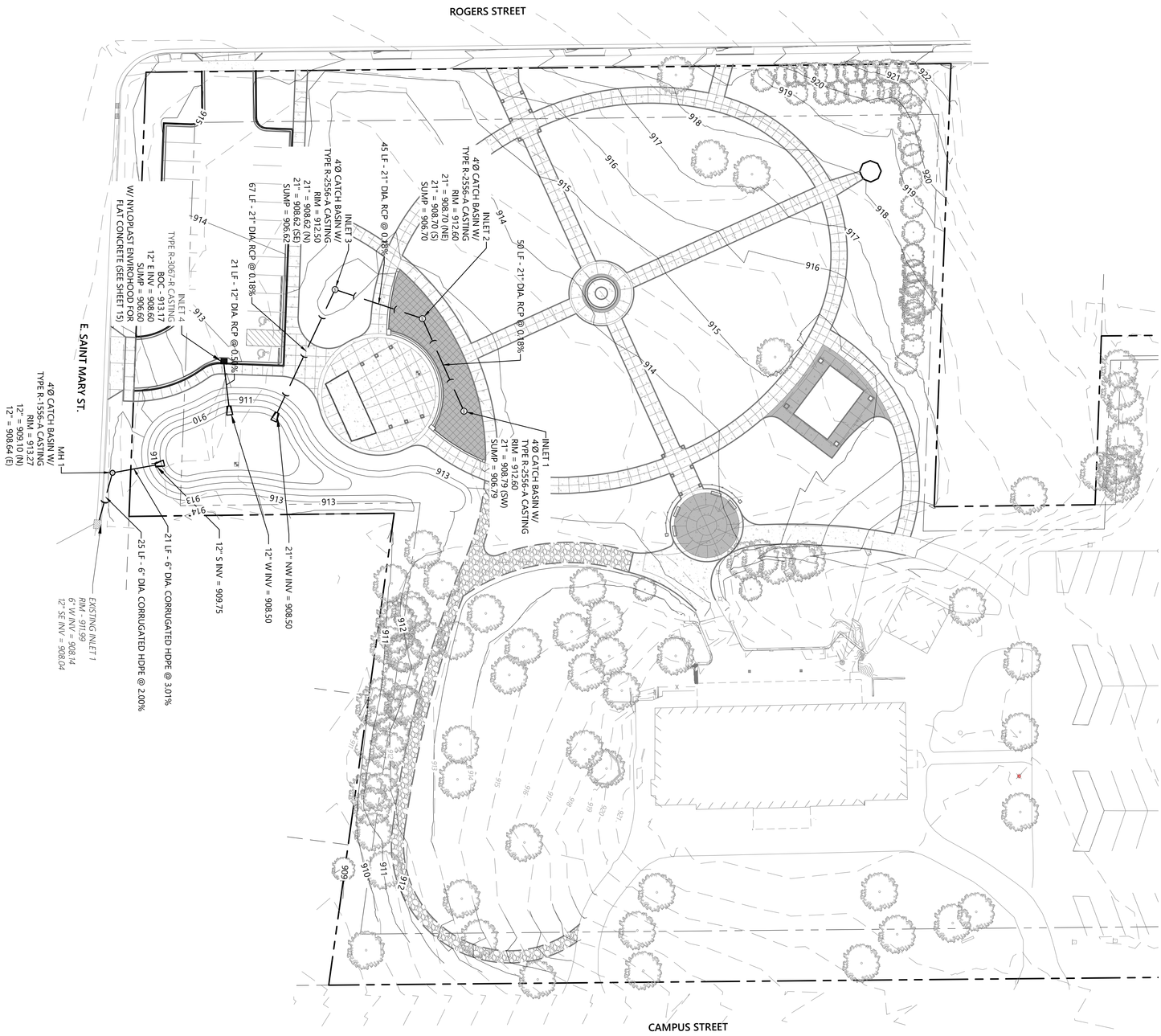

NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION

DESIGNED BY:	MJG/NJ
DRAWN BY:	LC
CHECKED BY:	-
APPROVED BY:	-
PROJECT NO:	33558

SHEET NO. 8 OF 15

THE GATHERING PLACE
NEW PAVILION AND SITE IMPROVEMENTS
CITY OF MILTON
ROCK COUNTY, WISCONSIN

33358 - X - STORM DRAINAGE PLAN.DWG

STORM DRAINAGE PLAN

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

ISSUANCE

WDNR NOI	04/17/2020
CITY OF MILTON PERMIT	04/23/2020
REVISIONS	06/26/2020
-	-
-	-
-	-

Batterman
engineers surveyors planners
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Beloit, Wisconsin 53511
www.rhbatterman.com

I. EXECUTIVE SUMMARY

The general contractor, site work contractor, and all subcontractors involved with a construction activity that disturbs site soil or who implement a pollutant control measure identified in the Storm Water Pollution Prevention Plan (SWPPP) must comply with the following requirements of the National Pollution Discharge Elimination Systems (NPDES) General Permit of the local governing agency having jurisdiction concerning erosion and sedimentation control (City of Milton).

A. Submittal of a completed Notice of Intent (NOI) to the Wisconsin DNR, is mandatory for any landowner who intends to discharge storm water from a construction site to waters of the state. A completed NOI must be submitted to the DNR for approval.

B. A copy of the Notice of Intent (NOI) and a description of the project must be posted in a prominent place for public viewing at the construction site.

C. Complete copy of the SWPPP, including copies of all inspection reports, plan revisions, etc., must be retained at the project site at all times during working hours and kept in the permanent project records for at least six years following submission of the Notice of Termination (NOT).

D. The general contractor and sitework contractor must provide names and addresses of all subcontractors working on this project who will be involved with the major construction activities that disturb site soil. That information must be kept with this SWPPP.

E. As described previously, regular inspections must be made to determine effectiveness of the SWPPP. It would be modified as needed to prevent pollutants from discharging from the site. The inspector must be a person familiar with the site, the nature of the major construction activities, and qualified to evaluate both overall system performance and individual component performance. Additionally, the inspector must either be someone empowered to implement modifications to this SWPPP and the pollutant control devices, if needed, in order to increase effectiveness to an acceptable level, or someone with the authority to cause such things to happen.

F. This SWPPP must be updated each time there are significant modifications to the pollutant prevention system or a change of contractors working on the project who disturb site soil. The general contractor and/or sitework contractor must notify the governing review agency as soon as these modifications are implemented.

G. Discharge of oil or other hazardous substances into the storm water is subject to reporting and cleanup requirements.

H. Once the site reaches final stabilization, the general contractor and/or sitework contractor must complete and submit a Notice of Termination (NOT).

I. This SWPPP intends to control water-borne and liquid pollutant discharges by some combination of interception, filtration, and containment. The general contractor, site work contractor, and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update the SWPPP in order to accomplish the intended goals.

J. This SWPPP must be amended as necessary during the course of construction in order to keep it current with the pollutant control measures utilized at the site. Amending the SWPPP does not mean that it has to be reprinted. It is acceptable to add addenda, sketches, new sections, and/or revised drawings.

K. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated must be maintained until the NOT is filed.

II. INTRODUCTION

This SWPPP has been prepared for major activities associated with construction of the The Gathering Place.

This SWPPP includes the elements necessary to comply with the national baseline general permit for construction activities administered by the U.S. Environmental Protection Agency (EPS) under the National Pollutant Discharge Elimination System (NPDES) program and all local governing agency requirements. This SWPPP must be implemented at the start of construction.

