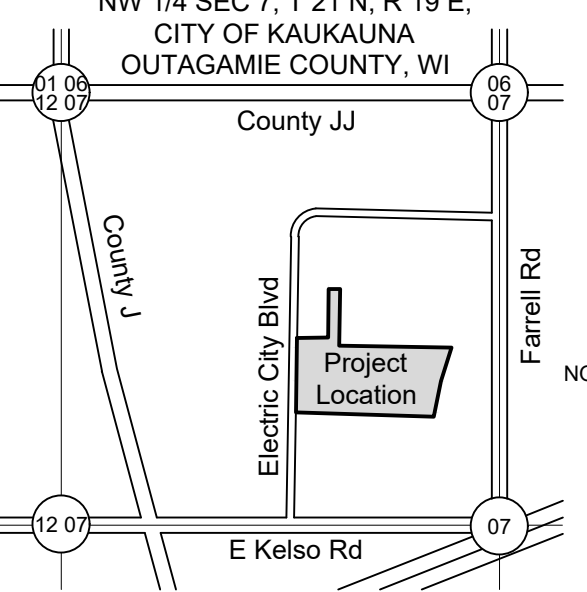


LEGEND

- Overhead Utility Lines
- Sanitary Sewer (Pipe Size)
- Storm Sewer (Pipe Size)
- Fence - Steel
- Fence - Wood
- Treeline
- Culvert
- Index Contour - Existing
- Intermediate Contour - Existing
- Proposed Building
- Proposed Asphalt
- Proposed Concrete
- Proposed Gravel
- Sanitary MH / Tank / Base
- Storm Manhole
- Inlet
- Catch Basin / Yard Drain
- Curb Stop
- Hydrant
- Utility Valve
- Utility Pole
- Light Pole / Signal
- Guy Wire
- Air Conditioner
- +799.9 Ex Spot Elevation
- Sign
- Post / Guard Post
- Deciduous Tree
- Benchmark
- Asphalt Pavement
- Concrete Pavement
- Gravel
- 1" Iron Pipe Found

LOCATION MAP



SITE INFORMATION:

Site Address: 3600 Electric City Blvd.
 Parcel #: 322112801
 Current Use: Industrial (storage facility)

Current Zoning: IND (Industrial)
 Adjacent Zoning: IND
 North: IND
 South: IND
 East: IND
 West: IND

Site Areas

Parcel Area: 441,017 SF (10.12 Ac.)

Existing Building Area: 103,143 SF
 Existing Pavement Area: 97,973 SF
 Total Existing Impervious: 201,116 SF (45.60%)
 Existing Green Space: 239,901 SF

Proposed Building Expansion: 28,340 SF
 Proposed Pavement Expansion: 12,472 SF
 Total Impervious Expansion: 40,812 SF

Total Building Area: 131,483 SF
 Total Pavement Area: 110,445 SF
 Total Impervious: 241,928 SF (54.86%)
 Total Green Space: 199,089 SF (45.14%)

PARKING CALCULATIONS

Existing Parking Stalls: 77 (including 3 Handicap)
 Additional Parking Stalls: 0
 Total Proposed Parking Stalls: 77

PROPERTY OWNER:

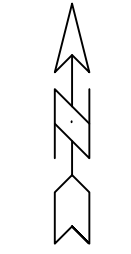
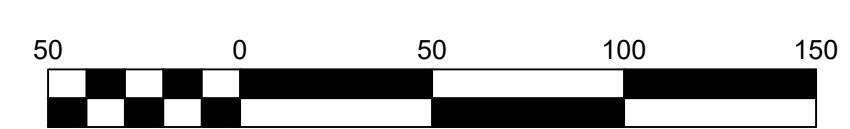
KCS Real Estate Ventures, LLC
 3600 Electric City Blvd.
 Kaukauna, WI 54130
 Telephone: (920)

ARCHITECT:

Gries Architectural Group, Inc.
 500 North Commercial Street
 Neenah, WI 54956
 Telephone: (920) 722-2445

SHEET INDEX:

Sheet	Page
Site Plan	C1.0
Topographic Survey	C1.1
Drainage, Grading, & Utility Plan	C1.2
Erosion & Sediment Control Plan	C1.3
Construction Details	C2.1
Erosion & Sediment Control Details	C2.2



NOT FOR CONSTRUCTION:
 Pending wetland delineation
 & permitting (if required).

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

SITE PLAN

Holland Cold Storage
 City of Kaukauna, Outagamie County, WI
 For: Gries Architectural Group Inc.

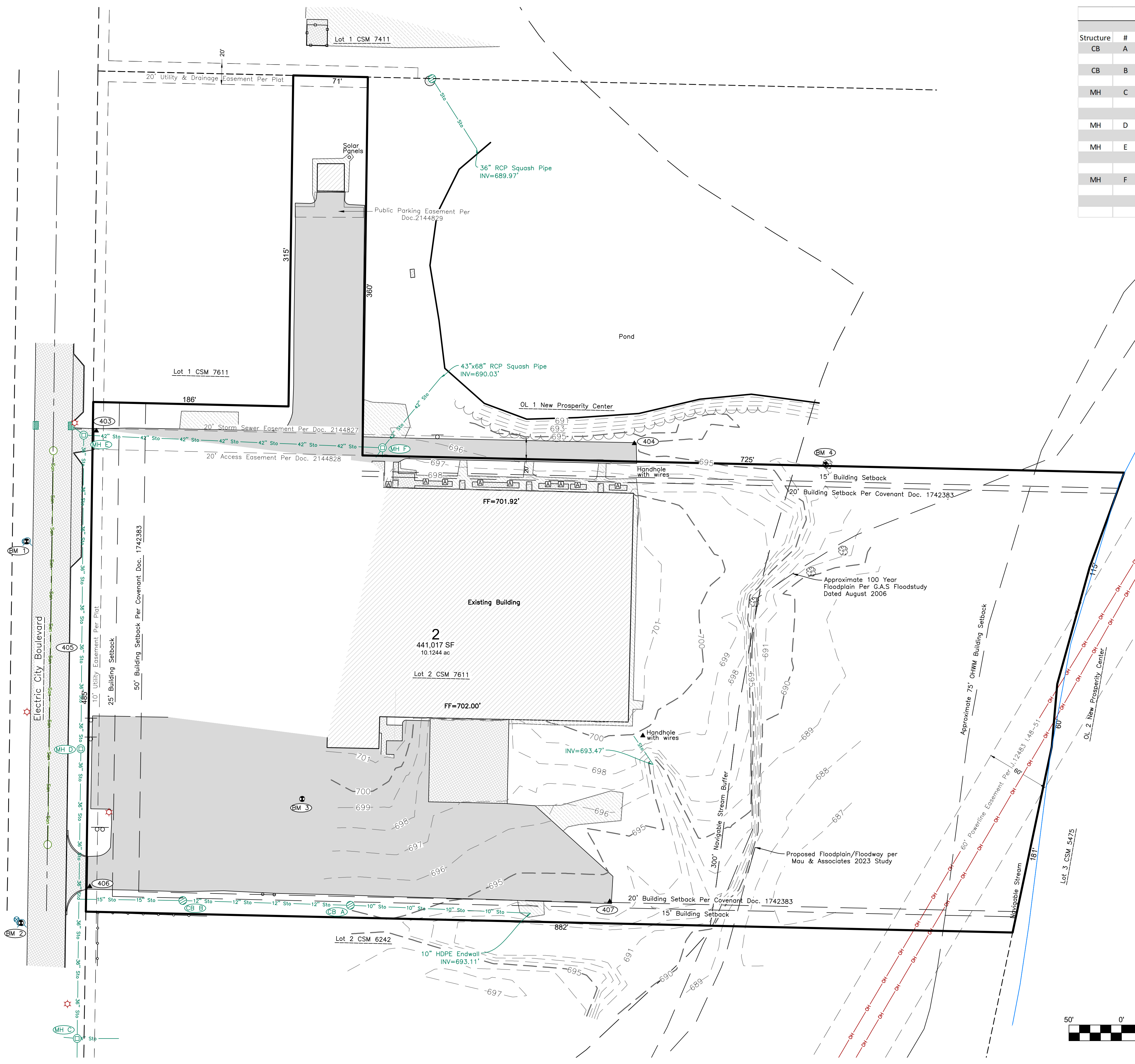
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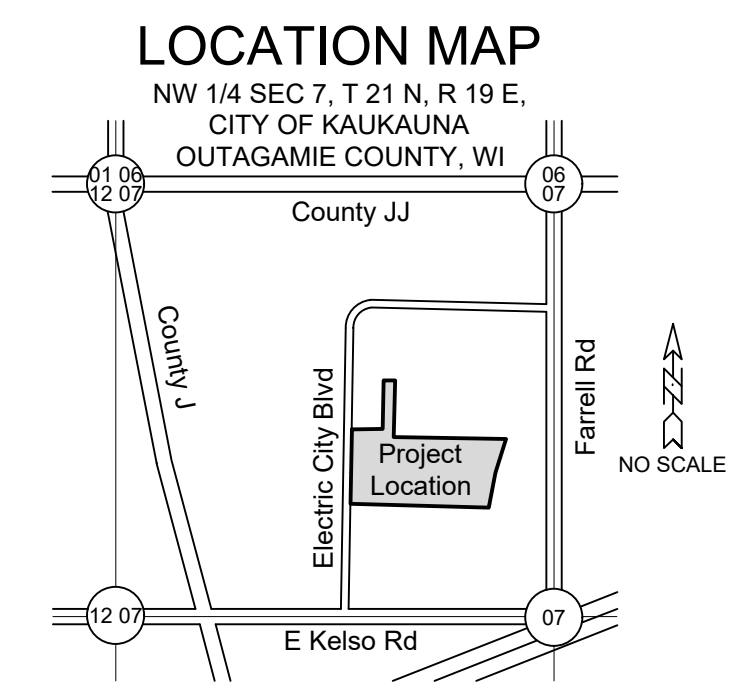
Author: TNW

