

STORMWATER MANAGEMENT & EROSION CONTROL PLAN

For:

**FRANCISCAN SISTERS OF PERPETUAL ADORATION
REDEVELOPMENT PROJECT
RETTLER PROJECT # 18.084**

Located:

**FRANCISCAN SISTERS OF PERPETUAL ADORATION
912 MARKET STREET
LA CROSSE, WI 54601**

Date Prepared:

March 22, 2019

Prepared for:

**FRANCISCAN SISTERS OF PERPETUAL ADORATION
912 MARKET STREET
LA CROSSE, WI 54601**

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1.0 OVERVIEW OF PROJECT PLAN

1.1 Project Description

The Franciscan Sisters of Perpetual Adoration (FSPA) is proposing four additions to the St. Rose Convent facility including:

- A staircase addition to the southwest corner of the building.
- An ADA ramp at the main entrance off of Market Street.
- A small building addition leading to the redeveloped central outdoor space.
- A semi-circular drive along the north-south leg of Franciscan Way.

The project will involve erosion control, demolition, grading, storm sewer, concrete paving, and a mill and resurface of parking lots within the project limits. The plans for this project can be found in Exhibit 1.

1.2 Project Location

St. Rose Convent is located at 912 Market Street in the NE ¼ of the SW ¼ of Section 5, Township 15 North, Range 7 West in the City of La Crosse, La Crosse County, Wisconsin. The property is bounded by 10th Street on the east, and Franciscan Way on the south and west. See Exhibit 2 for more detailed information about the site.

1.3 Purpose

The purpose of this stormwater management and erosion control plan is to document that proposed construction procedures, future maintenance, and the drainage system for the proposed project meets the Wisconsin Department of Natural Resources (WDNR) stormwater management and erosion control requirements.

1.4 Applicability

This stormwater management and erosion control plan is required by the WDNR because the project will involve more than one acre of land disturbing activities. The permit materials submitted to the WDNR will also be submitted to the City of La Crosse. This plan is the basis of an application for both Stormwater and Erosion Control Permits to meet these requirements.

The City of La Crosse has determined that this remodel and addition project was insignificant and does not require a formal stormwater management submittal. The owner is required to complete and submit a stormwater utility application form to the city to document changes in impervious area.

1.5 Background Information

The predevelopment and post-development surface types and corresponding areas are summarized in Table 1.

Table 1: Project Surface Areas

Surface Type	Predevelopment		Post-Development		Inc / Dec(-)	
	SF	Acre	SF	Acre	SF	Acre
Impervious						
Roads & Parking	30,330	0.70	30,122	0.69	-208	0.00
Sidewalks	13,556	0.31	15,411	0.35	1,855	0.04
Roofs	0	0.00	840	0.02	840	0.02
Total Impervious	43,886	1.01	46,373	1.06	2,487	0.06
Pervious						
Green Space	44,144	1.01	41,657	0.96	-2,487	-0.06
Totals						
Total Area	88,030	2.02	88,030	2.02	0	0.00
Percent Impervious	49.85%		52.68%		2.83%	

1.6 Project Information

- Owner's Representative: Sister Sue Ernster
Franciscan Sister of Perpetual Adoration
912 Market Street
La Crosse, WI 54601
608.782.5610
- Consultant: Rettler Corporation
3317 Business Park Drive
Stevens Point, WI 54482
715.341.2633
- General Contractor: Hoffman Planning, Design & Construction, Inc.
122 East College Avenue, Suite 1G
Appleton, WI 54911
920.731.2322
- Responsible for design of stormwater management practices:
Bruce Gerland, PE, Rettler Corporation
Trisha Conro, EIT, Rettler Corporation
- Responsible for maintenance of stormwater management practices:
Franciscan Sisters of Perpetual Adoration
- Site Location: Franciscan Sisters of Perpetual Adoration
St. Rose Convent
912 Market Street
La Crosse, WI 54601

1.7 Stormwater Management Requirements

The proposed redevelopment project for the Franciscan Sisters of Perpetual Adoration has been designed to meet stormwater management requirements found in WDNR NR 151 and NR 216, as outlined in Table 2.

Table 2: Stormwater Management Requirements

Category	Standard	Applicability
STORMWATER MANAGEMENT REQUIREMENTS		
Peak Discharge	Practices must be designed to maintain peak pre-development runoff rates for the 1-year and 2-year, 10-year, and 100-year, 24-hour storm events.	Not Applicable Redevelopment Project
Sediment Control: New Construction	Practices must be designed to retain all soil particles greater than 5 microns (80% reduction) based on an average annual rainfall as compared to no runoff controls.	Not Applicable Redevelopment Project
Sediment Control: Redevelopment	Practices must be designed to retain all soil particles greater than 20 microns (40% reduction) based on an average annual rainfall as compared to no runoff controls.	Applicable
Infiltration	Practices must be designed to maintain 60 percent of the predevelopment infiltration (nonresidential) runoff volume base on annual rainfall. Or 10% of runoff from a 2-year, 24-hour storm event. However, in either case, no more than 2 percent of the site is required as an effective infiltration area.	Not Applicable Redevelopment Project
Protective Area	For outstanding resource waters and exceptional resource waters, a minimum 75 foot buffer zone is required.	Not Applicable No streams or lakes within 75 feet of construction site.
Maintenance Agreement	An agreement between the local municipality and the responsible party to provide maintenance of stormwater practices beyond the duration period of the stormwater permit.	Applicable

1.7.1 Summary of Stormwater Management Requirements

The stormwater management requirements for this project include meeting the removal of total suspended solids per NR 151.12 for redevelopment projects.

1.8 Time Schedule for Construction

The following discussion outlines the anticipated time schedule for construction.

- A. Start of construction is anticipated on April 15, 2019.
- B. Completion of construction anticipated by September 24, 2021.

1.9 Designated Waterways

A Designated Waterways Map of the project site from the WDNR Surface Water Data viewer is included in Exhibit 2. No designated waterways are located within 300 feet of the grading limits of the project.

1.10 Wetland & Wetland Indicators

A Wetland and Wetland Indicators Map of the project site from the WDNR Surface Water Data viewer is included in Exhibit 2. No wetlands or wetland indicator soils are located within the project limits.

1.11 Native Soil Conditions

1.11.1 La Crosse County Soil Survey Map

The soil survey map identifies the site as urban land, valley trains, 0 to 20 percent slopes, with no Hydrologic Soil Group classification. This means that the area mostly consists of streets, parking lots, buildings, and other structures of urban areas. See Exhibit 3 for more details.

The scope of this redevelopment project includes new landscaping within the site greenspace, minor additions, and a new semi-circular drive. With an increase of only 2.83% in impervious surfaces throughout the whole site and no previous issues with standing water, additional soil information was not obtained. The project architect and owner have also confirmed positive infiltration by describing sandy soils on-site.

2.0 STORMWATER MANAGEMENT PLAN – POST DEVELOPMENT

2.1 Peak Discharge Overview

Peak discharge requirements listed in NR151.12 are not applicable for this site due to it being a redevelopment project. In order to properly size the proposed storm sewer pipes, post-development stormwater runoff rates, produced from a 10-year storm event, for all drainage basins were calculated to assist in sizing the storm sewer piping associated with the proposed driveway addition off of the north-south leg of Franciscan Way on the west side of the building. The post-development stormwater runoff rates along with pipe sizing calculations can be seen in Exhibit 4.

2.2 Analytical Methods

The stormwater runoff analysis was performed utilizing TR-55 routines contained in HydroCAD version 10.00-16, which is an urban hydrology analysis software published by HydroCAD Software Solutions, LLC. As outlined in Table 3, the twenty-four hour rainfall depth was taken from the NOAA Atlas 14 Point Precipitation Frequency Estimate.

Table 3: Design Storm Rainfall Depths

Design Storm (years)	Rainfall Depth (inches) 24-hour Duration
10	4.48

MSE 24-hr, Type 4 - NRCS rainfall distributions for Midwest and Southeast US, were used as the precipitation distributions in HydroCAD. The Times of Concentration (Tc) for pre and post-development basins were developed based on the following parameters:

- TR 55 sheet flow: maximum of 100 feet with $n=0.15$ for grass, $n=0.011$ for pavement, and 2-year storm = 3.02".
- TR 55 shallow concentrated flow in areas transitioning between sheet & channel flow.
- TR 55 channel flow for balance of longest flow path.
- A minimum of 6-minutes was entered if the Tc was less than 6-minutes.

3.0 STORMWATER QUALITY & INFILTRATION TREATMENT

3.1 Overview

The redevelopment project includes the addition of a semi-circular drive at the entrance off of the north-south leg of Franciscan Way along with a mill and resurface of the two existing asphalt parking lots. Given that the resurfacing of the parking lots will not disturb the base underneath and is solely for maintaining the existing parking lots, they are not applicable for NR151.12 post construction stormwater quality and infiltration treatment requirements. The proposed driveway was designed to meet sediment control practices, per NR151.122(2), for redevelopment projects.

3.2 Total Suspended Solids

In order to meet the Total Suspended Solids (TSS) reduction standard, a storm manhole sump will be used to remove suspended solids from the driveway off of the north-south leg of Franciscan Way. WinSLAMM v10.3.2 software was used to calculate the reduction of TSS from storm sheet flow runoff. A 3-foot sump within the proposed catch basin will catch sediment prior to flowing into the existing storm sewer system.

As seen in Table 5, a TSS reduction of 31.81%, based on average annual rainfall as compared to no runoff controls, has been attained. The TSS for the area was removed to the maximum extent practicable using a 3-foot sump. See Exhibit 5 for the WinSLAMM diagram, input report, and output report.

Table 4: Particulate Solids Reduction

Outfall Output Summary	Particulate Solids Yield (lbs)
Total of All Land Uses without Controls	71.10
Outfall Total with Controls	48.48
Particulate Solids Reduction (%)	31.81%

3.3 Infiltration

This project is exempt from WDNR infiltration requirements because this is a redevelopment project.

3.4 Protective Area

No wetlands or navigable waterways are present within 75 feet of the project site, hence, protective area setbacks from impervious surfaces are not needed. Maps in Exhibit 2 depict the absence of protective areas.

4.0 EROSION CONTROL PLAN – DURING CONSTRUCTION

The project plans, specifications, and Erosion Control Plan are an outline of the erosion control measures required. The CONTRACTOR shall provide a written Erosion Control Implementation Plan (ECIP) based on these Construction Documents. The ECIP shall define a detailed plan of operation to be utilized to conform to these requirements. It will also include a section outlining the contractor's Spill Prevention and Response Plan. The ECIP shall also address WDNR issues outlined in NR151.11 (6m). The ECIP shall be reviewed with ARCHITECT/ENGINEER, OWNER, and GENERAL CONTRACTOR, prior to commencing work.

The proposed redevelopment project for the Franciscan Sisters of Perpetual Adoration has been designed to meet erosion control requirements found in WDNR NR 151 and NR 216, as outlined in Table 6. The erosion control best management practices will be applied during construction.

Table 5: Erosion Control Requirements

Category	Standard	Applicability
EROSION CONTROL PLAN – DURING CONSTRUCTION		
Erosion & Sediment Controls	Utilized (but not limited to) tracking pads, silt fence, inlet protection, sediment discharge during dewatering or from drainage ways & stockpiles, and control of erosive flows at outlets prior to grading.	Applicable – > 1 acre of land disturbance
Spill Prevention	Manage the discharge of pollutants from chemicals, cementitious products, building compounds & materials, and untreated wash water from vehicle & wheel washing.	Applicable – > 1 acre of land disturbance
Sediment Performance Standards	Discharge no more than 5 tons per acre per year of the sediment load carried in runoff from initial grading to final stabilization as been achieved. USLE software will be used.	Applicable – > 1 acre of land disturbance
Preventive Measures	Develop a spill prevention and response procedure plan.	Applicable – > 1 acre of land disturbance

4.1 General Land Disturbance Schedule

Erosion Control requirements defined in this section shall be considered as minimums. For a more detailed explanation regarding the sequencing of construction activities and associated erosion control measures, see Exhibit 6, and Sheet C400 – Site Grading and Erosion Control Plan.

- Install tracking pads at locations indicated on Drawings.
- Install silt fence at limits of grading as indicated on Drawings.
- Install silt fence around perimeter of temporary stockpile location prior to commencement of any land disturbing activities. Stabilize stockpiles by seeding or temporary soil binding agents if stockpiles are to remain inactive longer than 14 calendar days.
- Construct temporary and permanent stormwater BMP'S such as sediment traps, inlet protection, and stable outfall protection before commencing any other land disturbing activities. At least one

half the final design depth of retention or retention ponds shall be excavated early in the project to trap sediment.

