

LEGEND

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— F — F —

— Underground Cable TV Underground Fiber Optic —— Sanitary Sewer — Storm Sewer Underground Gas Line ------ Water Main Underground Electric ------ Fence - Steel ----- Index Contour - Existing



CATV Pedestal Post / Guard Post Deciduous Tree Benchmark Asphalt Pavement 101222000 Concrete Pavement Gravel



Proposed Building Proposed Asphalt Proposed Concrete Proposed Gravel





SITE INFORMATION: Legal Description: Lot 1 & 2,CSM 8477 Parcel #: 322095700 & 322095705

Current Use: Vacant Proposed Use: Long Term Care Current Zoning: CHD - Commercial Highway District

<u>Site Areas</u> Parcel Area: 561,488 SF (12.89 Acres) Total Existing Impervious: 0 SF (0%)

Proposed Building Area: 137,003 SF Proposed Pavement Area: 95,758 SF Proposed Sidewalk Area: 50,482 SF

Total Proposed Impervious: 283,243 SF (50.4%) Total Proposed Greenspace: 278,245 SF (49.6%)

Overall Runoff Curve Number: (283,243*98+278,245*80) / Total = 89.1

PARKING CALCULATIONS CBRF: 39 Parking Spaces, includes 2 Handicap

RCAC: 101 Parking Spaces, includes 3 Handicap IL: 14 Parking Spaces, includes 2 Handicap Total: 154 Surface Parking Spaces and 120 Parking Garage Spaces

PROPERTY OWNER: The Reserve on Arbor Way, LLC James Boris N58W33138 Township Road M Nashotah, WI 53058 Telephone: (414) 405-1162 Email: james.borisiii@icloud.com



DAVEL ENGINEERING & ENVIRONMENTAL, INC. Civil Engineers and Land Surveyors 1164 Province Terrace, Menasha, WI 54952 Ph: 920-991-1866 Fax: 920-441-0804 www.davel.pro





KAUKAUNA, WI 54130

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/27/24	City Site Plan Submittal

KEY PLAN



123192-01



PROJECT NUMBER



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LEGEND				
— CATV — CATV — FO — FO — San — San — Sto — Sto — G — G — W — W — E — E — 800 — 799	Underground Cable TV Underground Fiber Optic Sanitary Sewer Storm Sewer Underground Gas Line Water Main Underground Electric Fence - Steel Index Contour - Existing Intermediate Contour - Existing	 ○ ○	Sanitary MH / Tank / Base Storm Manhole Inlet Catch Basin / Yard Drain Hydrant Utility Valve Light Pole / Signal Electric Transformer Telephone Pedestal Telephone Manhole	CATV Pedestal Post / Guard Post Deciduous Tree Benchmark Asphalt Pavement Concrete Pavement Gravel

General Notes

- Zoning Information City of Kaukauna: CHD Commercial Highway District 1. Setbacks: Front Yard: 25 Feet Side Yard: 10 Feet Rear Yard: 10 Feet Height: 56 Feet (4 stories)
- Caveat: Building zones depicted are based on building setbacks in effect at the time of the survey and should not be relied upon without first obtaining written verification thereof from the City of Kaukauna and any other local agencies.
- Floodplain Information (Subject Site mapped per FIRM Map No. 55087C0342D with and effective date of July 7, 2010 2. Mapped as "Zone X": Area determined to be outside the 0.2% annual chance floodplain.
- 3. Existing utilities shown are indicated in accordance with available records and field measurements. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdictions, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response. The contractor shall be responsible for obtaining exact locations & elevations of all utilities, including sewer & water from the the property owners of the respective utilities. All utility the property owners shall be notified by the contractor 72 hours prior to excavation. Contact Digger's Hotline (1-800-242-8511) for exact utility locations.
- 4. This topographic survey was performed during winter conditions. Utility and ground features shown on this map are indicated based on what was observed at the time. Utility markings and existing features may have been covered by snow and/or ice and may not be shown on this map.
- 5. This is not a boundary survey.