Last Saved by: tim

Page: C1.0



Storm Structures						
Structure	#	Rim	Inv	Size	Material	Direction
CB	A	695.10	692.50	12"	HDPE	W
			692.50	10"	HDPE	E
CB	B	695.10	691.70	15"	HDPE	W
			691.70	12"	HDPE	E
MH	C	696.13	690.83	36"	RCP	N
			690.83	36"	RCP	S
MH	D	697.49	690.83	24"	HDPE	E
			690.49	36"	RCP	N
MH	E	695.95	690.05	48"	RCP	S
			690.05	42"	RCP	E
MH	F	696.27	690.05	24"	HDPE	NW
			689.87	42"	RCP	W
			689.87	42"	RCP	NE
			693.17	10"	PVC	SW
			692.37	18"	HDPE	S



BENCHMARKS (Datum NAVD88)

BM 0	NGS Benchmark PID and Designation - PN0644 Elev 695.39
BM 1	Fire Hydrant, Tag Bolt On West R/W, Adjacent to North Entrance to Site Elev 698.36
BM 2	Fire Hydrant, Tag Bolt On West R/W, Adjacent to South Entrance to Site Elev 698.66
BM 3	Chiseled Square, South End Top of Loading Dock Wall ±225' Northeast of South Entrance to Site Elev 701.96
BM 4	Nail in Tree ±700' East of North Entrance to Site Elev 695.28

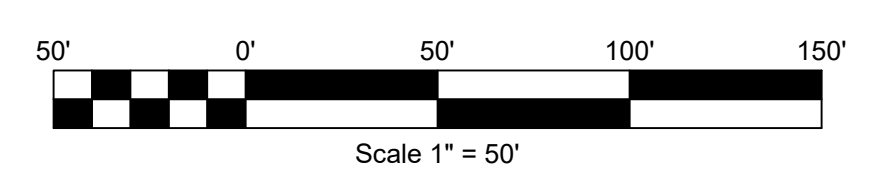
Horizontal Control			
Holland Cold Storage - (City of Kaukauna)			
2025-10-28			
Davel Engineering and Environmental			
Horizontal Control (per Outagamie County Coordinate System)			
Point Number	Northing	Eastings	Description
403	580359.12	869426.03	Control MAG
404	580347.11	869938.04	Control MAG
405	580142.47	869400.43	Control MAG
406	579925.49	869419.78	Control MAG
407	579911.17	869914.68	Control MAG

General Notes:

- Zoning Information**
City of Kaukauna
Industrial (IND) District
Setbacks:
Front Yard: 25 Feet 50 Feet Per Covenant
Side Yard: 15 Feet 20 Feet Per Covenant
Rear Yard: 30 Feet 20 Feet Per Covenant

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.
- Public Trust Information**
s.236.20 (6) "Any land below the ordinary high water mark of a lake or a navigable stream is subject to the public trust in navigable waters that is established under article IX, section 1, of the state constitution."
- 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 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.
- This is not a boundary survey.

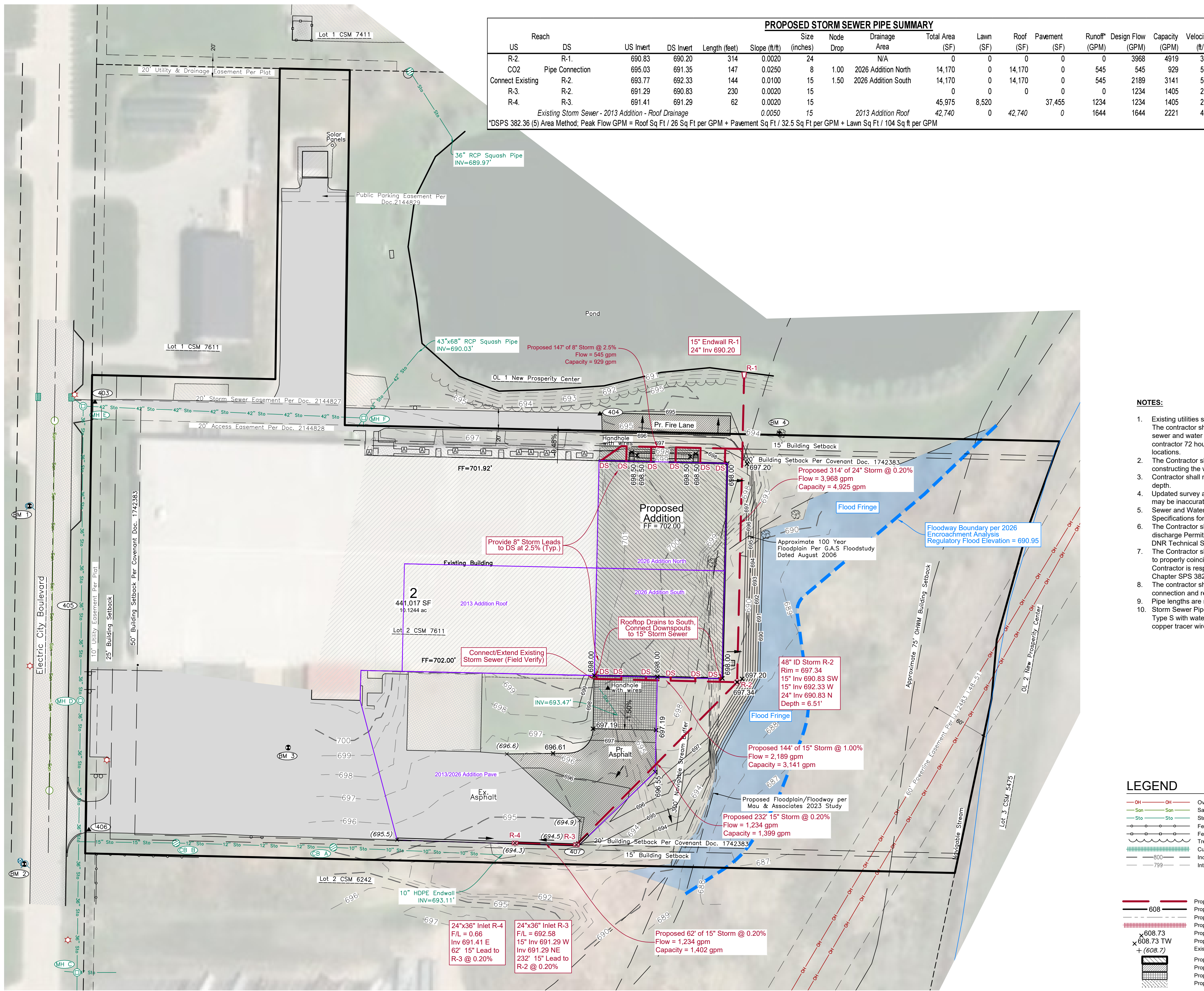
LEGEND			
	Overhead Utility Lines		Sanitary MH / Tank / Base
	Sanitary Sewer (Pipe Size)		Storm Manhole
	Storm Sewer (Pipe Size)		Inlet
	Fence - Steel		Catch Basin / Yard Drain
	Fence - Wood		Curb Stop
	Treeline		Hydrant
	Culvert		Utility Valve
	Index Contour - Existing		Utility Pole
	Intermediate Contour - Existing		Light Pole / Signal
			Guy Wire
			Air Conditioner
			+799.9 Ex Spot Elevation
			Sign
			Post / Guard Post
			Deciduous Tree
			Benchmark
			Asphalt Pavement
			Concrete Pavement
			Gravel
			1" Iron Pipe Found