- Manage the discharge/spill of pollutants from chemicals, cementitious products, building compounds & materials, and untreated wash water from vehicle & wheel washing to limit the discharge of pollutants to waters of the state. A temporary settling basin with an impermeable liner shall be constructed to contain concrete truck washout materials.
- All disturbed ground left inactive for 7 or more days shall be stabilized by temporary or permanent seeding, temporary or permanent seeding and mulching, sodding, covering with tarps, or equivalent best management practices. If temporary seeding is used, a permanent cover shall also be required as part of the final site stabilization as shown on Drawings.
- Maintain existing vegetation, especially adjacent to surface waters of the state.
- Wherever possible, soil or dirt storage piles shall be located 25 feet from any downslope road, lake, stream, wetland, or draining channel. Straw bale or filter fabric fences shall be placed on the downslope side of the piles. If remaining for more than 30 days, piles shall be stabilized by mulching, vegetative cover, tarps or other means.
- When the disturbed area has been stabilized by permanent vegetation or other means, temporary best management practices such as filter fabric (silt) fences, straw bales, and sediment traps shall be removed.
- Once final stabilization of the site has been achieved, detention and retention ponds shall be excavated to their final planned volume.

4.2 Soil Loss & Sediment Discharge during Construction

Based on the representative worst case steepest slope onsite within the limits of disturbance, the Unified Soil Loss Equation (USLE) spreadsheet indicates the following:

- For the representative worst case slope of 15.3%, exposed from April 2019 to July 2020, August 2020 to February 2021, and April 2021 to September 2021, the anticipated erosion will be 4.2 tons/acre, 2.8 tons/acre, and 2.2 tons/acre respectively. This amount of erosion does not exceed 5.0 tons/acre which is the maximum allowed.
- Exhibit 7 contains a map locating the slope used as the basis of the calculations and the soil loss and sediment discharge calculation tool worksheet.

4.3 Site Dewatering

CONTRACTOR: Identify party responsible for implementation of dewatering plan and provide a phone number where that party may be contacted 24 hours a day.

APPLICABLE USES: Water pumped from excavations will be treated prior to discharge offsite or into waterways of the state. Water discharged into a wetlands or a waterbody defined as an area of special natural resource interest requires special permitting. High capacity dewatering systems with total design pump(s) capacity greater than 70 gpm requires obtaining a WDNR Dewatering Permit in advance.

Two dewatering options exist: 1.) while excavating the sediment trap a geotextile bag shall be used to filter water pumped from the excavation if necessary (advanced approval necessary); 2.) after the sediment trap and storm sewer system are installed, all dewatering operations will discharge into a storm sewer system on site that flows into a temporary sediment trap or permanent detention pond. Contractor's sediment trap design must be approved in advance.

MATERIALS: Type D inlet protection will be used.

Geotextile Dewater Filter Bags meeting criteria in Table 1 and operating procedure outlined in Section C of the WDNR Conservation Practice Standard 1061, Dewatering may be used on this project. The footprint of the bag shall not be smaller than 10'x15' for a 2" discharge hose, 20'x15' for a 3" discharge hose, 25'x15' for a 4" discharge hose, and 35'x15' for a 6" discharge hose. Consult manufacturers' recommendations to bag confirm sizes.

If a stormwater inlet is not available, gravity based settling systems outlines in WDNR 1061 may be used. If polymer is used to enhance settling in sediment basin, the polymer shall be approved by the WDNR and meet the criteria stipulated in the WDNR Conservation Practice Standard 1051, Sediment Control Water Application of Polymers. The polymer supplier or applicator shall provide certifications showing that products have met the performance requirements of Standard 1051.

MONITORING: The Contractor shall monitor the site daily to correct failures or perform general maintenance needed.

MAINTENANCE: Provide measures to avert clogging of inlet structures due to debris and remove sediment buildup. Sediment shall be removed from the sediment basin periodically to maintain effectiveness. All sediment removed from the basin shall be properly disposed of to prevent discharge into waters of the state.

Repair erosion control measures as necessary.

4.4 Documentation of Erosion Control Practices

During construction, the contractor shall conduct weekly inspections of implemented erosion and sediment controls. In addition, inspections of erosion and sediment controls shall be conducted within 24 hours after a rainfall event of 0.5 inches or greater. A "rainfall event" is considered to be the total amount of rainfall recorded in any continuous 24-hour period. Repair or replace erosion and sediment control BMPs as necessary within 24 hours of an inspection or notification indicating that repair or replacement is needed. Return storage volume to traps and silt barriers as necessary.

The contractor shall maintain, at the construction site or via an Internet site, weekly & storm related written reports of all inspections conducted. A WDNR example worksheet of the type & content required can be found in Exhibit 8.

Upon completion of grading activities, the contractor shall complete and submit the WDNR form entitled "Notice of Termination – Stormwater Discharges Associated with Land Disturbing Construction Activities". A copy of the form can be found in Exhibit 9.

The permittee shall retain records of all construction site inspections, copies of all reports and plans required by this permit, and records of all data used to obtain coverage under this permit. The minimum period of retention is 3 years.

5.0 LONG TERM MAINTENANCE AGREEMENT

An agreement between the local municipality and the responsible party is required to provide maintenance of stormwater utilities and stormwater management practices beyond the duration period of the stormwater permit. A long-term maintenance agreement is included in Exhibit 10.

6.0 CONCLUSION

The stormwater management and erosion control practices designed in this plan meet or exceed the requirements of State and Town regulations as they apply to this site.

Respectfully submitted,

RETTLER CORPORATION

Written by:

Trisha Conro, EIT
Civil Engineer

Reviewed by:

Bruce Gerland, PE
Civil Engineer

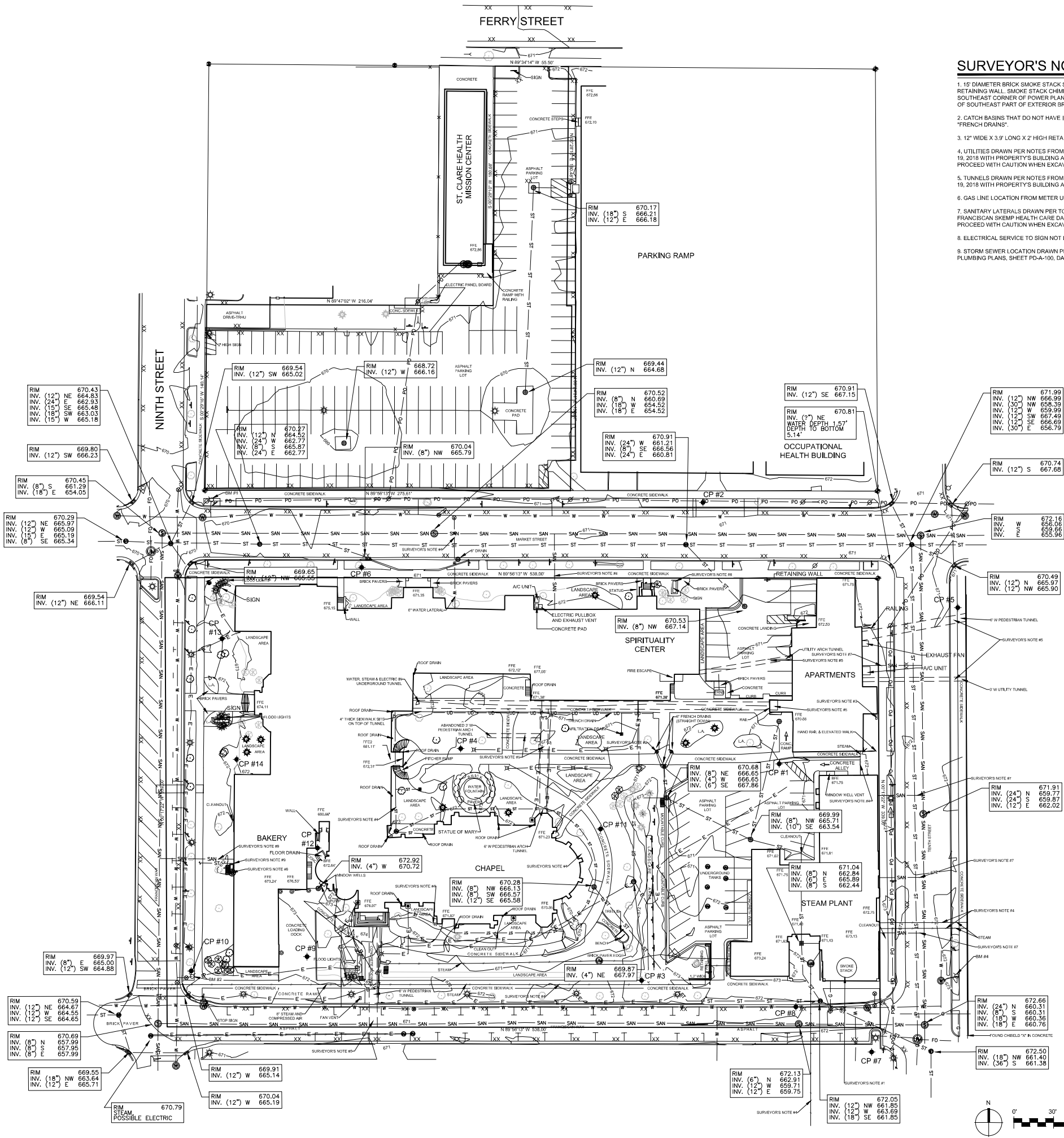
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Stevens Point, WI 54482
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EXHIBITS

1. PROJECT PLANS
2. PREDEVELOPMENT SITE CONDITIONS
3. SOIL INFORMATION
4. STORM SEWER DESIGN CALCULATIONS
5. TOTAL SUSPENDED SOLIDS
6. EROSION CONTROL SEQUENCING
7. CONSTRUCTION SITE SOIL LOSS & SEDIMENT DISCHARGE
8. EROSION CONTROL INSPECTION WORKSHEET
9. NOTICE OF TERMINATION
10. LONG TERM MAINTENANCE AGREEMENT

1. PROJECT PLANS

- A. Existing Site Plan – Sheet C100
- B. Existing Site Utilities – Sheet C101
- C. Existing Site Features – Sheet C102
- D. Site Demolition Plan – Sheet C200
- E. Site Layout Plan – Sheet C300
- F. Site Grading and Erosion Control Plan – Sheet C400
- G. Site Utility Plan – Sheet C500
- H. Site Construction Details – Sheets C600 – C601



SURVEYOR'S NOTES

1. 15" DIAMETER BRICK SMOKE STACK SURROUNDED BY BRICK RETAINING WALL. SMOKE STACK CHIMNEY IS 23.65' WEST OF SOUTHEAST CORNER OF POWER PLANT BUILDING AND 10' NORTH OF SOUTHEAST PART OF EXTERIOR BRICK RETAINING WALL.
2. CATCH BASINS THAT DO NOT HAVE INVERTS APPEAR AS "FRENCH DRAINS".
3. 12" WIDE X 3.9' LONG X 2' HIGH RETAINING WALL.
4. UTILITIES DRAWN PER NOTES FROM SITE WALK ON DECEMBER 19, 2018 WITH PROPERTY'S BUILDING AND GROUNDS MANAGER. PROCEED WITH CAUTION WHEN EXCAVATING IN THIS AREA.
5. TUNNELS DRAWN PER NOTES FROM SITE WALK ON DECEMBER 19, 2018 WITH PROPERTY'S BUILDING AND GROUNDS MANAGER.
6. GAS LINE LOCATION FROM METER UNKNOWN.
7. SANITARY LATERALS DRAWN PER TOPOGRAPHIC SITE MAP FOR FRANCISCAN SKEMP HEALTH CARE DATED SEPTEMBER 18, 2001. PROCEED WITH CAUTION WHEN EXCAVATING IN THIS AREA.
8. ELECTRICAL SERVICE TO SIGN NOT LOCATED.
9. STORM SEWER LOCATION DRAWN PER MEP ASSOCIATES, LLC PLUMBING PLANS, SHEET PD-A-100, DATED FEBRUARY 26, 2019.