BENCHMARKS (NAVD88) BM 0 NGS Benchmark PID DE7760 and Designation - 4X80 Elev 728.44 **BM 1** Fire Hydrant, Tag Bolt N R/W Arbor Way Elev 713.96 BM 2 Fire Hydrant, Tag Bolt N R/W Arbor Way ±15' NE of MH 3 Elev 716.69 BM 3 Fire Hydrant, Tag Bolt N R/W Arbor Way ±44' NW of CPT 551 Elev 718.58 BM 4 NW Cor. Elec. Concrete Pad ±18' S of CPT 554 Elev 715.52

	Horizon	tal Control	
	The Reserve on Arb Thursday,	or Way- City of Kauka January 11, 2024	una
Horizo	Davel Engineeri ontal Control (per Outa	ng and Environmenta gamie County Coordina	l te System)
Point Number	Northing	Easting	Description
551	576453.98	860910.77	CPT MAG
552	577249.93	860506.81	CPT MAG
553	577391.31	860711.82	CPT MAG
554	576673.65	861243.66	CPT HUB
555	576826.11	861552.33	CPT MAG
556	576634.18	860603.02	CPT MAG

		Sanit	ary Stru	ctures		
Structure	#	Dim	Inv	Cizo	Matarial	Directio
MU	1	712 20	702.16	512e	DVC	NIM
1411.1	1	/12.25	702.10	0 8"	PVC	SE
			702.15	0	rvc	JL
MH	2	712.82	702.49	8"	PVC	NW
			702.52	8"	PVC	S
MH	3	714.44	703.91	8"	PVC	NW
			703.93	8"	PVC	SE
ML	Λ	715 09	704.41	Q!!	PV/C	NI\A/
IVILI	4	/15.00	704.41	8"	PVC	SE
			101110			52
MH	5	714.47	692.54	8"	PVC	NE
			692.57	8"	PVC	SW
MH	6	714.09	699.26	8"	PVC	NE
			699.29	8"	PVC	SW
		Stor	rm Struc	tures		
_						
Structure	#	Rim		Size	Material	Directio
IVIH	A	/12.09	707.61	24	RCP	500
			707.61	24	RCP	E
MH	В	712.50	707.67	24"	RCP	NE
			707.67	36"	RCP	SW
			707.75	15"	RCP	E
			707.75	15"	RCP	W
INL	С	711.98	707.43	15"	RCP	W
			707.45	15"	RCP	E
MH	D	712.28	706.85	36"	RCP	N
			706.85	36"	RCP	SE
	-	714.00	707.04	451	DCD	6
INL	E	711.28	707.24	15"	RCP	S
			707.28	15	RCP	INE
INL	F	711.39	707.12	15"	RCP	NE
			707.10	15"	RCP	SW
MH	G	712.64	706.45	36"	RCP	NW
			706.59	15"	RCP	NE
			706.40	36"	RCP	SE
			706.59	15"	RCP	SW
MH	н	714.91	707.13	30"	RCP	NW
			707.21	30"	RCP	SW
			707.21	24"	RCP	NE
СВ	1	713.41	706.98	30"	RCP	SE
		,	706.98	30"	RCP	W
CB	J	712.89	706.61	30"	RCP	NW
			706.61	30"	RCP	E
CB	K	711 02	705 70	20"	RCD	CE
CD	ĸ	/ 11.72	705.69	30"	RCP	NF
CB	L	711.47	705.34	30"	RCP	SW



DAVEL ENGINEERING & ENVIRONMENTAL, INC. Civil Engineers and Land Surveyors 1164 Province Terrace, Menasha, WI 54952 Ph: 920-991-1866 Fax: 920-441-0804 www.davel.pro

SURVEYOR'S CERTIFICATE

I, Scott R. Andersen, hereby certify that I have surveyed this property and this topographical map is a true representation thereof and shows the size and location of the property and the location of all apparent roadways. I hereby certify that said topographical survey and map were made in accordance with acceptable professional standards and that the information contained thereon is, to the best of my knowledge, information and belief, a true and accurate representation thereof.





Date





PROJECT INFORMATION THE RESERVE ON ARBOR WAY

Kaukauna, Wi 54130

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
07/02/24	SCHEMATIC DESIGN

KEY PLAN

SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.