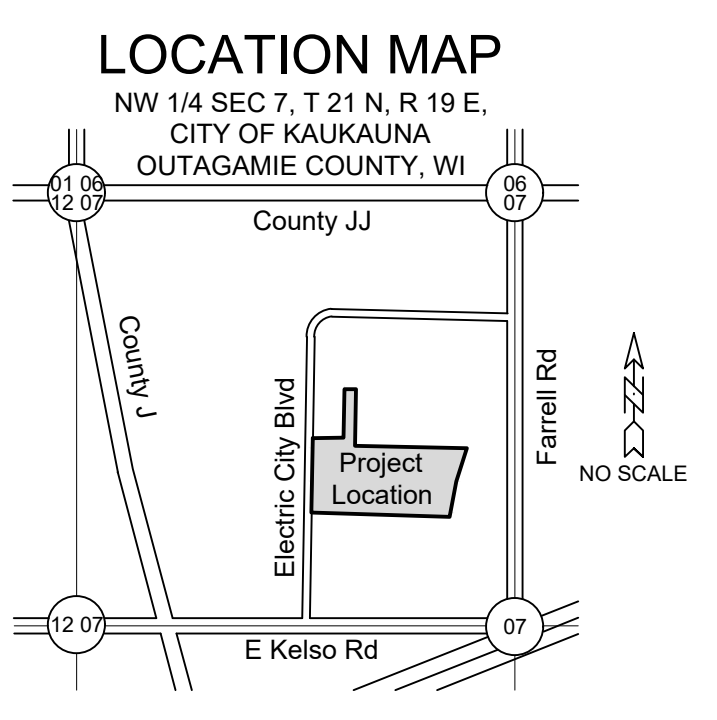
DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

TOPOGRAPHIC SURVEY

Holland Cold Storage
 City of Kaukauna, Outagamie County, WI
 For: Gries Architectural Group Inc.

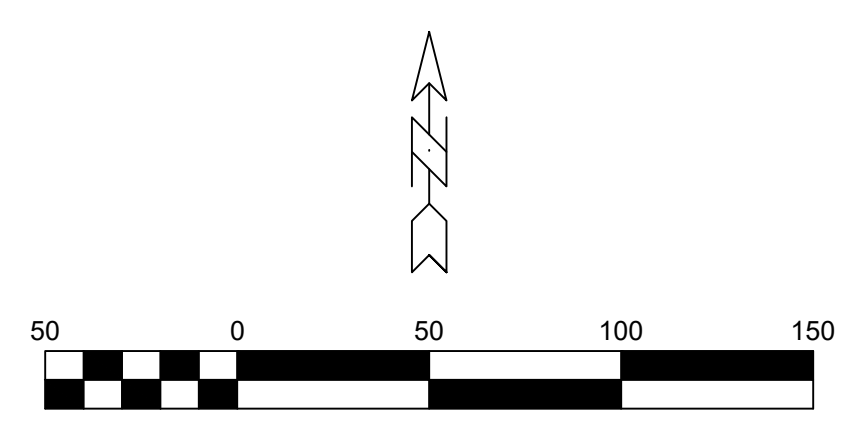


PROPOSED STORM SEWER PIPE SUMMARY																	
Reach	US DS	US Invert	DS Invert	Length (feet)	Slope (ft/ft)	Size (inches)	Node Drop	Drainage Area	Total Area (SF)	Lawn (SF)	Roof (SF)	Pavement (SF)	Runoff (GPM)	Design Flow (GPM)	Capacity (GPM)	Velocity (ft/s)	Capacity Check
R-2	R-1	690.83	690.20	314	0.0020	24	N/A		0	0	0	0	0	3968	4919	3.5	--
CO2	Pipe Connection	695.03	691.35	147	0.0250	8	1.00	2026 Addition North	14,170	0	14,170	0	545	545	929	5.9	--
Connect Existing	R-2	693.77	692.33	144	0.0100	15	1.50	2026 Addition South	14,170	0	14,170	0	545	2189	3141	5.7	--
R-3	R-2	691.29	690.83	230	0.0020	15			0	0	0	0	0	1234	1405	2.6	--
R-4	R-3	691.41	691.29	62	0.0020	15			45,975	8,520	37,455	0	1234	1234	1405	2.6	--
Existing Storm Sewer - 2013 Addition - Roof Drainage									42,740	0	42,740	0	1644	1644	2221	4.0	--
									*DPS 382.36 (5) Area Method; Peak Flow GPM = Roof Sq Ft / 26 Sq Ft per GPM + Pavement Sq Ft / 32.5 Sq Ft per GPM + Lawn Sq Ft / 104 Sq Ft per GPM								



- BENCHMARKS** (Datum NAVD88)
- BM 0 NGS Benchmark
PID and Designation - PN0644
Elev 695.39
 - BM 1 Fire Hydrant, Tag Bolt
On West RW, Adjacent to North Entrance to Site
Elev 698.36
 - BM 2 Fire Hydrant, Tag Bolt
On West RW, Adjacent to South Entrance to Site
Elev 698.66
 - BM 3 Chiseled Square, South End Top of Loading Dock Wall
±225' Northeast of South Entrance to Site
Elev 701.96
 - BM 4 Nail in Tree
±700' East of North Entrance to Site
Elev 695.28

- NOTES:**
- 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.
 - 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.
 - Contractor shall remove all excess materials from the site. Earthwork contractors shall verify topsoil depth.
 - Updated survey and title search have not been authorized and the boundary and easements shown may be inaccurate or incomplete.
 - Sewer and Water shall be constructed in accordance with the State of Wisconsin Standard Specifications for Sewer and Water Construction, and all Special Provisions of the City of Kaukauna.
 - 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 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.
 - 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.



LEGEND

OH	Overhead Utility Lines	Sanitary MH / Tank / Base	Sign
SS	Sanitary Sewer (Pipe Size)	Storm Manhole	Post / Guard Post
Sto	Storm Sewer (Pipe Size)	Inlet	Deciduous Tree
Sto	Storm Sewer (Pipe Size)	Catch Basin / Yard Drain	Benchmark
---	Fence - Steel	Curb Stop	Asphalt Pavement
---	Fence - Wood	Hydrant	Concrete Pavement
---	Treeline	Utility Valve	Gravel
---	Culvert	Utility Pole	1" Iron Pipe Found
---	Index Contour - Existing	Light Pole / Signal	
---	Intermediate Contour - Existing	Guy Wire	
	Air Conditioner	Ex Spot Elevation	
---	Proposed Storm Sewer	Proposed Storm Manhole	
---	Proposed Contour	Proposed Curb Inlet	
---	Proposed Swale	Prop. Catch Basin / Yard Drain	
---	Proposed Culvert	Proposed Endwall	
---	Prop. Flowline Spot Elev.	Proposed Rip Rap	
---	Prop. Top of Walk Elev.	Prop. Drainage Direction	
---	Existing Grade	Prop. Finished Floor Elev.	
---	Proposed Building	Emergency Overflow for Runoff	
---	Proposed Asphalt	DS	Downspout Connection to Storm Sewer
---	Proposed Concrete		
---	Proposed Gravel		

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
Civil Engineers and Land Surveyors
1164 Province Terrace, Menasha, WI 54952
Ph: 920-991-1966
www.davelpro

DRAINAGE, GRADING, & UTILITY PLAN

Holland Cold Storage
City of Kaukauna, Outagamie County, WI
For: Gries Architectural Group Inc.