LEGEND

- | | |
|----------------------------|----------------------|
| ○ LIGHT POLE | ○ BURIED GAS |
| ○ POWER POLE | ○ BURIED TELEPHONE |
| ○ GUY | ○ WATERMAIN |
| ○ TELEPHONE PEDESTAL | ○ FIBER OPTICS |
| ○ ELECTRICAL BOX | ○ UNDER DRAIN |
| ○ TELEPHONE MANHOLE | ○ EDGE OF BITUMINOUS |
| ○ SANITARY MANHOLE | ○ FLAG POLE |
| ○ WATER MANHOLE | ○ TREE |
| ○ STORM MANHOLE | ○ PINE TREE |
| ○ UTILITY MANHOLE | ○ BUSH/SHRUB |
| ○ CATCH BASIN | ○ ELECTRIC METER |
| ○ CATCH BASIN | ○ GAS METER |
| ○ CATCH BASIN | ○ GAS VALVE |
| ○ WATER VALVE | ○ CONTOUR LINE |
| ○ HYDRANT | ○ SPOT ELEVATION |
| ○ 3/4" IRON BAR FOUND | ○ SIGN |
| ○ 3/4" IRON PIPE FOUND | ○ CONTROL POINT |
| ○ 1" IRON PIPE FOUND | ○ ELECTRIC OUTLETS |
| ○ 1 1/4" IRON BAR FOUND | ○ YARD LIGHT |
| ○ COMPUTED PROPERTY CORNER | ○ PLAY EQUIPMENT |
| ○ HARRISON MONUMENT FOUND | ○ VERTICAL PIPE |
| ○ FENCE | ○ BENCH |
| ○ SANITARY SEWER | ○ ROCKS |
| ○ STORM SEWER | ○ VENT PIPE |
| ○ POWER OVERHEAD | ○ BASKETBALL HOOP |
| ○ BURIED ELECTRIC | ○ SWING |
| ○ STEAM | ○ IRRIGATION BOX |

UNDERGROUND UTILITIES

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE SURVEYOR AND ARCHITECT WILL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

SOME UTILITIES HAVE BEEN LOCATED BY MAPS PROVIDED BY OTHERS-LOCATIONS ARE APPROXIMATE.

PRIVATE UTILITIES WERE LOCATED BY PRIVATE LINES INC.

FIELD VERIFY SANITARY AND STORM SEWER PIPE SIZES AND THEIR LOCATIONS.

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE BASED IN PART ON MARKINGS BY DIGGERS HOTLINE. (TICKET #20182324866, 20182324888 AND 20182325055)

DESCRIPTION

PART OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 5, TOWNSHIP 15 NORTH, RANGE 7 WEST, CITY OF LA CROSSE, LA CROSSE COUNTY, WISCONSIN.

SURVEYOR'S CERTIFICATE

I, AARON PARKS, PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF A TOPOGRAPHICAL SURVEY AS MADE BY ME ON 06/12/18-06/14/18, 06/25/18.

DATED THIS 13TH DAY OF JULY, 2018.

SIGNED: AARON PARKS, PLS #2861

BENCH MARK

ELEVATIONS BASED ON NAVD 88 USING WISGEOD 12A:

BENCHMARK #6206
BURY BOLT ON HYDRANT LOCATED ON THE NORTHEAST CORNER OF MARKET STREET AND 9TH STREET INTERSECTION.

ELEVATION: 672.697

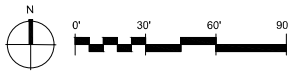
BENCHMARK #6691
BURY BOLT ON HYDRANT LOCATION ON THE NORTHEAST CORNER OF 9TH STREET AND FRANCISCAN WAY INTERSECTION.

ELEVATION: 673.721

SURVEY CONTROL POINTS

COORDINATE SYSTEM BASED ON: NAD83 (2007) WITH LA CROSSE COUNTY COORDINATES USING WISCONSIN

CP #1 - CP MAG N: 128707.264 E: 447497.862 Z: 670.748	CP #7 - CP SPIKE N: 128489.851 E: 447567.852 Z: 672.868	CP #13 - CP SPIKE N: 128801.765 E: 447077.486 Z: 671.832
CP #2 - CP SPIKE N: 128904.457 E: 447440.372 Z: 671.158	CP #8 - CP MAG N: 128750.577 E: 447510.488 Z: 672.363	CP #14 - CP SPIKE N: 128710.577 E: 447088.607 Z: 672.234
CP #3 - CP MAG N: 128543.859 E: 447394.094 Z: 672.919	CP #9 - CP MAG N: 128561.771 E: 447411.675 Z: 672.363	
CP #4 - CP SPIKE N: 128716.712 E: 447257.538 Z: 671.854	CP #10 - CP SPIKE N: 128550.972 E: 447054.205 Z: 671.039	
CP #5 - CP MAG N: 128825.108 E: 447632.615 Z: 671.521	CP #11 - CP MAG N: 128658.131 E: 447363.105 Z: 670.883	
CP #6 - CP SPIKE N: 128665.470 E: 447182.854 Z: 670.788	CP #12 - CP MAG N: 128643.726 E: 447149.557 Z: 673.774	

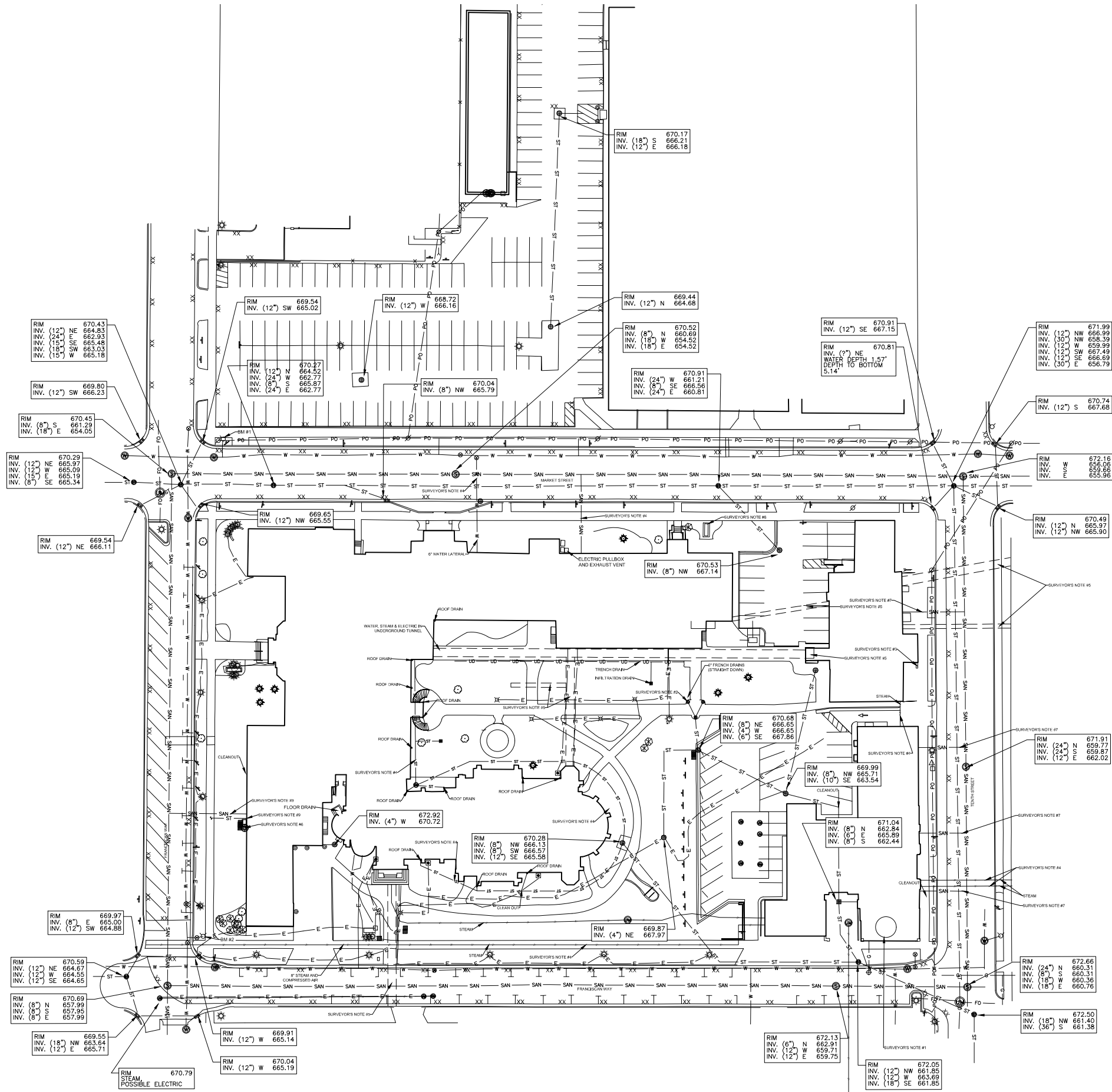


CONSULTANT:

AD 2	03-11-19
MARK	DATE
ISSUED:	03-11-19
PROJECT NO:	18244
CAD DWG FILE:	
DRAWN BY:	T.CONRO
CHECKED BY:	B. BERLAND
COPYRIGHT © 2019	
HOFFMAN PLANNING, DESIGN & CONSTRUCTION, INC.	
SHEET TITLE:	Existing Site Plan

SHEET NUMBER:

C100



SURVEYOR'S NOTES

1. 15' DIAMETER BRICK SMOKE STACK SURROUNDED BY BRICK RETAINING WALL. SMOKE STACK CHIMNEY IS 23.65' WEST OF SOUTHEAST CORNER OF POWER PLANT BUILDING AND 10' NORTH OF SOUTHEAST PART OF EXTERIOR BRICK RETAINING WALL.
2. CATCH BASINS THAT DO NOT HAVE INVERTS APPEAR AS "FRENCH DRAINS".
3. 12" WIDE X 3.9' LONG X 2' HIGH RETAINING WALL.
4. UTILITIES DRAWN PER NOTES FROM SITE WALK ON DECEMBER 19, 2018 WITH PROPERTY'S BUILDING AND GROUNDS MANAGER.
5. TUNNELS DRAWN PER NOTES FROM SITE WALK ON DECEMBER 19, 2018 WITH PROPERTY'S BUILDING AND GROUNDS MANAGER.
6. GAS LINE LOCATION FROM METER UNKNOWN.
7. SANITARY LATERALS DRAWN PER TOPOGRAPHIC SITE MAP FOR FRANCISCAN SKEMP HEALTH CARE DATED SEPTEMBER 18, 2001.
8. ELECTRICAL SERVICE TO SIGN NOT LOCATED.
9. STORM SEWER LOCATION DRAWN PER MEP ASSOCIATES, LLC PLUMBING PLANS, SHEET PD-A-100, DATED FEBRUARY 26, 2019.

BENCH MARK

ELEVATIONS BASED ON NAVD 88 USING WISGEIOD 12A:

BENCHMARK #6206
BURY BOLT ON HYDRANT LOCATED ON THE NORTHEAST CORNER OF MARKET STREET AND 9TH STREET INTERSECTION.