Construction phase pollutant sources anticipated at the site are disturbed (bare) soil, vehicle fuels and lubricants, chemicals associated with building construction, and building materials. Without adequate control there is the potential for each type of pollutant to be transported by storm water.

Project construction will consist primarily of mass grading, building demolition, pavement removal, new driveway construction and restoration.

A. Purpose

A major goal of pollution prevention efforts during project construction is to control soil and pollutants that originate on the site and prevent them from flowing to surface waters. The purpose of the SWPPP is to provide guidelines for achieving that goal. A successful pollution prevention program also relies upon careful inspection and adjustments during the construction process in order to enhance its effectiveness.

B. Scope

This SWPPP must be implemented before construction begins on the site. It primarily addresses the impact of storm rainfall and runoff on areas of the ground surface disturbed during the construction process. In addition, there are recommendations for controlling other sources of pollution that could accompany the major construction activities. This SWPPP will terminate when disturbed areas are stabilized, construction activities covered herein have ceased, and a completed Notice of Termination (NOT) is mailed to the Wisconsin DNR.

The national baseline General Permit for Storm Water Discharges from Construction Activities prohibits most non-storm water discharges during the construction phase. Allowable non-storm water discharges that could occur during construction on this project, which would therefore be covered by the General permit, include:

1. Discharge from fire fighting activities
2. Fire hydrant flushing
3. Water used to wash vehicles or control dust
4. Water flowing from potable sources and water line flushing
5. Irrigation drainage
6. External building wash down which does not use detergents
7. Runoff from pavement wash down where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents have not been used
8. Air conditioning condensate
9. Springs and uncontaminated groundwater, and
10. Foundation or footing drains where flows are not contaminated with process materials such as solvents.

The techniques described in this SWPPP focus on providing control of pollutant discharges with practical approaches that utilize readily available expertise, materials, and equipment.

The Owner referred to in this SWPPP is the City of Milton. The general contractor will construct the site development improvements while working under contract with the Owner.

III. PROJECT DESCRIPTION AND SITE SEQUENCING

Described below are the major construction activities that are the subject of this SWPPP. They are presented in the order (or sequence) they are expected to begin, but each activity will not necessarily be completed before the next begins. Also, activities could occur in a different order if necessary to maintain adequate erosion and sedimentation control:

A. Construct rock tracking pads for construction entrance/exit. This will be the first construction work on the project.

B. Install silt fence down slope from construction activities that disturb site soil.

C. Construct rock surface for temporary parking if needed

D. Demolition - Remove Existing Structures Complete.

E. Roadway Construction - Install site roads and modify drainage structures. Be sure all all disturbed areas have erosion protection devices installed downslope.

F. Final Grading - Provide final grading of any remaining unstablized areas and immediately stabilize remainder of site.

The actual schedule for implementing pollutant control measures will be determined by project construction progress. Down slope protective measures must always be in place before soil is disturbed.

IV. SITE DESCRIPTION

Included as part of this SWPPP are the project construction drawings. Refer to them for detailed site information.

A. Site Location - 715 Campus Street, Milton WI 53563

V. STORM WATER POLLUTION PREVENTION MEASURES AND CONTROLS

A variety of storm water pollutant controls are recommended for this project. Some controls are intended to function temporarily and will be used as needed for pollutant control during the construction period. These include temporary silt fence. For most disturbed areas, permanent stabilization will be accomplished by covering the soil with pavement, building, or vegetation.

A. Erosion and Sediment Controls

1. Soil Stabilization - The purpose of soil stabilization is to prevent soil from leaving the site, in the natural condition, soil is stabilized by native vegetation. The primary technique to be used at this project for stabilizing site soil will be to provide a protective cover of turf grass.

   a. Temporary Seeding - Within 14 days after construction activity ceases on any particular area, all disturbed ground where there will not be construction for longer than 21 days must be seeded with fast-germinating temporary seed and protected with mulch.

   b. Permanent Seeding - All areas at final grade must be seeded within 14 days after completion of the major construction activity. Except for small level spots, seeded areas should generally be protected with mulch.

   c. Structural Controls - See the Grading Plan and associated details for construction information of the proposed outlet control structures, storm sewer, etc.

Final site stabilization is achieved when turf grass cover provides permanent stabilization for at least 70 percent of the disturbed soil surface, exclusive of areas that have been paved.

B. Other Pollutant Controls

Control of sediments has been described previously. Other aspects of this SWPPP are

1. Dust Control - Construction traffic must enter and exit the site at the stabilized construction entrance. The purpose is to trap dust and mud that would otherwise be carried off site by construction traffic.

2. Solid Waste Disposal - No solid materials, including building materials, are allowed to be discharged from the site with storm water. All solid waste, including disposable materials incidental to the major construction activities, must be collected and placed in containers. The containers will be emptied periodically by a contract trash disposal service and hauled away from the site. Substances that have the potential for polluting surface and/or groundwater must be controlled by whatever means necessary in order to ensure that they do not discharge from the site. As an example, special care must be exercised during equipment fueling and servicing operations. If a spill occurs, it must be contained and disposed so that it will not flow from the site or enter groundwater, even if this requires removal, treatment, and disposal of soil. In this regard, potentially polluting substances should be handled in a manner consistent with the impact they present.

3. Sanitary Facilities - All personnel involved with construction activities must comply with state and local sanitary or septic system regulations. Temporary sanitary facilities will be provided at the site throughout the construction phase. They must be utilized by all construction personnel and will be serviced by a commercial operator.

4. Water Source - Non-storm water components of site discharge must be clean water. Water used for construction which discharges from the site, must originate from a public water supply or private well approved by the State Health Department. Water used for construction that does not originate from an approved public supply must not discharge from the site. It can be retained in the ponds until it infiltrates and evaporates.

5. Long-Term Pollutant controls - Storm water pollutant control measures installed during construction, that will also provide benefits after construction, include grassed areas, partially perforated pipe, and storm water outlet structures that will trap some sediment and allow for regular maintenance and cleanout. Those silt fences that do not interfere with normal operations and appear to provide long-term benefits can be left in place after construction is completed.

C. Construction Phase "Best Management Practices"

During the construction phase, the general contractor will implement the following

1. Material resulting from the clearing and grubbing operation will be stockpiled up slope from adequate sedimentation controls.

2. The general contractor will designate areas for equipment cleaning, maintenance, and repair. The general contractor and subcontractors will utilize those areas. The areas will be protected by a temporary perimeter berm.

3. Use of detergents for large scale washing is prohibited (i.e., vehicles, buildings, pavement surfaces, etc.).

4. Chemicals, paints, solvents, fertilizers, and other toxic material must be stored in waterproof containers. Except during application, the contents must be kept in trucks or within storage facilities. Runoff containing such material must be collected, removed from the site, treated, and disposed at an approved solid waste or chemical disposal

VI. LOCAL PLANS

In addition to this SWPPP, construction activities associated with this project must comply with any guidelines set forth by the local regulatory agency (City of Milton).

If there are multi permits or guidelines the contractor shall follow the most stringent.

VII. INSPECTIONS AND SYSTEM MAINTENANCE

Between the time this SWPPP is implemented and final site stabilization is achieved, all disturbed areas and pollutant controls must be inspected at least once every seven calendar days and within 24 hours following a rainfall of 0.5 inches or greater or snowfall 6" or greater.

The purpose of site inspections is to assess performance of pollutant controls. The inspections will be conducted by the general contractor/sitework contractor's representative. Based on these inspections, the general contractor will decide whether it is necessary to modify this SWPPP, add or relocate silt fence, or whatever else may be needed in order to prevent pollutants from leaving the site via storm water runoff. The general contractor has the duty to cause pollutant control measures to be repaired, modified, maintained, supplemented, or whatever else is necessary in order to achieve effective pollutant control.