Date: 03/2/2026
Filename: 9151Engr.dwg
Author: TNW
Last Saved by: tim
Page: C1.2

NOT FOR CONSTRUCTION



Planned Sediment and Erosion Control Practices

All erosion control practices shall be in place prior to disturbing the site. Post municipal and/or DNR Certificate of Permit Coverage onsite and maintain until construction activities have ceased and the site is stabilized. Keep a copy of the erosion control plan onsite throughout the duration of construction. 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 control measures shall be maintained on a continuing basis until the site is permanently stabilized. Erosion controls must be in place at the end of each work day with all off-site sediments being cleaned daily or as necessary. Sediment flushing is not 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 will be used to route runoff to the swales, storm inlets, and public rights-of-way.
 - b) Temporary 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. Unlike a permanent diversion, the temporary diversion will be removed upon the completion of the project. Temporary diversions will be used uplope of any soil piles to reduce the amount of sediment transported. All diversions shall be installed and maintained in accordance with **DNR Technical Standard 1066**.
 - Protect biofiltration devices and vegetation from runoff during construction. Construction site runoff from disturbed areas shall be diverted from biofiltration devices until the area is stabilized. Refer to **WDNR Technical Standard 1004**.
- 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:
 - along the site boundary where runoff will leave the site;
 - along a contour of similar elevation located downslope of a disturbed drainage area;
 - at the toe of soil piles if the pile will remain in place for more than seven (7) days.
 - b) Interim Manufactured Perimeter Control and Slope Interruption Products - Intended to detain or slow the flow of sediment-laden sheet flow runoff from small areas of disturbed soil, most commonly in the form of a sediment log. Sediment logs and other slope interruption products shall be installed and maintained in accordance with **DNR Technical Standard 1071**.
 - c) Temporary Grading Practices for Erosion Control - Intended to minimize erosion and sediment transport during grading operations on construction sites. Stage construction grading activities to minimize the cumulative exposed area. Conduct temporary grading for erosion control per **DNR Technical Standard 1067**.
 - d) 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 with installation per manufacturer specifications.
 - e) Seeding - Seeding will be used on all disturbed areas within seven days of the completion of the activity that will disturb the area. All seeding shall be in accordance with **DNR Technical Standard 1059**. Seed mixture 3D (per WisDOT Specifications, Section 630) shall be applied at 5 pounds per 1,000 square feet for permanent seeding prior to September 15th. 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 November 1st. Sod placement may occur at any time sod is available and the
 - a) Armored Waterway - Intended to establish a non-erosive lining in the channel to prevent erosion. This can be accomplished using riprap. Riprap will be used in the following areas:
 - pipe outfalls as indicated on the plans
- 3) Permanent Channel Stabilization
 - a) Inlet Protection - Intended to establish a non-erosive lining in the channel to prevent erosion. This can be accomplished using riprap. Riprap will be used in the following areas:
 - pipe outfalls as indicated on the plans
- 5) Inlet Protection Barriers - Intended to prevent the sedimentation of storm water conveyance structures. All Inlet Protection Barriers shall be installed and maintained in accordance with **DNR Technical Standard 1060**. As required, inlet protection barriers will be used at all storm sewer inlets as indicated on the plans. Type D-HR or D-M inlet protection shall be installed and maintained at all storm sewer surface inlets during construction.
- 6) Stone Tracking Pad - Intended to reduce the amount of sediment transported onto public roads. The Tracking Pad shall be installed and maintained in accordance with **DNR Technical Standard 1057**. A tracking pad will be constructed at the site entrance with daily maintenance to remove any sediment accumulation on the existing driveway.
- 7) Dust Control - Intended to reduce surface to air transport of dust during construction. Dust control shall be implemented with use of methods in accordance with **DNR Technical Standard 1068**. These methods include the use of polymers, seeding, and mulch.
- 8) Dewatering BMP - Intended to reduce the amount of sediment conveyed due to dewatering practices. Dewatering practices require compliance with **DNR Technical Standard 1061**.
 - a) If dewatering is required, the contractor will need to direct the discharge to a stable outlet. The pump shall discharge into a Type 1 Sediment Bag. The bag shall discharge to the treatment channel. The treatment channel shall consist of the following:
 - A flat bottom that is six-feet wide
 - Length not less than fifty-feet. Actual length required to be determined by onsite soil test.
 - Lined with a woven separation fabric covered by jute netting.
 - Floculants shall be placed in the channel perpendicular to the direction of flow. Spacing to be determined by onsite testing.
 - b) Prior to dewatering, a qualified contractor shall perform the sediment testing and select the proper floculants and determine the necessary length of the treatment channel.
 - c) Upon completion of the dewatering operation, all materials must be disposed of properly. The jute netting can be buried on site. The separation fabric must be removed from the site. Disposal of all materials shall be in accordance with all state and local requirements.
 - d) A DNR High Capacity Well Approval may be necessary for dewatering activities that will exceed a cumulative pump capacity of 70 GPM.
- 9) Waste Material - All onsite waste and construction materials shall be handled and disposed of properly. No pavement material, runoff from concrete washout, or other waste material is allowed to enter the storm sewer system or receiving waters.

Refer to https://dnr.wisconsin.gov/topic/Stormwater/standards/const_standards.html for copies of WDNR Stormwater Construction Technical Standards.

Sequence of Construction

- 1) Obtain plan approval and other applicable permits.
- 2) Install all erosion control measures, strip topsoil. **July 2026**
- 3) Utility Construction: **July 2026**
- 4) Grade & Gravel parking and drive areas. Field inspect and add additional measures if necessary. **July 2026**
- 5) Construct building. **July 2026- January 2027**
- 6) Paving: **October 2026**
- 7) Establish vegetation (lawn and ditch areas) no later than one week after final grade is established. **No later than September 15, 2026 or immediately upon completion.**
- 8) Watering may be necessary to establish healthy and well rooted vegetation. Temporary measures shall be removed once final site stabilization has occurred (greater than 70-percent final vegetative cover).

Note: The dates provided are approximate for construction and subject to weather conditions and overall project schedule. Several work items as listed above may occur simultaneously with others.

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:

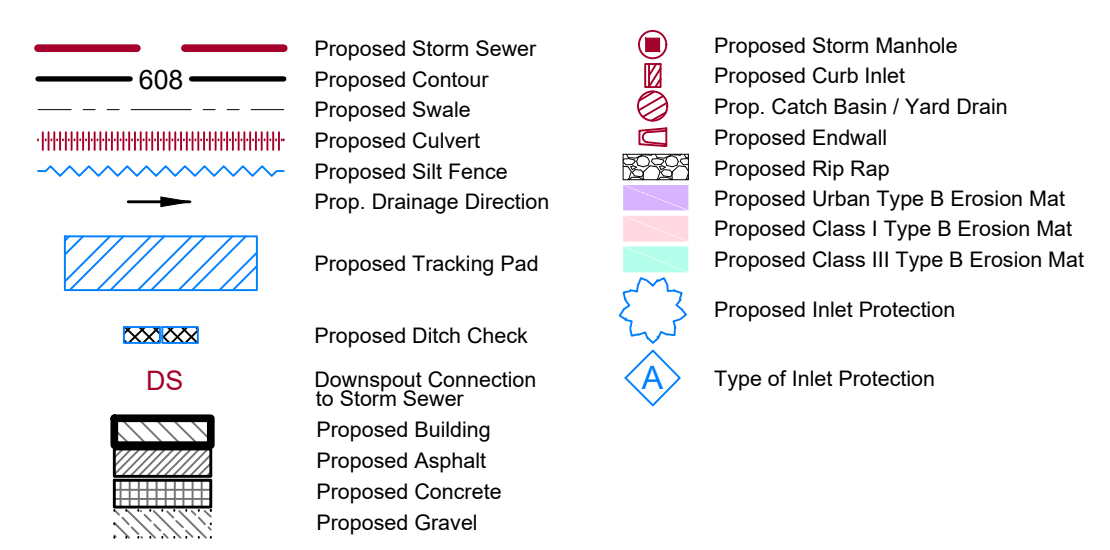
- 1) All seeded areas will be re-seeded and mulched as necessary according to the specifications in the planned practices to maintain a vigorous, dense vegetated cover.
- 2) Remove silt fence and temporary structures only after final stabilization and vegetative cover is established.
- 3) Avoid the use 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 <http://dnr.wi.gov/topic/stormwater/construction/forms.html> for a template. Upon request, the inspection reports shall be made available to the owner, the engineer, City of Kaukauna, or the Wisconsin Department of Natural Resources.