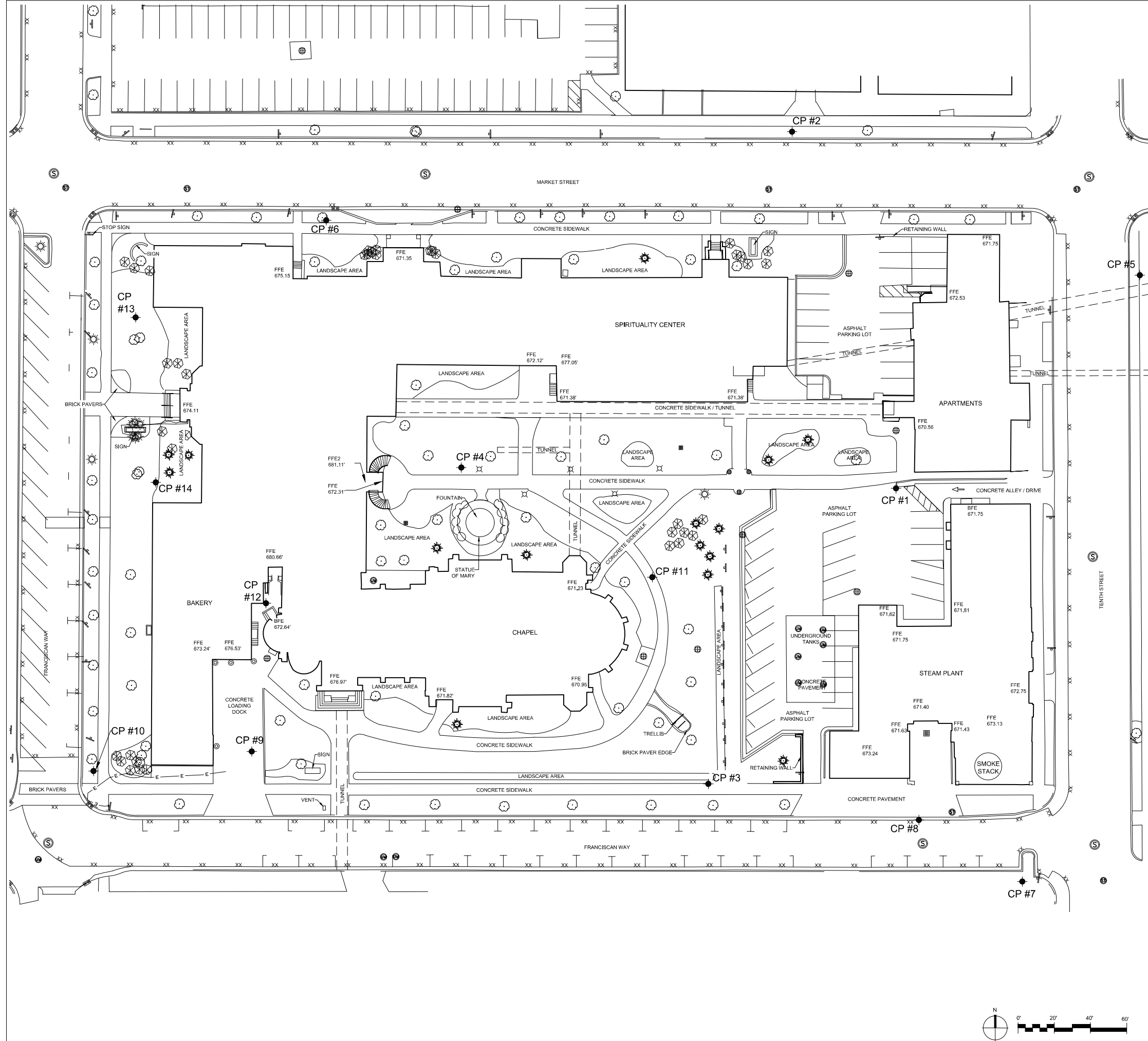
ELEVATION: 672.897

BENCHMARK #6691
BURY BOLT ON HYDRANT LOCATION ON THE NORTHEAST CORNER OF 9TH STREET AND FRANCISCAN WAY INTERSECTION.

ELEVATION: 673.721

UTILITY LEGEND

- LIGHT POLE
- POWER POLE
- GUY
- △ TELEPHONE PEDESTAL
- ELECTRICAL BOX
- TELEPHONE MANHOLE
- SANITARY MANHOLE
- WATER MANHOLE
- STORM MANHOLE
- UTILITY MANHOLE
- CATCH BASIN
- CATCH BASIN
- WATER VALVE
- HYDRANT
- SANITARY SEWER
- STORM SEWER
- POWER OVERHEAD
- BURIED ELECTRIC
- BURIED GAS
- BURIED TELEPHONE
- WATERMAIN
- FIBER OPTICS
- UNDER DRAIN
- ELECTRIC METER
- GAS METER
- GAS VALVE
- ELECTRIC OUTLETS



SITE LEGEND

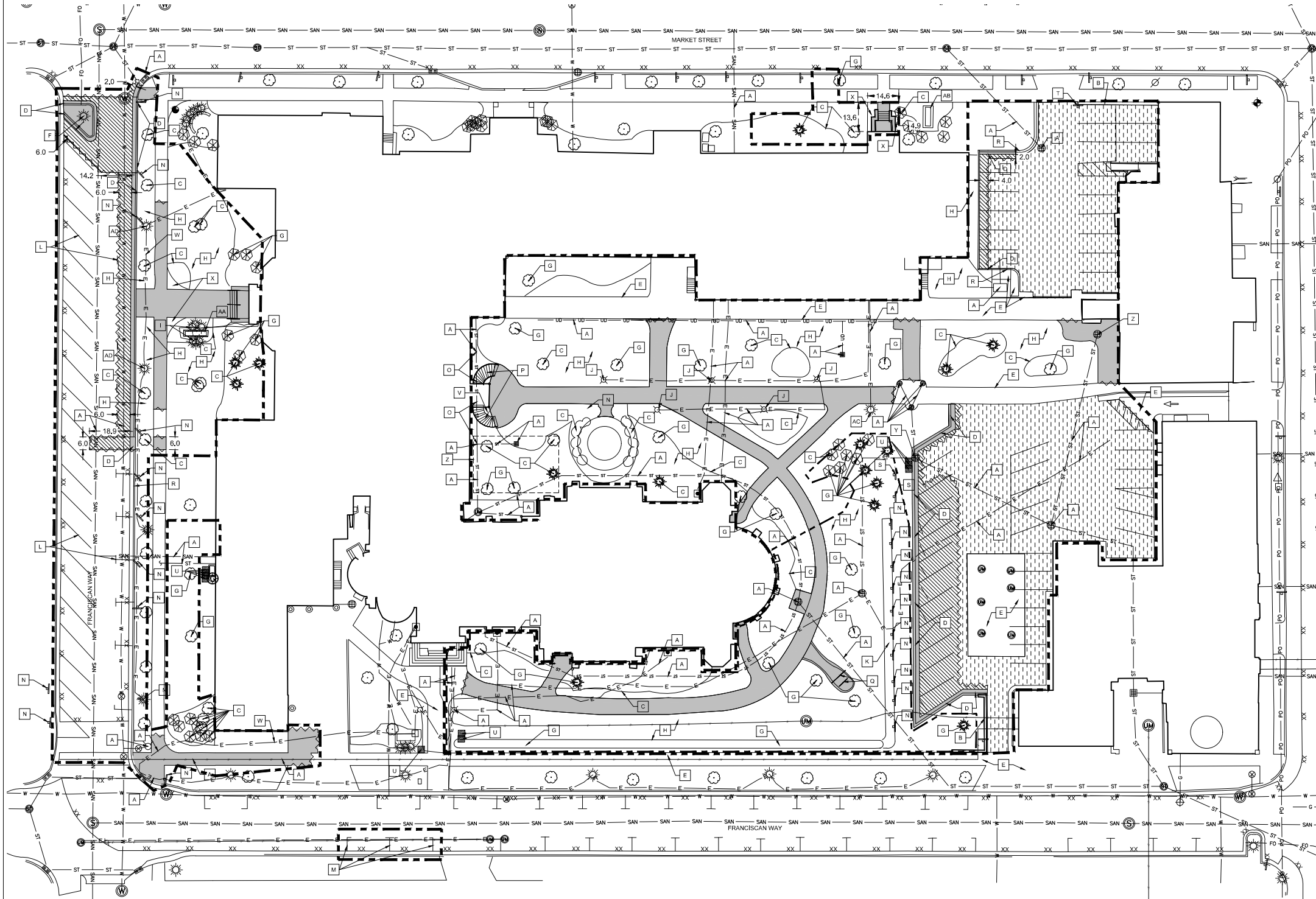
- EDGE OF BITUMINOUS
- TREE
- PINE TREE
- BUSH/SHRUB
- SIGN
- YARD LIGHT
- TRAFFIC BOLLARD
- BENCH

SURVEY CONTROL POINTS

COORDINATE SYSTEM BASED ON: NAD83 (2007) WITH LA CROSSE COUNTY COORDINATES USING WISCORS

CP #1 - CP MAG N: 128707.264 E: 447497.862 Z: 670.748	CP #7 - CP SPIKE N: 128489.851 E: 447567.652 Z: 672.866	CP #13 - CP SPIKE N: 128801.765 E: 447077.486 Z: 671.632
CP #2 - CP SPIKE N: 128904.457 E: 447440.372 Z: 671.158	CP #8 - CP MAG N: 1287523.89 E: 447510.498 Z: 672.363	CP #14 - CP SPIKE N: 128710.577 E: 447088.507 Z: 672.234
CP #3 - CP MAG N: 128543.859 E: 447394.094 Z: 672.919	CP #9 - CP MAG N: 128561.771 E: 447141.675 Z: 672.363	
CP #4 - CP SPIKE N: 128718.792 E: 447257.538 Z: 671.854	CP #10 - CP SPIKE N: 128550.972 E: 447054.205 Z: 671.039	
CP #5 - CP MAG N: 128825.108 E: 447632.615 Z: 671.521	CP #11 - CP MAG N: 128858.131 E: 447363.105 Z: 670.683	
CP #6 - CP SPIKE N: 128855.470 E: 447182.854 Z: 670.788	CP #12 - CP MAG N: 128643.726 E: 447149.557 Z: 673.774	

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MARK	DATE
ISSUED:	03-11-19
PROJECT NO:	18244
CAD DWG FILE:	
DRAWN BY:	T.CONRO
CHECKED BY:	B.GERLAND
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SHEET TITLE:	
Existing Site Features	
SHEET NUMBER:	
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GENERAL NOTES

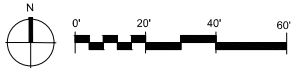
- 1. CONTRACTOR SHALL CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO START OF DEMOLITION/CONSTRUCTION.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING PUBLIC AND PRIVATE UTILITIES PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- 3. COORDINATE SITE CONSTRUCTION ACCESS WITH HOFFMAN PRIOR TO START OF CONSTRUCTION.
- 4. CONTRACTOR SHALL STRIP AND STOCK PILE ALL TOPSOIL WITHIN THE PROJECT LIMITS OR AS NEEDED TO CONDUCT ALL CONSTRUCTION DETAILED IN THE PLANS AND SPECIFICATIONS.
- 5. STRIP ONLY THE TOPSOIL WITHIN THE PROJECT LIMITS THAT WILL BE DISTURBED DURING CONSTRUCTION.
- 6. REMOVE ONLY THE EXISTING TREES AND VEGETATION WITHIN THE PROJECT LIMITS THAT INHIBIT CONSTRUCTION.
- 7. REMOVE ANY ABANDONED UTILITIES WITHIN THE PROJECT LIMITS THAT INHIBIT CONSTRUCTION.
- 8. ALL CONTRACTORS SUBMITTING A BID SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS PRIOR TO THE BID DATE. ANY DISCREPANCIES FOUND ARE TO BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT FOR REVIEW IMMEDIATELY UPON DISCOVERY.
- 9. ALL ITEMS TO BE REMOVED AND DISPOSED OF SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
- 10. VERIFY ALL REMOVAL AND SALVAGE ITEMS WITH THE HOFFMAN.
- 11. ALL ITEMS TO BE SALVAGED SHALL BE DELIVERED TO THE OWNER. COORDINATE STORAGE AND DELIVERY WITH HOFFMAN.
- 12. ALL AREAS AND SITE FEATURES DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO THE ORIGINAL CONDITION.
- 13. ALL SITE ENTITIES OUTSIDE THE LIMITS OF CONSTRUCTION LINE SHALL NOT BE DISTURBED.
- 14. REMOVE EXISTING LANDSCAPE MATERIALS AS NECESSARY.
- 15. EXISTING IRRIGATION SYSTEM TO BE PROTECTED AS MUCH AS POSSIBLE DURING CONSTRUCTION.
- 16. SAWCUT CONCRETE AT NEAREST JOINT IN SIDEWALKS AND CURB AND GUTTER.

