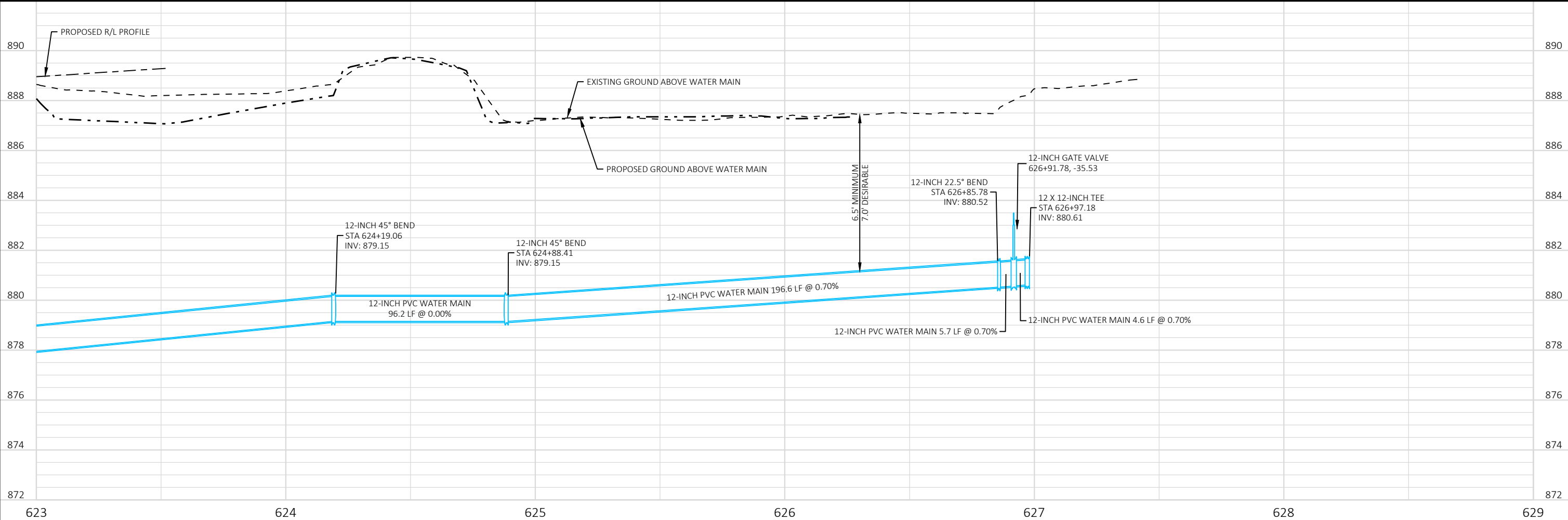
Revisions:	Job No: VOJ 23-01	Designed: KAL		93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	UTILITY PLANS CTH P	SHEET 10 40
	Drawn: AIS	Checked: JAC					
	Date: 03/07/2023						



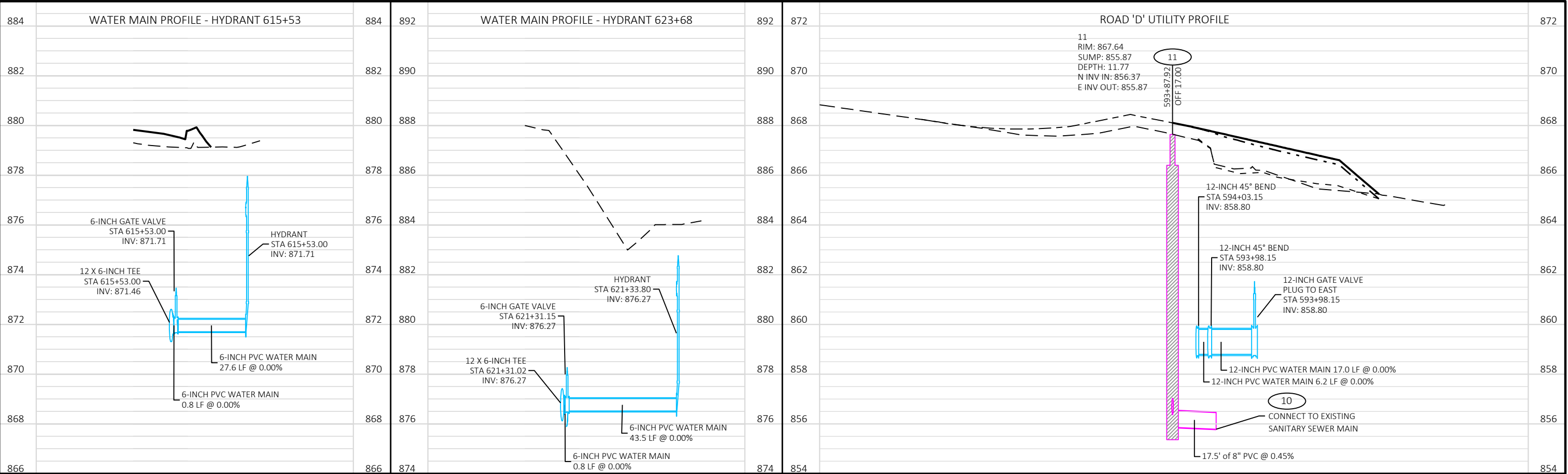
**BENCH MARKS**

BM	DESCRIPTION	ELEVATION
12766	NGS 2X46	888.95

**VERTICAL DATUM NAVD88.



Revisions:	Job No: VOJ 23-01	Designed: KAL		93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	UTILITY PLANS CTH P	SHEET
	Drawn: AIS	Checked: JAC					11
	Date: 03/07/2023						40



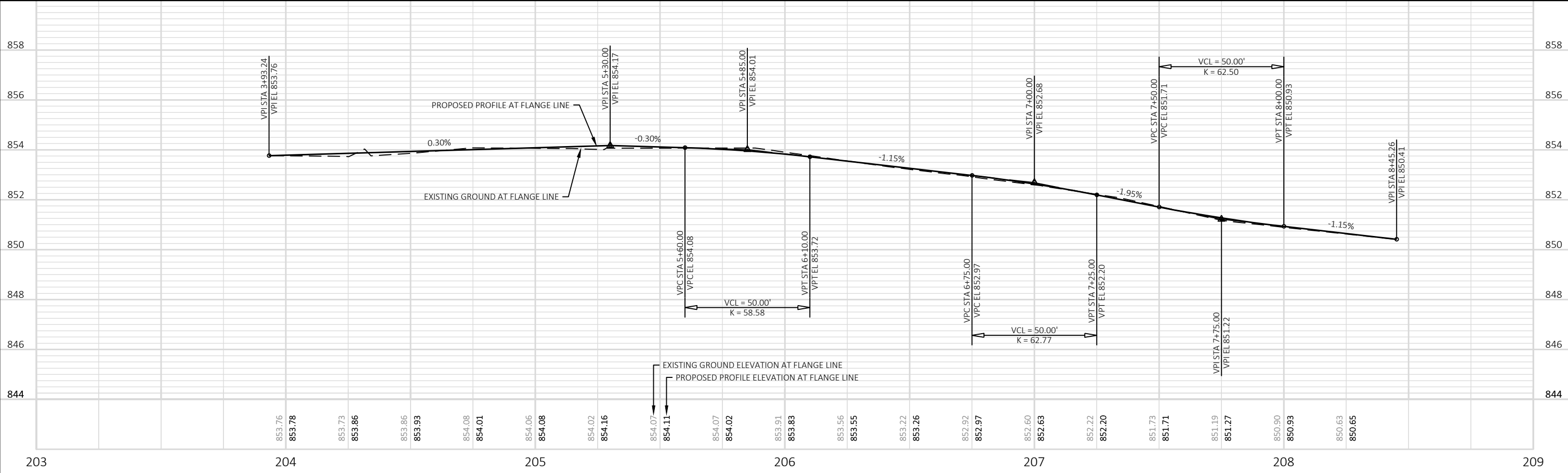
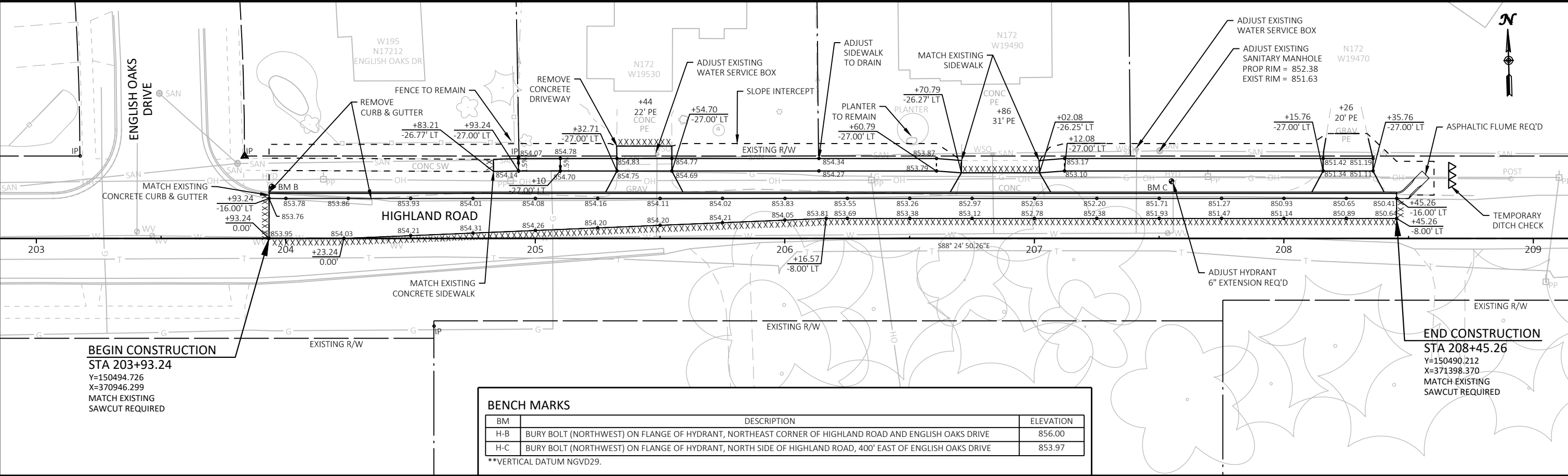
SANITARY SEWER SCHEDULE																
STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
10	CTH P	593+87.90	34.50	RT	CONNECT TO EXISTING SANITARY SEWER PIPE				11-10 IN	W	8" PVC	855.79	FROM STR: 11	--	--	
11	CTH P	593+87.92	17.00	RT	SAN MH 4-FT DIA	867.64	855.87	11.77	12-11 IN 11-10 OUT	N E	8" PVC 8" PVC	856.37 855.87	FROM STR: 12 TO STR: 10	-- 17.50'	-- 0.45%	
12	CTH P	597+87.93	17.00	RT	SAN MH 4-FT DIA	870.33	858.17	12.16	13-12 IN 12-11 OUT	N S	8" PVC 8" PVC	858.27 858.17	FROM STR: 13 TO STR: 11	-- 400.00'	-- 0.45%	
13	CTH P	601+87.88	17.00	RT	SAN MH 4-FT DIA	874.64	860.07	14.57	14-13 IN 13-12 OUT	N S	8" PVC 8" PVC	860.17 860.07	FROM STR: 14 TO STR: 12	-- 400.00'	-- 0.45%	
14	CTH P	605+87.88	17.00	RT	SAN MH 4-FT DIA	877.10	861.97	15.13	15-14 IN 14-13 OUT	N S	8" PVC 8" PVC	862.07 861.97	FROM STR: 15 TO STR: 13	-- 400.00'	-- 0.45%	
15	CTH P	609+12.81	17.00	RT	SAN MH 4-FT DIA	876.60	863.53	13.07	15-14 OUT	S	8" PVC	863.53	TO STR: 14	325.01'	0.45%	

WATER MANHOLE SCHEDULE												
STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	PIPE SIZE & TYPE	PIPE INVERT	REMARKS	
20	CTH P	614+03.00	32.00	RT	WATER VALVE MANHOLE	877.08	867.97	9.11	8" PVC 8" PVC	868.97 868.97		



[illegible]

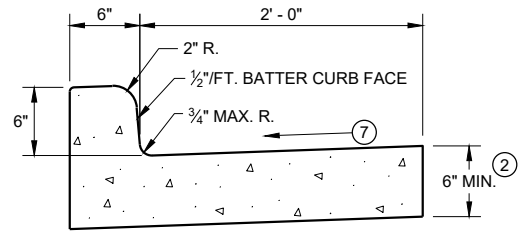
SANITARY SEWER SCHEDULE																
STRUCTURE NUMBER	ALIGNMENT	STATION	OFFSET	LOCATION	TYPE	RIM/GRATE ELEVATION	STRUCTURE INV ELEV	TOTAL DEPTH	CONNECTING PIPES	PIPE DIRECTION	PIPE SIZE & TYPE	PIPE INVERT	PIPE ROUTE	PIPE LENGTH	PIPE SLOPE	REMARKS
100	SHERMAN	32+22.60	-19.89	LT	CONNECT TO EXISTING SAN MH	889.43			101-100 IN	E	8" PVC	876.23	FROM STR: 101	--	--	
101	SHERMAN	36+22.60	-20.00	LT	SAN MH 4-FT DIA	888.01	877.82	10.19	101-100 OUT	W	8" PVC	877.82	TO STR: 100	400.00'	0.40%	



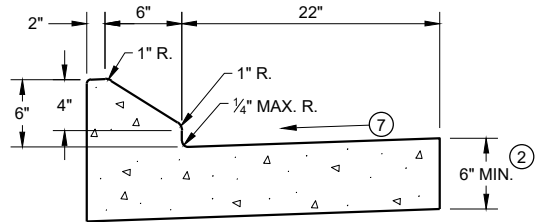




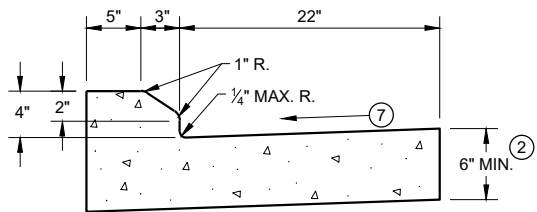
SDD 08D01-a Concrete Curb and Gutter



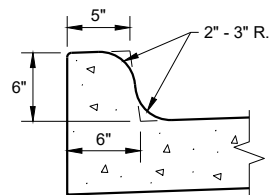
TYPES A^① & D



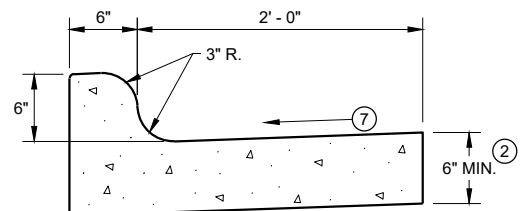
6" SLOPED CURB TYPES G^① & J



4" SLOPED CURB TYPES G^① & J

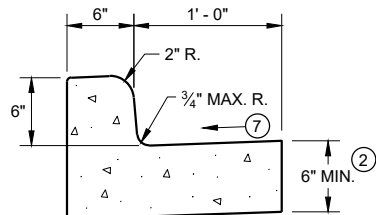


TYPES K^① & L  
(OPTIONAL CURB SHAPE)



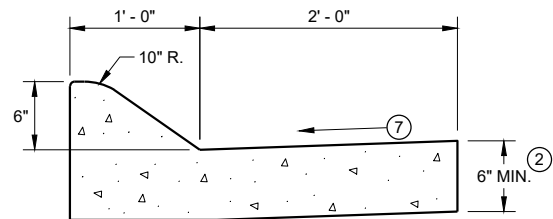
TYPES K^① & L

CONCRETE CURB AND GUTTER 30"

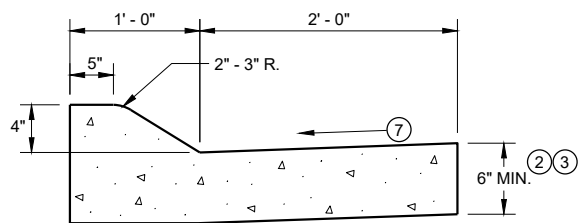


TYPES A^① & D

CONCRETE CURB AND GUTTER 18"

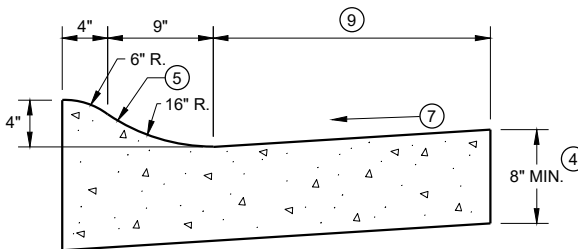


6" SLOPED CURB TYPES A^① & D



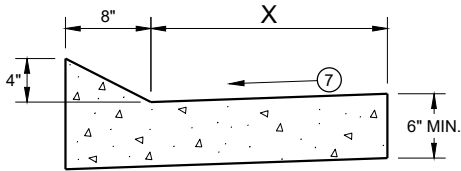
4" SLOPED CURB TYPES A^① & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R^① & T

TBT & TBTT	X
30"	22"
36"	28"

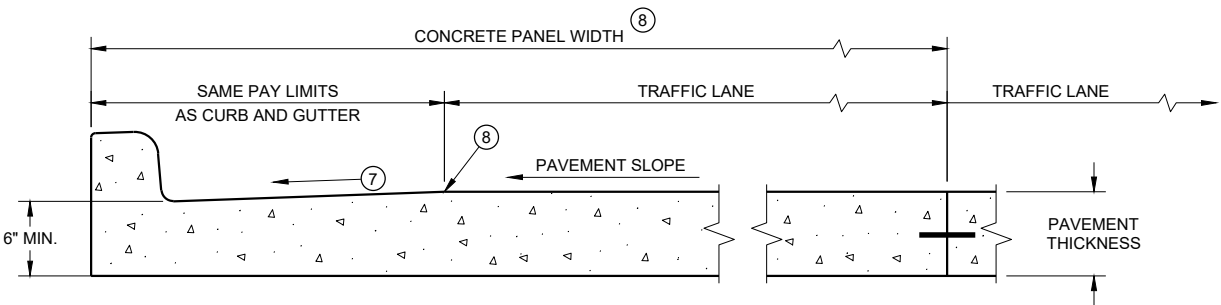


TYPES TBT & TBTT^①

CONCRETE CURB AND GUTTER

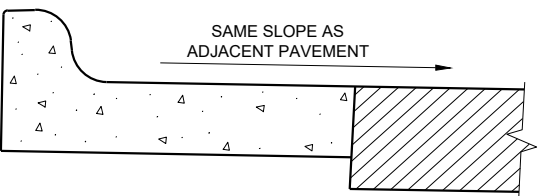
PAVEMENT THICKNESS  
AND MAXIMUM CONCRETE  
PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *  
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER^⑥  
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

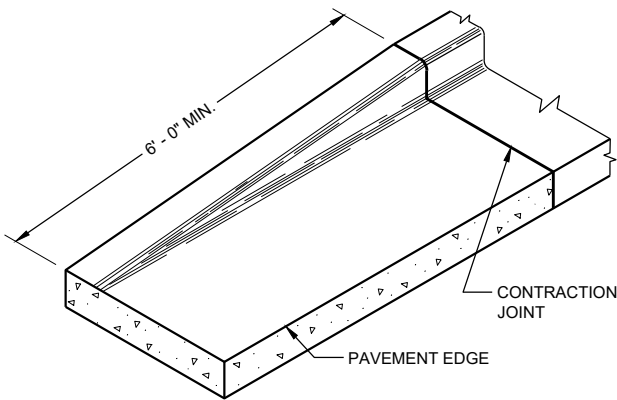
- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑤ UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
- ⑨ CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES  
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

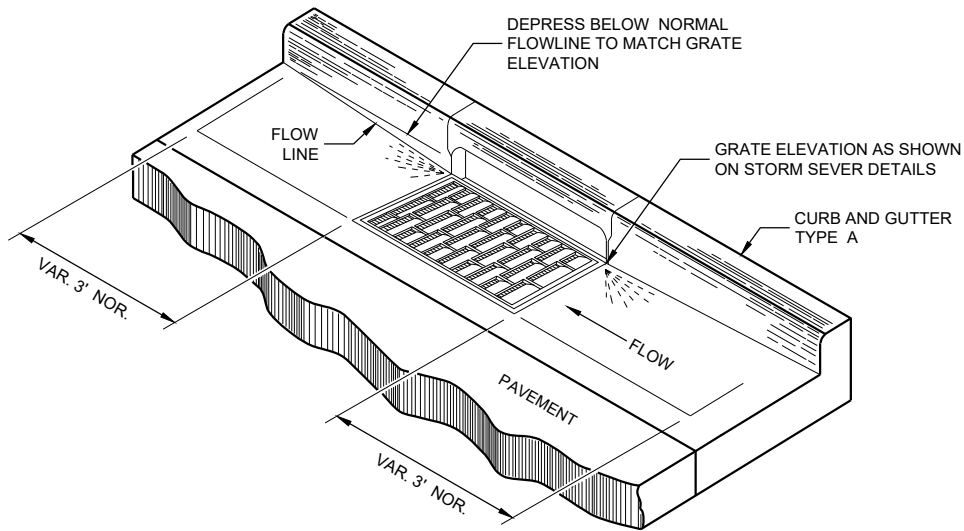
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



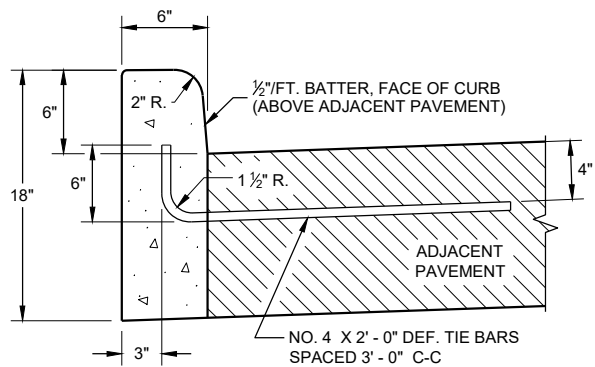
# SDD 08D01-b Concrete Gutter, Ties, and Curb and Gutter Applications



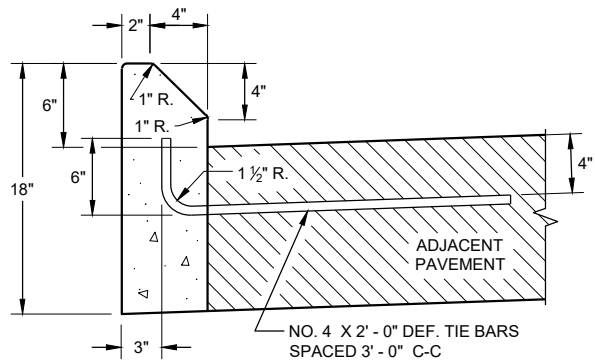
END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS  
(TYPICAL H INLET COVER SHOWN)