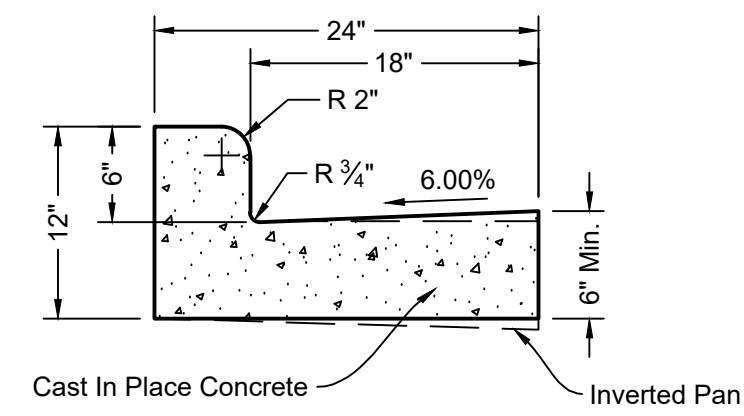
Responsible Parties

Best Management Practices (BMPs) Construction and Maintenance:
To be determined

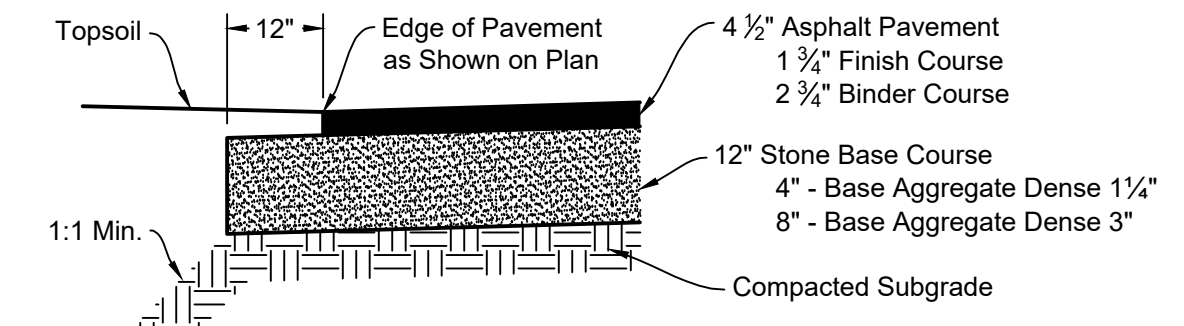
Inspection and Compliance Enforcement
City of Kaukauna
Wisconsin Department of Natural Resources



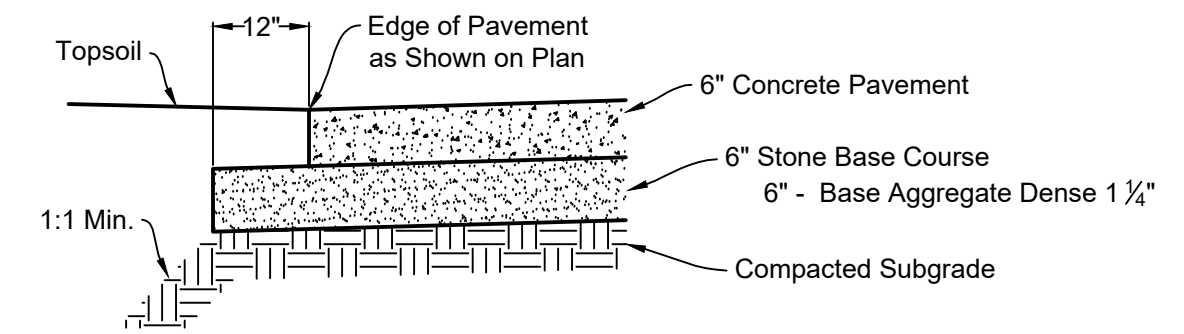
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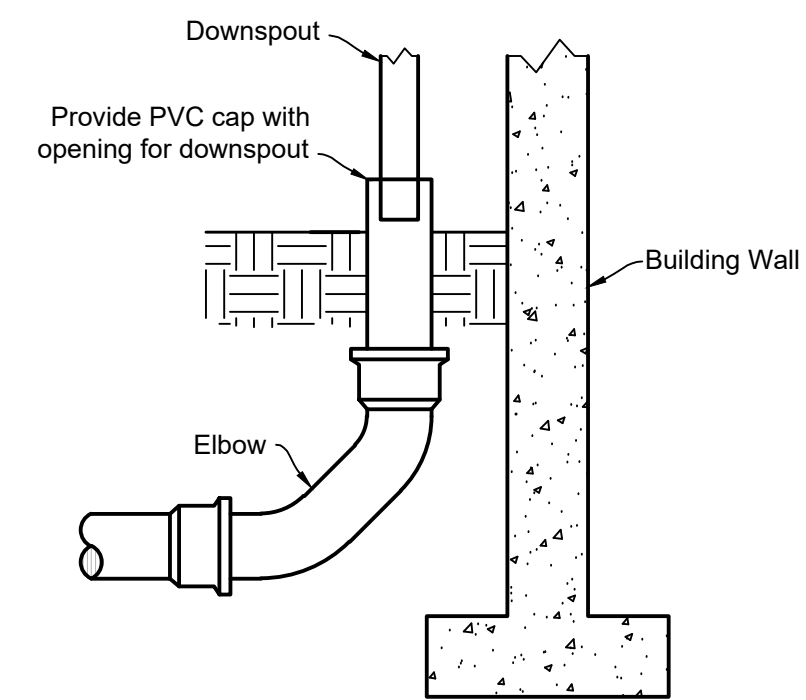
24" STANDARD CURB