Examples of particular items to evaluate during site inspections are listed below. This list is not intended to be comprehensive. During each inspection the inspector must evaluate overall pollutant control system performance as well as particular details of individual system components. Additional factors should be considered as appropriate to the circumstances.

A. Locations where vehicles enter and exit the site must be inspected for evidence of off site sediment tracking. A stabilized construction entrance will be constructed where vehicles enter and exit. This entrance will be maintained or supplemented as necessary to prevent sediment from leaving the site on vehicles.

B. Silt fence must be inspected and, if necessary, they must be enlarged or cleaned in order to provide additional capacity. All material excavated from behind silt fence will be stockpiled on the up slope side. Additional silt fence must be constructed as needed.

C. Inspections will evaluate disturbed areas and areas used for storing materials that are exposed to rainfall for evidence of, or the potential for, pollutants entering the drainage system. If necessary, the materials must be covered or original covers must be repaired or supplemented. Also, protective berms must be constructed, if needed, in order to contain runoff from material storage areas.

D. Grassed areas will be inspected to confirm that a healthy stand of grass is maintained. The site has achieved final stabilization once all areas are covered with building foundation or pavement, or have a stand of grass with at least 70 percent density. the density of 70 percent or greater must be maintained to be considered as stabilized. Areas must be watered, fertilized, and reseeded as needed to achieve this goal.

E. All discharge points must be inspected to determine whether erosion control measures are effective in preventing significant impacts to receiving waters.

Based on inspection results, any modification necessary to increase effectiveness of the SWPPP to an acceptable level must be made within seven calendar days of the inspection. The inspection reports must be completed entirely and additional remarks should be included if needed to fully describe a situation. An important aspect of the inspection report is the description of additional measures that need to be taken to enhance plan effectiveness. The inspection report must identify whether the site was in compliance with the SWPPP at the time of inspection and specifically identify all incidents of non-compliance.

Inspection reports must be kept on file by the general contractor as an integral part of this SWPPP for at least six years from the date of completion of the project.

Ultimately, it is the responsibility of the general/sitework contractor to assure the adequacy of site pollutant discharge controls. Actual physical site conditions or contractor practices could make it necessary to install more structural controls than are shown on the plans. (ie; localized concentrations of runoff could make it necessary to install additional silt fence. Assessing the need for additional controls and implementing them or adjusting existing controls will be a continuing aspect of this SWPPP until the site achieves final stabilization.

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ISSUANCE	
WDNR NOI	04/17/2020
CITY OF MILTON PERMIT	04/23/2020
REVISIONS	06/26/2020
-	-
-	-
-	-

EROSION CONTROL NOTES

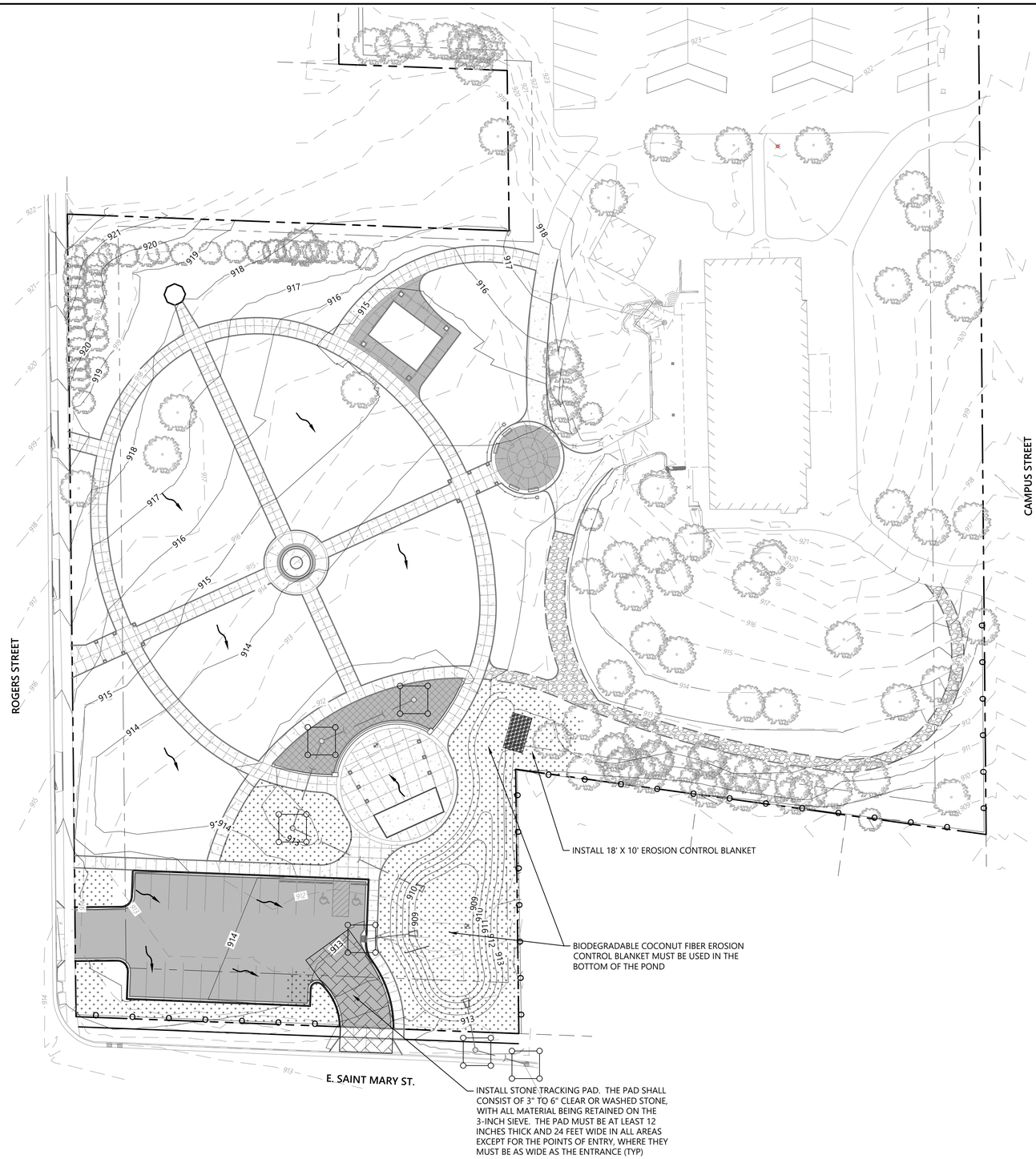
NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING

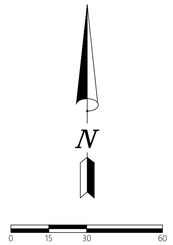
THE GATHERING PLACE
NEW PAVILION AND SITE IMPROVEMENTS
CITY OF MILTON
ROCK COUNTY, WISCONSIN

33358 - X - EROSION CONTROL PLAN.DWG

DESIGNED BY: MJG/NJ
DRAWN BY: LC
CHECKED BY: -
APPROVED BY: -
PROJECT NO: 33358

SHEET NO.