PROJECT MANAGER PM PROJECT NUMBER 123192-01



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BM 0	NGS Benchma	ark
	PID DE7760 a	ind Designation - 4X80
	Elev	728.44
BM 1	Fire Hydrant, 1	Гад Bolt
	N R/W Arbor V	Nay
	Elev	713.96
BM 2	Fire Hydrant, 7	Гад Bolt
	N R/W Arbor V	Way ±15' NE of MH 3
	Elev	716.69
BM 3	Fire Hydrant, 7	Гад Bolt
	N R/W Arbor V	Nay ±44' NW of CPT 551
	Elev	718.58
BM 4	NW Cor. Elec.	Concrete Pad
	±18' S of CP	T 554
	Elev	715.52

NOTES:

- 1. Existing utilities shown are indicated in accordance with available records and field measurements. The contractor shall be responsible for obtaining exact locations & elevations of all utilities, including sewer and water from the owners of the respective utilities. All utility owners shall be notified by the contractor 72 hours prior to
- excavation. Contact Digger's Hotline (1-800-242-8511) for exact utility locations. 2. The Contractor shall verify all staking and field layout against the plan and field conditions prior to constructing the work and immediately notify the Engineer of any
- discrepancies. 3. Contractor shall remove all excess materials from the site. Earthwork contractors shall verify topsoil depth.
- 4. Updated survey and title search have not been authorized and the boundary and easements shown may be inaccurate or incomplete.







Kaukauna, Wi 54130

ISSUANCE AND REVISIONS

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LEGEND

CATV CATV	Underground Cable TV
— F0 — F0 — F0 — F0	Underground Fiber Optic
San San	Sanitary Sewer
Sto	Storm Sewer
GG	Underground Gas Line
ww	Water Main
—Е——Е——	Underground Electric
- OO O	Fence - Steel
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700	

Proposed Storm Sewer — – – – — Proposed Swale Proposed Culvert



----- Proposed Silt Fence Prop. Drainage Direction Proposed Tracking Pad

Proposed Ditch Check

Proposed Building

Proposed Asphalt Proposed Concrete Proposed Gravel

+799.9 Ex Spot Elevation Proposed Rip Rap

Sanitary MH / Tank / Base Storm Mannole Inlet Catch Basin / Yard Drain Hydrant Utility Valve 🗘 🛛 Light Pole / Signal Electric Transformer Telephone Pedestal —— —— 799—— —— Intermediate Contour - Existing 🔟 Telephone Manhole Proposed Storm Manhole Proposed Curb Inlet Prop. Catch Basin / Yard Drain Proposed Endwall Proposed Urban Type B Erosion Mat Proposed Class I Type B Erosion Mat Proposed Inlet Protection A Type of Inlet Protection

CATV Pedestal Post / Guard Post 😚 Deciduous Tree Benchmark Asphalt Pavement Concrete Pavement Gravel



Planned Sediment and Erosion Control Practices

All erosion control practices shall be in place prior to disturbing the site. All sediment and erosion control devices and methods shall be in accordance with DNR Technical Standards and the WisDOT Erosion Control product acceptability lists (PAL). It is the responsibility of the Contractor to minimize the area disturbed and the duration of the disturbance. Erosion & sediment control measures shall be maintained on a continuing basis until the site is permanently stabilized. All applicable controls must be in place at the end of each work day with all off-site sediments being cleaned daily or as necessary as no sediment flushing is allowed.