DEMOLITION LEGEND

- REMOVE EXISTING CONCRETE (STEPS, WALLS, CURB & GUTTER, SIDEWALK)
- REMOVE EXISTING ASPHALT AND BASE COURSE
- FULL DEPTH MILL OF EXISTING ASPHALT
- SAW CUT EXISTING PAVEMENT
- APPROXIMATE LIMITS OF CONSTRUCTION
- ALTERNATE BID 1

DEMOLITION KEYNOTES

- A MAINTAIN & PROTECT EXISTING UTILITY. PROCEED WITH CAUTION.
- B PROTECT EXISTING WALL IN PLACE
- C REMOVE EXISTING VEGETATION / LANDSCAPE AREA
- D REMOVE EXISTING CURB & GUTTER
- E MAINTAIN & PROTECT EXISTING PAVEMENT
- F REMOVE, SALVAGE, & RELOCATE LIGHT POLE - SEE ELECTRICAL PLAN
- G MAINTAIN & PROTECT EXISTING VEGETATION / LANDSCAPE AREA
- H STRIP & REMOVE TOPSOIL
- I REMOVE EXISTING UTILITY
- J REMOVE EXISTING BOLLARD - SEE ELECTRICAL PLAN
- K REMOVE, SALVAGE IF POSSIBLE, & RELOCATE DWARF ULAC HEDGE - SEE LANDSCAPE PLAN
- L REMOVE PAVEMENT STRIPING ALONG ENTIRE NORTH-SOUTH LEG OF FRANCISCAN WAY
- M REMOVE PAVEMENT STRIPING FOR TWO PARALLEL PARKING STALLS WEST OF SOUTHERN DRIVEWAY ON THE EAST-WEST LEG OF FRANCISCAN WAY.
- N REMOVE, SALVAGE & RELOCATE SIGN
- O REMOVE EXISTING UNDERDRAIN FOR BUILDING LOCATION
- P REMOVE EXISTING STEEL STAIRS - SEE ARCHITECTURAL PLAN
- Q REMOVE EXISTING FENCE & BENCH
- R MAINTAIN EXISTING CURB & GUTTER
- S MAINTAIN 'VISITOR PARKING ONLY' SIGN
- T MAINTAIN 'AUTHORIZED VEHICLES ONLY' SIGN
- U MAINTAIN EXISTING UNDERGROUND SPRINKLER SYSTEM
- V SALVAGE PITCHER PUMP AND RELOCATE - SEE LANDSCAPE PLANS
- W RELOCATE EXISTING UNDERGROUND ELECTRIC - SEE ELECTRICAL PLAN
- X REMOVE BRICK PAVERS
- Y REPLACE EXISTING STORM INLET CASTING WITH NEENAH R-3067-R, ADJUST RIM ELEVATION TO PROPOSED FINISH GRADE
- Z CAUTION WHEN WORKING IN THIS AREA, POSSIBLE CISTERN LOCATED BELOW GROUND
- AA REMOVE SIGN (INCLUDING BASE AND FOUNDATION)
- AB MAINTAIN & PROTECT SIGN
- AC REMOVE EXISTING LIGHT POLES - SEE ELECTRICAL PLAN

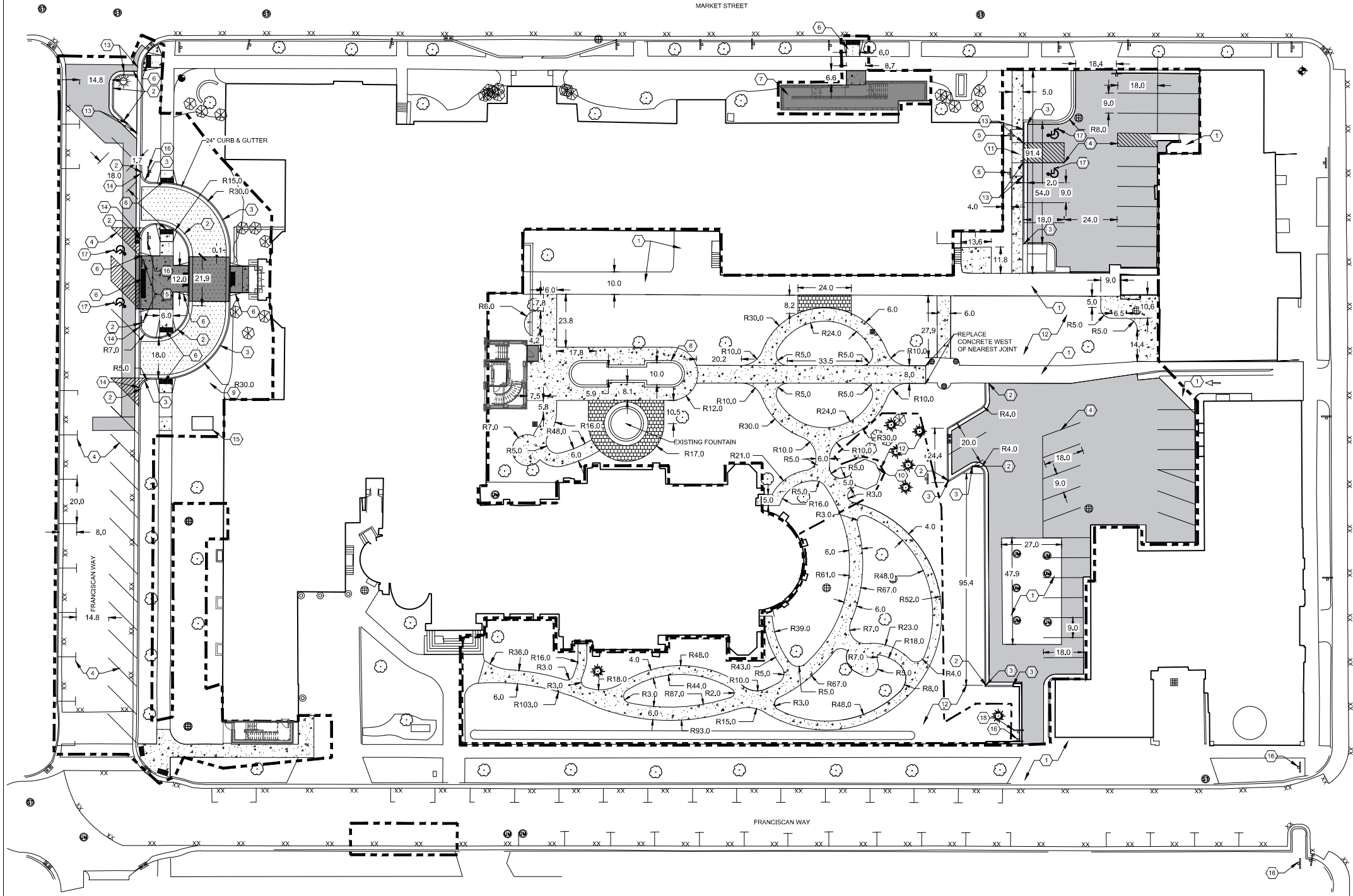


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Site Demolition
Plan

SHEET NUMBER:

C200



GENERAL NOTES

- 1. ALL PROPOSED DIMENSIONS ARE REFERENCED PARALLEL OR PERPENDICULAR TO THE PROPOSED FEATURES SHOWN.
- 2. EXISTING SPRINKLER SYSTEM TO BE REPLACED BY OTHERS.

SITE LEGEND

SPECIALTY PAVING AREAS
-SEE LANDSCAPE PLAN

CONCRETE PAVEMENT, FIBER REINFORCED,
5-INCH DEPTH
DENSE GRADED BASE, 4-INCH DEPTH

CONCRETE PAVEMENT, FIBER REINFORCED
6-INCH DEPTH
DENSE GRADED BASE, 8-INCH DEPTH

FULL DEPTH MILL & OVERLAY,
APPROX. 3-INCH DEPTH

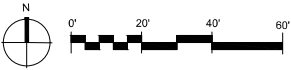
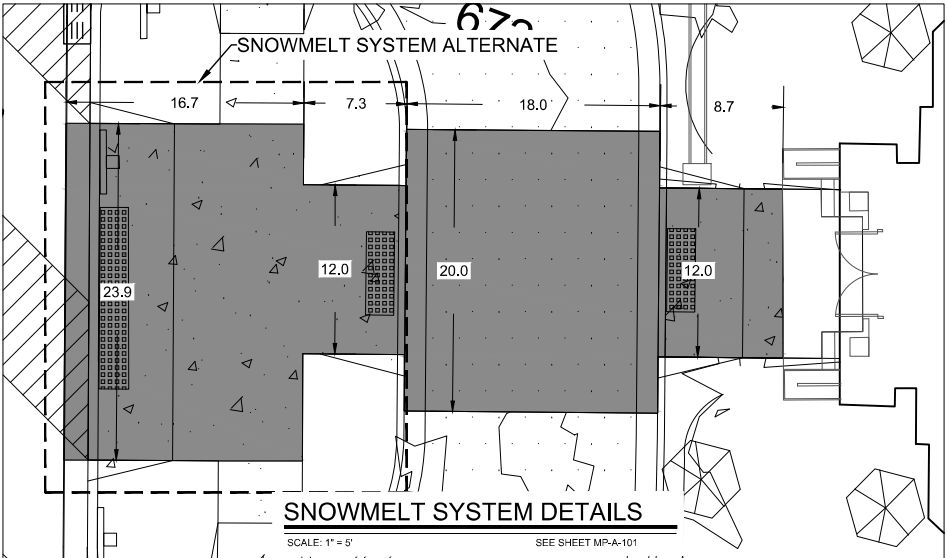
SNOWMELT SYSTEM
-SEE SHEET MP-A-101

APPROXIMATE LIMITS
OF CONSTRUCTION

ALTERNATE BID 1

LAYOUT KEYNOTES

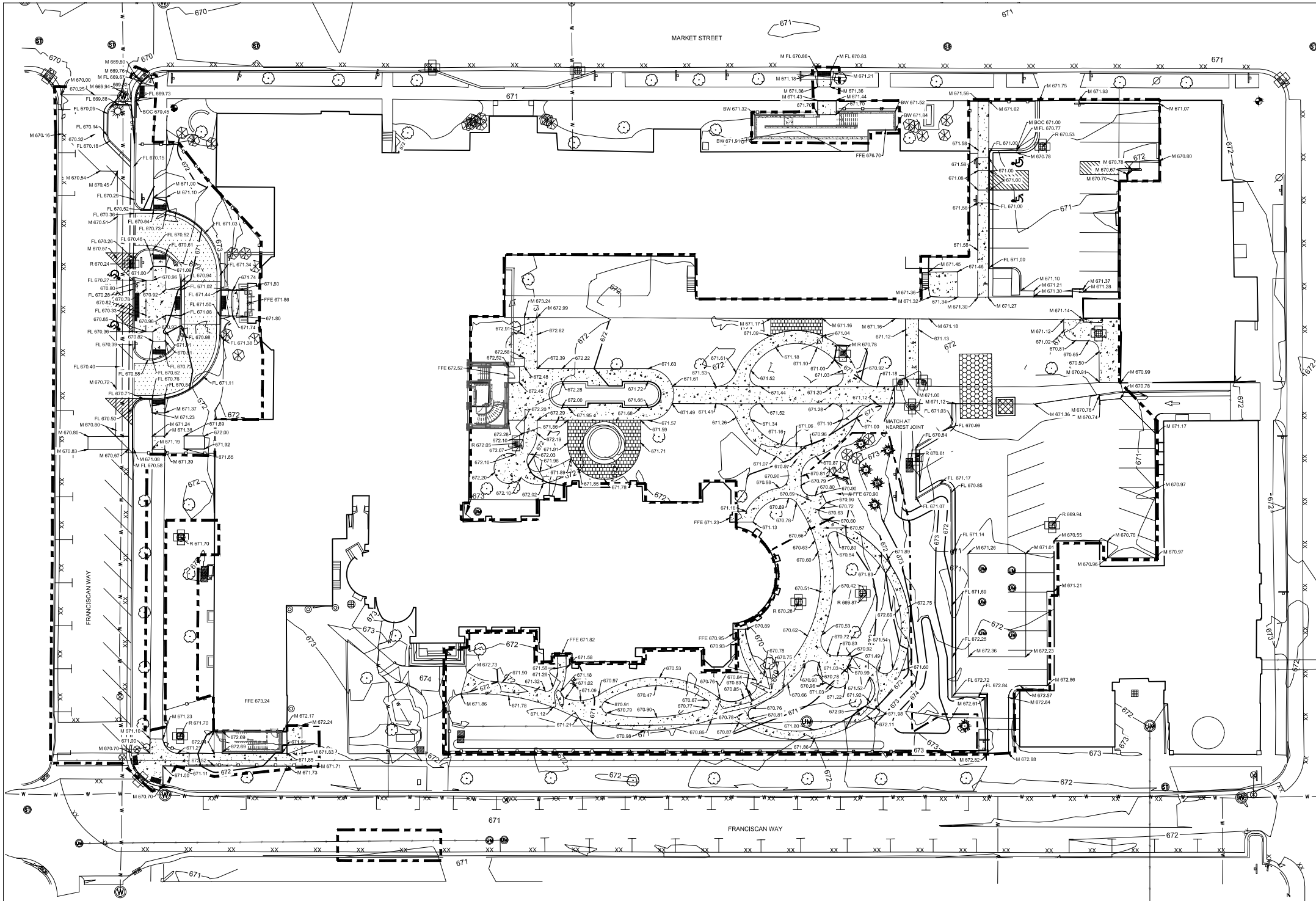
- 1 EXISTING CONCRETE PAVEMENT
- 2 24" ACCEPTING CURB & GUTTER
- 3 24" REJECTING CURB & GUTTER
- 4 PAVEMENT STRIPING
- 5 HANDICAPPED PARKING SIGNS
- 6 TYPE 3 ADA RAMP
- 7 ADA RAMP, SEE ARCHITECTURAL AND STRUCTURAL PLANS
- 8 SEAT WALL, SEE LANDSCAPING PLANS
- 9 NEW SIGN, BY OTHERS
- 10 PROPOSED GAZEBO, SEE LANDSCAPING PLAN
- 11 SIDEWALK DEPRESSION
- 12 BERM WITH LANDSCAPING - SEE LANDSCAPING PLAN
- 13 CURB TRANSITION
- 14 24" FLOWLINE CURB
- 15 GREASE INTERCEPTOR - SEE PLUMBING PLANS
- 16 'DO NOT ENTER' SIGN
- 17 ADA PARKING STRIPING
- 18 EXISTING CAUTIONARY SIGN