NOTES:

1. EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.
2. ALL DISTURBED AREAS TO BE RESTORED WITH SEED, FERTILIZER, AND MULCH UNLESS OTHERWISE NOTED. FINAL SEEDING TO BE #40. PROVIDE 2 LBS/1000 SF (0.044 TONS/ACRE). REFERENCE SECTION 630 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
3. MULCHING SHALL CONFORM TO SECTION 627 OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
4. INSTALL SILT FENCING AS SHOWN ON PLANS FOLLOWING COMPLETION OF REMOVALS AND PRIOR TO LAND DISTURBING ACTIVITIES.
5. RIPRAP SHOULD BE INSTALLED ACCORDING TO SECTION 606 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

LEGEND

- EROSION MAT CLASS I URBAN, TYPE A
- SURFACE WATER FLOW
- SILT FENCE
- INLET PROTECTION, TYPE (X)
- TRACKING PAD

NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION

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ISSUANCE	
WDNR NOI	04/17/2020
CITY OF MILTON PERMIT	04/23/2020
REVISIONS	06/26/2020
-	-
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EROSION CONTROL PLAN

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

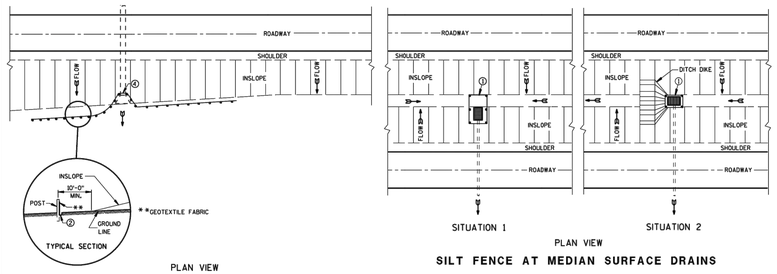
THE GATHERING PLACE
NEW PAVILION AND SITE IMPROVEMENTS
CITY OF MILTON
ROCK COUNTY, WISCONSIN

33358 - X - EROSION CONTROL PLAN.DWG

DESIGNED BY:	MJG/NJ
DRAWN BY:	LC
CHECKED BY:	-
APPROVED BY:	-
PROJECT NO:	33558

SHEET NO.

SDD 8e9 Silt Fence



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE

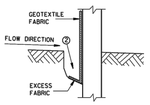
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

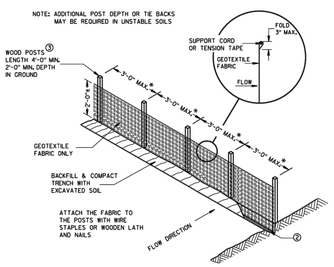
GENERAL NOTES

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 & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" 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.

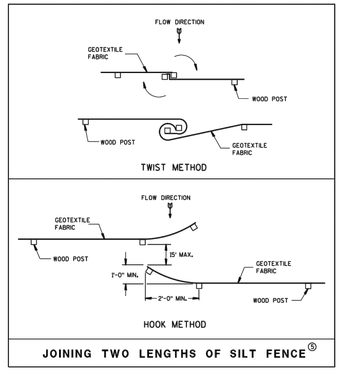


TRENCH DETAIL

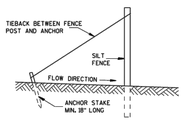


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

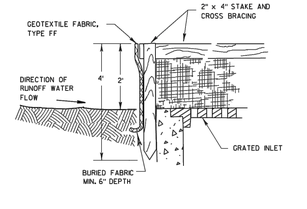
SILT FENCE

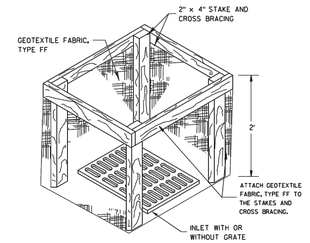
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannastra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

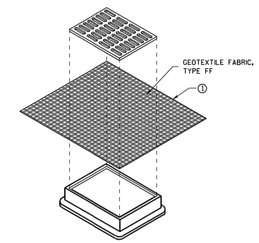
S.D.D. 8 E 9-6

8E10: Inlet Protection Type A, B, C and D

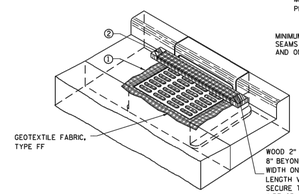




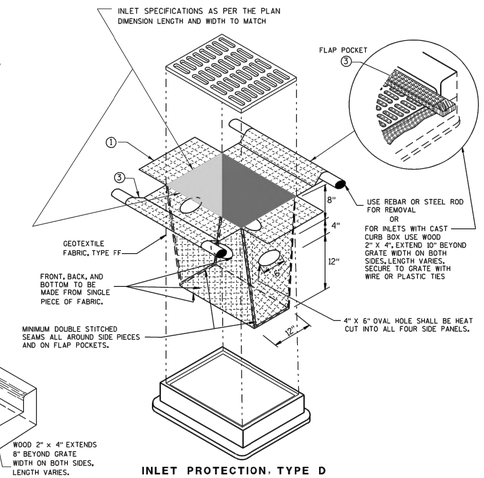
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



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

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.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
05/16/02 /S/ Beth Cannastra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 10-2

8E14: Tracking Pad

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

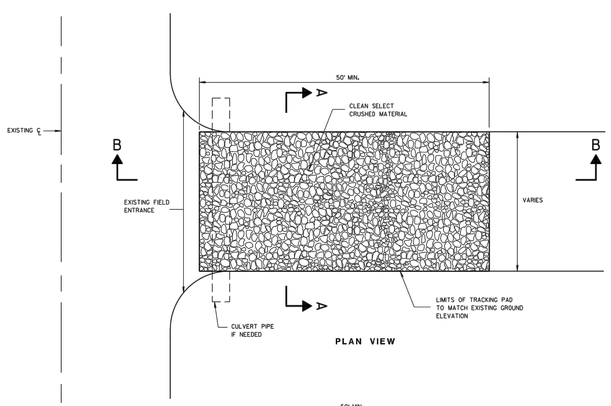
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

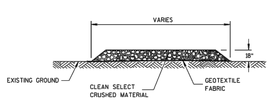
SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

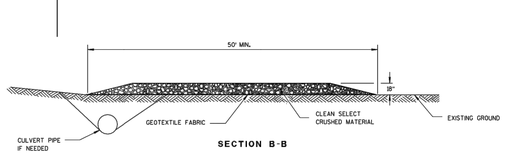
THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



PLAN VIEW



SECTION A-A



SECTION B-B

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2014 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 14-1

REVETMAX™
FLEXIBLE REVETMENT

Specification Sheet
ShoreMax® Transition Mat

DESCRIPTION

The North American Green® ShoreMax® Transition Mat shall be a resilient rubber mat with surface texture and multi-nib backing. It shall have a large hole drainage system with aperture openings approximately 1.25 in. (3.18 cm) in diameter. ShoreMax Mat is a transition mat used as biotechnical replacement for hard armor. ShoreMax Mat is mechanically anchored and is a flexible matting that can be installed in transitional areas susceptible to soil scour. ShoreMax Mat can provide erosion control in highly erosive areas, including shorelines, and can be used in conjunction with rolled erosion control products.