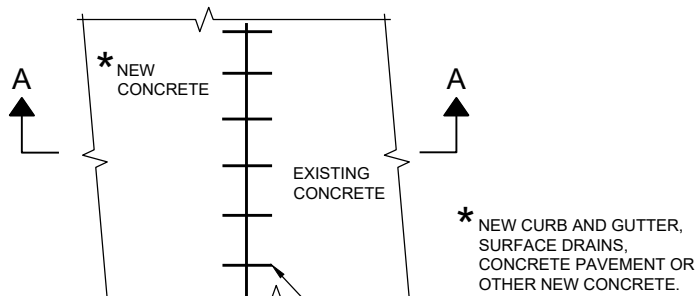


TYPES A^① & D

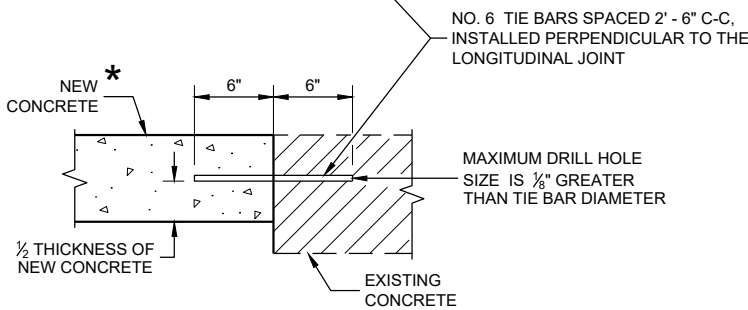


TYPES G^① & J

CONCRETE CURB



PLAN VIEW



SECTION A - A

TIE BARS DRILLED  
INTO EXISTING PAVEMENT

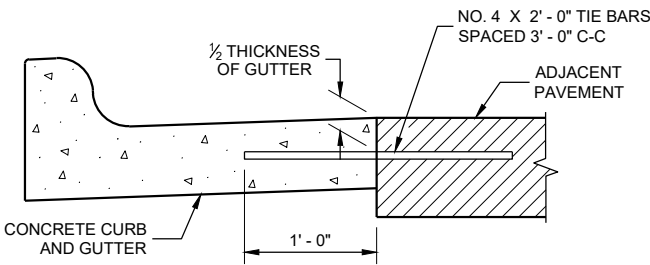
## GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

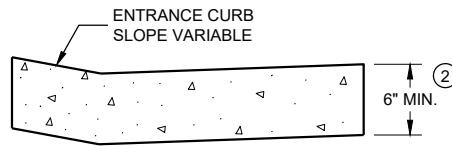
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION^①



DRIVEWAY ENTRANCE CURB^③  
(WHEN DIRECTED BY THE ENGINEER)

## CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2021  
DATE  
/S/ Rodney Taylor  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER

17

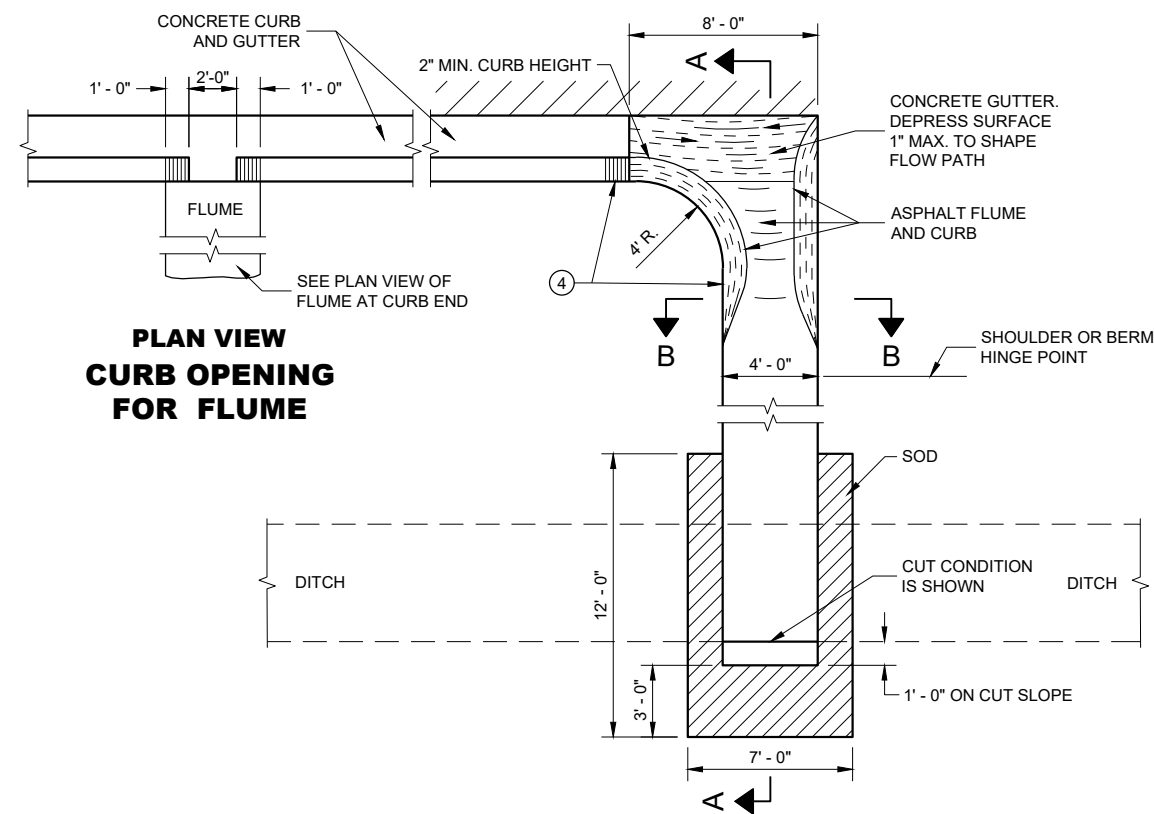
FHWA



# SDD 08D04 Concrete Surface Drains and Asphaltic Flumes

NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

## ASPHALTIC FLUME



PLAN VIEW  
CURB OPENING  
FOR FLUME

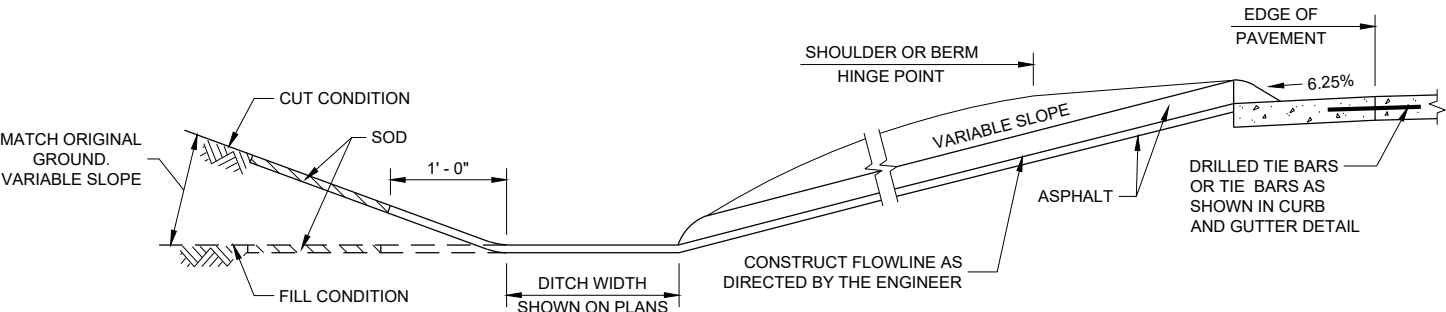
PLAN VIEW  
FLUME AT CURB END

## GENERAL NOTES

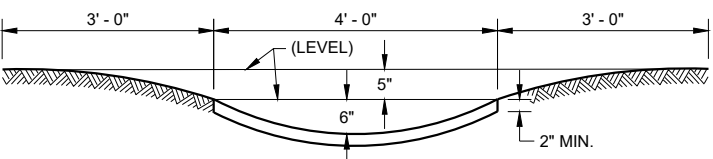
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

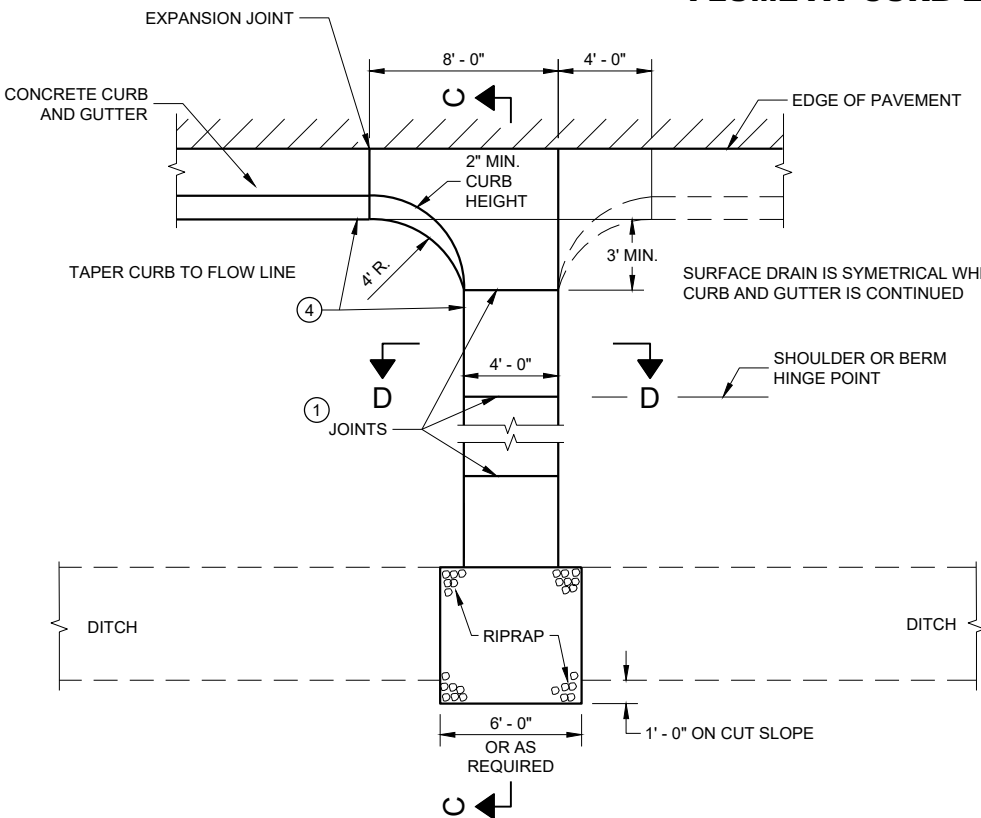
- JOINTS SHALL BE  $\frac{1}{8}$ " TO  $\frac{1}{4}$ " WIDE BY  $\frac{1}{2}$ " DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
- CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
- ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.



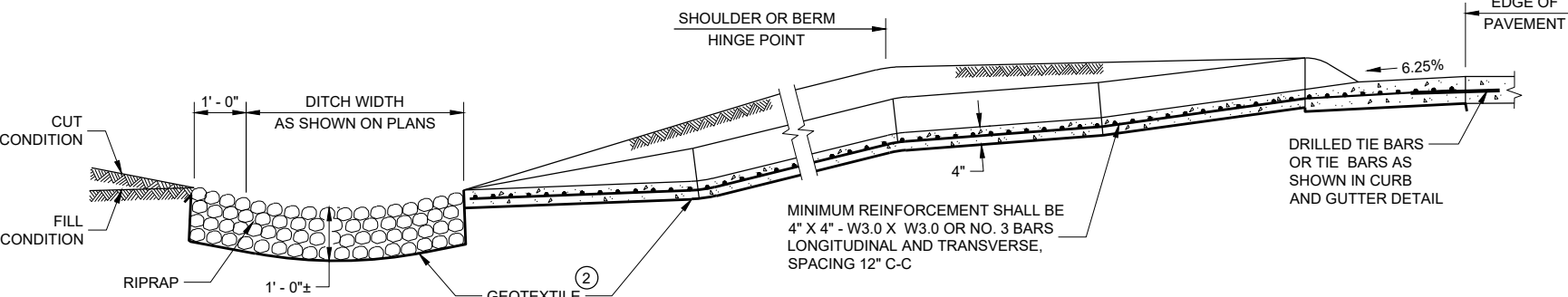
SECTION A - A



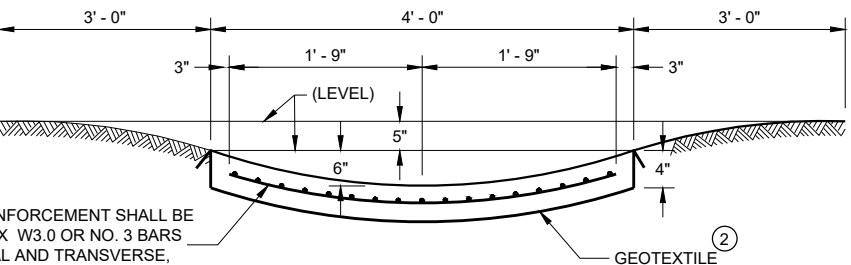
SECTION B - B



PLAN VIEW  
CONCRETE SURFACE DRAIN



SECTION C - C



SECTION D - D

## CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2021  
DATE  
/S/ Rodney Taylor  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER

18

FHWA

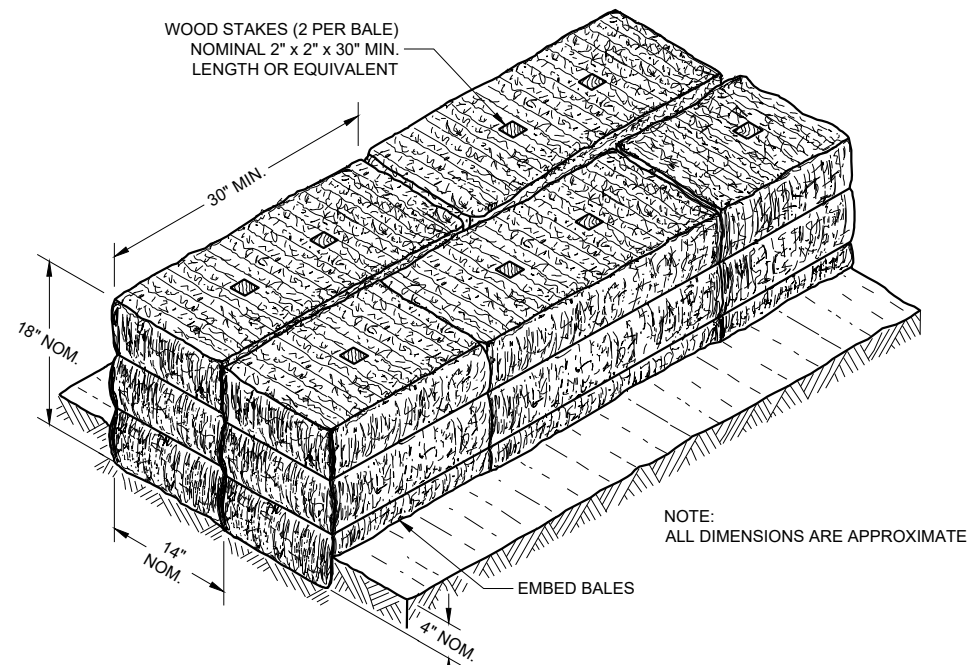
SDD 08D04 - 06

SDD 08D04 - 06

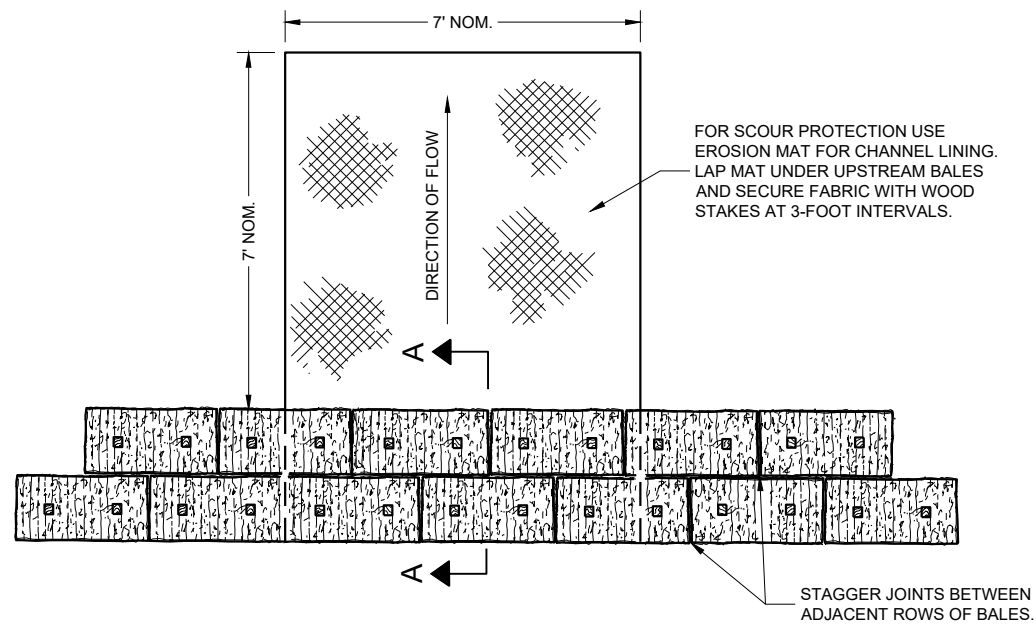




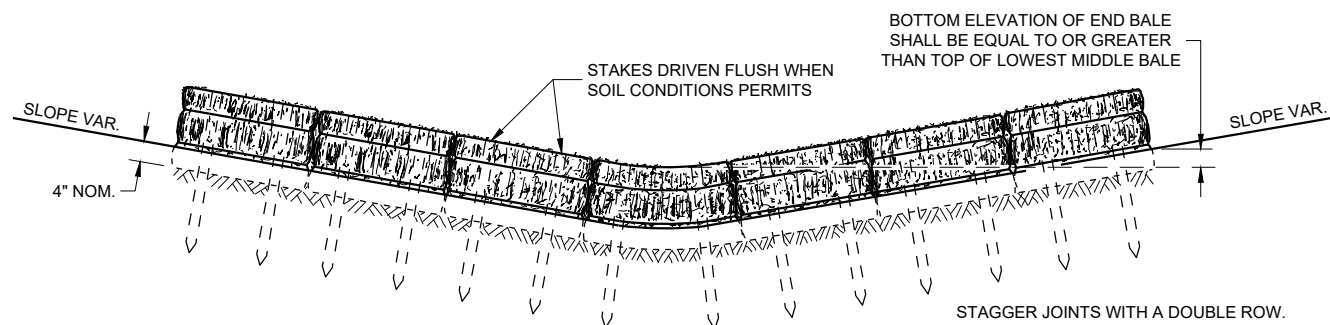
# SDD 08E08 Typical Installations of Erosion Bales / Temporary Ditch Checks



SECTION A - A



PLAN VIEW



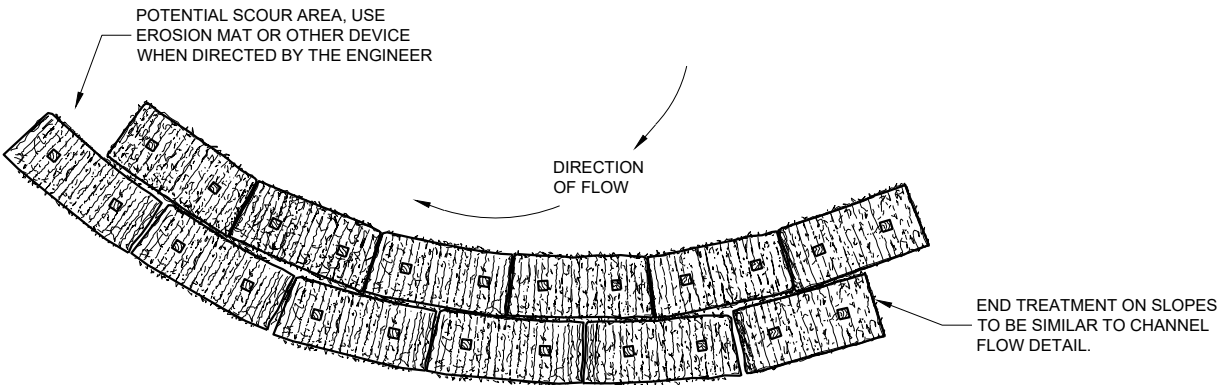
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES^①

## GENERAL NOTES

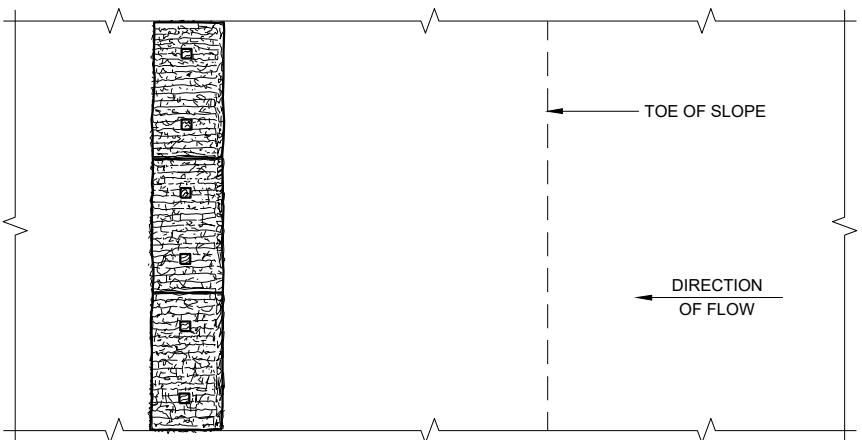
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS, EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

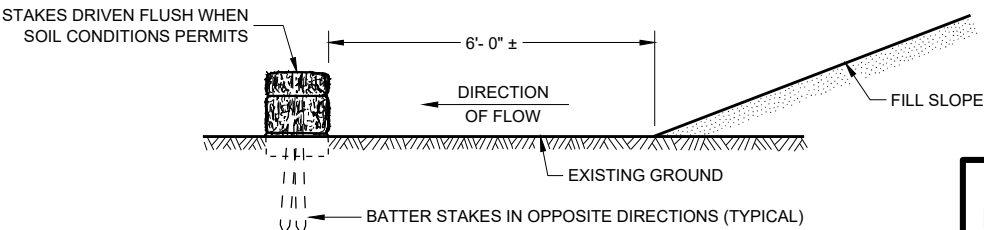


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN ELEVATION



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

## TYPICAL INSTALLATIONS OF EROSION BALES/TEMPORARY DITCH CHECKS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
6/4/02  
DATE  
/S/ Beth Cannestra  
CHIEF ROADWAY DEVELOPMENT  
ENGINEER