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Site Layout Plan

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C300



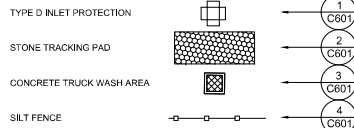
GENERAL NOTES

1. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE PROJECT MANAGER.
2. SEED / FERTILIZE / AND GRASS MULCH OR SOO ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION IN ACCORDANCE WITH THE LANDSCAPE PLAN.
3. ALL EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF GRASS IS ESTABLISHED IN ALL GENERAL LANDSCAPE AREAS, AND THEN REMOVED BY THE SITE CONTRACTOR.
4. ALL WASTE AND UNUSED BUILDING MATERIALS SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY STORMWATER RUNOFF OR WIND.
5. ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. FLUSHING SHALL NOT BE ALLOWED.
6. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT EROSION CONTROL INSPECTOR AT LEAST 2 DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
7. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
8. ALL SEDIMENT LADEN WATER PUMPED FROM THE SITE SHALL BE TREATED BY A TEMPORARY SEDIMENT BASIN OR BE FILTERED BY OTHER APPROVED MEANS. WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS.
9. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREA, INCLUDING SOIL STOCKPILES LEFT INACTIVE FOR MORE THAN 10 DAYS, SHALL AT A MINIMUM BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER METHODS APPROVED BY THE LOCAL GOVERNING AUTHORITY'S EROSION CONTROL INSPECTOR.
10. IN THE CASE OF LATE SEASON AND WINTER CONSTRUCTION, RESTORATION/LANDSCAPING OF THE SITE SHALL OCCUR NO LATER THAN JUNE 1ST OF THE NEXT CONSTRUCTION SEASON. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. FABRIC INSIDE THE INLET AND CATCH BASIN GRATE SHALL BE REMOVED AS SOON AS FREEZING WEATHER OCCURS SO DRAINAGE IS NOT IMPAIRED THROUGHOUT THE WINTER MONTHS. ALL EROSION CONTROL PRACTICES REMOVED OR DAMAGED DUE TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE GROUND THAWS.
11. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF THE WORK DAY.
12. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION AFTER STABILIZATION OF DISTURBED SOIL HAS OCCURRED.
13. GEOTEXTILE FILTER FABRIC USED AS A SEDIMENT BARRIER IN STORM DRAIN INLETS AND CATCH BASINS SHALL BE GTF 403 AS MANUFACTURED BY LINQ INDUSTRIAL FABRICS, OR FILTERWEAVE 401, AS MANUFACTURED BY TC MIRAF. FABRIC SHALL BE PLACED UNDER THE GRATE, WITH A MINIMUM OF 8 INCHES OF FABRIC EXTENDING BEYOND THE GRATING TO PROVIDE A HAND HOLD WHEN REMOVING. SILT FENCE MATERIAL IS NOT APPROVED FOR USE IN INLETS AS FLOW RATES ARE INSUFFICIENT AND EXCESSIVE PONDING/FLOODING MAY OCCUR. FABRIC SHALL NOT BE RIPPED OR CUT TO PREVENT PONDING. IF FABRIC IS RIPPED IT SHALL BE REPLACED IMMEDIATELY. ALTERNATE PROTECTION SHALL BE USED IF PONDING MAY CAUSE DAMAGE TO ADJACENT BUILDINGS AND/OR PROPERTIES.
14. EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE. THE PROPERTY OWNER OR HIS REPRESENTATIVE IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED AND SUBMITTED TO THE LOCAL GOVERNING AUTHORITY'S PROJECT INSPECTOR.

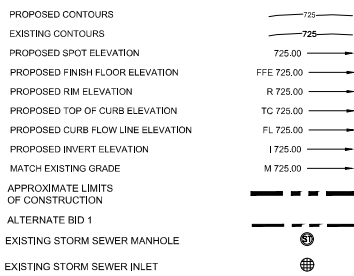
CONSTRUCTION EROSION CONTROL SEQUENCE

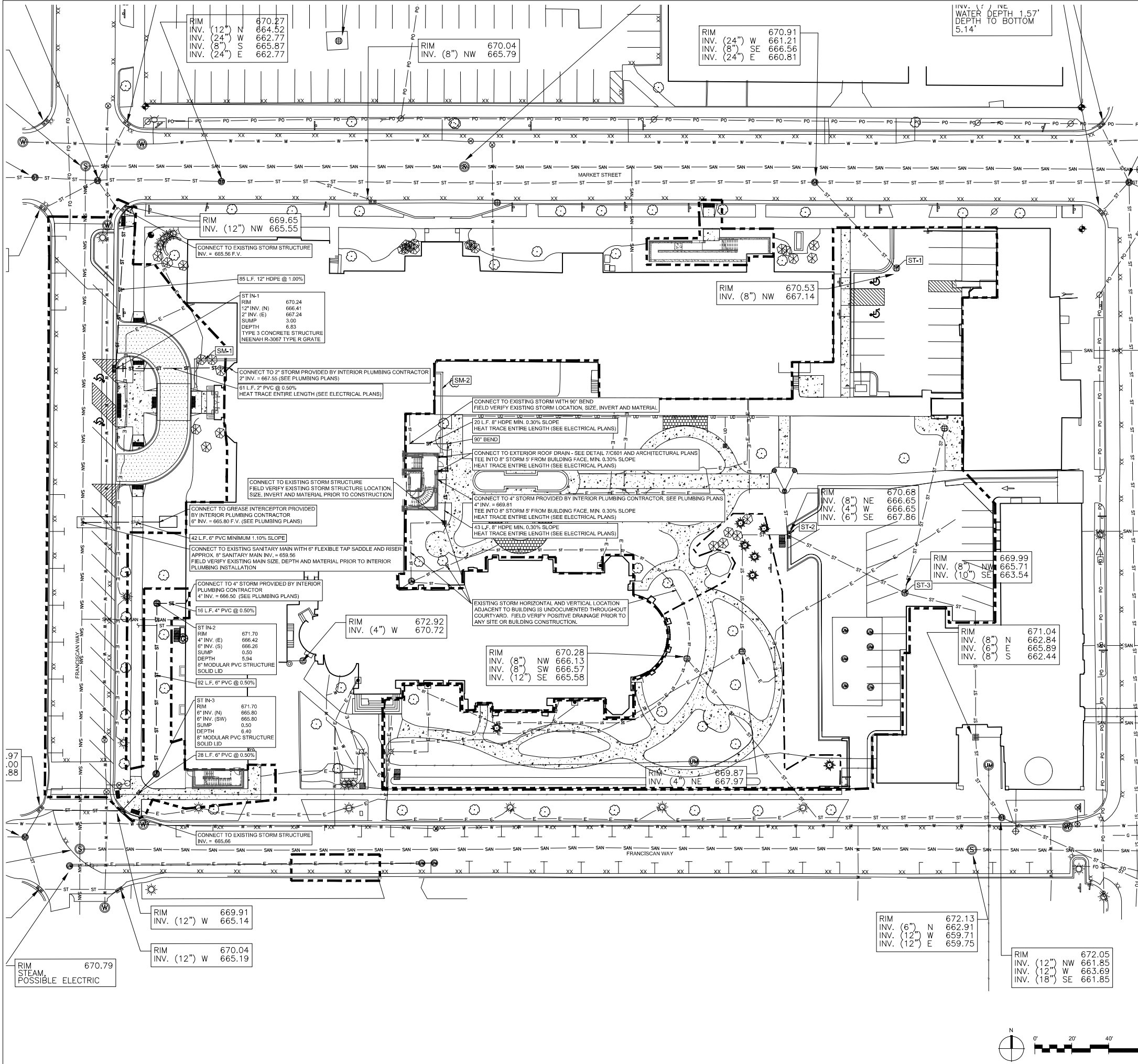
CONSTRUCTION ACTIVITY	APPROX. DATE	SCHEDULED CONTROL MEASURES
1. CONSTRUCTION ACCESS - CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, AND EQUIPMENT PARKING AREAS.		FIRST LAND DISTURBING ACTIVITY - TRACKING PAD WILL BE CONSTRUCTED AT THE ENTRANCE(S) TO THE SITE. BARE AREAS USED FOR CONSTRUCTION STAGING/PARKING WILL BE STABILIZED WITH GRAVEL AS CONSTRUCTION TAKES PLACE. MINIMUM WEEKLY STREET SWEEPING REQUIRED OR MORE OFTEN AS NEEDED.
2. SEDIMENT BARRIERS - SILT FENCE, SILT FENCE OUTLETS, INLET AND OUTLET PROTECTION.		INSTALL SILT FENCE AND SILT FENCE OUTLETS AT LOCATIONS INDICATED ON THE PLANS. INSTALL INLET PROTECTION UNITS IN EXISTING INLETS IMMEDIATELY AFTER PROJECT SITE IS ACCESSED.
4. RUNOFF CONTROL - EXCAVATE STORM WATER TREATMENT FEATURES. IF NECESSARY CONSTRUCT SWALES AND DIKES TO DIVERT WATER TO FEATURES.		INSTALL EROSION MAT, POLYMER BLOCKS AND ADDITIONAL PRACTICES AS NECESSARY DURING GRADING. ESTABLISH AREAS FOR PREVENTING THE TRANSPORT OF CHEMICALS, CEMENT, AND OUT BUILDING COMPOUNDS INCLUDING WASH WATER FROM VEHICLES SUCH AS CONCRETE TRUCKS. BASIN SHALL BE EXCAVATED.
5. RUNOFF CONVEYANCE SYSTEM - CONSTRUCT STORM SEWER SYSTEM.		INSTALL STORMWATER SYSTEM WITH RUNOFF CONTROL MEASURES. STABILIZE STORM DRAINS, INSTALL INLET AND OUTLET PROTECTION AS EARLY AS POSSIBLE.
6. LAND CLEARING AND GRADING - SITE PREPARATION, CUTTING, FILLING, GRADING AND TOPSOIL STOCKPILES.		BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL EROSION CONTROL PRACTICES HAVE BEEN INSTALLED. CLEAR AND GRADE ONLY AS NEEDED. INSTALL ADDITIONAL MEASURES AS NECESSARY SUCH AS SILT FENCE OR SPRAYED POLYMER AROUND STOCKPILES. AREAS WITHIN 30 FEET OF STATE WATER BODIES WILL BE STABILIZED WITH EROSION MATS. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
7. SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, AND RIPRAP.		APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
9. LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.		LAST CONSTRUCTION PHASE - STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS WITH TURF OR PAVEMENT. REMOVE AND STABILIZE ALL TEMPORARY PRACTICES.
10. WINTER STABILIZATION - IN THE EVENT THE PROJECT IS NOT COMPLETED BEFORE NOVEMBER 2019		APPLY SPRAYED POLYMER AROUND STOCKPILES AND OPEN AREAS NOT YET STABILIZED. MONITOR PER SUPPLIER RECOMMENDATIONS. SEEDING - PERMANENT SEEDING IF DONE BEFORE SEPTEMBER 15; TEMPORARY SEEDING THEN RESEED IF DONE BETWEEN SEPTEMBER 15 AND OCTOBER 15; DORMANT SEED AFTER OCTOBER 15.

EROSION CONTROL LEGEND



GRADING LEGEND





GENERAL NOTES

- ANY EXISTING UTILITIES NOT SHOWN ON THESE DOCUMENTS WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE BID.
- ALL PAVEMENT DISTURBED BY PROPOSED UTILITIES SHALL BE RESTORED IN KIND BY THE CONTRACTOR AND SHALL BE INCLUDED AS PART OF THE BASE BID.
- PROVIDE ACCESS TO TRACER WIRE IN ALL MANHOLES & INLETS. SPLICE TRACER WIRE AS NECESSARY.
- SEE PLUMBING PLAN FOR ROOF DRAIN CONNECTIONS.
- FIELD VERIFY EXISTING SANITARY SEWER AND STORM SEWER INVERT, SIZE AND MATERIAL AT ALL PROPOSED CONNECTIONS.