Material Content		
Matting	100% UV-stabilized natural rubber	2.00 lb/ft² (10 kg/m²)
Color	Dark green	

Standard Roll Sizes	
Width	3.0 ft (1.0 m)
Length	5.0 ft (1.5 m)
Weight ± 10%	30 lb (13.61 kg)
Area	1.67 yd² (1.39 m²)

Design Permissible Shear Stress			
TRM Underlayment Type and Phase		Maximum Permissible Shear Stress	Maximum Flow Velocity
SC250	Unvegetated	7.5 psf	18 fps
	Vegetated	10.0 psf	18 fps
C350	Unvegetated	8.0 psf	19 fps
	Vegetated	12.0 psf	20 fps
P550	Unvegetated	8.5 psf	19.5 fps
	Vegetated	14.0 psf	25 fps

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.75 in. (19.0 mm)
Density	ASTM D792	1.628 oz/in³
Mass/Unit Area	ASTM D6566	2.00 lb/ft² (10 kg/m²)
UV Stability	ASTM D4355/ 1000 hr	90-100%
Ground Cover	ASTM D6567	79.3%
Light Penetration	ASTM D6567	20.7%
Hardness	ASTM D2240	68
Specific Gravity	ASTM D792	1.50 g/cm³
Flexural Rigidity	ASTM D6575	1.97 in-lb
Tensile Strength - MD	ASTM D6818	606 lb/ft (9.00 kN/m)
Elongation - MD	ASTM D6818	102%
Tensile Strength - TD	ASTM D6818	625 lb/ft (9.26 kN/m)
Elongation - TD	ASTM D6818	125%
Biomass Improvement	ASTM D7322	243%

NTPEP ASTM D6460 Large Scale Channel*	
Unvegetated Shear Stress	8.6 psf (412 Pa)
Vegetated Shear Stress	> 12.5 psf (599 Pa)
Unvegetated Velocity	19.5 fps (5.95 m/s)
Vegetated Velocity	> 26.0 fps (7.93 m/s)

*Testing conducted with ShoreMax installed over North American Green® VMax® P550® Turf Reinforcement Mat.

NORTH AMERICAN GREEN®

Western Green
4609 E. Boonville-New Harmony Rd.
Evansville, IN 47725

nagreen.com
800-772-2040

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EC_RVTMX_MPDS_ShoreMax_1.19

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Batterman
engineers surveyors planners
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608.365.4464
Beloit, Wisconsin 53511
www.rhbatterman.com

ISSUANCE	
WDNR NOI	04/17/2020
CITY OF MILTON PERMIT	04/23/2020
REVISIONS	06/26/2020
-	-
-	-
-	-
-	-

EROSION CONTROL DETAILS

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING

THE GATHERING PLACE
NEW PAVILION AND SITE IMPROVEMENTS
CITY OF MILTON
ROCK COUNTY, WISCONSIN

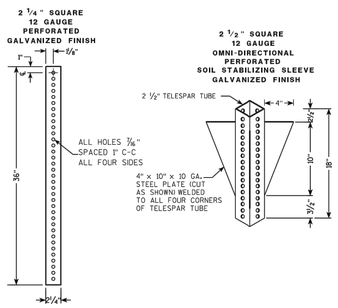
33358 - X - EROSION CONTROL PLAN.DWG

DESIGNED BY: MJG/NJ
DRAWN BY: LC
CHECKED BY: -
APPROVED BY: -
PROJECT NO: 33358

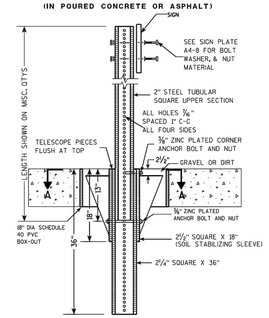
SHEET NO.
11 OF 15

SDD 15c7-a Pavement Marking Words, Symbols and Arrows

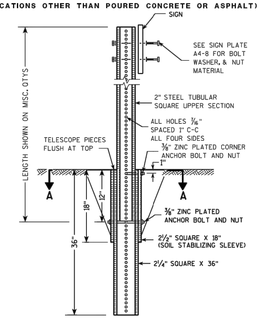
TELESCOPIC TUBING ANCHORS TWO PIECE SYSTEM

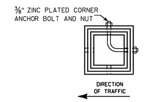


DETAIL OF TUBULAR STEEL SIGN POST (IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST (IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R. Rauch
For State Traffic Engineer
DATE 2/05/15 PLATE NO. A4-9.9

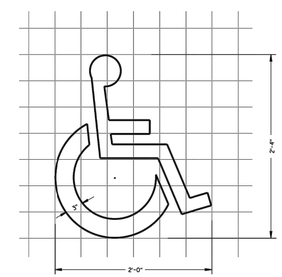
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CADFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscajo PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

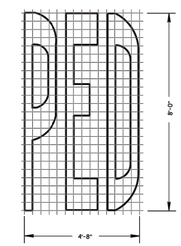
S.D.D. 15 C 7-14a

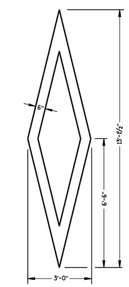
GENERAL NOTES

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



HANDICAP SYMBOL



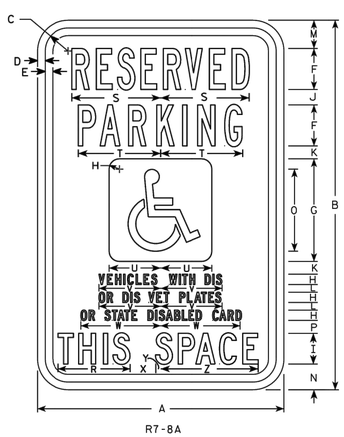


PREFERENTIAL
LANE SYMBOL

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



R7-8A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Sign is white Type H Reflective; paraplegic background is blue.
   Message - Legend and border are green; paraplegic symbol is white
3. Message Series - Lines 1 & 2 are Series B
   Lines 3, 4, 5 & 6 are Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

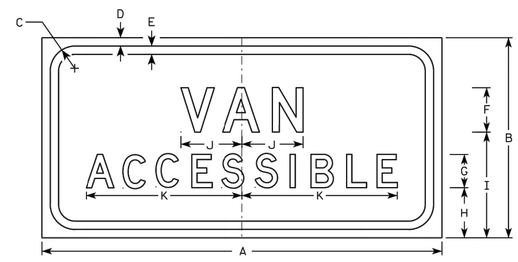
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. Ft.
1																											
2S	12	18	1 1/8	3/8	3/8	2	5	1/2	1 1/2	3/4	5/8	3/8	1 3/8	1 1/4	4	5/8		3 1/2	4 3/8	4	2 1/2	3	3 7/8	1 1/4	1/4	4 3/4	1.5
2M	18	24	1 1/8	3/8	1/2	3	6	3/4	2	7/8	5/8	1/2	1 7/8	2	5	3/4		4 5/8	6 1/2	5 3/8	3	4 1/2	5 7/8	1 1/2	1/4	6 3/8	3.0
3	18	24	1 1/8	3/8	1/2	3	6	3/4	2	7/8	5/8	1/2	1 7/8	2	5	3/4		4 5/8	6 1/2	5 3/8	3	4 1/2	5 7/8	1 1/2	1/4	6 3/8	3.0
4																											
5																											

STANDARD SIGN
R7-8A

WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R. Rauch
For State Traffic Engineer
DATE 4/25/2011 PLATE NO. R7-8A.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\VR78A.DGN PLOT DATE : 26-APR-2011 10:03 PLOT BY : mscajah PLOT NAME : PLOT SCALE : 3.227815:1.000000 WISDOT/CADDS SHEET 42



R7-8V

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Green - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. Ft.
1																											
2S	12	6	1 1/8	3/8	3/8	1 1/2	1	1 5/8	3 1/2	2	4 1/4																0.50
2M	18	9	1 1/8	3/8	3/8	2	1 1/2	2 1/4	4 3/4	2 3/4	7																0.75
3	18	9	1 1/8	3/8	3/8	2	1 1/2	2 1/4	4 3/4	2 3/4	7																0.75
4																											
5																											