19

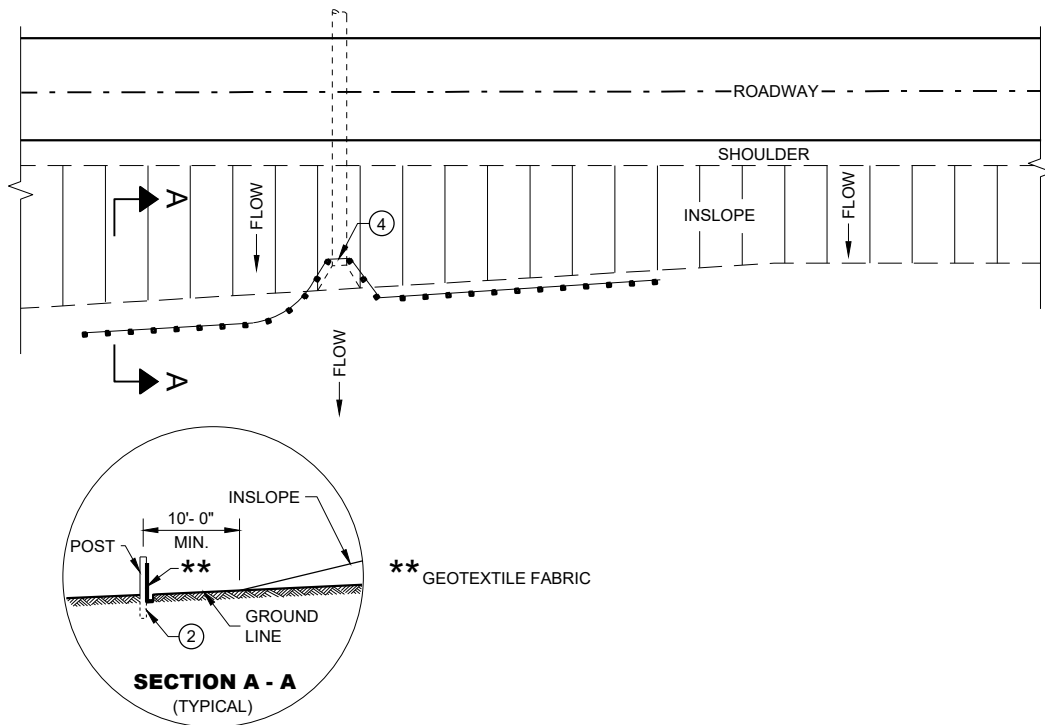
FHWA

SDD 08E08 - 03

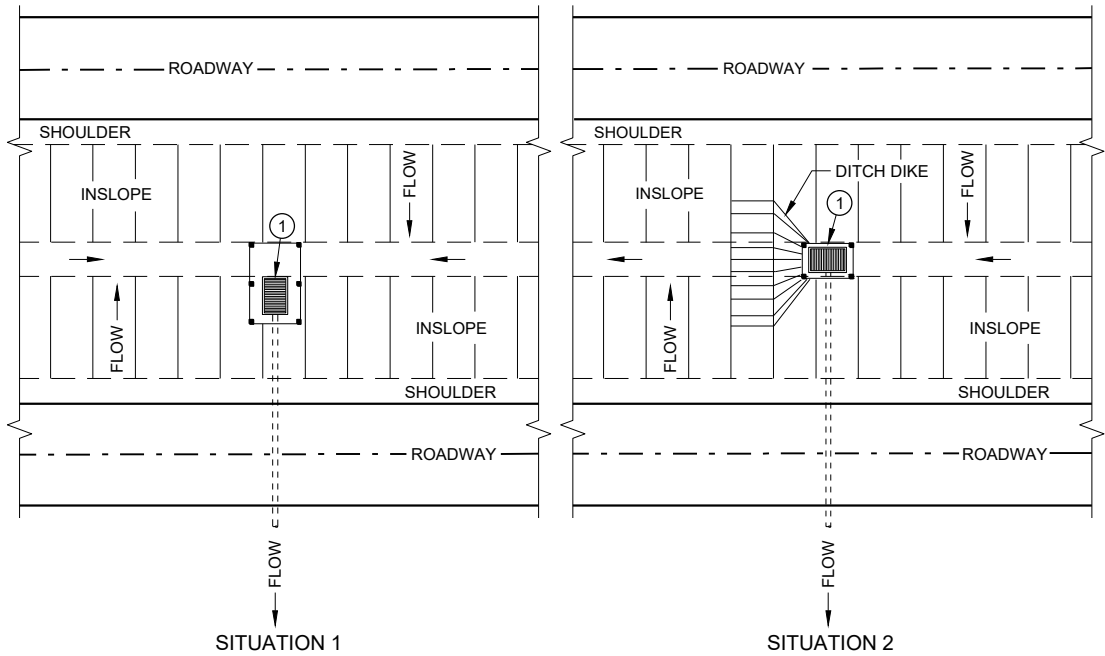
SDD 08E08 - 03

6

6



PLAN VIEW  
TYPICAL APPLICATION OF SILT FENCE

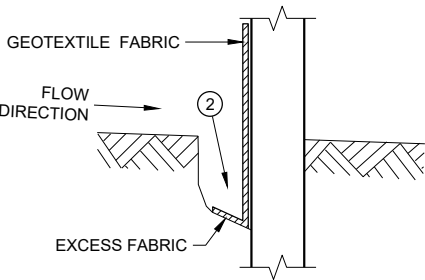


PLAN VIEW  
SILT FENCE AT MEDIAN SURFACE DRAINS

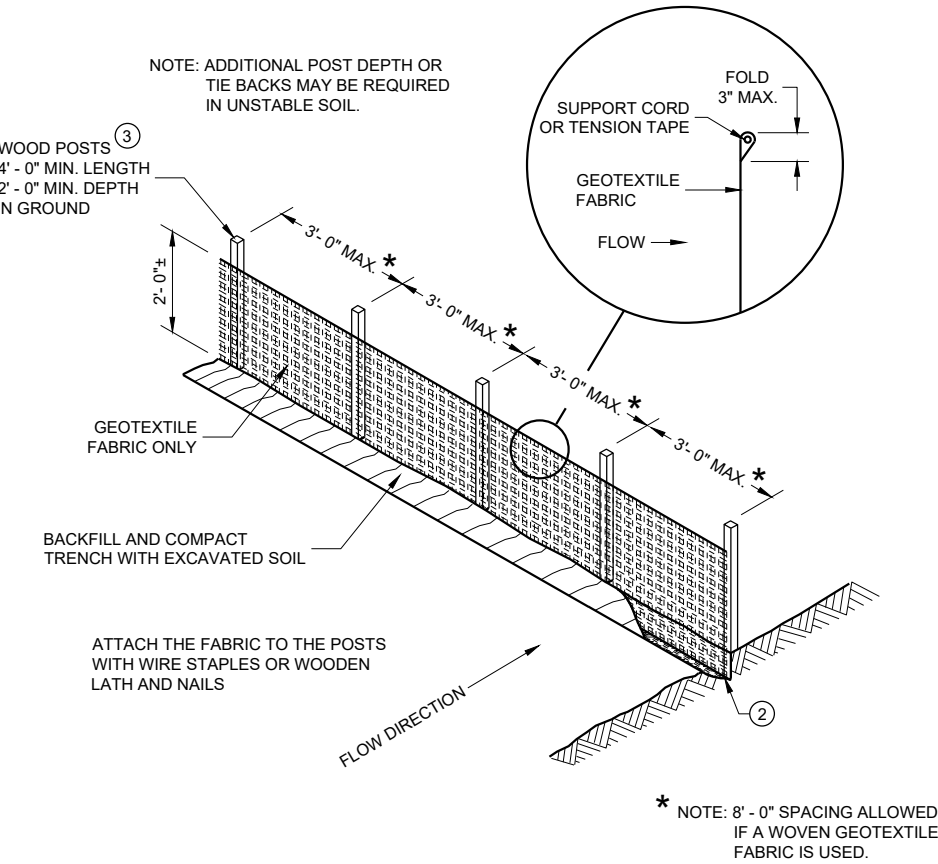
GENERAL NOTES

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

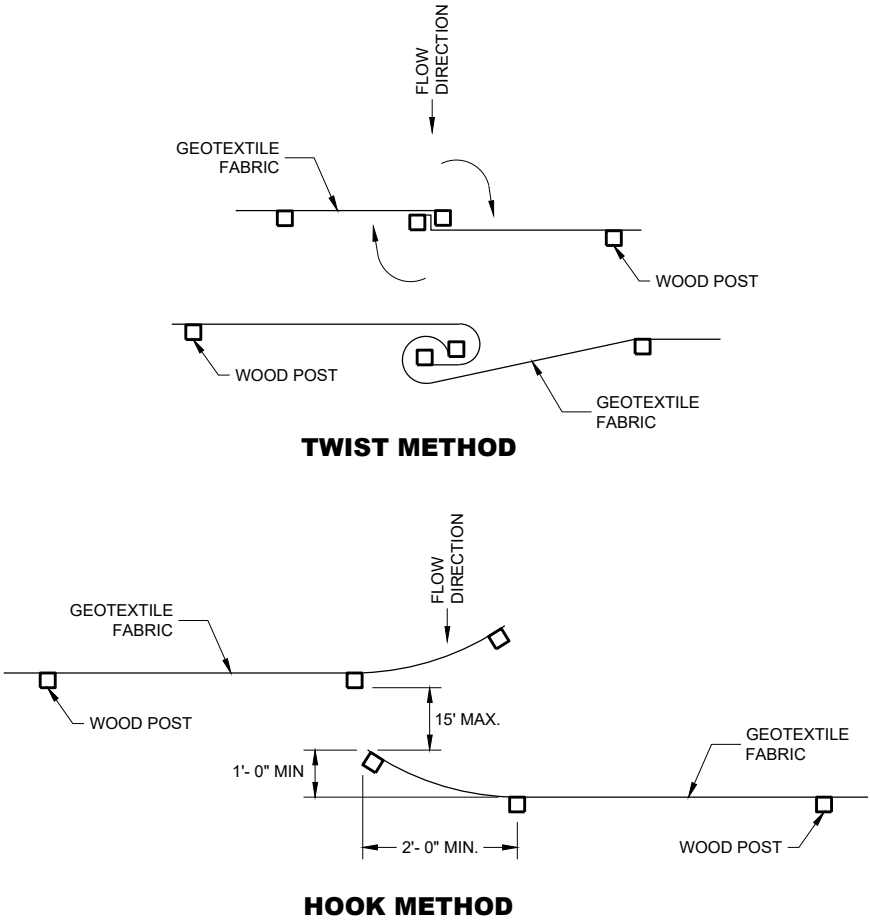
- 1 HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 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.



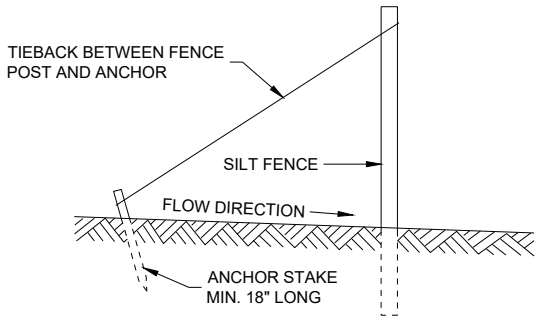
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK  
(WHEN REQUIRED BY THE ENGINEER)

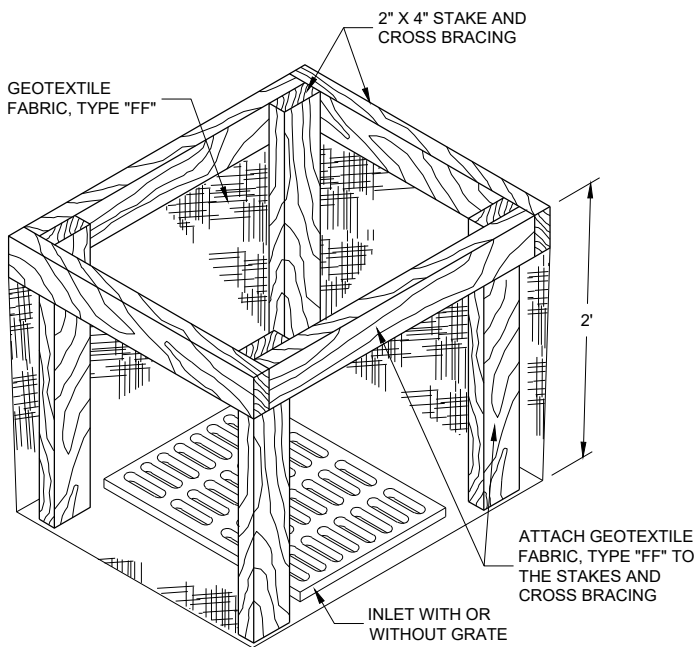
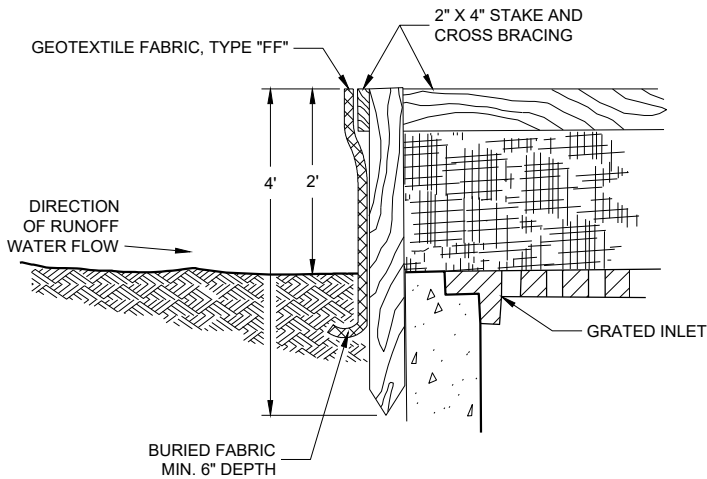
SILT FENCE

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
4/29/05 DATE /S/ Beth Cannestra 20  
CHIEF ROADWAY DEVELOPMENT ENGINEER  
FHWA



# SDD 08E10 Inlet Protection, Types A, B, C and D



**INLET PROTECTION, TYPE "A"**

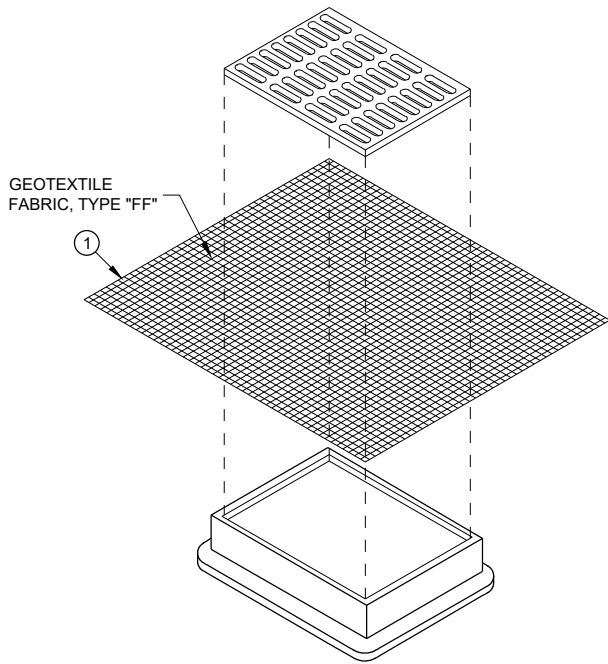
## GENERAL NOTES

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

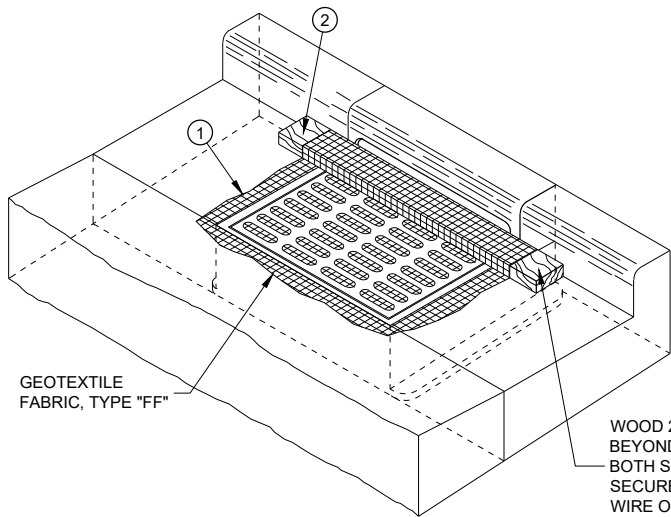
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

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

### TYPES 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

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

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.

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.

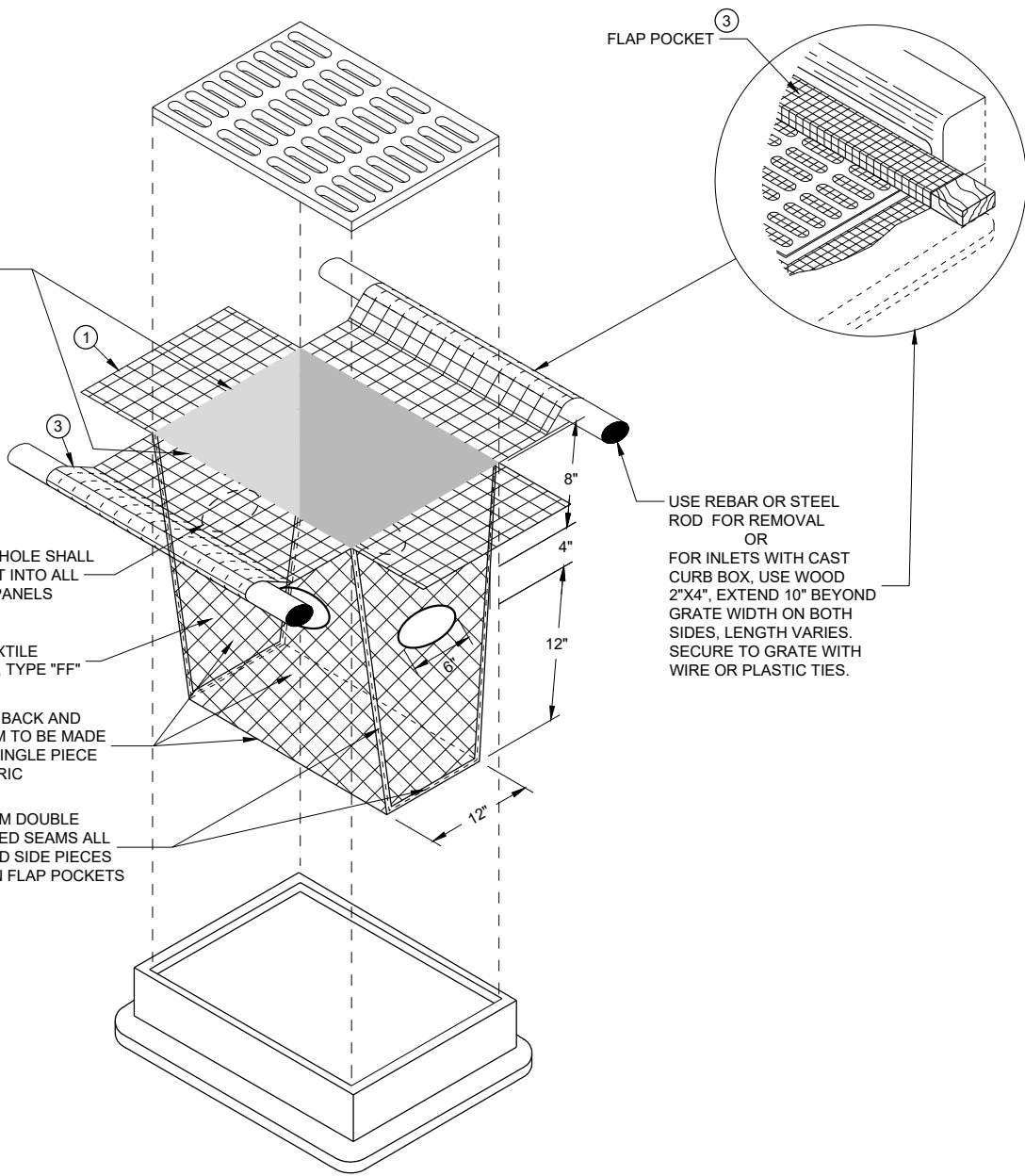
INLET SPECIFICATIONS  
AS PER THE PLAN.  
DIMENSION LENGTH  
AND WIDTH TO MATCH

4" x 6" OVAL HOLE SHALL  
BE HEAT CUT INTO ALL  
FOUR SIDE PANELS

GEOTEXTILE  
FABRIC, TYPE "FF"  
  
FRONT, BACK AND  
BOTTOM TO BE MADE  
FROM SINGLE PIECE  
OF FABRIC

MINIMUM DOUBLE  
STITCHED SEAMS ALL  
AROUND SIDE PIECES  
AND ON FLAP POCKETS

WOOD 2" X 4" EXTENDS 8"  
BEYOND GRATE WIDTH ON  
BOTH SIDES. LENGTH VARIES.  
SECURE TO GRATE WITH  
WIRE OR PLASTIC TIES.