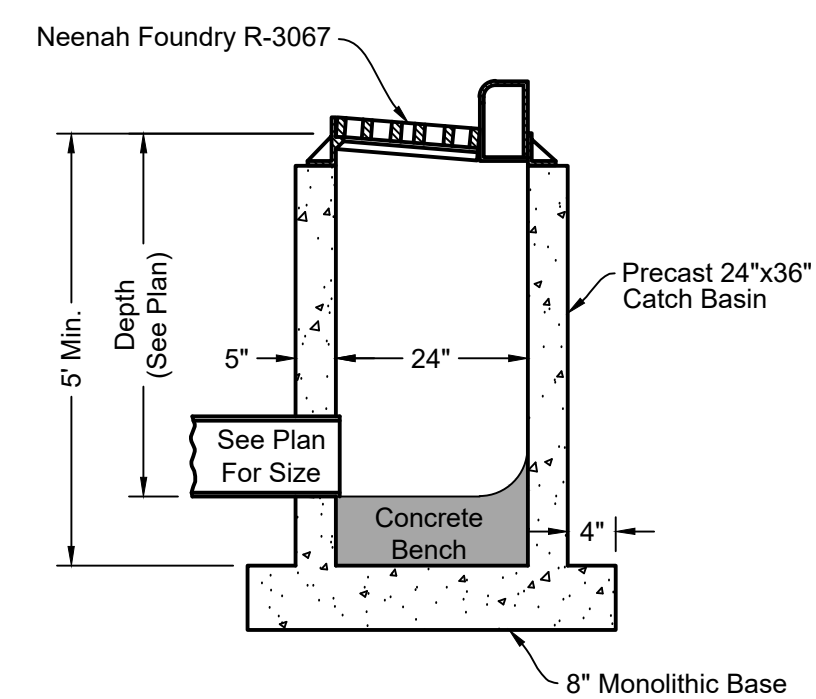
ASPHALT PAVEMENT SECTION



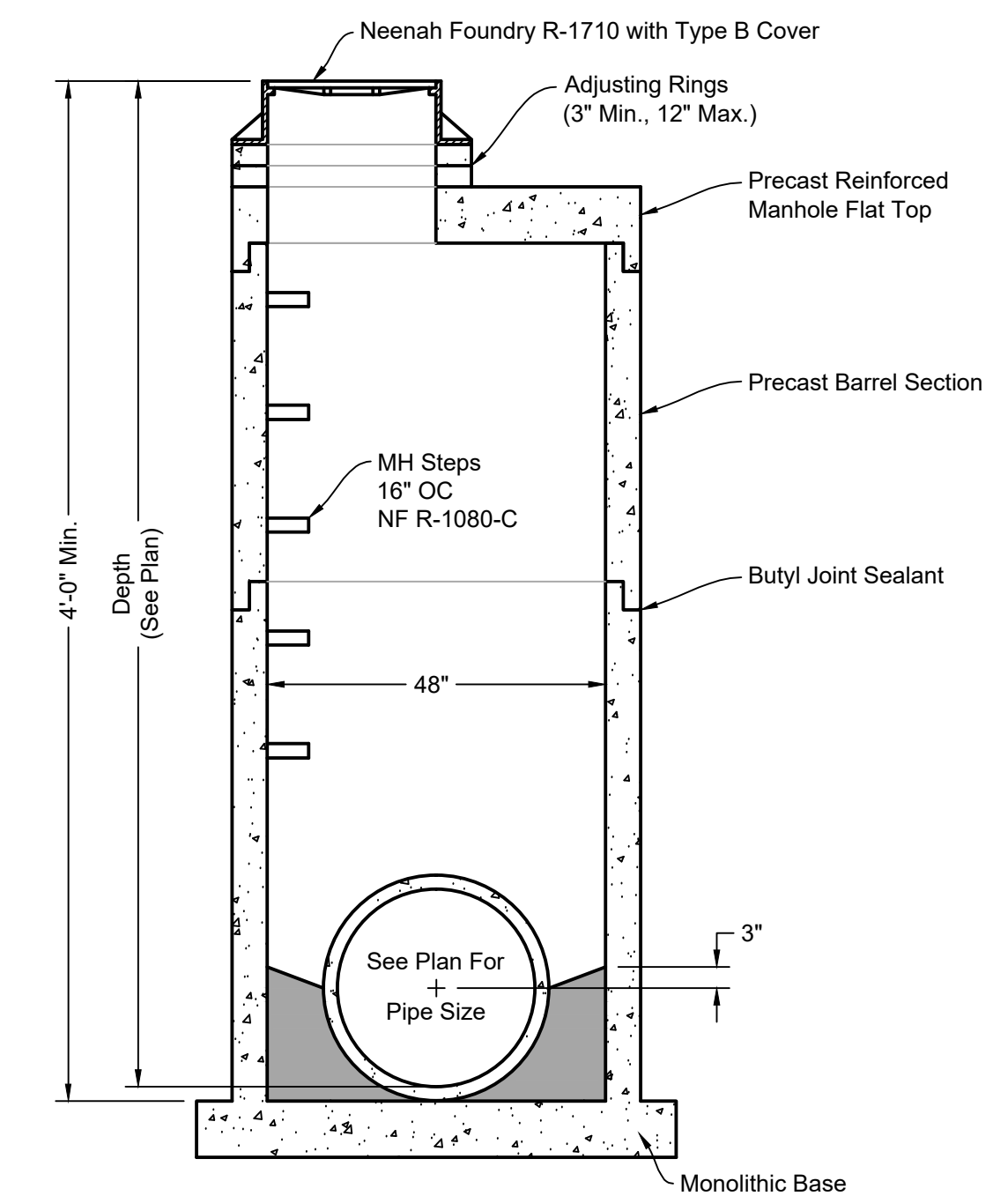
CONCRETE PAVEMENT SECTION



ROOF DRAIN CONNECTION TO STORM SEWER



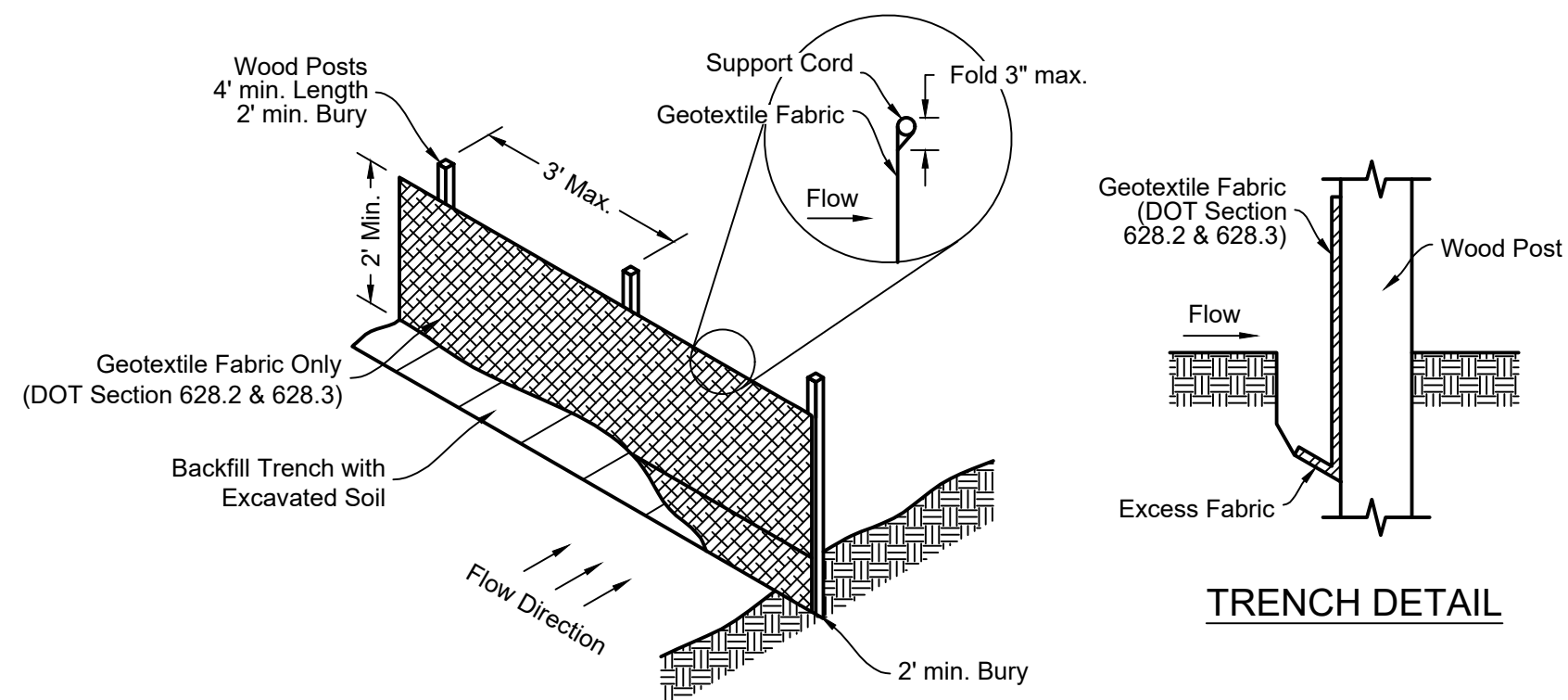
CURB INLET DETAIL



STANDARD STORM MANHOLE

CONSTRUCTION DETAILS

Holland Cold Storage
 City of Kaukauna, Outagamie County, WI
 For: Gries Architectural Group Inc.