STANDARD SIGN
R7-8V

WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R. Rauch
For State Traffic Engineer
DATE 3/31/2011 PLATE NO. R7-8V.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\VR78V.DGN PLOT DATE : 31-MAR-2011 11:13 PLOT BY : mscajo PLOT NAME : PLOT SCALE : 2.979520:1.000000 WISDOT/CADDS SHEET 42

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ISSUANCE	
WDNR NOI	04/17/2020
CITY OF MILTON PERMIT	04/23/2020
REVISIONS	06/26/2020

DETAILS

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING

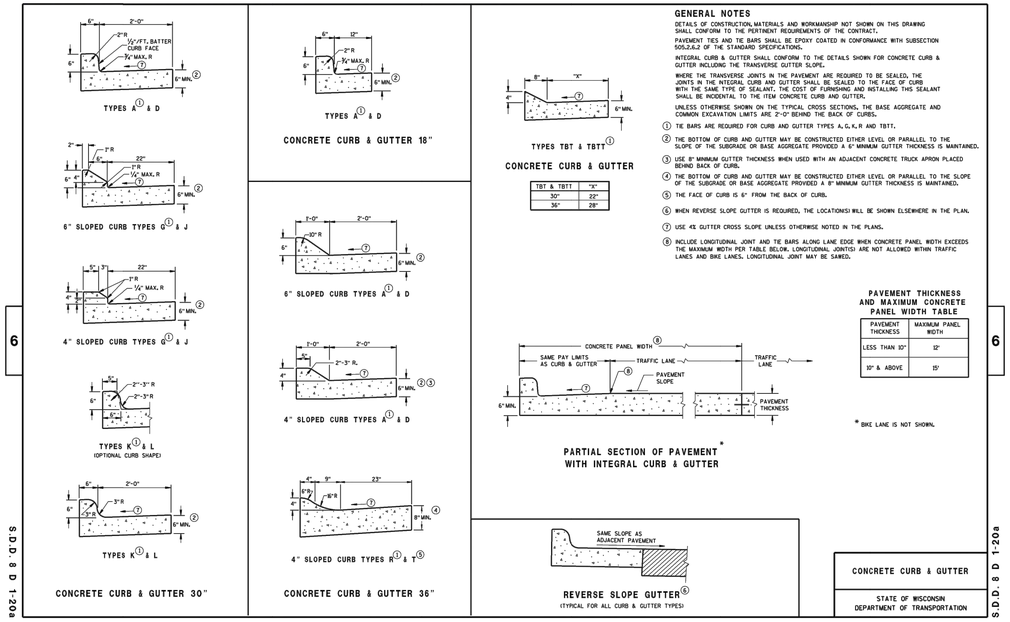
THE GATHERING PLACE
NEW PAVILION AND SITE IMPROVEMENTS
CITY OF MILTON
ROCK COUNTY, WISCONSIN

33558 - X - DETAILS.DWG

DESIGNED BY: MJG/NJ
DRAWN BY: LC
CHECKED BY: -
APPROVED BY: -
PROJECT NO: 33558

SHEET NO.

8D1 sheet a: Concrete Curb, Concrete Curb & Gutter and Ties



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS 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 & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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 GUTTER 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 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.

CONCRETE CURB & GUTTER TABLE

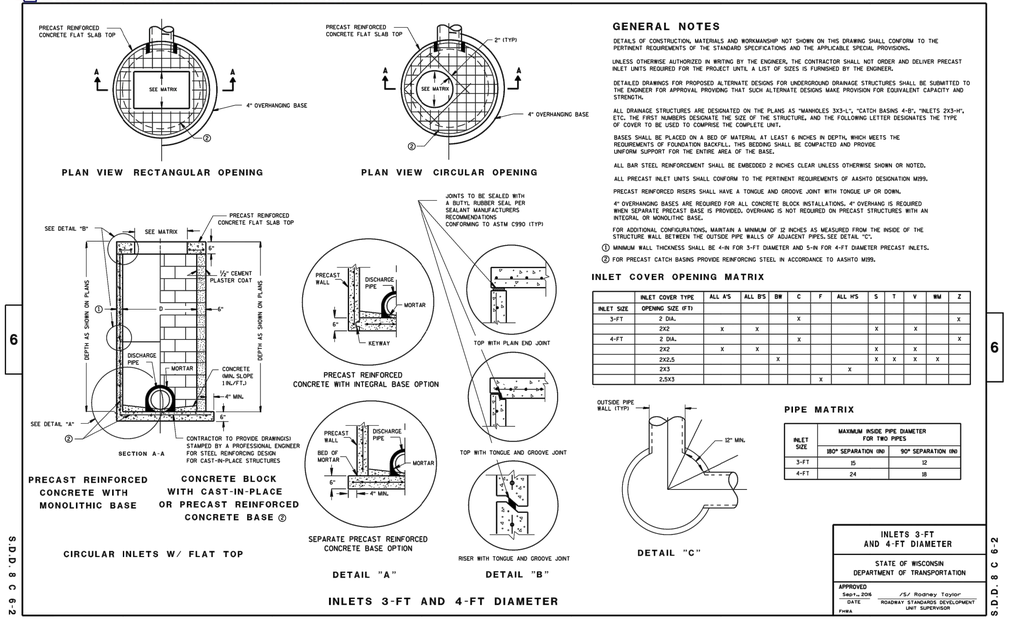
TBT & TBTT	"X"
30"	22"
36"	28"

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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

* BIKE LANE IS NOT SHOWN.

SDD 8c6 Inlets 3-FT and 4-FT Diameter



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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-8", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

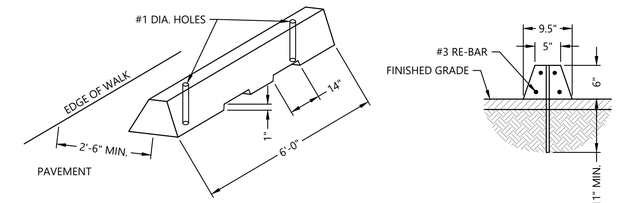
② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

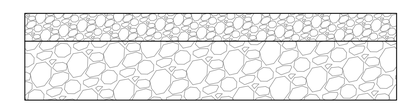
	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18