**INLET PROTECTION, TYPE "D"**  
(CAN BE INSTALLED IN ANY INLET WITH OR  
WITHOUT A CURB BOX AS PER NOTE 2)

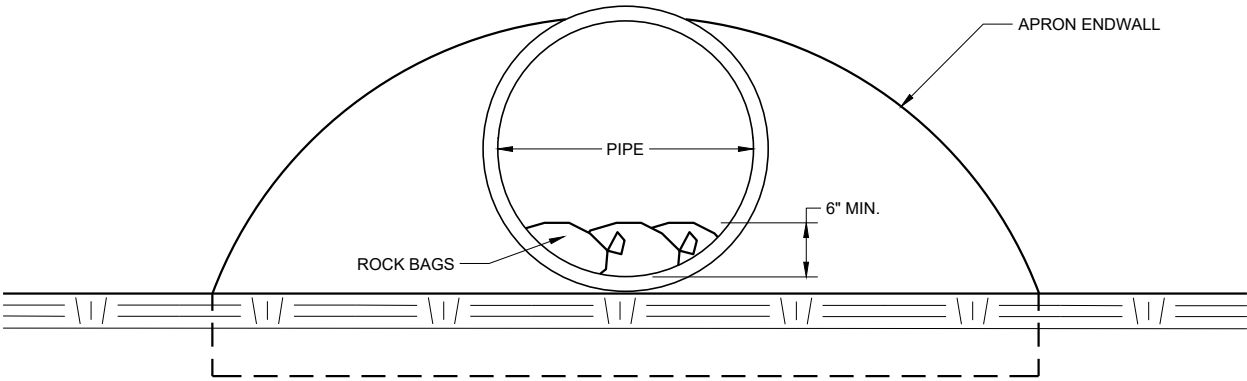
## INLET PROTECTION TYPES A, B, C AND D

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

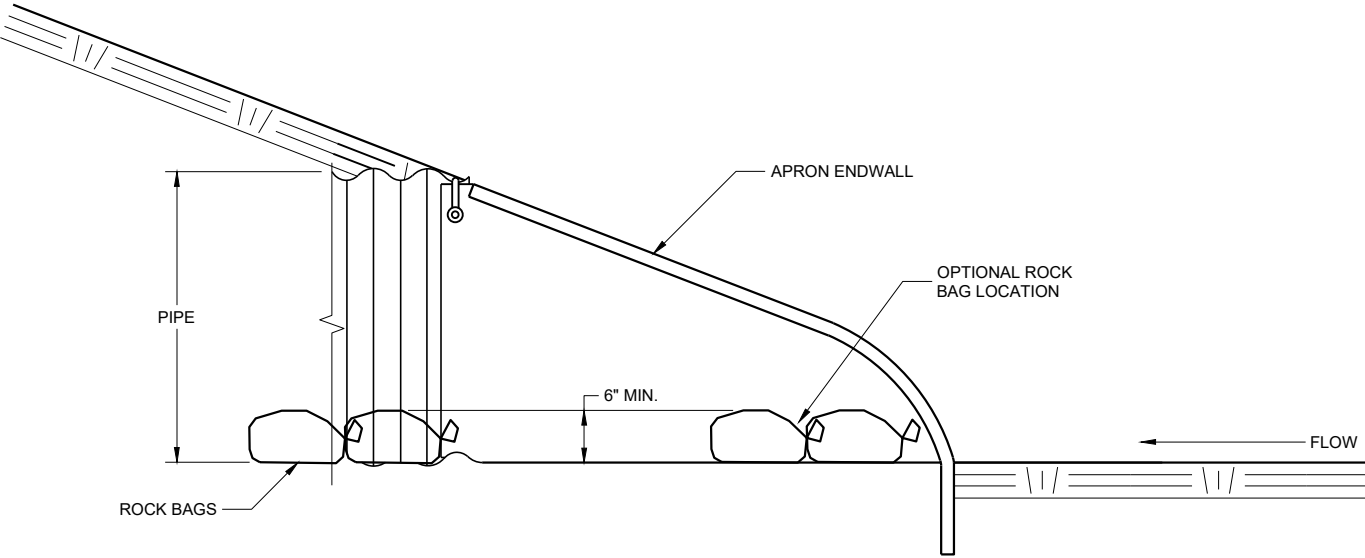
APPROVED 10/16/02 DATE /S/ Beth Cannestra  
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA





END VIEW



SIDE VIEW

**CULVERT PIPE CHECK**  
(INSTALL ON INLET END ONLY)

<b>CULVERT PIPE CHECK</b>		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGINEER	22 40



# SDD 15C04 Traffic Control, Advance Warning Signs 45 MPH or Greater Undivided Road Open to Traffic

## GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

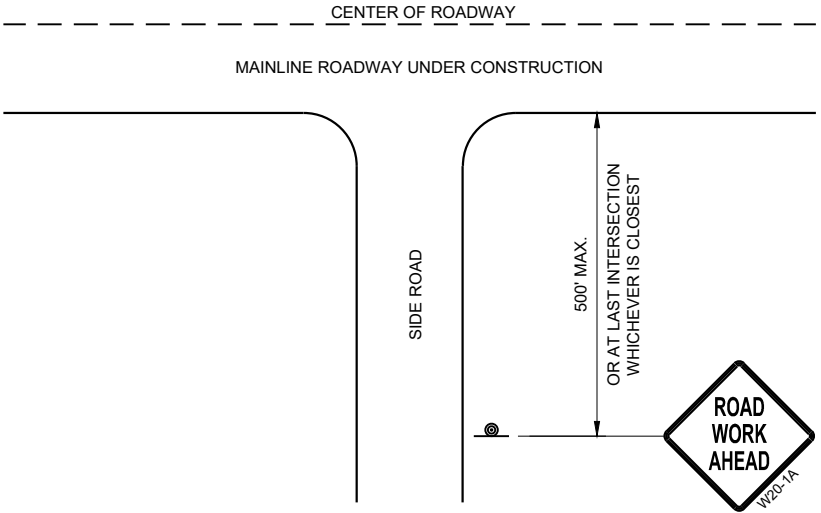
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

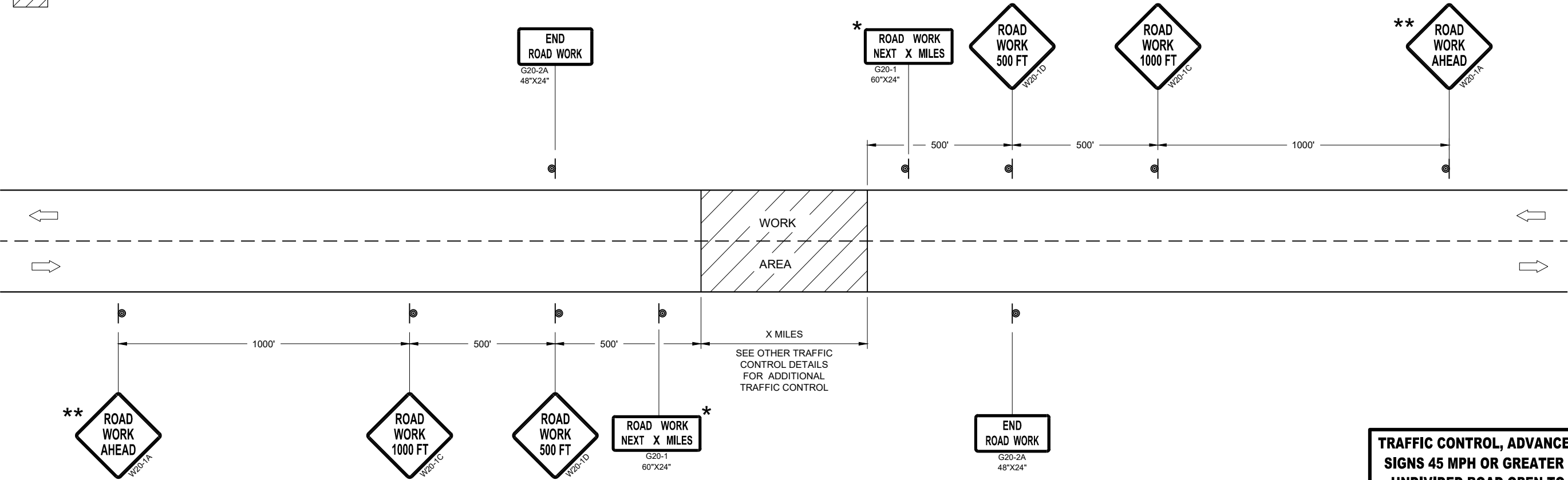
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- ** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

## LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA



TYPICAL SIDE ROAD APPROACH  
WARNING SIGN DETAIL



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING  
SIGNS 45 MPH OR GREATER TWO-WAY  
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
July 2018 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER  
FHWA



# SDD 15C05 Traffic Control, Advance Warning Signs 40 MPH or Less Two Way Undivided Road Open to Traffic

## GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

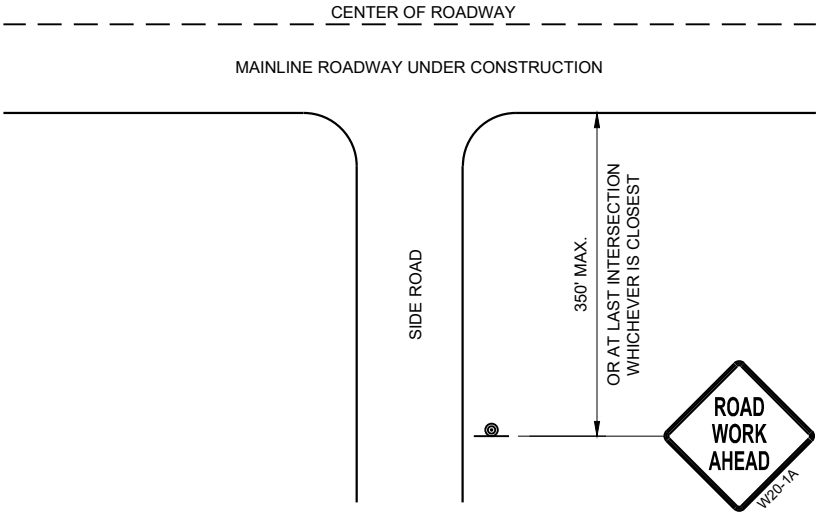
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

## LEGEND

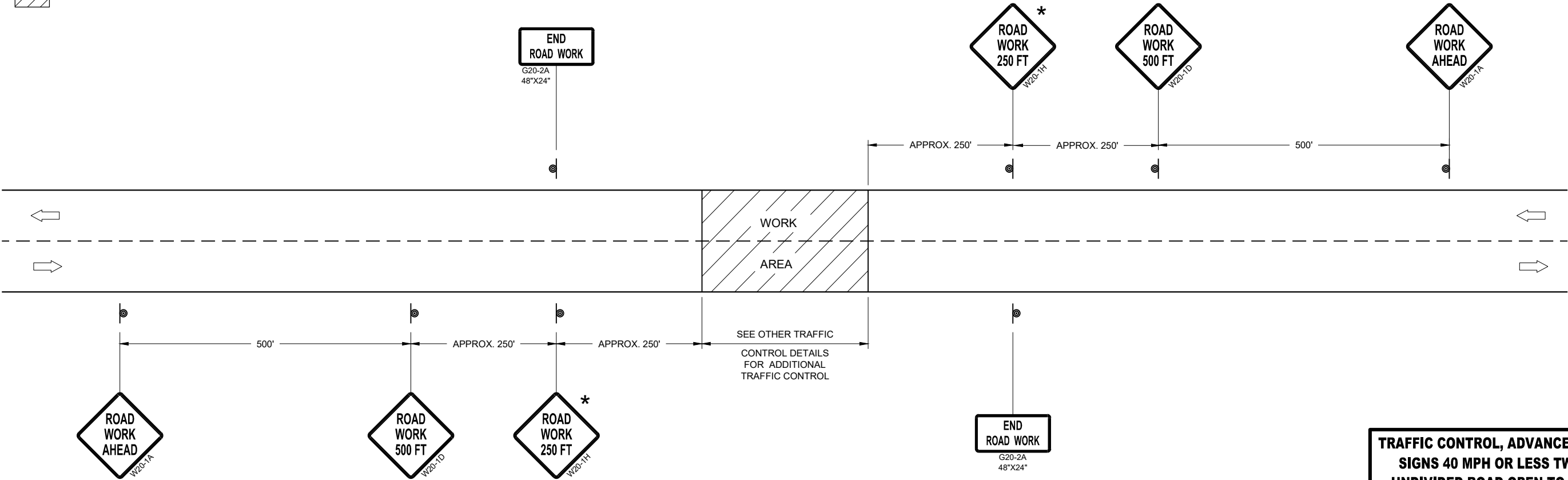
● SIGN ON PERMANENT SUPPORT

➡ DIRECTION OF TRAFFIC

▨ WORK AREA



TYPICAL SIDE ROAD APPROACH  
WARNING SIGN DETAIL



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING  
SIGNS 40 MPH OR LESS TWO-WAY  
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

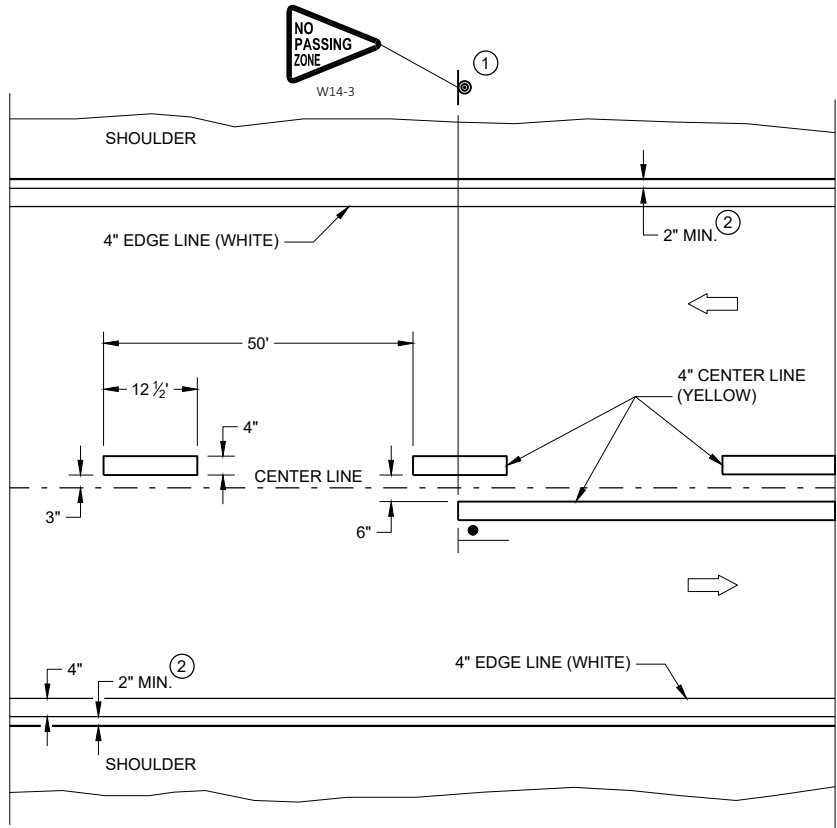
APPROVED  
July 2018 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

FHWA

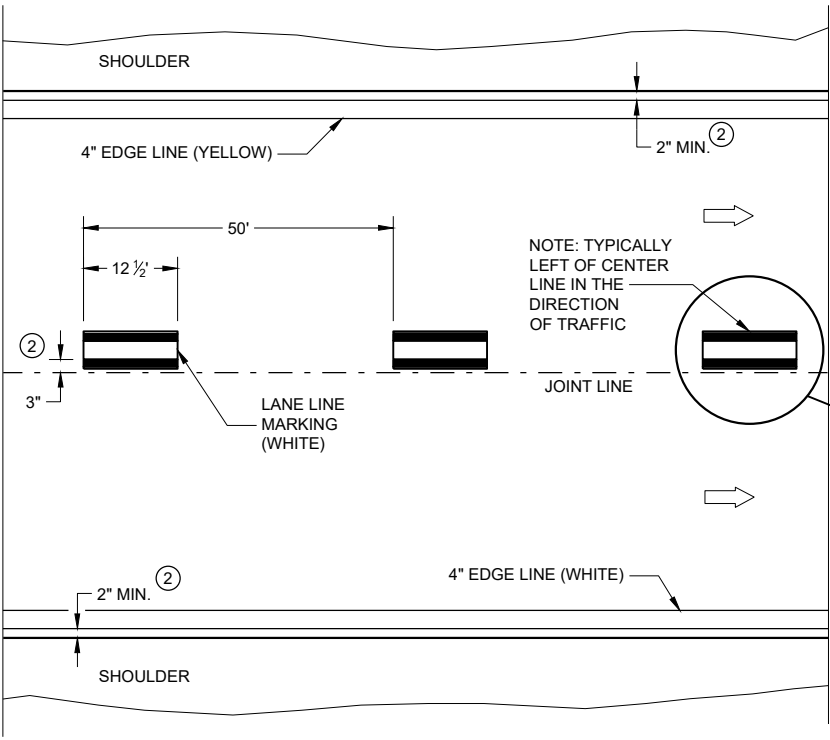
24

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TWO WAY TRAFFIC



ONE WAY TRAFFIC

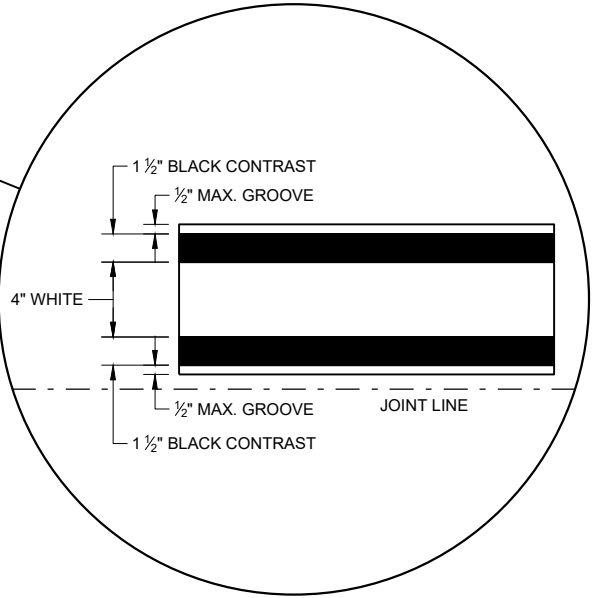
GENERAL NOTES

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

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



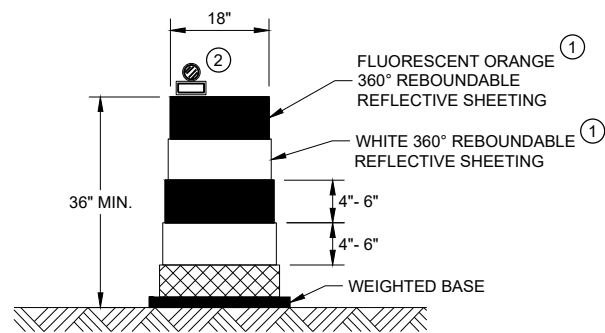
PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

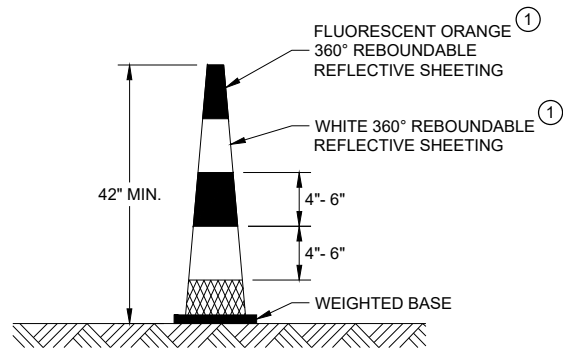
APPROVED  
November 2022  
DATE  
/S/ Jeannie Silver  
STATEWIDE SIGNING AND MARKING  
ENGINEER  
25  
40

FHWA



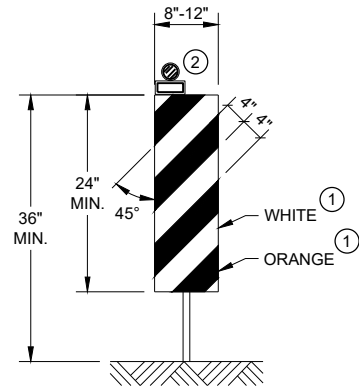
**DRUM**

BALLAST WIDTHS  
RANGE FROM 24"-36"



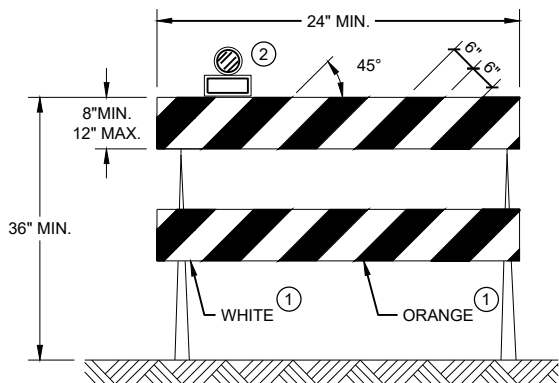
**42" CONE**

DO NOT USE IN TAPERS  
½ SPACING OF DRUMS  
BALLAST WIDTHS  
RANGE FROM 14"-20"



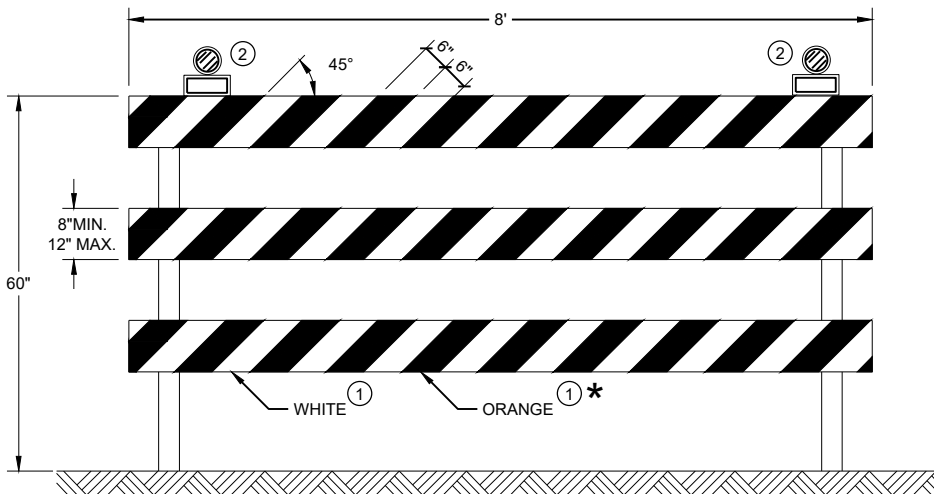
**VERTICAL PANEL**

THE STRIPES SHALL SLOPE DOWNWARD TO  
THE TRAFFIC SIDE FOR CHANNELIZATION.