- 1) Diverting Flow
- a) Permanent Diversion Intended to divert runoff around disturbed areas to a location where the water can be discharged without adversely impacting the receiving area or channel. Permanent diversions or drainage swales will be used to route runoff to the storm sewer inlets and storm water pond.
- 2) Overland Flow
- a) Silt Fence Intended to provide a temporary barrier to the transportation of sediment offsite. Silt fence also reduces the velocity of sheet flow; thereby reducing the erosion potential of flowing water. Silt fencing is not to be used in areas of channelized flow and sediment deposits shall be removed when a 6-inch depth is reached. The silt fence shall be repaired or replaced as necessary to maintain a barrier. All Silt Fence shall be installed and maintained in accordance with DNR Technical Standard 1056. It will be placed at the following locations: i) along the site perimeter where runoff will leave the site, per plan.
- ii) and at the toe of soil piles if the pile will remain in place for more than seven (7) days.
- iii) as slope interruption within the development b) Mulching and Erosion Mat - Intended to reduce the amount of erosion caused by raindrop impact, high overland and concentrated flow velocities and assist the establishment of both temporary and permanent vegetation. All Erosion Mat shall be installed and maintained in accordance with DNR Technical Standards 1052 and 1053 and all Mulching with DNR Technical Standard 1058. In addition to mulching, Erosion Mat is required per plan and if field conditions warrant.
- c) Seeding Intended to provide a reduction of overland flow velocities and stabilize disturbed areas. Seeding will be used on all disturbed areas within seven days of the completion of the activity that will disturb the area. All permanent seeding and fertilization shall be in accordance with the Landscape Plan. If required, temporary seeding shall consist of Oats, Rye, Winter Wheat, and/or Annual Ryegrass applied at rates and during the season specified by the Technical Standard but no later than October 1st. Sod placement may occur at any time sod is
- available and the sod and soil are not frozen. 3) Track out Control - Intended to reduce the amount of sediment transported onto public roads or offsite access points. The Tracking Pad shall be installed and maintained in accordance with DNR Technical Standard 1057. Trackout controls will be constructed at the site entrances as indicated on the plan.
- 4) Dust Control Intended to reduce surface to air transport of dust during construction. Dust control shall be implemented with use of methods provided in DNR Technical Standard 1068. These methods include the use of polymers, seeding, and mulch.
- 5) Dewatering BMP Intended to reduce the amount of sediment conveyed due to dewatering practices. Dewatering practices require compliance with DNR Technical Standard 1061. The use of geotextile bags is required to prevent sedimentation with a stabile discharge adjacent to the existing pond. The bags shall meet the requirements of DNR Technical Standard 1061. Upon completion of the dewatering operation, all materials must be disposed of properly in accordance with all state and local requirements.
- 6) Waste Material All onsite waste and construction materials shall be handled and disposed of properly. No waste material is allowed to enter the storm sewer system or receiving waters.

Sequence of Construction

- 1) Obtain plan approval and other applicable permits.
- 2) Install & maintain sediment control measures. Clearing & Grubbing. Spring 2025 3) Sewer and Water Construction, Building Foundation Construction: Spring 2025
- 4) Site Work and Gravel Base installations: Summer 2025
- 5) Curb & Gutter, Sidewalk, and Asphalt Paving: Fall 2025.
- 6) Stabilize lawn and ditch areas no later than one week after final grade is established.
- 7) Remove all temporary sediment control measures after 70-percent vegetative cover is established. Water if necessary to establish healthy and well rooted vegetation.
- 8) Complete project schedule and phasing to be determined.

Maintenance Plan

- The contractor is responsible for inspection and maintenance of sediment and erosion control measures until the project is completed. The inspections shall be made every seven days or within 24-hours of a rainfall event of 0.50-inch or greater. Any practices that are damaged or not working properly shall be repaired by the end of the day. Accumulated sediment shall be removed when it has reached a height of one-half the height of the structure. In addition, the following measures shall be taken:
- 1) All seeded areas will be re-seeded and mulched as necessary according to the specifications in the planned practices to maintain a vigorous, dense vegetated cover.
- 2) Remove silt fence and temporary structures only after final stabilization and vegetative cover is established. 3) Avoid the use of fertilizers and pesticides in or adjacent to channels or ditches.

4) Construction and waste materials shall be properly disposed.

Weekly inspection reports shall be maintained by the contractor. These reports shall document inspections and maintenance performed. The date and time of the inspections, the inspector's name, and the status of construction and any maintenance performed. Refer to Appendix C or the DNR website for a template; https://dnr.wisconsin.gov/topic/Stormwater/construction/forms.html. Upon request, the inspection reports shall be made available to the owner, the engineer, the Wisconsin Department of Natural Resources, or the City of Kaukauna.