UTILITY LEGEND

STORM STRUCTURE NUMBER	ST-1
STORM SEWER PIPE	ST
UNDERDRAIN	UD-1
SANITARY STRUCTURE NUMBER	SS-1
SANITARY SEWER PIPE	SAN
DOWNSPOUT	DS
STORM SEWER INLET	SI
SNOWMELT SYSTEM	SM-1
APPROXIMATE LIMITS OF CONSTRUCTION	---
ALTERNATE BID 1	---

UTILITY KEYNOTES

ST-1	REPLACE EXISTING STORM INLET CASTING, ADJUST RIM ELEVATION TO PROPOSED FINISH GRADE
ST-2	REPLACE EXISTING STORM INLET CASTING WITH NEENAH R-3067-R, ADJUST RIM ELEVATION TO PROPOSED FINISH GRADE
ST-3	REPLACE EXISTING STORM INLET CASTING, ADJUST RIM ELEVATION TO PROPOSED FINISH GRADE
SM-1	SNOWMELT SYSTEM PIPING AND MANIFOLD - SEE MECHANICAL PLANS
SM-2	SNOWMELT SYSTEM PIPING AND MANIFOLD - SEE MECHANICAL PLANS

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Diagram illustrating the dimensions for the International Symbol of Access (wheelchair symbol) within a square frame:

- WIDTH OF SYMBOL:** MIN=24", SPECIAL=36"
- HEIGHT OF SYMBOL:** MIN=28", SPECIAL=41"

NOTES:
*STROKE WIDTH: MIN=3"; SPECIAL=4"
**BLUE BACKGROUND AND WHITE BORDER ARE OPTIONAL

1/8"

5" OR 6"

1/4 OF SLAB THICKNESS

1/8" WIDE SAW JOINT (CUT WITHIN 12 HOURS OF CONCRETE PLACEMENT)

VARIABLE

BASE AGGREGATE DENSE

PREPARED SUBGRADE

Technical drawing of a 'RESERVED PARKING' sign. The sign is rectangular with a white background and a black border. It features the text 'RESERVED PARKING' at the top, a blue wheelchair symbol in the center, and the text 'VEHICLES WITH VET OR DIS PLATES OR STATE DISABLED CARD THIS SPACE' at the bottom. The sign is mounted on a post. Dimensions and callouts are provided:

- Overall width: 1'-0"
- Overall height: 1'-5"
- Callouts:
 - GREEN TEXT
 - WHITE INTERNATIONAL SYMBOL
 - BLUE SYMBOL
 - WHITE FIELD
 - GREEN TEXT & BORDER
- Sign post dimensions:
 - POST TO BE SET INTO 12" DIA./24" DEEP CONCRETE BASE WITH PVC SLEEVE
 - Base width: 12"
 - Base depth: 24"
- Mounting height: 4'-0" MIN. ABOVE PARKING SURFACE

3" HMA PAVEMENT

8" COMPACTED BASE
AGGREGATE DENSE 1 1/2"

PREPARED SUBGRADE

1'-0"

Diagram illustrating the construction of a concrete box-out for a wood post.

The top diagram shows a plan view of the box-out. A circular 18" diameter PVC box-out is centered within a rectangular area of concrete or asphalt. A 4x8 wood post or 2x2 steel post is located in the center of the box-out. The surrounding area is labeled "GRAVEL OR DIRT".

The bottom diagram shows a side elevation of the box-out. The box-out is 4' deep. The base is concrete or asphalt. The box-out is filled with gravel or dirt. The box-out is constructed from 1/2" diameter PVC. A 4x8 wood post or 2x2 steel post is shown on the right side of the box-out.

Diagram illustrating the standard lane configuration. The lane width is 18' TYPICAL. The lane is divided by a 4" WIDE YELLOW STRIPING. The distance from the centerline to the edge of the lane is 9' STANDARD. The distance from the centerline to the edge of the lane is also labeled as 9' TYPICAL SPACE. The diagram includes a callout for 'SEE PLAN' and a dimension of 0'-4" for the shoulder width.

NOTE:
MATCH EXISTING DIMENSIONS WHEN STRIPING IN EXISTING PARKING AREAS. SEE LAYOUT PLAN (SHEET C300)
FOR DETAILS.

1-1/2" RADIUS

3/4" RADIUS

CONCRETE
BASE AGGREGATE DENSE, 1-1/4"

TYPE "A" - "ACCEPTING" PAN

18"

12"

6"

1-1/2" RADIUS

3/4" RADIUS

CONCRETE
BASE AGGREGATE DENSE, 1-1/4"

TYPE "B" - "REJECTING" PAN

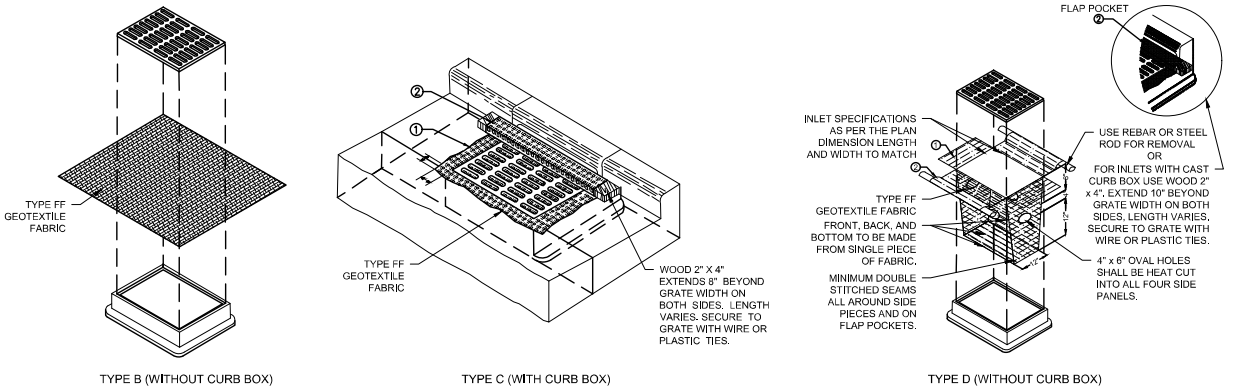
NOTE:
1. TIE BARS ARE REQUIRED FOR CURB & GUTTER ADJACENT TO CONCRETE PAVEMENT. USE NO. 6 TIE BARS SPACED 2'-6" O.C. INSTALLED PERPENDICULAR TO LONGITUDINAL JOINT.

IF WATER FLOWS FROM A TO B, CURB HEIGHT SHALL BE 6" IN THIS LOCATION.
 IF WATER FLOWS FROM B TO A, CURB HEIGHT SHALL BE 1/2" IN THIS LOCATION.

Diagram illustrating a curb and gutter installation. The curb is shown in cross-section, with a height dimension of 6" indicated. The curb is labeled 'ISOLATION JOINT' at the bottom. The flow direction is indicated by arrows: 'A' to 'B' and 'B' to 'A'. The curb is shown in two sections, labeled 'A' and 'B'.

[illegible]

11. SIDEWALK DEPRESSION



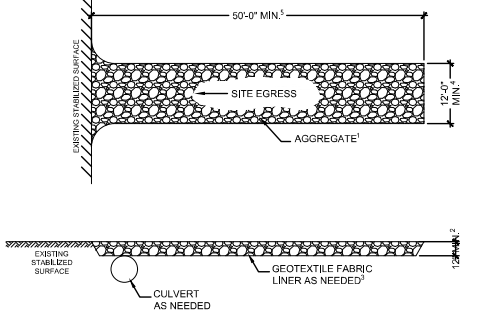
NOTES (APPLY TO BOTH TYPE B AND TYPE C INLET PROTECTION)

1. IF DEPTH IS MORE THAN 30" FROM INLET RIM TO CROWN OF PIPE, USE TYPE D INLET PROTECTION.
2. FABRIC SIZE SHALL BE 8" (MIN) GREATER ON ALL SIDES OF THE INLET COVER
3. IF EXCESSIVE SEDIMENT LOADING PLUGS FABRIC, PLACE SAND BAGS AROUND INLET TO INTERCEPT SEDIMENT.
4. THE CONTRACTOR SHALL REMOVE SEDIMENT ADJACENT TO THE FABRIC PRIOR TO REPLACING OR REMOVING INLET PROTECTION.
5. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM LEAVING THE FABRIC AND ENTERING THE INLET.
6. FABRIC SIZE SHALL BE 8-INCHES (MIN) GREATER ON ALL SIDES OF THE INLET COVER TO PROVIDE A HAND HOLD WHEN MAINTENANCE OR REMOVAL IS REQUIRED.

NOTES:

1. IF DEPTH IS LESS THAN 30" FROM INLET RIM TO CROWN OF PIPE, USE EITHER TYPE B OR TYPE C INLET PROTECTION.
2. FABRIC SIZE SHALL BE 8" (MIN) GREATER ON ALL SIDES OF THE INLET COVER TO PROVIDE A HAND HOLD WHEN MAINTENANCE OR REMOVAL IS REQUIRED.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

1. INLET PROTECTION



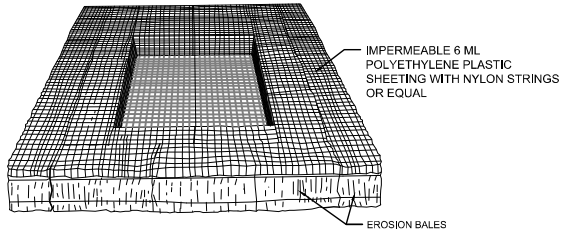
NOTES:

1. USE HARD, DURABLE, ANGULAR STONE OR RECYCLED CONCRETE MEETING THE GRADATION BELOW. WHERE THIS GRADATION IS NOT AVAILABLE, MEET THE GRADATION IN WISCONSIN DEPARTMENT OF TRANSPORTATION (DOT) 2018 STANDARD SPECIFICATION, SECTION 312. SELECT CRUSHED MATERIAL.

SIEVE	PERCENT PASSING (BY WEIGHT)
3"	100
2-1/2"	90-100
1-1/2"	25-60
3/4"	0-20
3/8"	0-5

2. SLOPE THE STONE TRACKING PAD IN A MANNER TO DIRECT RUNOFF TO AN APPROVED TREATMENT PRACTICE.
3. SELECT FABRIC TYPE BASED ON SOIL CONDITIONS AND VEHICLE LOADING.
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.
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.

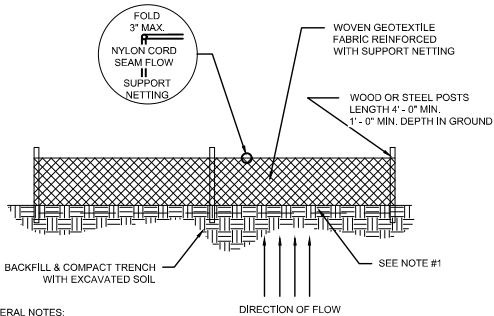
2. TEMPORARY TRACKING PAD



NOTES:

- REQUIRES SIGN SAYING "CONCRETE TRUCK WASH AREA"
- WATER IS HIGHLY ALKALINE AND SHALL NOT BE DISCHARGED FROM WASH-OUT AREA

3. CONCRETE TRUCK WASHOUT AREA



GENERAL NOTES:

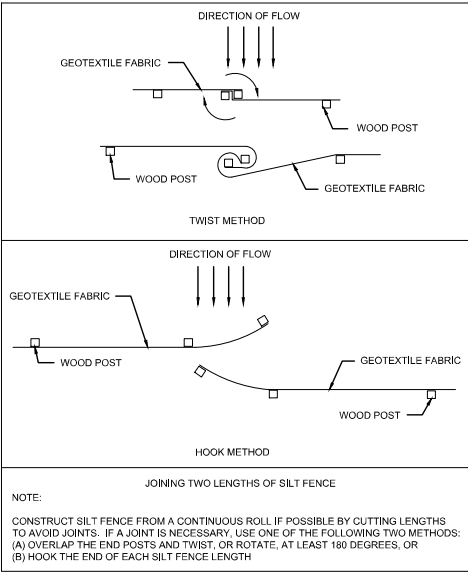
DETAILS OF CONSTRUCTION NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO CRITERIA SET BY AUTHORITIES HAVING JURISDICTION AND BY THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.

WHEN POSSIBLE, THE SILT FENCE SHOULD BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE WITH THE ENDS POINTING UP SLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.

1. EXCAVATE A TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.

2. WOVEN GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 1/2" OR EQUAL. A HEAVY-DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.