**TYPE II BARRICADE**

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES  
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD  
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



**TYPE III BARRICADE**

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP  
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**GENERAL NOTES**

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

**CHANNELIZING DEVICES  
DRUMS, CONES, BARRICADES  
AND VERTICAL PANELS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2022 /S/ Andrew Heidtke 26  
DATE WORK ZONE ENGINEER 40  
FHWA



# SDD 15C12-a Traffic Control for Lane Closure With Flagging Operation

## LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TEMPORARY PORTABLE RUMBLE STRIP ARRAY
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

## GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

## FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

## TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

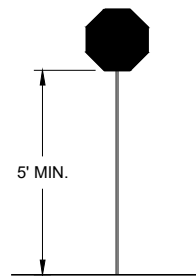
- EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



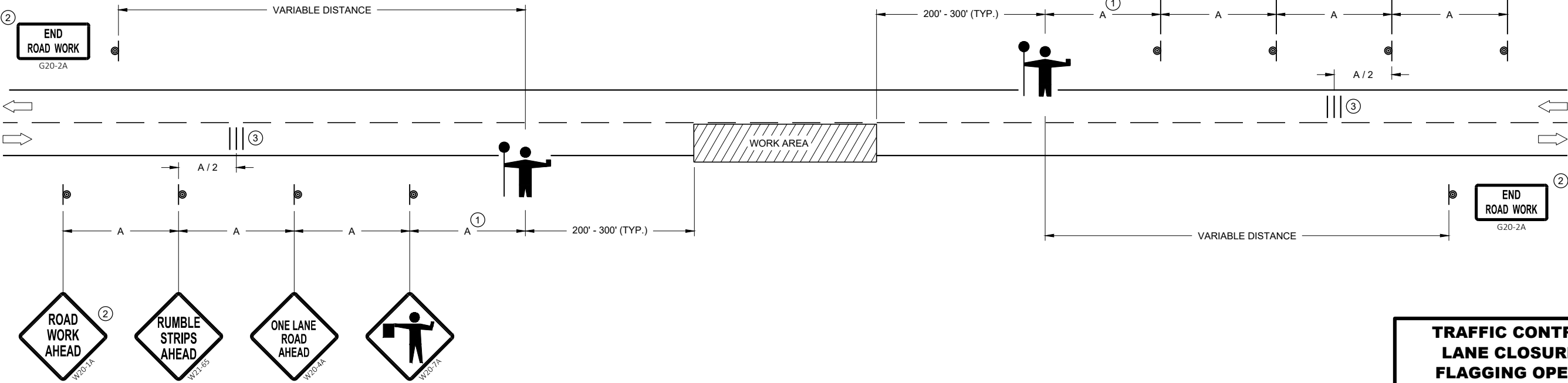
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



## TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
DATE May 2022 /S/ Andrew Heidtke  
WORK ZONE ENGINEER

FHWA







# SDD 15D12-a Traffic Control, Lane Closure

## GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

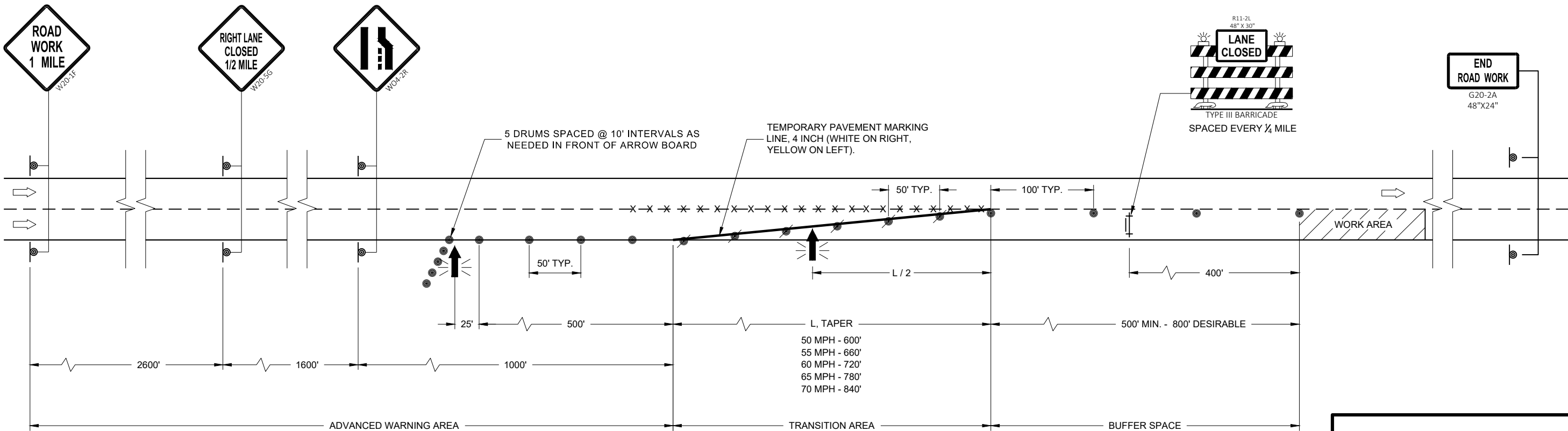
NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

## LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD

6



6

SDD 15D12 - 10a

SDD 15D12 - 10a

## TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2022 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

29

40

FHWA



# SDD 15D28 Traffic Control, Work on Shoulder or Parking Lane, Undivided Roadway

### LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

### GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

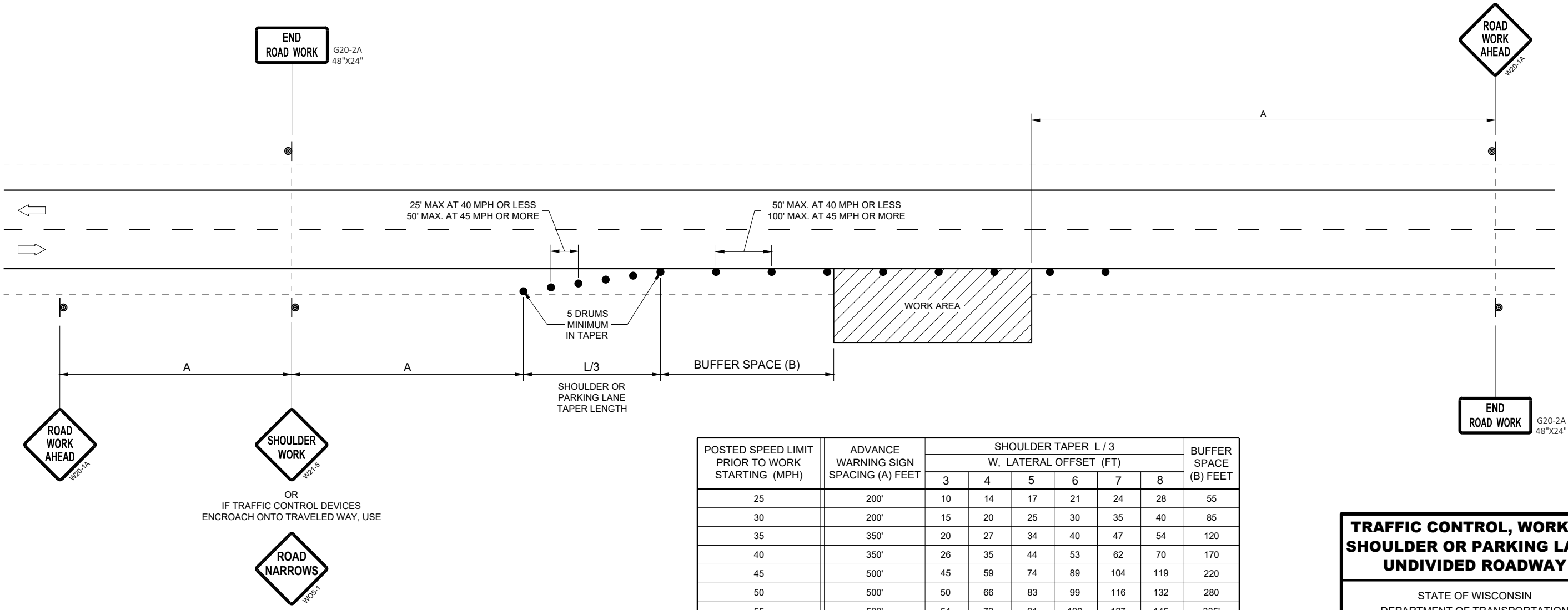
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

6

6



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3						BUFFER SPACE (B) FEET
		W, LATERAL OFFSET (FT)						
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

### TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2020 /S/ Andrew Heidtke  
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

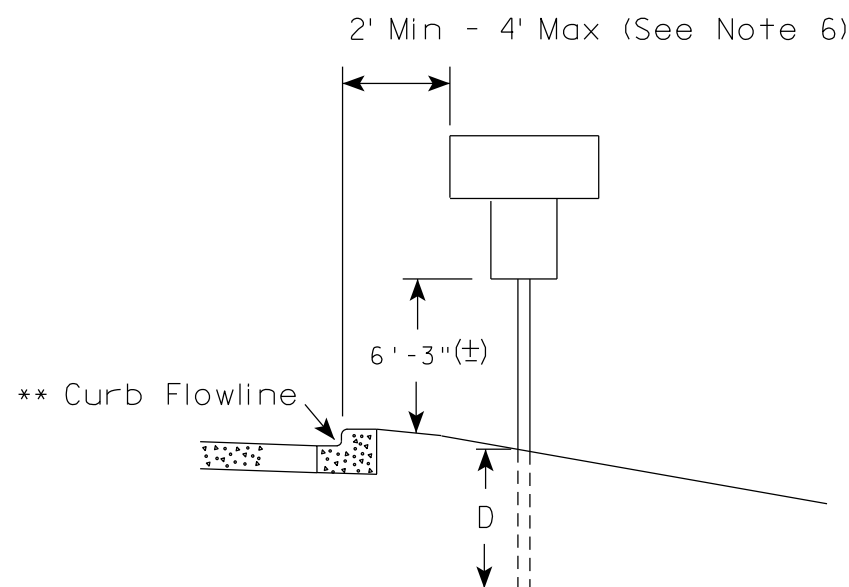
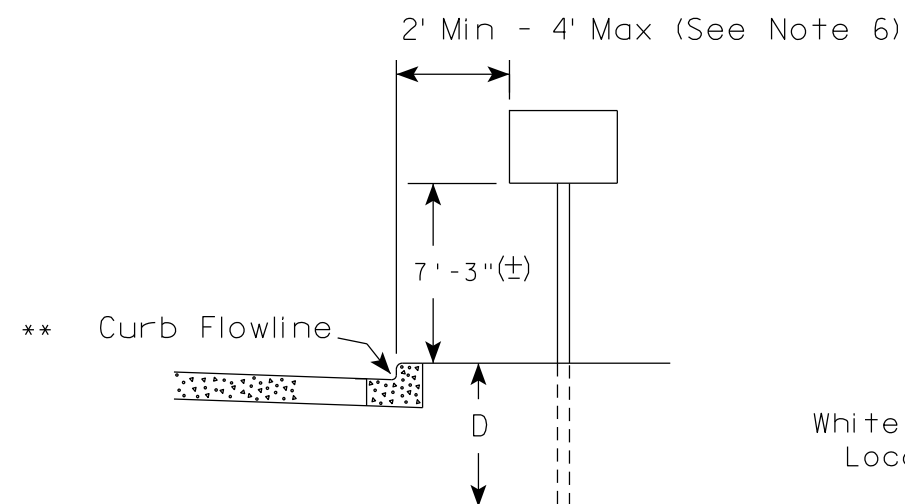
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SDD 15D28 - 04

SDD 15D28 - 04

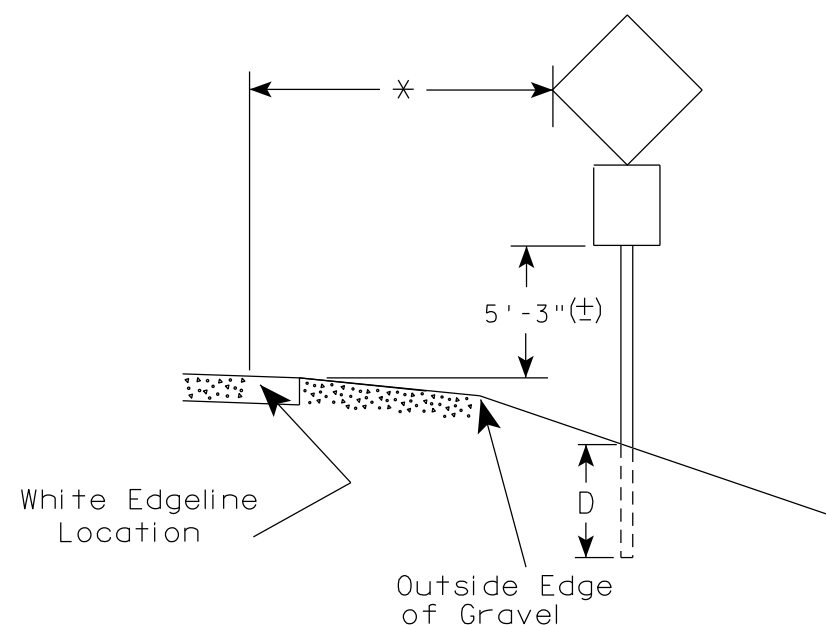
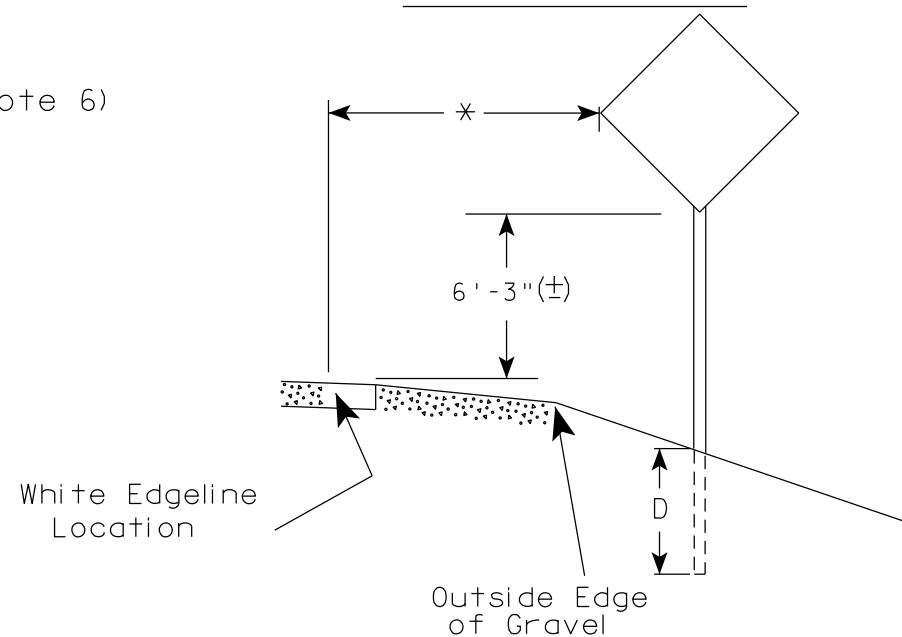


# URBAN AREA



✱✱ The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

# RURAL AREA (See Note 2)



✱ 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

## POST EMBEDMENT DEPTH

Area of Sign Installation ( Sq. Ft. )	D ( Min )
20 or Less	4'
Greater than 20	5'

## GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.  
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.

## TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

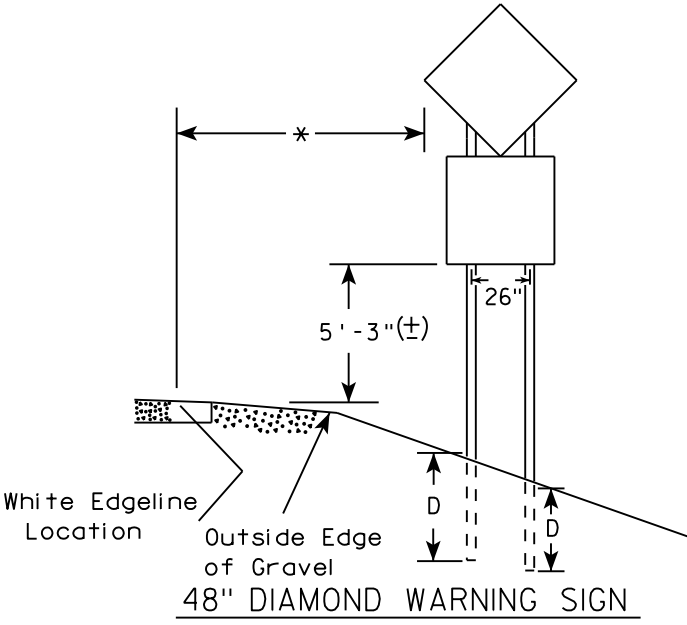
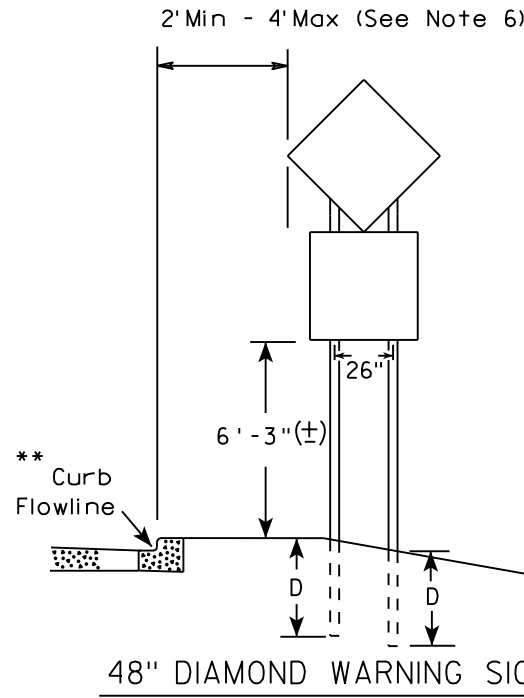
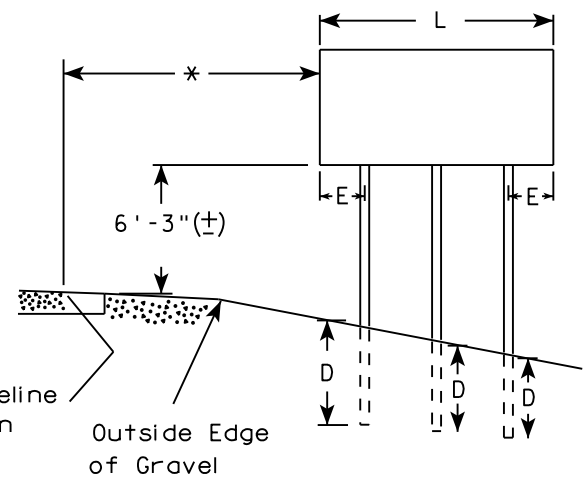
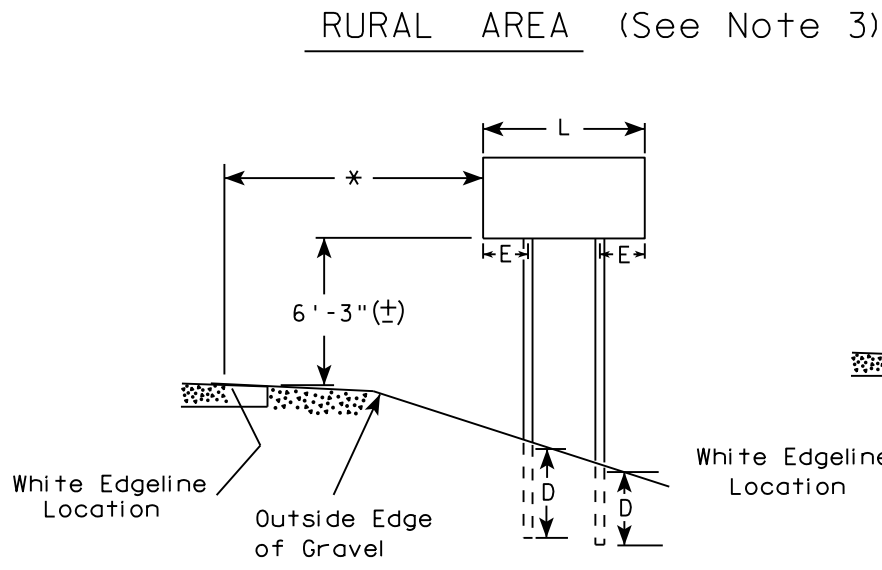
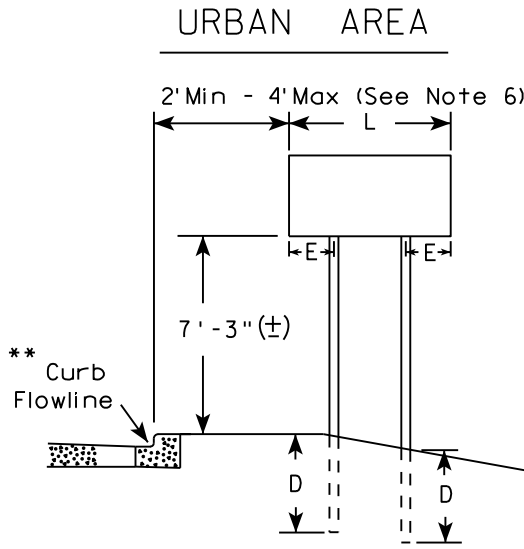
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

31  
40 E



***

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

Area of Sign Installation ( Sq. Ft. )	D ( Min )
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION  
OF TYPE II SIGNS  
ON MULTIPLE POSTS

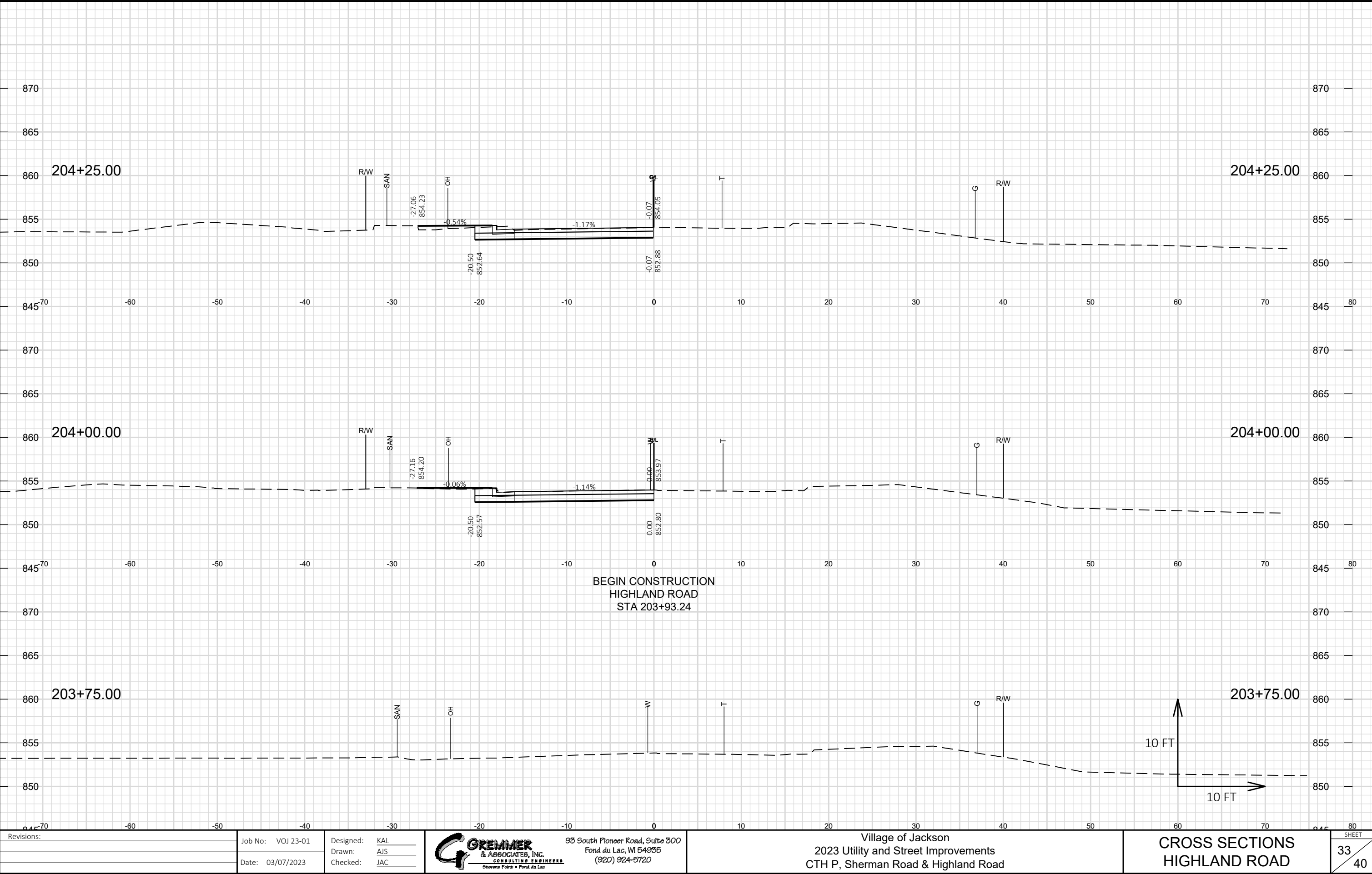
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