Responsible Parties

- Best Management Practices (BMPs) Construction and Maintenance: Consolidated Construction Company
- **BMP Inspection and Compliance Enforcement**
- City of Kaukauna
- Wisconsin Department of Natural Resources







KAUKAUNA, WI 54130

ISSUANCE AND REVISIONS

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09/27/24	City Site Plan Submittal

KEY PLAN

SHEET INFORMATION

PROJECT NUMBER



EROSION & SEDIMENT CONTROL PLAN C103

123192-01

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 • • Proposed Water Main -----

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Underground Gas Line Water Main Underground Electric Fence - Steel Index Contour - Existing Intermediate Contour - Existing (
Telephone Manhole Proposed Storm Sewer Proposed Sanitary Sewer Proposed Culvert

Proposed Building

Proposed Asphalt

Proposed Gravel

Proposed Concrete

Underground Cable TV

Sanitary Sewer

Storm Sewer

Underground Fiber Optic

Sanitary MH / Tank / Base Storm Manhole Inlet Catch Basin / Yard Drain Hydrant Utility Valve 🗘 🛛 Light Pole / Signal Electric Transformer Telephone Pedestal +799.9 Ex Spot Elevation Proposed Sanitary Manhole Proposed Storm Manhole Proposed Curb Inlet Prop. Catch Basin / Yard Drain Proposed Endwall Proposed Hydrant

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Proposed Valve

Proposed Curb Stop

O Proposed Cleanout

Post / Guard Post Deciduous Tree Benchmark Asphalt Pavement Concrete Pavement

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CATV Pedestal

Proposed Reducer Proposed Plug Proposed Water MH Proposed Tee Proposed Cross Proposed 90° Bend Proposed 45° Bend J Proposed 22.5° Bend

Gravel



Sewer and Water shall be constructed in accordance with the State of Wisconsin Standard Specifications for Sewer and Water Construction, and the Standard Specifications of the City of Kaukauna (sewers) and Kaukauna Utilities (water).

Streets shall be constructed in accordance with the State of Wisconsin Standard Specifications for Highway and Structures Construction. Pulbic Streets and Sidewalk damaged as part of this project shall be replaced in kind per Standard Specficiations of the City of Kaukauna.

Contractor shall locate all buried facilities prior to excavating. This plan may not correctly or completely show all buried utilities.

The Contractor shall verify all staking and field layout against the plan and field conditions prior to constructing the work and immediately notify the Engineer of any discrepancies.

The Contractor shall comply with all conditions of the Erosion Control Plan and the Storm Water discharge Permit. All Erosion Control shall be done in accordance with the Plan and Wisconsin DNR Technical Standards.

The outside services are shown to stop at a point 5 feet outside the foundation wall. The Contractor shall be responsible for coordination of continuation of the services into the building to properly coincide with the interior plumbing plans, and compliance with all plumbing permits.

The Contractor is responsible for compliance with Department of Safety & Professional Services, Chapter SPS 382, for lateral construction and cleanout locations.

The contractor shall coordinate with provider for electric, gas, and telecommunication service connection and relocations.

Pipe lengths are measured to center of structure. Endwalls are included in pipe length. Water Pipe shall be PVC C900 D(18), with minimum of 18 gauge, insulated (blue), single-conductor copper tracer wire, or equivalent, per SPS 382.40 (8)(k).

Sanitary Sewer Pipe shall be PVC SDR 35, with minimum of 18 gauge, insulated (green), single-conductor copper tracer wire, or equivalent, per SPS 382.30 (11)(h).

Storm Sewer Pipe shall be PVC SDR(35), Reinforced Concrete Class III, or HDPE, AASHTO M 294, Type S with water tight joints, with minimum of 18 gauge, insulated (brown), single-conductor copper tracer wire, or equivalent, per SPS 382.36 (7)(d)10.a.

Refer to C501 for storm sewer schedules.

Provide Underdrains for Storm Inlets R-2, R-2a, R-3b, R-7, R-14, R-21, R-40, CB J.







KAUKAUNA, WI 54130

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PROJECT MANAGER ΡM PROJECT NUMBER 123192-01

UTILITY PLAN



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HANDICAP PARKING SIGN DETAIL





BOLLARD DETAIL





18" REJECT STANDARD CURB

18" ACCEPT STANDARD CURB

- 2.35"

Install TriAx® TX190L Geogrid¹

per Manufacturer Specifications

5" – 2.00% 4 4 5" Thick Concrete Slab —/ with 6x6-w 1.4 x 1.4 wwf \sim 7" - $\frac{3}{4}$ " Crusher Run







CONCRETE PAVEMENT SECTION

















KAUKAUNA, WI 54130

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KEY PLAN



CONSTRUCTION DETAILS **C500**

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123192-01

PROJECT NUMBER



STORM SEWER UNDERDRAIN

4" Perforated Plastic Tubing With a Fabric "Filter Sock" and End Cap. Min. Length Should be 10'