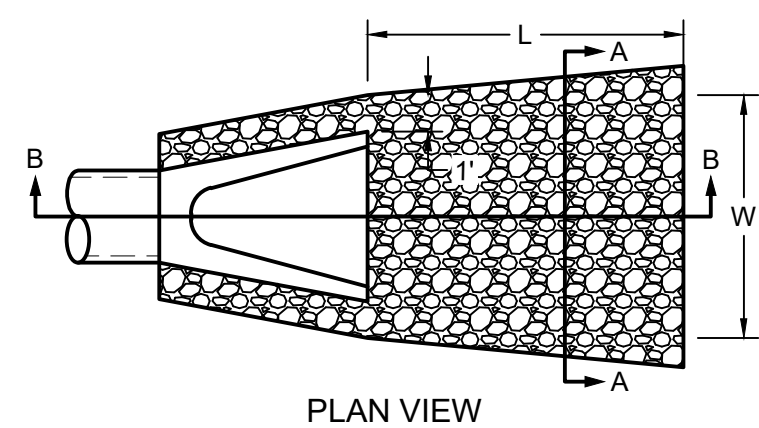
TRENCH DETAIL

Silt fence notes:

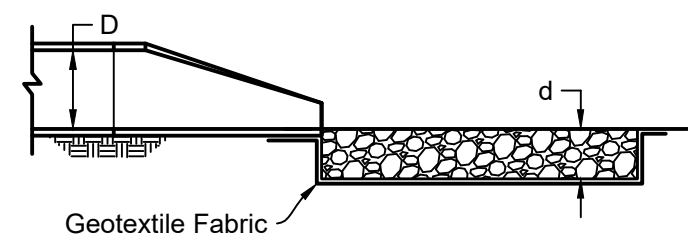
- Detail of construction not shown on this drawings shall conform to criteria set by authorities having jurisdiction and by DNR Technical Standard 1056.
- When possible, the silt fence should be constructed in an arc or horseshoe shape with the ends pointing upslope to maximize both strength and effectiveness.
- Attach the fabric to the posts with wire staples or wooden lath and nails.
- 8'-0" post spacing allowed if a woven geotextile fabric is used.
- 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.
- Geotextile fabric shall be reinforced with an industrial polypropylene netting with a maximum mesh spacing of 3/4" or equal. A heavy-duty nylon top support chord or equivalent is required.
- Steel posts shall be studded "tee" or "u" type with a minimum weight of 128 lbs/lineal foot (without anchor). Fin anchors shall be a minimum size of 4" diameter or 1 1/2" x 3 1/2", except wood posts for geotextile fabric reinforced with netting shall be a minimum size of 1 1/8" x 1 1/8" oak or hickory.

SILT FENCE INSTALLATION

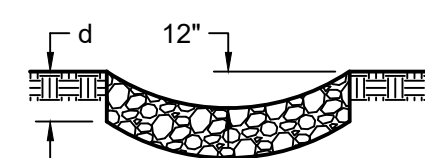
DNR TECHNICAL STANDARD 1056



PLAN VIEW



SECTION B-B



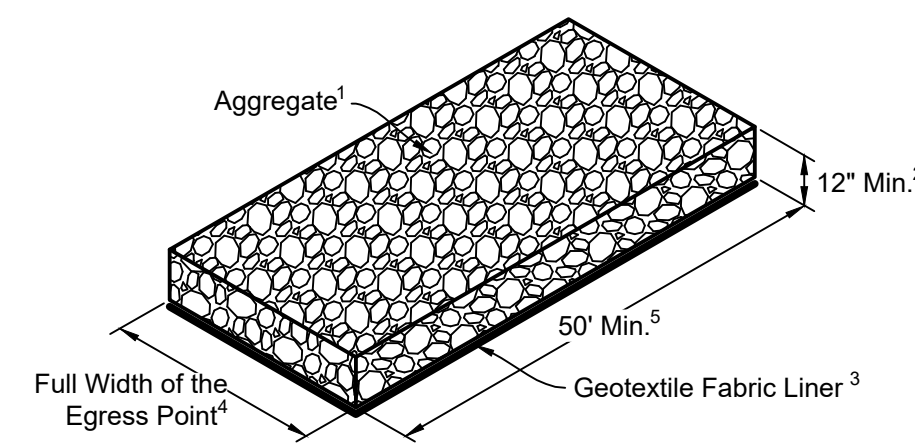
SECTION A-A

D	12"	15"	18"	21"	24"	30"	36"	42"	48"	54"	60"
L	10'	12'	18'	20'	20'	25'	28'	33'	37'	40'	45'
W	11"	13"	20"	22"	24"	28"	32"	38"	42"	45"	50"
d	12"	12"	12"	18"	18"	18"	24"	24"	24"	24"	24"
Riprap	Light	Light	Light	Med.	Med.	Med.	Heavy	Heavy	Heavy	Heavy	Heavy
cu yds	2.6	3.6	7.8	14.3	15.6	22.6	38.4	53.2	65.8	76.3	95.0

Notes:

- 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.
- 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)
- Exercise care in placement of riprap to avoid damage to filter fabric.
- Use riprap conforming to Wisconsin DOT specifications. (DOT Section 606.2 & 606.3)
- 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)
- Use 12" dimension for pipes less than 12" in diameter.

OUTLET PROTECTION



TRACKING PAD DETAIL

DNR TECHNICAL STANDARD 1057

Note 1 Use hard, durable, angular stone or recycled concrete meeting the gradation in Table 1. Where this gradation is not available, meet the gradation in Wisconsin Department of Transportation (DOT) 2022 Standard Specification, Section 312. Select Crushed Material.

Note 2 Slope the stone tracking pad in a manner to direct runoff to an approved treatment practice.

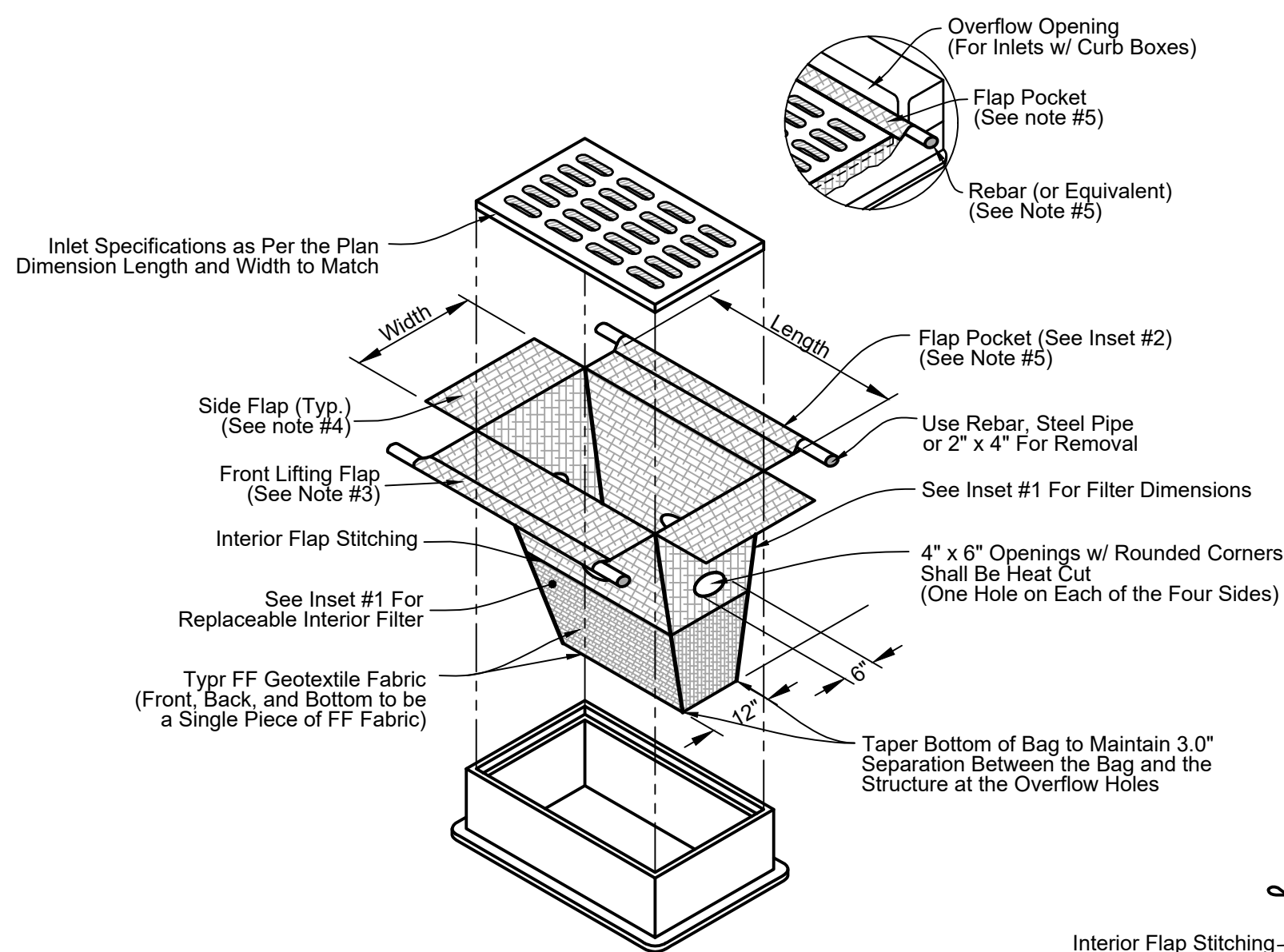
Note 3 Select fabric type based on soil conditions and vehicles loading.