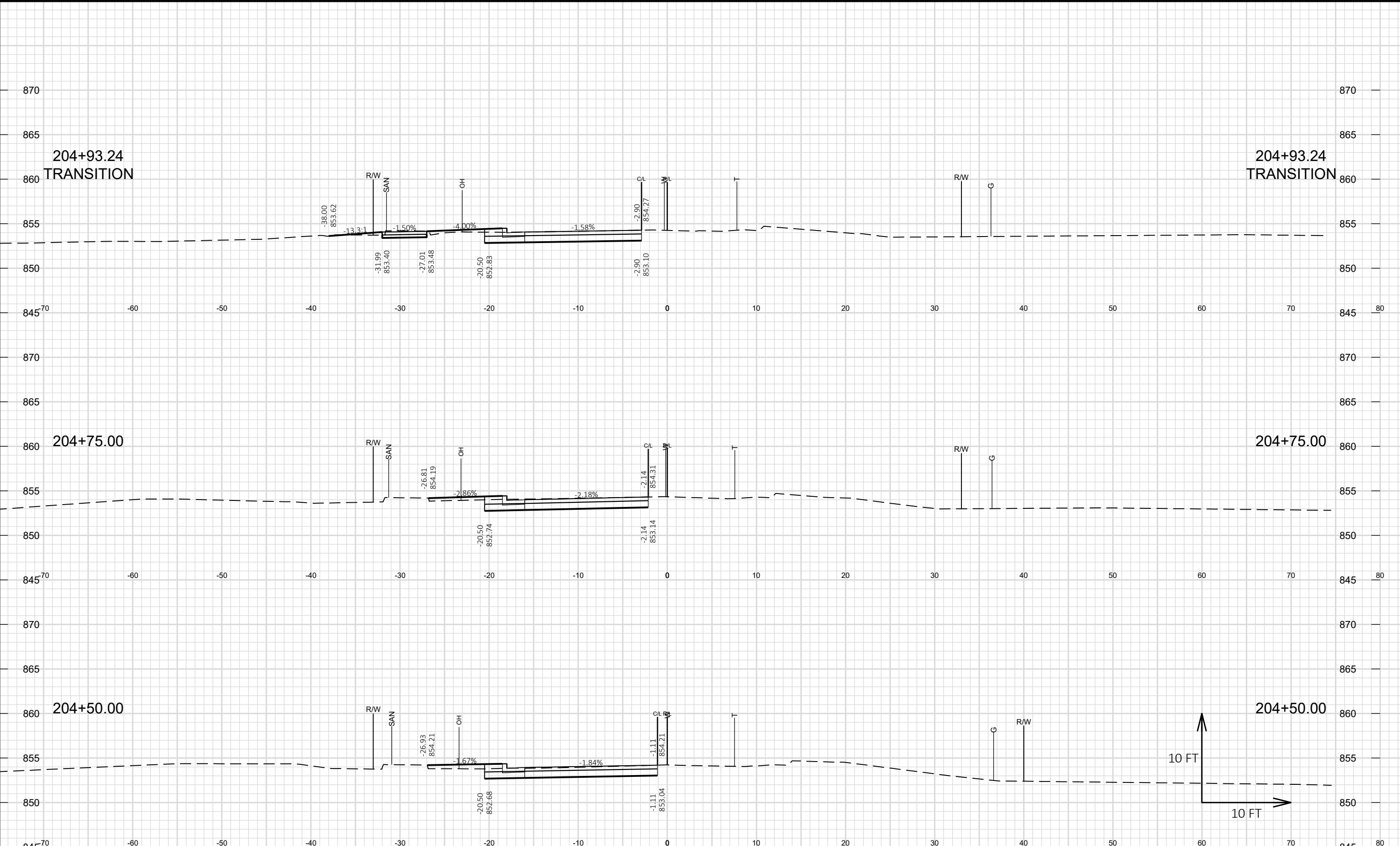
- GENERAL NOTES
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
  2. See tables below for required number of posts.
  3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
  4. The (±) tolerance for mounting height is 3 inches.
  5. J-Assemblies are considered to be one sign for mounting height.
  6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
  7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
  8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- *** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

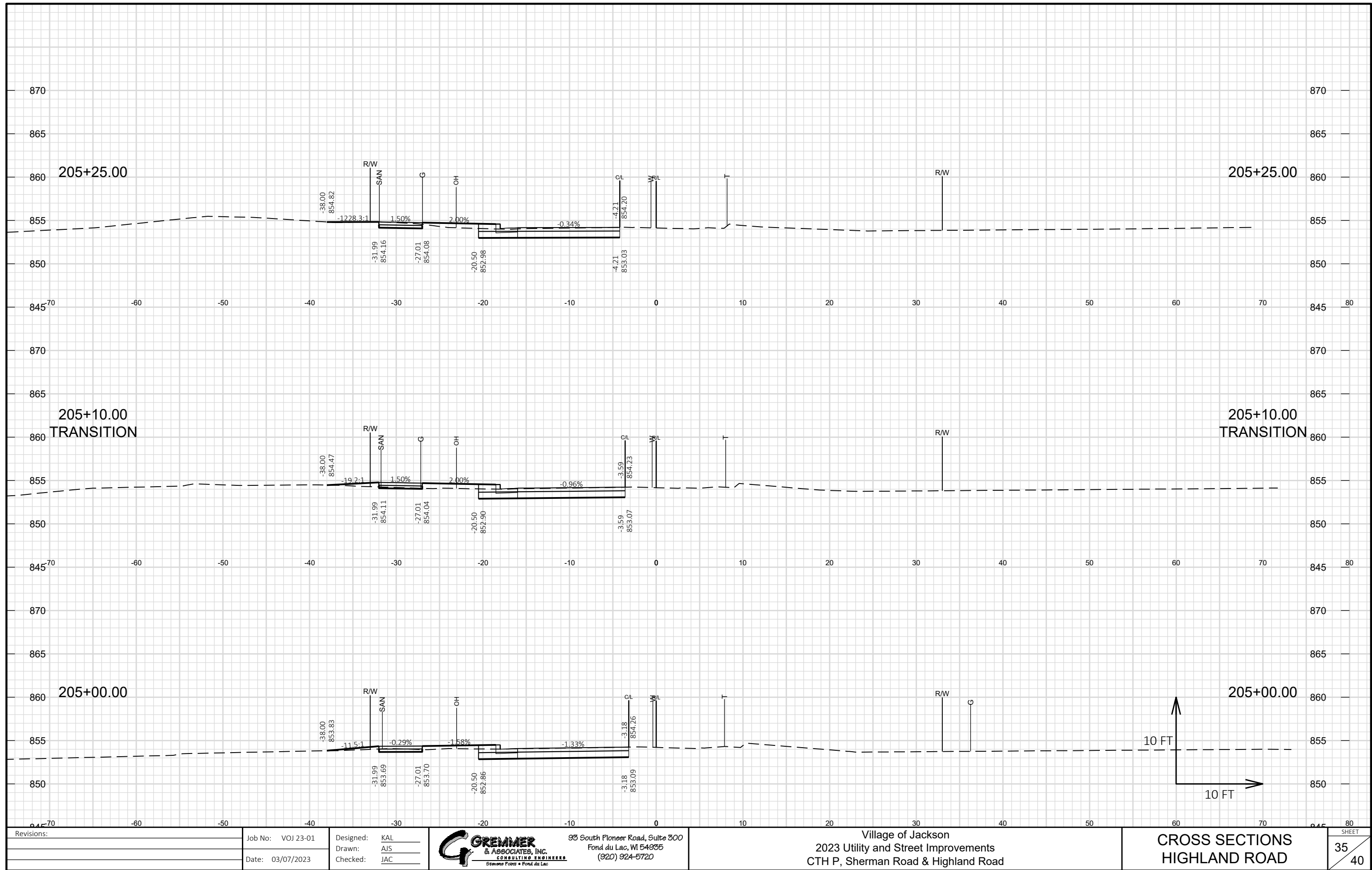


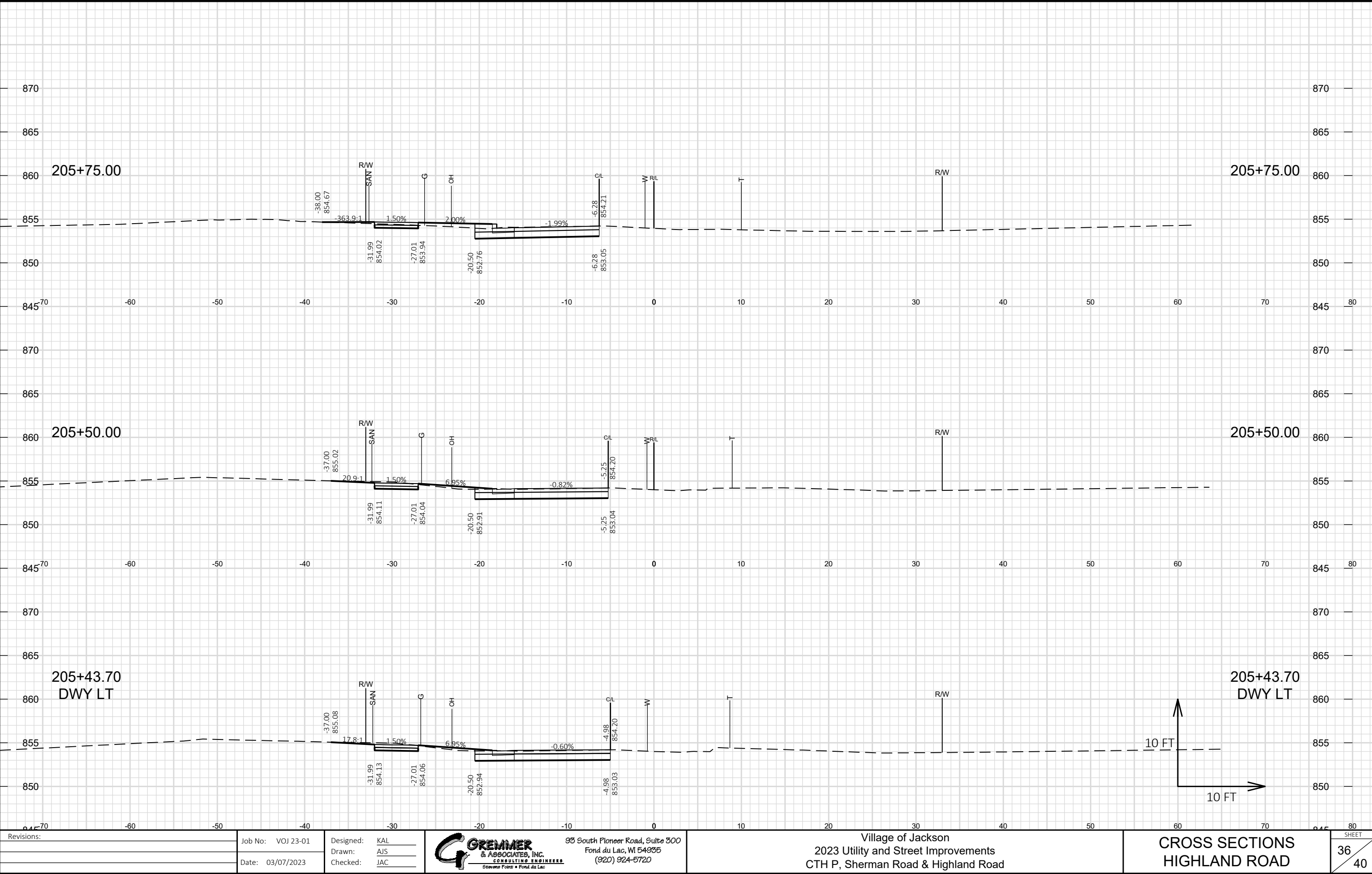
Revisions:	Job No: VOJ 23-01	Designed: <u>KAL</u>	  93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	CROSS SECTIONS HIGHLAND ROAD	SHEET
	Drawn: <u>AJS</u>	Checked: <u>JAC</u>				33
	Date: 03/07/2023					40





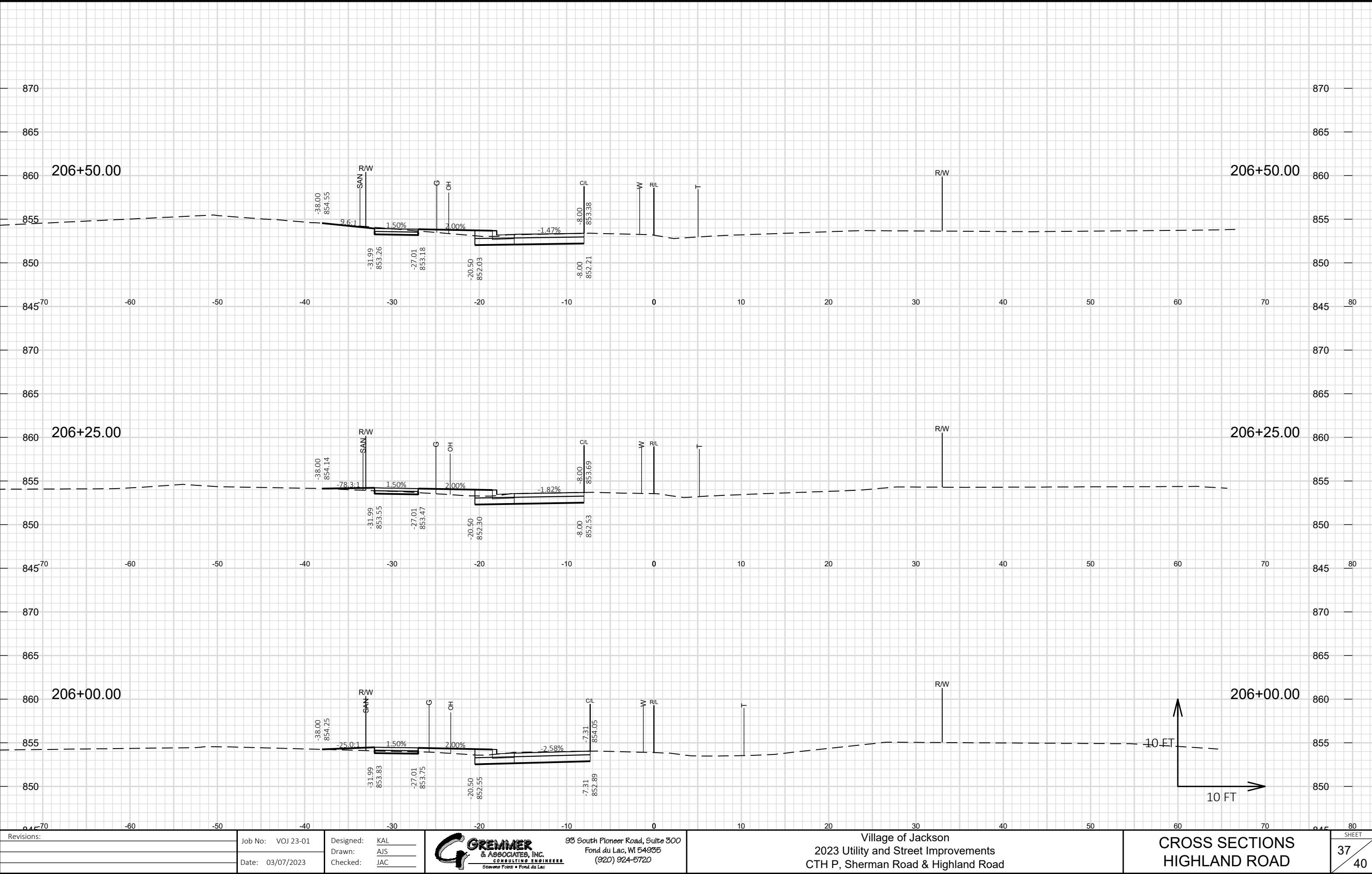
Revisions:	Job No: VOJ 23-01	Designed: KAL	  93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	CROSS SECTIONS HIGHLAND ROAD	SHEET
		Drawn: AJS				34
	Date: 03/07/2023	Checked: JAC				40



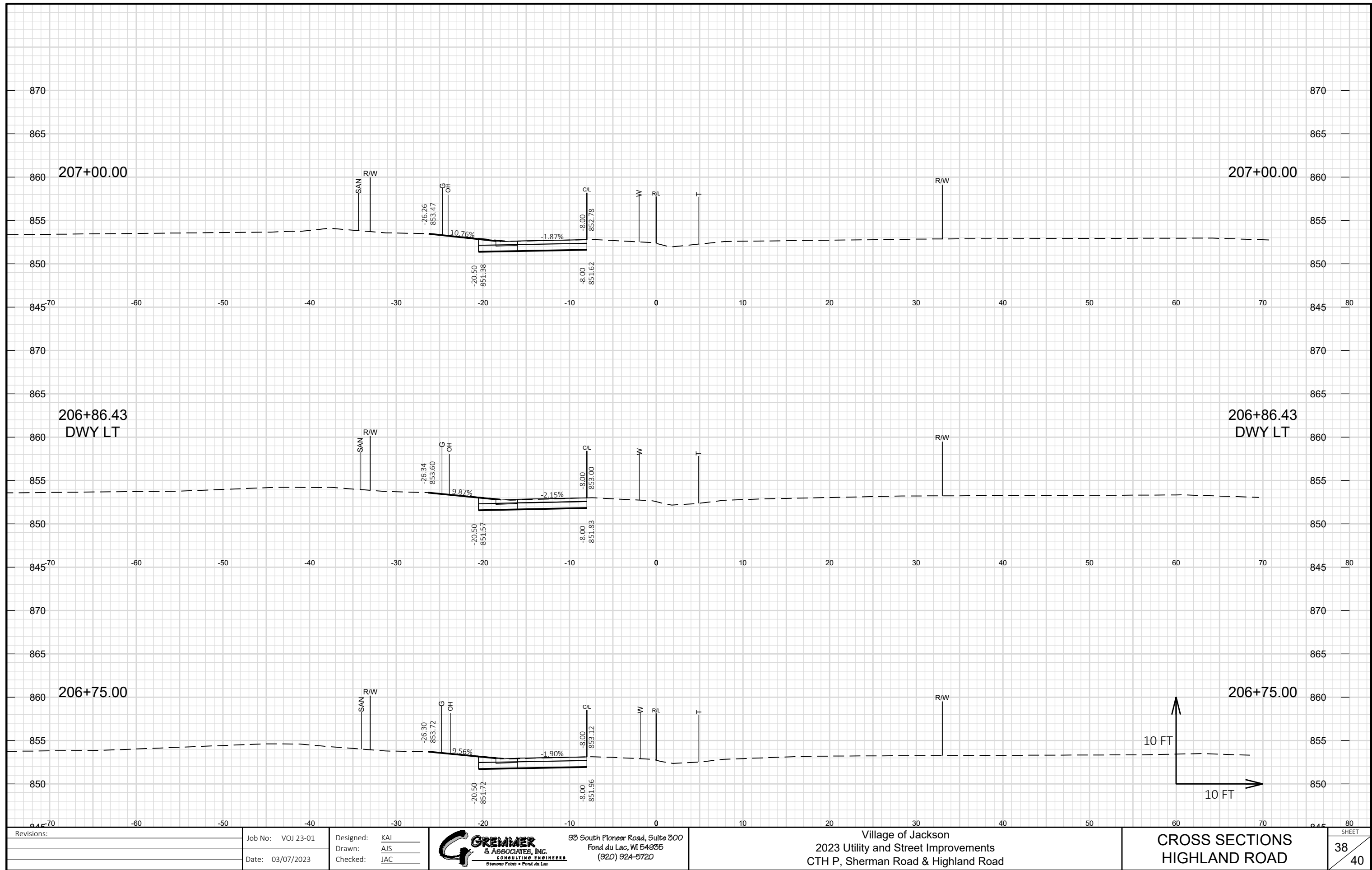


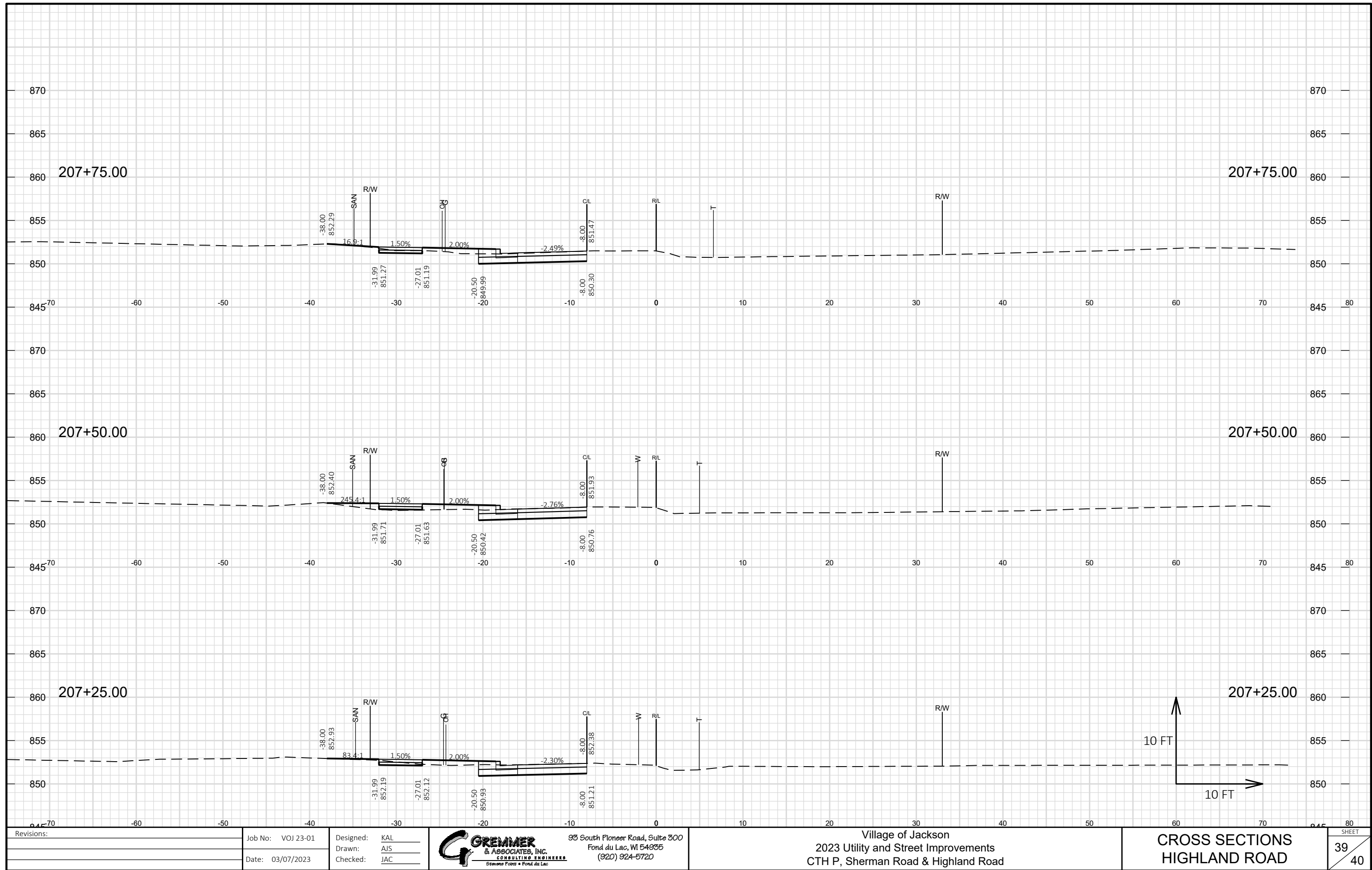
Revisions:	Job No: VOJ 23-01	Designed: KAL	 93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	CROSS SECTIONS HIGHLAND ROAD	SHEET 36 40
	Drawn: AJS	Checked: JAC				
	Date: 03/07/2023					