Recompacted Native Soil Backfill

Undisturbed Native Soil

ndry R-3067
5" — 24" — A See Plan
For Size
Bench 4 4
Monolithic Base
R INI ET DETAII

					700.00		
R-1	Endwall		 R-1550		708.00		
R-2	MH (60) Inlet	60" ID	(open)	712.61	708.42	4.19	5.00
R-2a	MH (60) Inlet	60" ID	R-3065	714.31	708.59	5.72	5.72
R-3	MH (60) Inlet	60" ID	R-1550 (open)	714.50	708.62	5.88	5.88
R-3a	CB (36)	36" ID	R-2540	716.15	710.09	6.06	6.06
R-3b	CB (36)	36" ID	R-2540	713.50	709.91	3.59	5.00
R-4	MH (48) Inlet	48" ID	R-1550 (open)	714.62	709.15	5.47	5.47
R-4a	CB (36)	36" ID	R-2425	712.71	709.69	3.02	5.00
R-5	CB (36)	36" ID	R-2540	714.85	709.99	4.86	5.00
R-5a	CB (36)	36" ID	R-2540	715.90	710.33	5.57	5.57
R-6	CB (36)	36" ID	R-2540	715.80	709.89	5.91	5.91
R-7	CB (36)	36" ID	R-2540	714.10	710.34	3.76	5.00
R-10	Endwall				708.00		
R-11	MH (48) Inlet	48" ID	R-1550 (open)	715.09	708.39	6.70	6.70
R-12	MH (48) Inlet	48" ID	R-1550 (open)	714.11	708.70	5.41	5.41
R-13	CB (36)	36" ID	R-2540	713.00	708.99	4.01	5.00
R-13a	CB (36)	36" ID	R-2540	716.00	709.64	6.36	6.36
R-13b	CB (36)	36" ID	R-2540	714.30	709.90	4.40	5.00
R-13c	CB (36)	36" ID	R-2540	716.50	710.07	6.43	6.43
R-13d	CB (36)	36" ID	R-2540	716.00	710.63	5.37	5.37
R-14	CB (36)	36" ID	R-2540	715.50	709.84	5.66	5.66
R-14a	CB (36)	36" ID	R-2540	715.67	710.07	5.60	5.60
R-14b	CB (36)	36" ID	R-2540	715.90	710.20	5.70	5.70
R-20	CB (36)	36" ID	R-2540	716.00	710.14	5.86	5.86
R-21	CB (36)	36" ID	R-2540	714.00	710.37	3.63	5.00
R-30	MH (60)	60" ID	R-1710	715.15	700.00	15.15	15.15
TD-30	Trench Drain	Refer to	Detail	704.40	702.16	2.24	

STORM SEWER STRUCTURE SUMMARY

	116
US	ľ
R-2	
R-2a	
R-3	
R-3a	
R-3b	
R-4	
R-4a	
R-5	
R-5a	
R-6	
CO-6	
R-7	_
R-11	
R-12	
R-13	
R-13a	
R-13b	
R-13c	
R-13d	
R-14	
R-14a	
R-14b	
R-20	E
R-21	
CO-22	
TD-30	
	TD

40 IL Roof Drain

SANITARY MANHOLE

SECTION A-A









KAUKAUNA, WI 54130

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/27/24	City Site Plan Submittal

KEY PLAN



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1. Excavate below channel outlet and widen channel outlet to the required riprap thickness for each apron. Foundation to be set to zero grade and smoothed. 2. Place geotextile fabric on bottom and sides of prepared foundation.

Fabric shall extend under endwall in accordance with DOT specifications. (DOT Section 628.2 & 628.3) 3. Exercise care in placement of riprap to avoid damage to filter fabric. 4. Use riprap conforming to Wisconsin DOT specifications. (DOT Section

606.2 & 606.3) 5. Use DOT Type R geotextile fabric for light riprap. Use Type HR for medium and heavy riprap. (DOT Section 606.2, 606.3, 628.2 & 628.3) 6. Use 12" dimension for pipes less than 12" in diameter.