Note 4 Install tracking pad across full width of the access point, or restrict existing traffic to a dedicated egress lane at least 12 feet wide across the top of the pad.

Note 5 If a 50' pad length is not possible due to site geometry, install the maximum length practicable and supplement with additional practices as needed.

TABLE 1: GRADATION FOR STONE TRACKING PADS

Sieve Size	Percent by weight passing
3"	100
2-1/2"	90-100
1-1/2"	25-60
3/4"	0-20
3/8"	0-5



INLET PROTECTION, TYPE D-M

DNR TECHNICAL STANDARD 1060

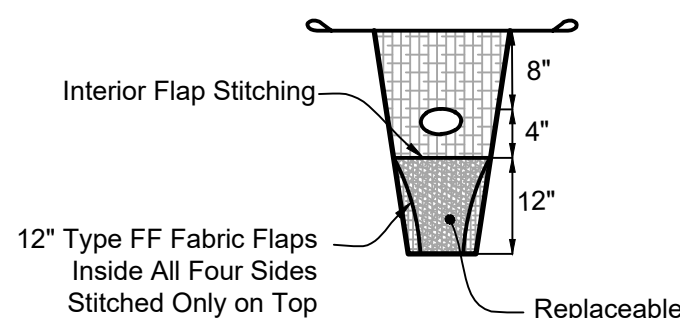
(CAN BE INSTALLED IN ANY INLET WITH OR WITHOUT A CURB BOX)

NOTES:

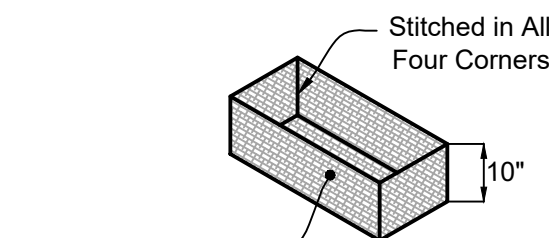
- Taper bottom of bag to maintain three inches of clearance between the bag and the structure, measured from the bottom of the overflow openings to the structure wall.
- Geotextile fabric, Type FF for flaps, top and bottom of outside of filter bag. Front, back and bottom of filter bag being one piece.
- Front lifting flap is to be used when removing and maintaining filter bag.
- Side flaps shall be a maximum of two inches long. Fold the fabric over and reinforce with multiple stitches.
- Flap pockets shall be large enough to accept wood 2" x 4". The rebar, steel pipe, or wood shall be installed in the rear flap and shall not block the top half of the curb face opening.

MAINTENANCE NOTES:

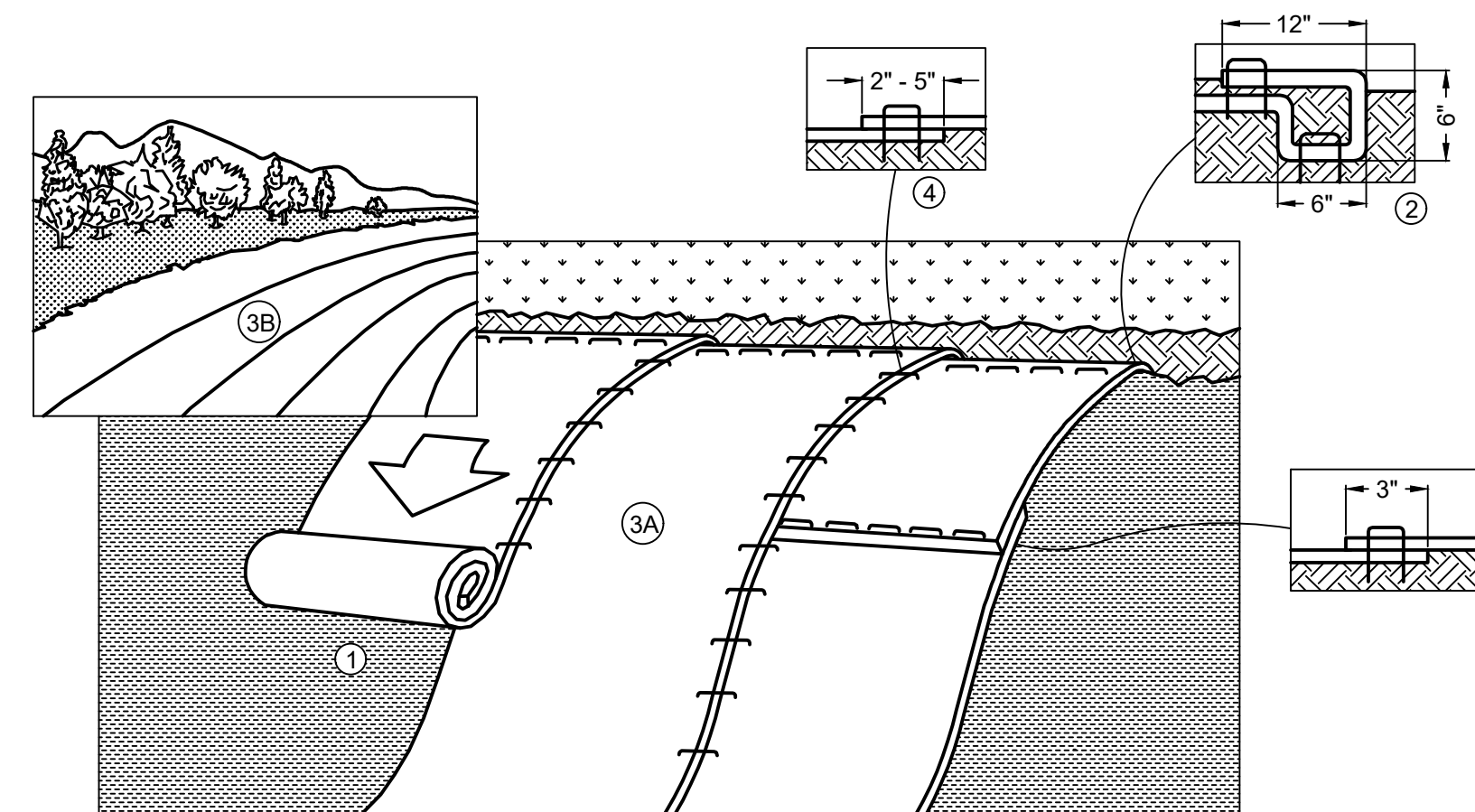
- When removing or maintaining inlet protection, care shall be taken so that the sediment trapped in the fabric does not fall into the structure. Material that has fallen into the inlet shall be immediately removed.



12" Type FF Fabric Flaps Inside All Four Sides Stitched Only on Top



Type DF or Type R Geotextile Fabric



- 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.

- 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.
- 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.

- The edges of parallel RECP's must be stapled with approximately 2" - 5" (5 cm - 12.5 cm) overlap depending on RECP's type.
- 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.

- Detail provided by North American Green (www.nagreen.com)
- 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