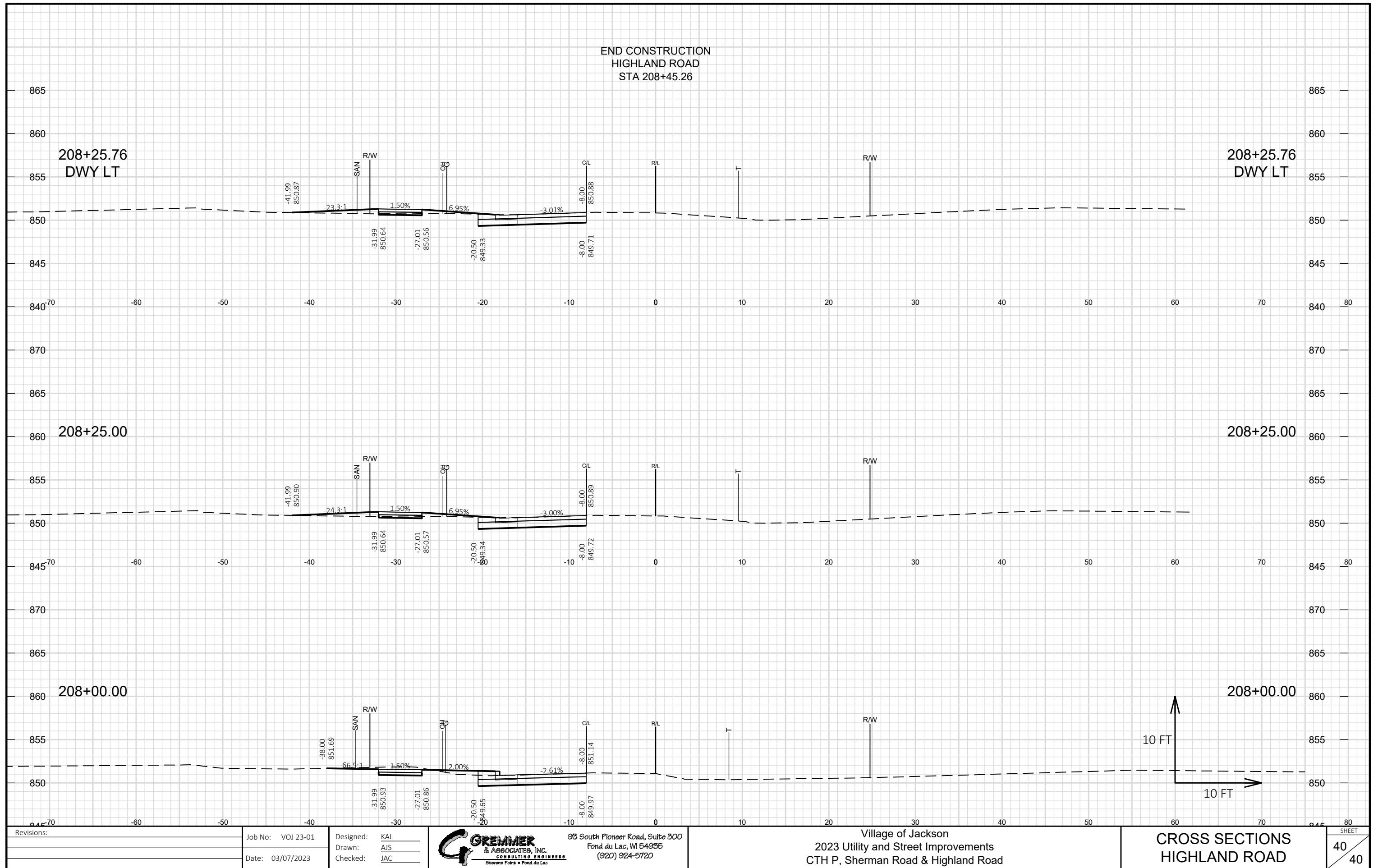


Revisions:	Job No: VOJ 23-01	Designed: <u>KAL</u>	  93 South Pioneer Road, Suite 300 Fond du Lac, WI 54935 (920) 924-5720	Village of Jackson 2023 Utility and Street Improvements CTH P, Sherman Road & Highland Road	CROSS SECTIONS HIGHLAND ROAD	SHEET
	Drawn: <u>AJS</u>	Checked: <u>JAC</u>				37
	Date: 03/07/2023					40









## RESOLUTION #23-06

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### **PRELIMINARY RESOLUTION DECLARING INTENT TO EXERCISE SPECIAL ASSESSMENT POLICE POWERS, UNDER SECTION 66.0703 OF THE WISCONSIN STATUTES**

---

**WHEREAS**, the Village Board of the Village of Jackson, Washington County, Wisconsin is pursuing the construction and reconstruction of public improvements consisting of pavement; curb and gutter; and sidewalks and the related improvements and expenses for the benefit of the properties described on Exhibit A hereto.

**BE IT RESOLVED**, by the Village Board of the Village of Jackson, Washington County, Wisconsin:

1. The Village Board hereby declares its intention to exercise its police power under Section 66.0703 of the Wisconsin Statutes to levy special assessments upon the properties described in Exhibit A hereto, for special benefits conferred upon such property by the construction of public improvements consisting of pavement; curb and gutter; and sidewalks and the related improvements and expenses.
2. The Village Board hereby determines that the construction of such improvements is in the best interest of, and for the health and welfare of the municipality and the property benefited by the improvements, and therefore constitutes an exercise of the police power.
3. The amount of such assessments shall be determined and levied upon completion of the construction of pavement; curb and gutter; and sidewalks and the related improvements and expenses.
4. The number of installments, rate of interest, and the terms of payment will be included in the Final Resolution after the Public Hearing, which will be held upon completion of the project, when final costs have been determined.
5. Every Special Assessment levied under this Resolution, shall be a lien against the property assessed, from the date of the Final Resolution of the Village Board determining the levy.
6. The Village Engineer shall prepare a report consisting of the following:
  - a. Preliminary of the final plans and specifications for the Public Works.
  - b. An estimate of the entire cost of the proposed improvements.
  - c. A schedule of the proposed properties against which the assessments are to benefit.

- d. A statement that each property against which the assessments are proposed, has been inspected and is benefited, setting forth the basis of such benefit.
- e. Upon completion of the report, the Village Engineer shall file a copy with the Village Clerk, and with the Village Treasurer.

7. The Village Clerk shall make a copy of the report available for public inspection.

Introduced by: _____ Seconded by: _____

Vote: _____ ayes _____ nays Passed and Approved: _____

_____  
Michael E. Schwab - Village President

Attest: _____  
Jilline S. Dobratz - Village Clerk

Proof of Posting:

I the undersigned, certify that I posted this Resolution on bulletin boards at the Village Hall, Post Office and one other location in the Village.

_____  
Village Official

_____  
Date





0 0.02 0.04 0.08 mi

0 0.0325 0.065 0.13 km

1:2,478



## RESOLUTION #23-07

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### **PRELIMINARY RESOLUTION DECLARING INTENT TO EXERCISE SPECIAL ASSESSMENT POLICE POWERS, UNDER SECTION 66.0703 OF THE WISCONSIN STATUTES**

---

**WHEREAS**, the Village Board of the Village of Jackson, Washington County, Wisconsin is pursuing the construction and reconstruction of public improvements consisting of sanitary sewer mains; sanitary sewer lateral; pavement; and restoration and the related improvements and expenses for the benefit of the properties described on Exhibit A hereto.

**BE IT RESOLVED**, by the Village Board of the Village of Jackson, Washington County, Wisconsin:

1. The Village Board hereby declares its intention to exercise its police power under Section 66.0703 of the Wisconsin Statutes to levy special assessments upon the properties described in Exhibit A hereto, for special benefits conferred upon such property by the construction of public improvements consisting of water and sanitary sewer mains; storm sewers; pavement; curb and gutter; and sidewalks and the related improvements and expenses.
2. The Village Board hereby determines that the construction of such improvements is in the best interest of, and for the health and welfare of the municipality and the property benefited by the improvements, and therefore constitutes an exercise of the police power.
3. The amount of such assessments shall be determined and levied upon completion of the construction of public improvements consisting of sanitary sewer mains; sanitary sewer lateral; pavement; and restoration and the related improvements and expenses.
4. The number of installments, rate of interest, and the terms of payment will be included in the Final Resolution after the Public Hearing, which will be held upon completion of the project, when final costs have been determined.
5. Every Special Assessment levied under this Resolution, shall be a lien against the property assessed, from the date of the Final Resolution of the Village Board determining the levy.
6. The Village Engineer shall prepare a report consisting of the following:
  - a. Preliminary of the final plans and specifications for the Public Works.
  - b. An estimate of the entire cost of the proposed improvements.

- c. A schedule of the proposed properties against which the assessments are to benefit.
  - d. A statement that each property against which the assessments are proposed, has been inspected and is benefited, setting forth the basis of such benefit.
  - e. Upon completion of the report, the Village Engineer shall file a copy with the Village Clerk, and with the Village Treasurer.
7. The Village Clerk shall make a copy of the report available for public inspection.

Introduced by: _____ Seconded by: _____

Vote: ____ ayes ____ nays Passed and Approved: _____

_____  
Michael E. Schwab - Village President

Attest: _____  
Jilline S. Dobratz - Village Clerk

Proof of Posting:

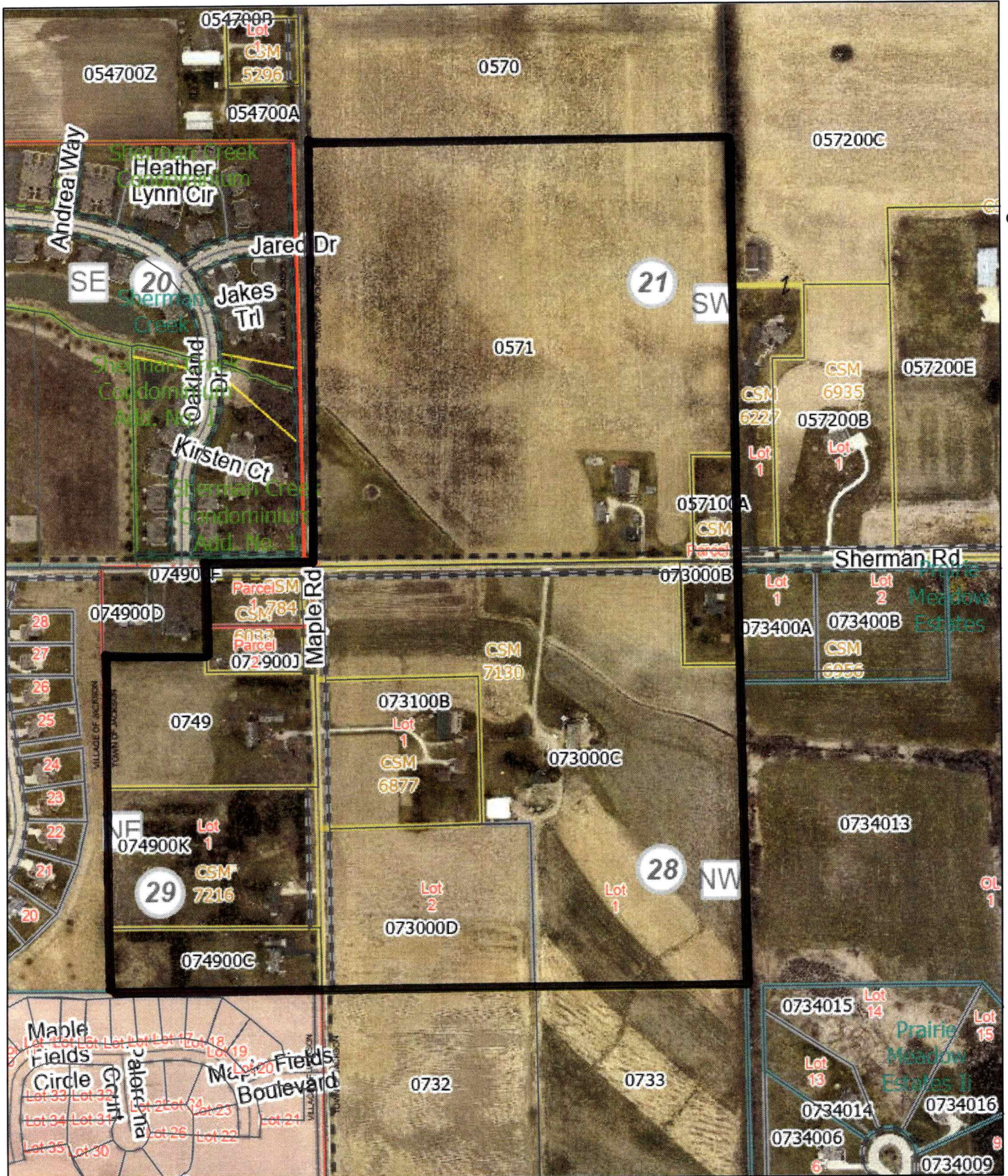
I the undersigned, certify that I posted this Resolution on bulletin boards at the Village Hall, Post Office and one other location in the Village.

_____  
Village Official

_____  
Date



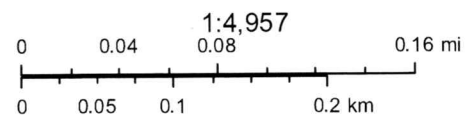
N  
A



3/24/2023, 9:22:56 AM

- Current Parcel
- Railroad Centerlines
- Road Centerline I, USH
  - Interstate Highway, I-41
  - US Highway Hwy 45 US Highway Fond Du Lac Ave

- State Highway
- County Highway
- Parcel Taxkey & Acreage
- Dimensions
  - Parcel Dimension







93 South Pioneer Road, Suite 300  
Fond du Lac, WI 54935  
Phone 920-924-5720  
Fax 920-924-5725

March 23, 2023

Village of Jackson  
W194 N16660 Eagle Drive  
Jackson, WI 53037

Attention: Brian Kober, P.E.  
Director of Public Works

Subject: Project: VOJ 22-01  
STH 60 Utility Upgrades  
CTH P – Ridgeway Drive  
Pay Request #2

Dear Mr. Kober:

Enclosed you will find Pay Request #2 for the STH 60 Utility Upgrades project in the Village of Jackson. The total amount, due to the contractor, has been reduced by five percent (5%) for retainage but not to exceed maximum retainage. This is per Article 6.02.A.1 Progress Payments; Retainage, of Contract Document 00500, Agreement:

Work completed, Pay Request #2	= \$168,376.35
Retainage, Pay Request #8363.82 (5%)	= \$8,418.82
Amount due to Contractor, Pay Request #2	= \$159,957.53

If you have any questions or comments, please contact me at (920) 924-5720.

Sincerely,

A handwritten signature in blue ink that reads 'Todd Drew'.

Todd Drew  
Project Inspector  
Gremmier & Associates, Inc.

# Progress Estimate - Unit Price Work

# Contractor's Application for Payment No.

2

For (Project): ST 60								Application Date: 3/24/2023				
Application Period: 2/24/23 - 3/17/23												
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date	
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)	Value of Stored Materials(\$)	Estimated Quantity Installed	Value of Work Installed (\$)
100-01	Removing curb	LF	6	7.00	42.00							
100-02	Removing Curb & Gutter	LF	675	5.00	3,375.00							
100-03	Removing Concrete Sidewalk and Driveways	SY	945	5.00	4,725.00	13.34	\$66.70	28.43	\$142.15		41.77	\$208.85
100-04	Base Aggregate Dense 1 1/4-inch	TON	1480	15.80	23,384.00							
100-05	Base Aggregate Open-Graded	TON	1100	23.00	25,300.00							
100-06	Concrete Driveway 6-inch	SY	330	75.65	24,964.50							
100-07	Concrete Driveway 8-inch	SY	80	77.00	6,160.00							
100-08	Drilled Tie Bars	EA	545	9.00	4,905.00							
100-09	HMA Pavement 3 MT 58-28 S	TON	1030	275.00	283,250.00							
100-10	HMA Pavement 4 MT 58-28 S	TON	31	510.00	15,810.00							
100-11	Asphaltic Surface	TON	17	510.00	8,670.00							
100-12	Asphaltic Surface Driveways and Field Entrances	TON	42	510.00	21,420.00							
100-13	Concrete Cur Type D	LF	6	48.00	288.00							
100-14	Concrete Curb & Gutter 30-inch Type D	LF	675	42.75	28,856.25							
100-15	Concrete Sidewalk 5-inch	SF	4785	8.00	38,280.00							
100-16	Concrete Steps	SF	30	55.00	1,650.00							

# Progress Estimate - Unit Price Work

# Contractor's Application for Payment No.

2

For (Project): ST 60								Application Date: 3/24/2023				
Application Period: 2/24/23 - 3/17/23												
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date	
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)	Value of Stored Materials(\$)	Estimated Quantity Installed	Value of Work Installed (\$)
100-17	Pipe Underdrain Wrppped 4-inch	LF	580	55.00	31,900.00							
100-18	Moblization	EA	1	35,000.00	35,000.00							
100-19	Lawn Restoration	SY	1485	10.00	14,850.00							
100-20	Inlet Protection Type C	EA	35	55.00	1,925.00	12.00	\$660.00	20.00	\$1,100.00		32.00	\$1,760.00
100-21	Geotextile Type SAS	SY	915	2.50	2,287.50							
100-22	Marking Line Pain 4-inch	LF	6405	1.35	8,646.75							
100-23	Marking Line Pain 8-inch	LF	155	2.55	395.25							
100-24	arking Arrow Paint	EA	4	95.00	380.00							
100-25	Marking Word Paint	EA	1	125.00	125.00							
100-26	Marking Railroad Crossing Paint	EA	2	450.00	900.00							
100-27	Marking Stop Line Paint 18-inch	LF	45	5.85	263.25							
100-28	Marking Diagonal Paint 6-inch	LF	6	2.25	13.50							
100-29	Marking Crosswalk Paint Transverse Line 6-inch	LF	140	2.25	315.00							
100-30	Marking Crosswalk Paint Block Style 24-inch	LF	25	7.75	193.75							
100-31	Conduit Loop Detector	LF	224	16.50	3,696.00							
100-32	Loop Detector Wire	LF	800	2.35	1,880.00							



# Progress Estimate - Unit Price Work

# Contractor's Application for Payment No.

2

For (Project): ST 60								Application Date: 3/24/2023				
Application Period: 2/24/23 - 3/17/23												
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date	
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)	Value of Stored Materials(\$)	Estimated Quantity Installed	Value of Work Installed (\$)
100-33	Sawing Asphalt	LF	9,030	2.00	18,060.00	15.00	\$30.00	2,274.10	\$4,548.20		2,289.10	\$4,578.20
100-34	Sawing Concrete	LF	2660	3.00	7,980.00	25.00	\$75.00	72.00	\$216.00		97.00	\$291.00
100-35	Remove and Replace Retaining Wall	LS	1	8,990.00	8,990.00							
100-36	Traffic Control and Detour	LS	1	25,000.00	25,000.00	0.25	\$6,250.00	0.25	\$6,250.00		0.50	\$12,500.00
100-37	Excavating, Hauling, and Disposal of Contaminated Soil	TON	990	45.00	44,550.00							
200-01	Remove and Replace Sanitary Manhole Casting and Adjustment Rings	EA	27	4,500.00	121,500.00			1.00	\$4,500.00		1.00	\$4,500.00
200-02	Connect to Existing Sanitary Sewer Manhole	EA	1	2,000.00	2,000.00							
200-03	Connect to Existing Sanitary Sewer Main	EA	3	2,000.00	6,000.00			2.00	\$4,000.00		2.00	\$4,000.00
200-04	Sanitary Sewer PVC 10-inch, Granular Backfill	LF	232	200.00	46,400.00			70.00	\$14,000.00		70.00	\$14,000.00
200-05	Sanitary Sewer PVC 8-inch, Slurry Backfill	LF	1,099	243.00	267,057.00			3.00	\$729.00		3.00	\$729.00
200-06	Sanitary Sewer PVC 10-inch, Slurry Backfill	LF	39	300.00	11,700.00							
200-07	Sanitary Sewer PVC 12-inch, Slurry Backfill	LF	1402	325.00	455,650.00			166.00	\$53,950.00		166.00	\$53,950.00
200-07	Sanitary Sewer Lateral 6-inch, Granular Backfill	LF	2615	145.00	379,175.00			31.00	\$4,495.00		31.00	\$4,495.00
200-08	Sanitary Sewer Lateral 6-inch, Slurry Backfill	LF	1310	197.00	258,070.00			18.00	\$3,546.00		18.00	\$3,546.00
200-09	Sanitary Manholes 4-Ft Diameter with Casting	EA	10	6,500.00	65,000.00			1.00	\$6,500.00		1.00	\$6,500.00
200-10	Sanitary Outside Deep Manholes 4-FT Diameter with Casting	EA	2	9,518.00	19,036.00							

# Progress Estimate - Unit Price Work

# Contractor's Application for Payment No.

2

For (Project): ST 60								Application Date: 3/24/2023				
Application Period: 2/24/23 - 3/17/23												
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date	
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)	Value of Stored Materials(\$)	Estimated Quantity Installed	Value of Work Installed (\$)
200-11	Abandon Sanitary Sewer - Jackson Drive	LS	1	1,500.00	1,500.00							
300-01	Removing Hydrant	EA	2	1,100.00	2,200.00							
300-02	Connect to Existing Water Valve	EA	2	2,500.00	5,000.00							
300-03	Connect to Existing Water Main Pipe	EA	2	3,850.00	7,700.00							
300-04	Remove and Replace Water Service Curb Box	EA	100	2,800.00	280,000.00	41.00	\$114,800.00	23.00	\$64,400.00		64.00	\$179,200.00
300-05	Water Main PVC 6-inch, Slurry Backfill	LF	45	315.00	14,175.00							
300-06	Water Main PVC 12-inch, Slurry Backfill	LF	12	550.00	6,600.00							
300-07	Water Service Pipe 1 1/4-inch, Granular Backfill	LF	85	150.00	12,750.00							
300-08	Water Service Pipe 1 1/4-inch, Slurry Backfill	LF	120	200.00	24,000.00							
300-09	Water Service Saddle, Corporation Stop, Curb Stop, Curb Box and Couplings 1 1/4-inch	EA	3	1,400.00	4,200.00							
300-10	Water Gate Valve 12-inch	EA	1	5,200.00	5,200.00							
300-11	Water 45 Degree Bend 6-inch	EA	1	500.00	500.00							
300-12	Water 90 Degree Bend 6-inch	EA	3	530.00	1,590.00							
300-13	Hydrant	EA	2	9,000.00	18,000.00							
TOTAL BID ITEMS					\$2,713,433.75		\$121,881.70		\$168,376.35			\$290,258.05