OUTLET PROTECTION

Geotextile Fabric -

SECTION B-B



Note: When using cell-o-seed do not seed prepared area. Cell-o-seed must be installed with paper side down. 2. Begin at the top of the channel by anchoring the RECP's in a 6" (15 cm) deep x 6" (15 cm) wide trench with approximately 12" (30 cm) of RECP's extended beyond the up-slope portion of the trench. Anchor the RECP's with a row of staples/stakes approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of RECP's back over seed and compacted soil. Secure RECP's over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) across the width of the RECP's. 3. Roll center RECP's in direction of water flow in bottom of channel. RECP's will unroll with appropriate side against the soil surface. All RECP's must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide. When using the DOT system, staples/stakes should be placed through each of the colored dots corresponding to the appropriate staple pattern.

4. Place consecutive RECP's end over end (shingle style) with a 4" - 6" (10 cm - 15 cm) overlap. Use a double row of staples staggered 4" (10 cm) apart and 4" (10 cm) on center to secure RECP's. 5. Full length edge of RECP's at top of side slopes must be anchored with a row of staples/stakes approximately 12" (30 cm) apart in a 6" (15 cm) deep x 6" (15 cm) wide trench. Backfill and compact the trench after stapling. 6. Adjacent RECP's must be overlapped approximately 2" - 5" (5cm - 12.5 cm) (depending on RECP's type) and stapled. 7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 M - 12 M) intervals. Use a double row of staples staggered 4" (10 cm) apart and 4" (10 cm) on center over entire width of the channel. 8. The terminal end of the RECP's must be anchored with a row of staples.stakes approximately 12" (30 cm) apart in a 6" (15 cm) deep x 6" (15 cm) wide trench. Backfill and compact the trench after stapling. Note: * In loose soil conditions, the use of staple or stake lengths greater than 6" (15 cm) may be necessary to properly anchor the

RECP's. 9. Detail provided by North American Green (www.nagreen.com)

Critical Points A. Overlaps and seams B. Projected Water line C. Channel Bottom/side slope vertices

* Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface. ** In loose soil conditions, the use of staple or

stake lengths greater than 6" (15 cm) may be necessary to properly anchor the RECP's.

EROSION MAT CHANNEL INSTALLATION DNR TECHNICAL STANDARD 1053







1. Prepare soil before installing Rolled Erosion Control Products (RECP's), including any necessary application of lime, fertilizer, and seed. Note: When using cell-o-seed do not seed prepared area. Cell-o-seed must be installed with paper side down.

2. Begin at the top of the slope by anchoring the RECP's in a 6" (15 cm) deep x 6" (15 cm) wide trench with approximately 12" (30 cm) of RECP's extended beyond the up-slope portion of the trench. Anchor the RECP's with a row of staples/stakes approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of RECP's back over seed and compacted soil. Secure RECP's over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) apart across the width of the RECP's. 3. Roll the RECP's (A.) down or (B.) horizontally across the slope. RECP's will unroll with appropriate side against the soil surface. All RECP's must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide. When using the Dot system, staples/stakes should be placed through each of the colored Dots corresponding to the appropriate staple pattern.

4. The edges of parallel RECP's must be stapled with approximately 2" - 5" (5 cm - 12.5 cm) overlap depending on RECP's type. 5. Consecutive RECP's spliced down the slope must be placed end over end (shingle style) with an approximate 3" (7.5 cm) overlap. Staple through overlapped area, approximately 12" (30 cm) apart across entire RECP's width. Note: * In loose soil conditions, the use of staple or stake lengths greater than 6" (30 cm) may be necessary to properly secure the RECP's.

6. Detail provided by North American Green (www.nagreen.com) 7. Turf Reinforcement Mats (TRM's) shall be installed in accordance with the above specifications for all RECP's. Anchoring size and pattern is to be installed per manufacturer specifications for clay soils having 4:1 slope. All TRM's shall be topsoil filled, seeded, and covered with a Class 2, Type B erosion mat in accordance with all manufacturer specifications.

EROSION/TURF REINFORCEMENT MAT SLOPE INSTALLATION DNR TECHNICAL STANDARD 1052









KAUKAUNA, WI 54130

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/27/24	City Site Plan Submittal

KEY PLAN



PROJECT MANAGER ΡM PROJECT NUMBER 123192-01



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