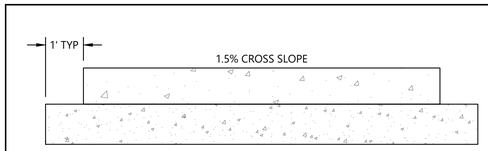
PRECAST CONCRETE WHEEL STOP



1 1/4" AGGREGATE BASE DENSE, 4" THICK

3" BASE AGGREGATE DENSE, 8" THICK

GRAVEL ROADWAY SECTION

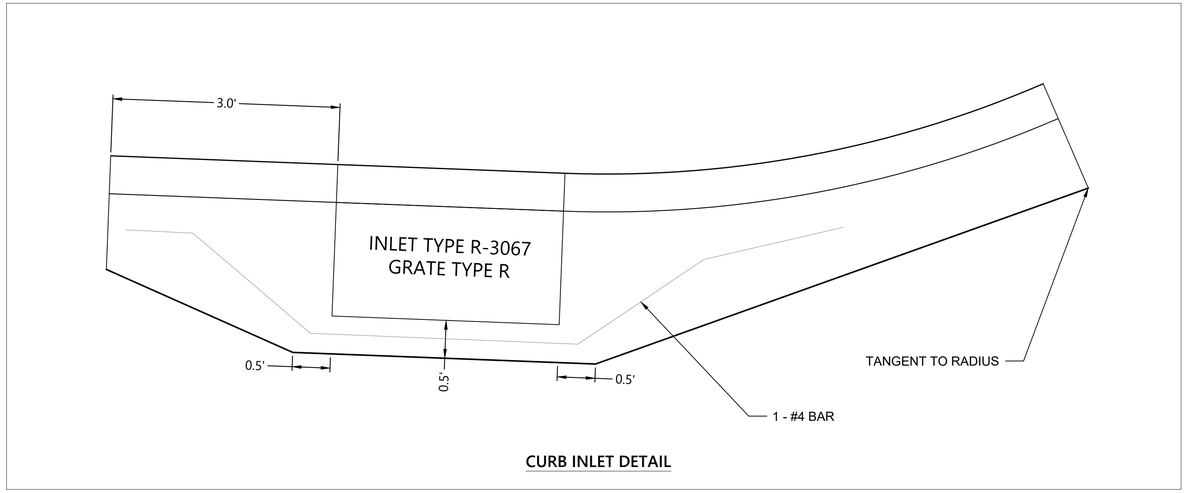


4" CONCRETE

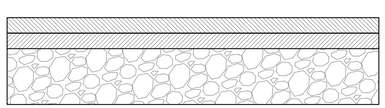
1 1/4" BASE AGGREGATE DENSE, 4" THICK

*SIDEWALK TO SLOPE AWAY FROM BUILDING

CONCRETE SIDEWALK



CURB INLET DETAIL



1.5" HMA PAVEMENT 4 LT 58-28 S (UPPER LAYER)

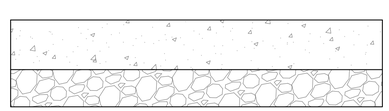
2" PAVEMENT 4 LT 58-28 S (LOWER LAYER) WITH TACK COAT

1 1/4" BASE AGGREGATE DENSE, 8-INCHES

* ASPHALT TO BE PAVED IN TWO LAYERS *

* TACK COAT APPLICATION RATE = 0.05 GAL/SY *

STANDARD DUTY BITUMINOUS PAVEMENT SECTION



6" CONCRETE

1 1/4" BASE AGGREGATE DENSE, 6" THICK

CONCRETE PAVEMENT SECTION

NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION - NOT FOR CONSTRUCTION

Batterman
engineers surveyors planners
2857 Bartells Drive
608.365.4464
Beloit, Wisconsin 53511
www.hbatterman.com

ISSUANCE	
WDNR NOI	04/17/2020
CITY OF MILTON PERMIT	04/23/2020
REVISIONS	06/26/2020
-	-
-	-
-	-

DETAILS

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

THE GATHERING PLACE
NEW PAVILION AND SITE IMPROVEMENTS
CITY OF MILTON
ROCK COUNTY, WISCONSIN

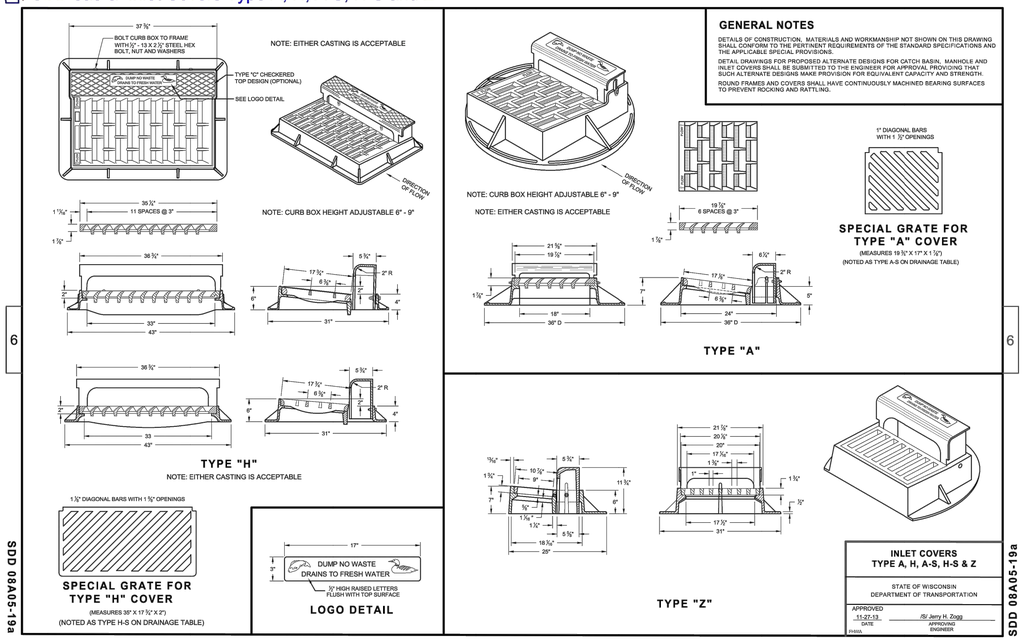
33358 - X - DETAILS.DWG

DESIGNED BY:	MJG/NJ
DRAWN BY:	LC
CHECKED BY:	-
APPROVED BY:	-
PROJECT NO:	33558

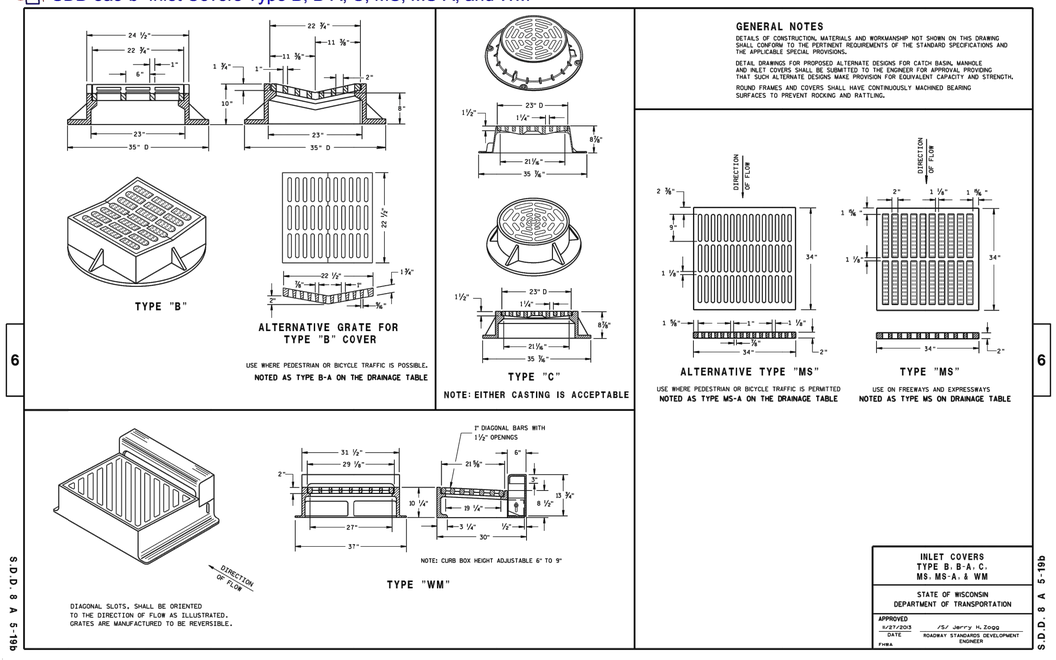
SHEET NO.