**Project VOJ 21-01  
Coffee Connection Trail  
Jackson Drive - Eagle Drive**

**Pay Request #2**  
**Advance Construction - Prime Contractor**

			Advance Construction		Pay Request #1		Pay Request #2		Pay Request #3		Pay Request #4		Pay Request #5		Pay Request #6		Cumulative Totals		% Complete	
Item No.	Description	Units	Total	Unit Price	Bid Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	
100-01	Removing Curb	LF	6	\$7.00	\$42.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-02	Removing Curb & Gutter	LF	960	\$5.00	\$4,800.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-03	Removing Concrete Sidewalk and Driveways	SY	1,205	\$5.00	\$6,025.00	13.34	\$66.70	28.43	\$142.15		\$0.00		\$0.00		\$0.00		\$0.00	42	\$208.85	3%
100-04	Base Aggregate Dense 1 1/4-Inch	TON	1,875	\$15.80	\$29,625.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-05	Base Aggregate Open-Graded	TON	1,130	\$23.00	\$25,990.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-06	Concrete Driveway 6-Inch	SY	505	\$75.65	\$38,203.25		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-07	Concrete Driveway 8-Inch	SY	80	\$77.00	\$6,160.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-08	Drilled Tie Bars	EACH	525	\$9.00	\$4,725.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-09	HMA Pavement 3 MT 58-28 S	TON	1,110	\$275.00	\$305,250.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-10	HMA Pavement 4 MT 58-28 S	TON	67	\$510.00	\$34,170.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-11	Asphaltic Surface	TON	17	\$510.00	\$8,670.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-12	Asphaltic Surface Driveways and Field Entrances	TON	50	\$510.00	\$25,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-13	Concrete Curb Type D	LF	6	\$48.00	\$288.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-14	Concrete Curb & Gutter 30-Inch Type D	LF	960	\$42.75	\$41,040.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-15	Concrete Sidewalk 5-Inch	SF	5,520	\$8.00	\$44,160.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-16	Concrete Steps	SF	30	\$55.00	\$1,650.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-17	Pipe Underdrain Wrapped 4-Inch	LF	200	\$55.00	\$11,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-18	Mobilization	EACH	1	\$35,000.00	\$35,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-19	Lawn Restoration	SY	900	\$10.00	\$9,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-20	Inlet Protection Type C	EACH	35	\$55.00	\$1,925.00	12	\$660.00	20	\$1,100.00		\$0.00		\$0.00		\$0.00		\$0.00	32	\$1,760.00	91%
100-21	Geotextile Type SAS	SY	945	\$2.50	\$2,362.50		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-22	Marking Line Paint 4-Inch	LF	6,405	\$1.35	\$8,646.75		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-23	Marking Line Paint 8-Inch	LF	225	\$2.55	\$573.75		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-24	Marking Arrow Paint	EACH	5	\$95.00	\$475.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-25	Marking Word Paint	EACH	1	\$125.00	\$125.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-26	Marking Railroad Crossing Paint	EACH	2.0	\$450.00	\$900.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-27	Marking Stop Line Paint 18-Inch	LF	45	\$5.85	\$263.25		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-28	Marking Diagonal Paint 6-Inch	LF	6	\$2.25	\$13.50		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-29	Marking Crosswalk Paint Transverse Line 6-Inch	LF	205	\$2.25	\$461.25		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-30	Marking Crosswalk Paint Block Style 24-Inch	LF	25	\$7.75	\$193.75		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-31	Conduit Loop Detector	LF	224	\$16.50	\$3,696.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-32	Loop Detector Wire	LF	800	\$2.35	\$1,880.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-33	Sawing Asphalt	LF	8,760	\$2.00	\$17,520.00	15	\$30.00	2274.10	\$4,548.20		\$0.00		\$0.00		\$0.00		\$0.00	2289	\$4,578.20	26%
100-34	Sawing Concrete	LF	2,625	\$3.00	\$7,875.00	25	\$75.00	72	\$216.00		\$0.00		\$0.00		\$0.00		\$0.00	97	\$291.00	4%
100-35	Remove and Replace Retaining Wall	LS	1	\$8,990.00	\$8,990.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-36	Traffic Control and Detour	LS	1	\$25,000.00	\$25,000.00	0.25	\$6,250.00	0.25	\$6,250.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$12,500.00	50%
100-37	Excavating, Hauling, and Disposal of Contaminated Soil	TON	990	\$45.00	\$44,550.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
200-01	Remove and Replace Sanitary Manhole Casting and Adjustment Rings	EACH	27	\$4,500.00	\$121,500.00		\$0.00	1	\$4,500.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$4,500.00	4%
200-02	Connect to Existing Sanitary Sewer Manhole	EACH	1	\$2,000.00	\$2,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
200-03	Connect to Existing Sanitary Sewer Main	EACH	3	\$2,000.00	\$6,000.00		\$0.00	2	\$4,000.00		\$0.00		\$0.00		\$0.00		\$0.00	2	\$4,000.00	67%
200-04	Sanitary Sewer PVC 10-Inch, Granular Backfill	LF	232	\$200.00	\$46,400.00		\$0.00	70	\$14,000.00		\$0.00		\$0.00		\$0.00		\$0.00	70	\$14,000.00	30%
200-05	Sanitary Sewer PVC 8-Inch, Slurry Backfill	LF	1,099	\$243.00	\$267,057.00		\$0.00	3	\$729.00		\$0.00		\$0.00		\$0.00		\$0.00	3	\$729.00	0%
200-06	Sanitary Sewer PVC 10-Inch, Slurry Backfill	LF	39	\$300.00	\$11,700.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
200-07A	Sanitary Sewer PVC 12-Inch, Slurry Backfill	LF	1,402	\$325.00	\$455,650.00		\$0.00	166	\$53,950.00		\$0.00		\$0.00		\$0.00		\$0.00	166	\$53,950.00	12%
200-07B	Sanitary Sewer Lateral 6-Inch, Granular Backfill	LF	615	\$145.00	\$89,175.00		\$0.00	31	\$4,495.00		\$0.00		\$0.00		\$0.00		\$0.00	31	\$4,495.00	5%
200-08	Sanitary Sewer Lateral 6-Inch, Slurry Backfill	LF	310	\$197.00	\$61,070.00		\$0.00	18	\$3,546.00		\$0.00		\$0.00		\$0.00		\$0.00	18	\$3,546.00	6%
200-09	Sanitary Manholes 4-FT Diameter With Casting	EACH	10	\$6,500.00	\$65,000.00		\$0.00	1	\$6,500.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$6,500.00	10%
200-10	Sanitary Outside Drop Manholes 4-FT Diameter With Casting	EACH	2	\$9,518.00	\$19,036.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
200-11	Abandon Sanitary Sewer - Jackson Drive	LS	1	\$1,500.00	\$1,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
200-12	Sanitary Sewer Lateral Pipe Bursting	LF	3,000	\$139.00	\$417,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
200-13	Furnish and Install 36" cleanout manhole with casting		1	\$3,645.00	\$3,645.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0%
200-14	Repair existing storm laterals not shown on plan	EACH	6	\$448.00	\$2,688.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-01	Removing Hydrant	EACH	2	\$1,100.00	\$2,200.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-02	Connect to Existing Water Valve	EACH	2	\$2,500.00	\$5,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-03	Connect to Existing Water Main Pipe	EACH	3	\$3,850.00	\$11,550.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-04	Remove and Replace Water Service Curb Box	EACH	100	\$2,800.00	\$280,000.00	41	\$114,800.00	23	\$64,400.00		\$0.00		\$0.00		\$0.00		\$0.00	64	\$179,200.00	64%
300-05	Water Main PVC 6-Inch, Slurry Backfill	LF	45	\$315.00	\$14,175.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-06	Water Main PVC 12-Inch, Slurry Backfill	LF	12	\$550.00	\$6,600.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-07	Water Service Pipe 1 1/4-Inch, Granular Backfill	LF	168	\$150.00	\$25,200.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-08	Water Service Pipe 1 1/4-Inch, Slurry Backfill	LF	88	\$200.00	\$17,600.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-09	Water Service Saddle, Corporation Stop, Curb Stop, Curb Box and Couplings 1 1/4-Inch	EACH	7	\$1,400.00	\$9,800.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-10	Water Gate Valve 12-Inch	EACH	1	\$5,200.00	\$5,200.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-11	Water 45 Degree Bend 6-Inch	EACH	1	\$500.00	\$500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-12	Water 90 Degree Bend 6-Inch	EACH	3	\$530.00	\$1,590.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-13	Hydrant	EACH	2.0	\$9,000.00	\$18,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-14	Temporary Blow Off 2-Inch	EACH	1	\$506.00	\$506.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-15	Connect to Existing Water Main Pipe with 12-Inch Gate Valve	EACH	1	\$4,480.00	\$4,480.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-16	Water Main DI 12-Inch with Fluorocarbon Gaskets, Granular Backfill	LF	247	\$291.00	\$71,877.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-17	Water 22.5 Degree Bend 12-Inch	EACH	4	\$1,004.00	\$4,016.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-18	Water Cap 12-Inch	EACH	2	\$2,216.00	\$4,432.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0%
300-19	HDD Water service connect to main, new curb box	EACH	1	\$4,750.00	\$4,750.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0%
300-20	Furnish and Install 1" Curb Stop - if existing one does not function while replacing Curb Box	EACH	6	\$750.00	\$4,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00</	

Advance original bid #

**\$2,713,433.75**

**Work completed, previous estimate**

**\$121,881.70**

**\$6,094.09 Retainage Est #1**

**\$8,418.82 Retainage Est #2**

Retainage Est #3

**\$67,835.84**

**Max retainage to hold =**  
**Based off original bid price**



# Memo

**To:** Board of Public Works

**From:** Brian W. Kober, P. E., Director of Public Works

**Subject:** Spring Cleanup Day and Yard Waste/Brush Pickup

**Date:** March 20, 2023

**CC:** Village Board

The 2023 Spring Clean-up Day is scheduled for Saturday, April 29, 2023, from 9:00 AM to 12:00 PM. The residents will be able to drop off bags of leaves or yard waste, household waste (TV, microwaves, furniture, computers, etc.), and metal. The following is a breakdown of the proposed schedule for chipping and bag pick-up for the year:

## **Spring Season**

Chipping and Bag Pick-up will start on Monday, May 1st and then each Monday until Tuesday, May 30th.

## **Fall Season**

Chipping and Bag Pick-up will start again on Monday, October 2nd and then each Monday until Monday, November 27th. The crew will continue until the leaves are gone, or the snow flies.

## **Summer Season**

Chipping will only be done during the summer months. Every third Monday has been scheduled: June 19th, July 17th, Aug 21st, and Sept 18th, or after a storm.

## **Yard Waste Drop-Off Site**

- 1) The yard waste drop-off site at the Public Works facility (W194 N16660 Eagle Drive) is an automated self-serve site for Village of Jackson residents only. For entrance to the site, residents must obtain an access card from Public Works office.
- 2) Village residents will receive one free card. A fee will be charged for lost or extra cards. Cards can be obtained in person at the Public Works office (W194 N16660 Eagle Drive). Proof of Village residency will be required.
- 3) The yard waste drop-off site will accept yard waste in biodegradable paper bags, and brush.

If you have any questions, please let me know.

Brian W. Kober, P.E.

# Public Works Report

March 28, 2023

**Treatment Plant -**     Designed Capacity – 1.67 million gallons per day  
                                         *Peak Flow Capacity – 6.0 million gallons per day*

## Year 2021

January	Avg. Flow 1.075 MGD	Min. Flow 880,000 g.p.d.	Max. 1.460 MGD
February	Avg. Flow 1.015 MGD	Min. Flow 830,000 g.p.d.	Max. 1.590 MGD
March	Avg. Flow 1.525 MGD	Min. Flow 1.160 MGD	Max. 1.970 MGD
April	Avg. Flow 1.264 MGD	Min. Flow 1.020 MGD	Max. 1.950 MGD
May	Avg. Flow 1.108 MGD	Min. Flow 880,000 g.p.d.	Max. 1.450 MGD
June	Avg. Flow 1.091 MGD	Min. Flow 810,000 g.p.d.	Max. 1.670 MGD
July	Avg. Flow 983,226 g.p.d.	Min. Flow 780,000 g.p.d.	Max. 1.410 MGD
August	Avg. Flow 1.281 MGD	Min. Flow 800,000 g.p.d.	Max. 2.530 MGD
September	Avg. Flow 932,333 g.p.d.	Min. Flow 710,000 g.p.d.	Max. 1.170 MGD
October	Avg. Flow 930,000 g.p.d.	Min. Flow 770,000 g.p.d.	Max. 1.140 MGD
November	Avg. Flow 853,667 g.p.d.	Min. Flow 720,000 g.p.d.	Max. 970,000 g.p.d.
December	Avg. Flow 952,581 g.p.d.	Min. Flow 720,000 g.p.d.	Max. 1.330 MGD

## Year 2022

January	Avg. Flow 839,968 g.p.d.	Min. Flow 720,000 g.p.d.	Max. 960,000 g.p.d.
February	Avg. Flow 848,571 g.p.d.	Min. Flow 710,000 g.p.d.	Max. 1.080 MGD
March	Avg. Flow 1.499 MGD	Min. Flow 890,000 g.p.d.	Max. 3.910 MGD
April	Avg. Flow 2.245 MGD	Min. Flow 1.200 MGD	Max. 4.100 MGD
May	Avg. Flow 1.237 MGD	Min. Flow 850,000 g.p.d.	Max. 2.070 MGD
June	Avg. Flow 1.438 MGD	Min. Flow 780,000 g.p.d.	Max. 3.680 MGD
July	Avg. Flow 1.141 MGD	Min. Flow 760,000 g.p.d.	Max. 2.370 MGD
August	Avg. Flow 1.139 MGD	Min. Flow 810,000 g.p.d.	Max. 1.920 MGD
September	Avg. Flow 1.395 MGD	Min. Flow 780,000 g.p.d.	Max. 4.160 MGD
October	Avg. Flow 920,322 g.p.d.	Min. Flow 760,000 g.p.d.	Max. 1.130 MGD
November	Avg. Flow 1.259 MGD	Min. Flow 810,000 g.p.d.	Max. 2.660 MGD
December	Avg. Flow 1.267 MGD	Min. Flow 930,000 g.p.d.	Max. 2.190 MGD

## Year 2023

January	Avg. Flow 1.247 MGD	Min. Flow 1.010 MGD	Max. 1.560 MGD
February	Avg. Flow 1.351 MGD	Min. Flow 950,000 g.p.d.	Max. 3.130 MGD

## Years Summary of Water Consumption

2006 Total Pumpage 207,719,000 gallons	2007 Total Pumpage 217,224,000 gallons
2008 Total Pumpage 229,613,000 gallons	2009 Total Pumpage 231,160,000 gallons
2010 Total Pumpage 239,326,000 gallons	2011 Total Pumpage 240,268,000 gallons
2012 Total Pumpage 253,492,000 gallons	2013 Total Pumpage 228,371,000 gallons
2014 Total Pumpage 230,973,000 gallons	2015 Total Pumpage 222,621,000 gallons
2016 Total Pumpage 254,531,000 gallons	2017 Total Pumpage 251,387,000 gallons
2018 Total Pumpage 241,322,000 gallons	2019 Total Pumpage 253,427,000 gallons
2020 Total Pumpage 259,413,000 gallons	2021 Total Pumpage 242,216,000 gallons

### Year 2021

Jan.	Avg.	565,650 g.p.d.	Highest Day 789,000 gals.	Total	17,535,000 gallons
Feb	Avg.	517,650 g.p.d.	Highest Day 913,000 gals.	Total	16,047,000 gallons
March	Avg.	583,770 g.p.d.	Highest Day 1.303 MGD	Total	18,097,000 gallons
April	Avg.	642,770 g.p.d.	Highest Day 1.190 MGD	Total	19,283,000 gallons
May	Avg.	659,610 g.p.d.	Highest Day 1.103 MGD	Total	20,448,000 gallons
June	Avg.	825,730 g.p.d.	Highest Day 1.311 MGD	Total	24,772,000 gallons
July	Avg.	750,190 g.p.d.	Highest Day 1.529 MGD	Total	23,256,000 gallons
August	Avg.	768,940 g.p.d.	Highest Day 1.920 MGD	Total	23,837,000 gallons
Sept	Avg.	633,060 g.p.d.	Highest Day 1.775 MGD	Total	19,625,000 gallons
Oct	Avg.	753,030 g.p.d.	Highest Day 1.992 MGD	Total	23,344,000 gallons
Nov	Avg.	619,870 g.p.d.	Highest Day 1.059 MGD	Total	18,596,000 gallons
Dec	Avg.	560,520 g.p.d.	Highest Day 1.167 MGD	Total	17,376,000 gallons

### Year 2022

Jan.	Avg.	553,580 g.p.d.	Highest Day 707,000 gals.	Total	17,161,000 gallons
Feb.	Avg.	575,360 g.p.d.	Highest Day 683,000 gals.	Total	16,110,000 gallons
March	Avg.	578,290 g.p.d.	Highest Day 861,000 gals.	Total	17,927,000 gallons
April	Avg.	606,400 g.p.d.	Highest Day 1.084 MGD	Total	18,192,000 gallons
May	Avg.	605,190 g.p.d.	Highest Day 808,000 gals.	Total	18,761,000 gallons
June	Avg.	660,500 g.p.d.	Highest Day 1.034 MGD	Total	19,815,000 gallons
July	Avg.	685,520 g.p.d.	Highest Day 853,000 gals.	Total	21,251,000 gallons
August	Avg.	654,160 g.p.d.	Highest Day 800,000 gals.	Total	20,279,000 gallons
Sept	Avg.	602,170 g.p.d.	Highest Day 727,000 gals.	Total	18,065,000 gallons
October	Avg.	661,390 g.p.d.	Highest Day 1.185 MGD	Total	20,503,000 gallons
Nov	Avg.	561,670 g.p.d.	Highest Day 714,000 gals.	Total	16,850,000 gallons
Dec	Avg.	552,160 g.p.d.	Highest Day 712,000 gals.	Total	17,117,000 gallons

### Year 2023

Jan.	Avg.	544,810 g.p.d.	Highest Day 716,000 gals.	Total	16,889,000 gallons
Feb.	Avg.	576,070 g.p.d.	Highest Day 762,000 gals.	Total	16,130,000 gallons

**Pump Capacity** Well #1- 400 g.p.m. Well #3 -900 g.p.m. Well #4 - 1200 g.p.m. Well #5 – 1,100 g.p.m. Well #6 – 800 g.p.m.



**WWTP – Holding & Septage Receiving**

<b>2005</b>	\$ 87,562.01	<b>2006</b>	\$101,115.11	<b>2007</b>	\$152,201.07	<b>2008</b>	\$210,441.47
<b>2009</b>	\$183,815.34	<b>2010</b>	\$197,653.66	<b>2011</b>	\$220,576.28	<b>2012</b>	\$236,224.70
<b>2013</b>	\$235,336.46	<b>2014</b>	\$203,938.32	<b>2015</b>	\$210,644.47	<b>2016</b>	\$220,473.17
<b>2017</b>	\$232,358.23	<b>2018</b>	\$245,767.74	<b>2019</b>	\$219,822.80	<b>2020</b>	\$204,656.11
<b>2021</b>	\$209,083.10	<b>2022</b>	\$251,109.46				

<b>2021</b>	<b>Holdings (gals)</b>	<b>Grease (gals)</b>	<b>G Decant (gals)</b>	<b>Septage (gals)</b>	<b>S Decant (gals)</b>	<b>Total Billings</b>
January	1,284,600			6,650	77,250	\$12,507.30
February	1,386,475			3,000	44,450	\$12,338.05
March	1,633,050			27,600	206,050	\$19,457.65
April	1,425,850			38,000	268,500	\$19,829.30
May	1,297,900			34,550	232,100	\$17,740.45
June	1,392,350			52,800	258,500	\$19,977.30
July	1,338,500			31,600	245,050	\$18,256.25
August	1,499,450			31,200	196,250	\$18,305.85
September	1,389,200			23,900	213,400	\$17,524.10
October	1,275,550			16,250	297,260	\$18,367.15
November	1,249,400			22,400	224,200	\$16,608.20
December	1,448,000			32,000	205,900	\$18,171.50

<b>2022</b>	<b>Holdings (gals)</b>	<b>Grease (gals)</b>	<b>G Decant (gals)</b>	<b>Septage (gals)</b>	<b>S Decant (gals)</b>	<b>Total Billings</b>
January	1,311,750	2,700			40,650	\$11,780.25
February	1,321,050	8,000			48,350	\$12,577.15
March	2,076,350	2,000		40,750	303,750	\$26,238.30
April	1,791,650	5,400	1,500	101,700	326,050	\$27,660.95
May	1,703,450		5,200	164,850	288,100	\$28,456.35
June	1,759,050	3,000		100,400	373,050	\$28,348.65
July	1,437,400	2,700		92,100	186,800	\$20,583.70
August	1,670,350	1,200	3,500	63,700	242,850	\$22,560.55
September	1,479,850			73,350	168,950	\$19,363.30
October	1,204,370	3,000	5,500	47,650	253,200	\$18,629.21
November	1,264,850		1,000	48,300	228,250	\$18,038.55
December	1,454,750		4,000	24,100	159,600	\$16,872.50

<b>2023</b>	<b>Holdings (gals)</b>	<b>Grease (gals)</b>	<b>G Decant (gals)</b>	<b>Septage (gals)</b>	<b>S Decant (gals)</b>	<b>Total Billings</b>
January	1,232,950		1,000	2,800	72,460	\$11,841.10
February	1,299,600			1,000	27,000	\$11,121.30

**Morning Meadows Subdivision**

Streetlights are being planned by the Village for installation in Phase 1 and 2. The Utilities are in negotiation on how to use the proposed sewer and water layout in Phase 3 for the sewer and water layout being proposed for CTH P Project.

**Willow Ridge Drive Reconstruction Project**

Streetlights and growing grass are the remaining items. The Village is still holding the retainage of the project.

**Spruce Street/Ridgeway Drive Extension Project**

We are working on a streetlight layout for the two streets. We now have poles, fixtures, and meter pedestals just need time for the layout for bidding.

**Eagle Drive & STH 60 Intersection Improvement**

Terra Venture Advisors are being hired for the land acquisition services for the project. Working through the details and approvals. The plans are reaching the 60% plan stage.

**Midwest Fiber Installation**

Street Opening Permits are being approved for the Fiber to the Home Project. In the process we are working with Mid-West for fiber to Utility owned properties.

**Impact Fee Study**

The study is in process, and the results will be discussed at the April Board of Public Works meeting.

**Stormwater Ponds Management Inspection Program**

A pause in the inspections have occurred until the vegetation becomes less in the Fall. Difficult to walk around some ponds. We are using the time to look for pond plans. In April, the program will start again.

**Main Street (STH 60) Sewer and Water Replacement**

M & E Construction has started the replacement of sanitary laterals on the west end of the project (Industrial Dr to Western Ave). Seven (7) sanitary laterals were completed. They are still conducting property inspections on how to pipe burst the sanitary lateral. The detour route is activated, and signs have been adjusted for better visibility for drivers. The sanitary sewer main installation is in front of Schmidt Funeral Home (N168 W20135 Main Street). Now, Enter Main Street Market, and Coffeerville from the East from Ridgeway Drive. M & E Construction continue with sanitary lateral replacements. If you see a flyer at your front door, please call the number to make an appointment or talk to the onsite inspector. The sanitary sewer main line installation will continue west to Jackson Drive.

**CTH P (Sherman Road to STH 60) Utility Project**

Starting to work on the design for bidding. Working with Morning Meadows Subdivision Developers to determine where we start the utility to head north along CTH P. Planning to bid the project maybe March or April of 2023.

**Maple Fields Subdivision**

The subdivision has been paved. We-Energies Utility installation is occurring. Streetlights and sidewalks still need to be completed in Phase 1.

**Next Generation Housing**

Utility bids for review at the next Board of Public Works meeting.

Respectfully submitted, Brian W. Kober, P.E.