13 OF 15

SDD 8a5-a Inlet Covers Type A, H, A-S, H-S and Z

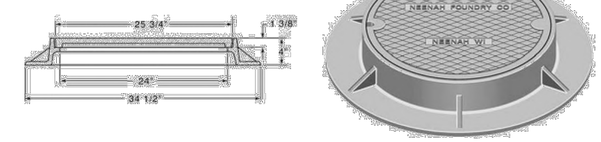


SDD 8a5-b Inlet Covers Type B, B-A, C, MS, MS-A, and WM



R-1556-A
Manhole Frame, Solid Lid

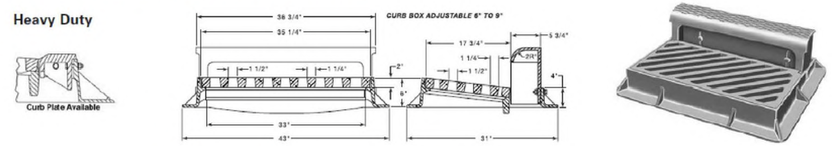
Heavy Duty



Available Grate: **R-2556-A**

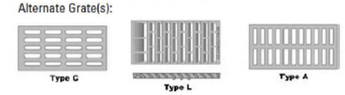
R-3067
Combination Inlet Frame, Grate, Curb Box

Heavy Duty

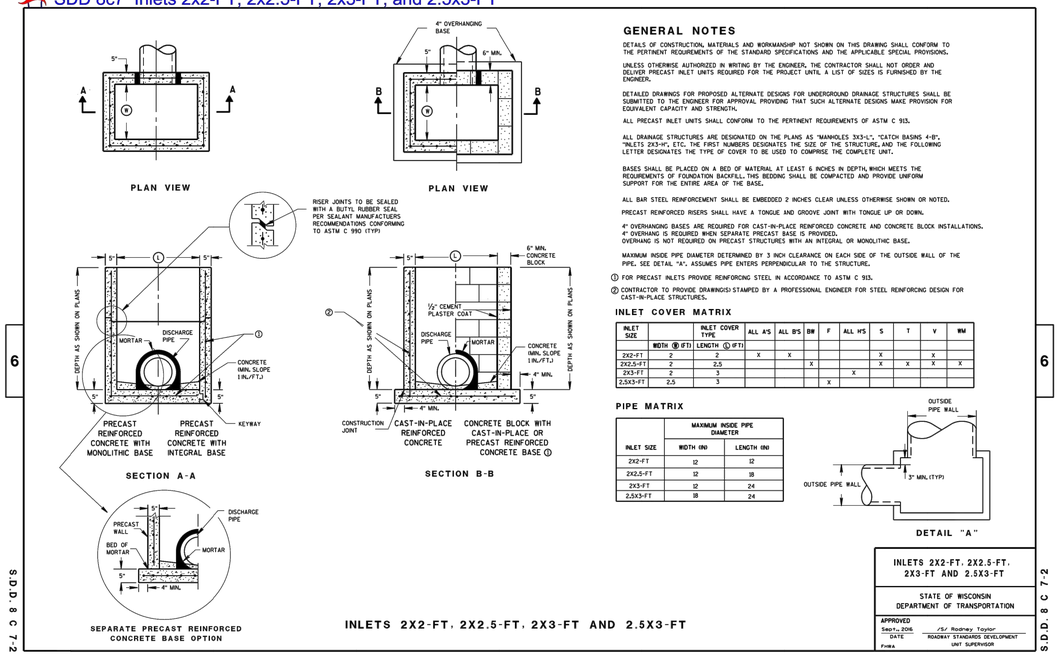


CATALOG NUMBER	GRATE TYPE	SQ. FT. OPEN	WEIR PERIMETER LINEAL FEET
R-3067	R	2.0	5.8
R-3067	C	1.6	5.8
R-3067	L	2.1	5.8

Standard Grate (shown): Type R-diagonal
Alternate Grate(s):



SDD 8c7 Inlets 2x2-FT, 2x2.5-FT, 2x3-FT, and 2.5x3-FT



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Batterman engineers surveyors planners
2857 Bartells Drive Beloit, Wisconsin 53511
608.365.4464 www.hbatterman.com

ISSUANCE	
WDNR NOI	04/17/2020
CITY OF MILTON PERMIT	04/23/2020
REVISIONS	06/26/2020
-	-
-	-
-	-

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING

DETAILS

THE GATHERING PLACE
NEW PAVILION AND SITE IMPROVEMENTS
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DESIGNED BY: MJG/NJ
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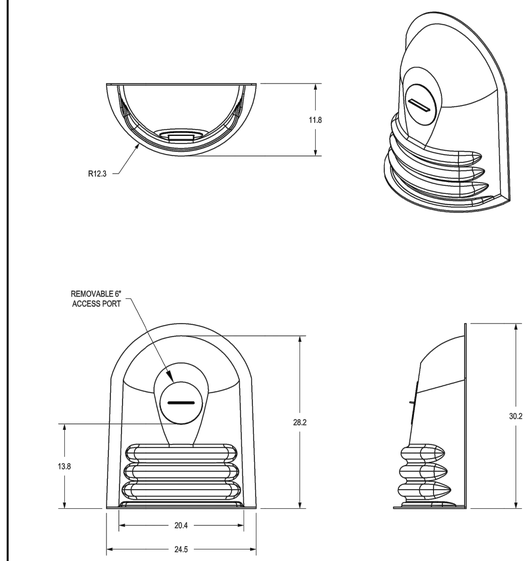
CHECKED BY: -
APPROVED BY: -
PROJECT NO: 33358

SHEET NO.
14 OF 15



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3130 VERONA AVE
BUFORD, GA 30518
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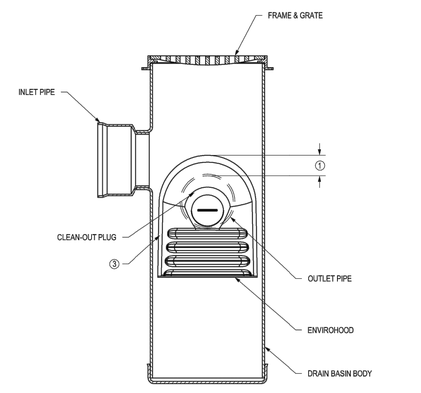

1 MEASURE 3.5" INCHES UP FROM THE INVERT OF THE OUTLET PIPE & MAKE A HORIZONTAL MARK.

2 INSERT THE ENVIROHOOD & PLACE THE TOP EDGE OF THE FLANGE ON THE HORIZONTAL MARK. POSITION THE ENVIROHOOD DIRECTLY OVER THE OUTLET PIPE SO THAT THE ENTIRE OUTLET IS COVERED & THE FLANGES OF THE ENVIROHOOD DO NOT BLOCK THE INLET PIPES (SEE DRAWING NO. 7004-110-111 FOR MINIMUM ANGLE BETWEEN ADAPTERS).

3 MARK & PRE-DRILL (TO MATCH THE HOLES IN THE ENVIROHOOD) 3/16" PILOT HOLES, FOR THE #14 X 1 1/4" SS SELF TAPPING HEX DRIVE SCREWS, THAT ARE PROVIDED IN THE INSTALL KIT. INSTALL 1/4 X 1" NEOPRENE BACKED WASHERS ON EACH SCREW.

4 ATTACH THE ENVIROHOOD TO THE DRAIN BASIN WITH THE #14 SS SCREWS, & TIGHTEN TO APPROXIMATELY 10-15 LBS.

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