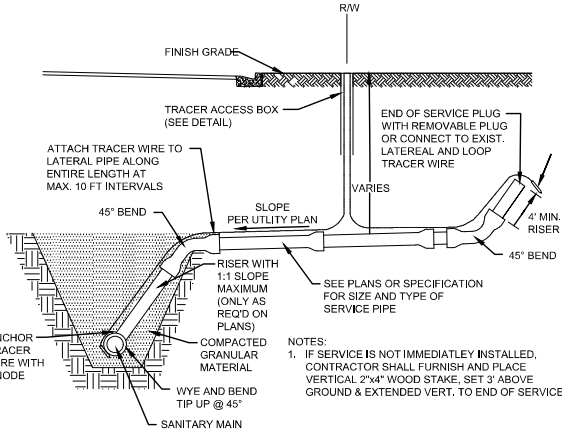
3. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM BEARING OF 128 LBS./LINEAL FOOT (WITHOUT ANCHOR). FINISH ANCHORS RESISTANT TO POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIAMETER OR 1 1/2" x 3 1/2". EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING WHICH SHALL BE A MINIMUM SIZE OF 1 1/2" x 1 1/2" x 48" OAK OR HICKORY.



NOTE:

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, OR (B) HOOK THE END OF EACH SILT FENCE LENGTH

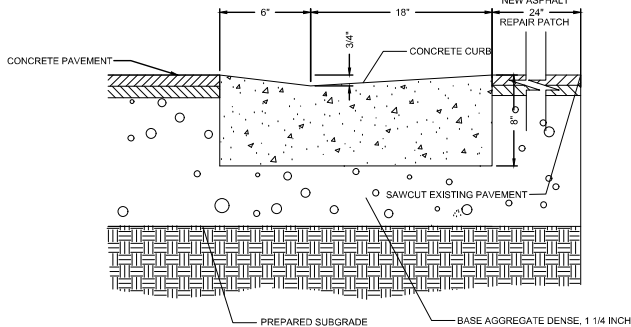
4. SILT FENCE



NOTES:

1. IF SERVICE IS NOT IMMEDIATELY INSTALLED, CONTRACTOR SHALL FURNISH AND PLACE VERTICAL 2"x4" WOOD STAKE, SET 3" ABOVE GROUND & EXTENDED VERT. TO END OF SERVICE

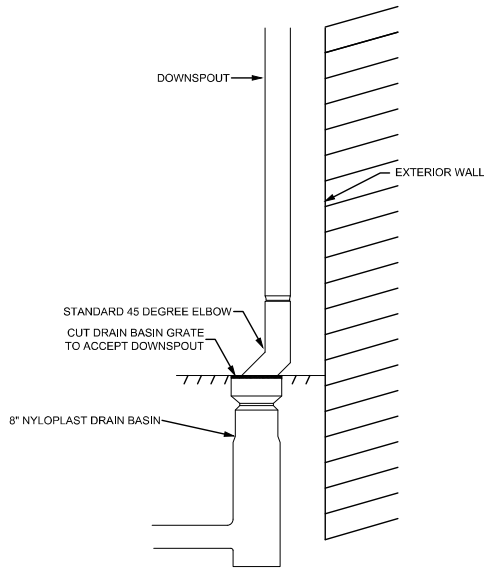
5. SANITARY SEWER LATERAL RISER



NOTES:

1. TIE BARS ARE REQUIRED FOR CURB & GUTTER ADJACENT TO CONCRETE PAVEMENT. USE NO. 6 TIE BARS SPACED 2'-6\"/>

6. 24" FLOWLINE CURB



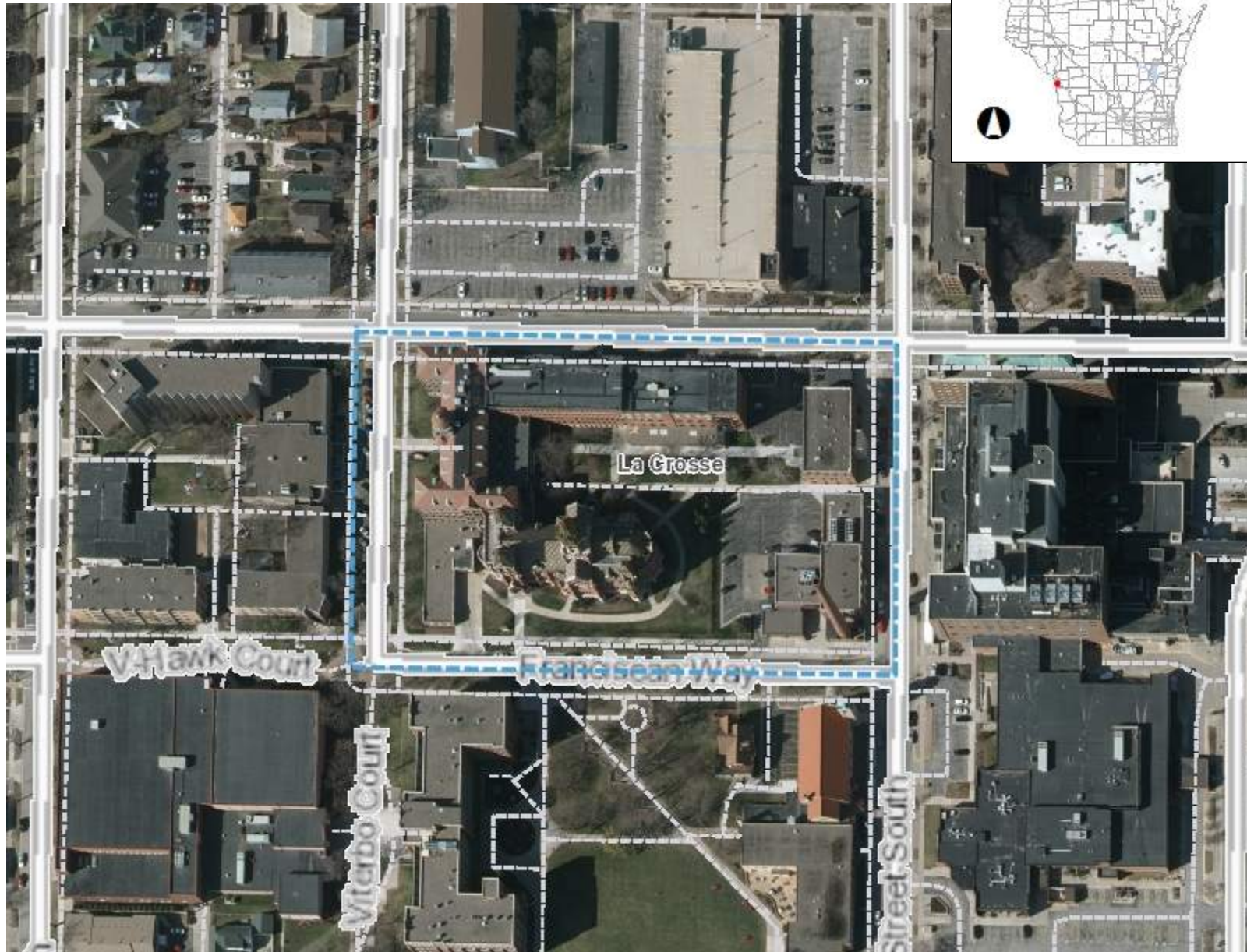
7. DOWNSPOUT INLET

2. PREDEVELOPMENT SITE CONDITIONS

- A. Site Location Map
- B. Designated Waters Map
- C. Wetland & Wetland Indicators Map
- D. Site Pictures



Site Location Map



Legend

- Municipality
- State Boundaries
- County Boundaries
- Major Roads
 - Interstate Highway
 - State Highway
 - US Highway
- County and Local Roads
 - County HWY
 - Local Road
- Railroads
- Tribal Lands
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water
- Index to
EN_Image_Basemap_Leaf_Off

0.1 0 0.03 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

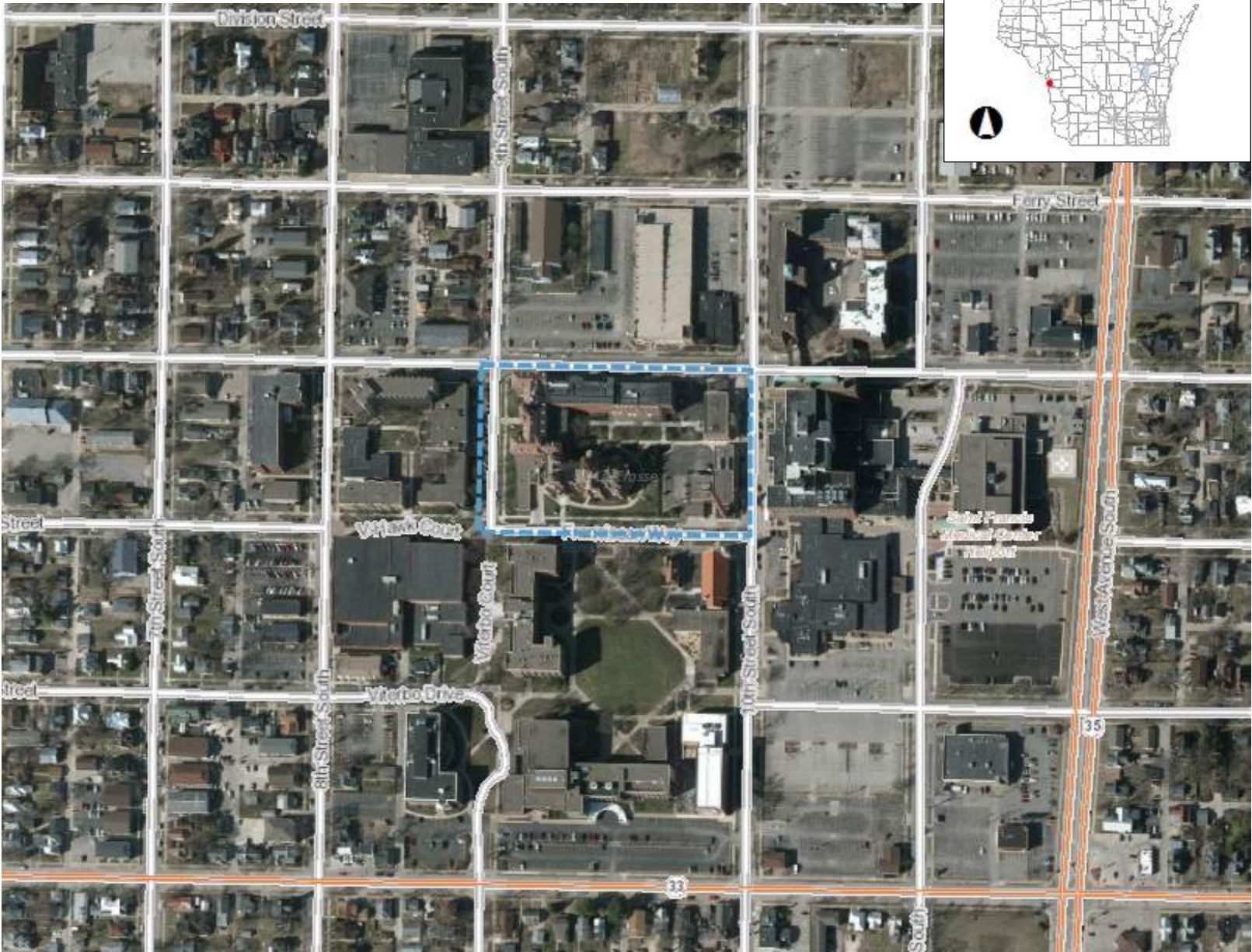
1: 1,980

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/legal/>

Notes



Designated Waters Map



Legend

- PNW-ASNRI Sensitive Areas of Lakes
- PNW-ASNRI Wild and Scenic Rivers
- PNW-ASNRI Outstanding and Exceptional Streams
- PNW-ASNRI Trout Streams
- PNW-ASNRI Wild Rice Streams
- PNW-ASNRI Outstanding and Exceptional Lakes
- PNW-ASNRI Special Area Management Plan Streams
- PNW-ASNRI Special Wetlands Inventory Study Streams
- PNW-ASNRI Coastal Wisconsin Wetlands Streams
- PNW-ASNRI Special Area Management Plan Areas
- PNW-ASNRI Special Wetlands Inventory Study Areas
- PNW-ASNRI Coastal Wisconsin Wetlands Areas
- PNW-ASNRI Wild Rice Areas
- PNW-ASNRI Trout Spring Ponds
- PNW-ASNRI State Natural Areas
- PNW-PRF Other Public Rights Features
- PNW Musky Streams
- PNW Sturgeon Streams
- PNW Musky Areas
- PNW Sturgeon Areas
- PNW Walleye Areas

Notes

0.1 0 0.06 0.1 Miles

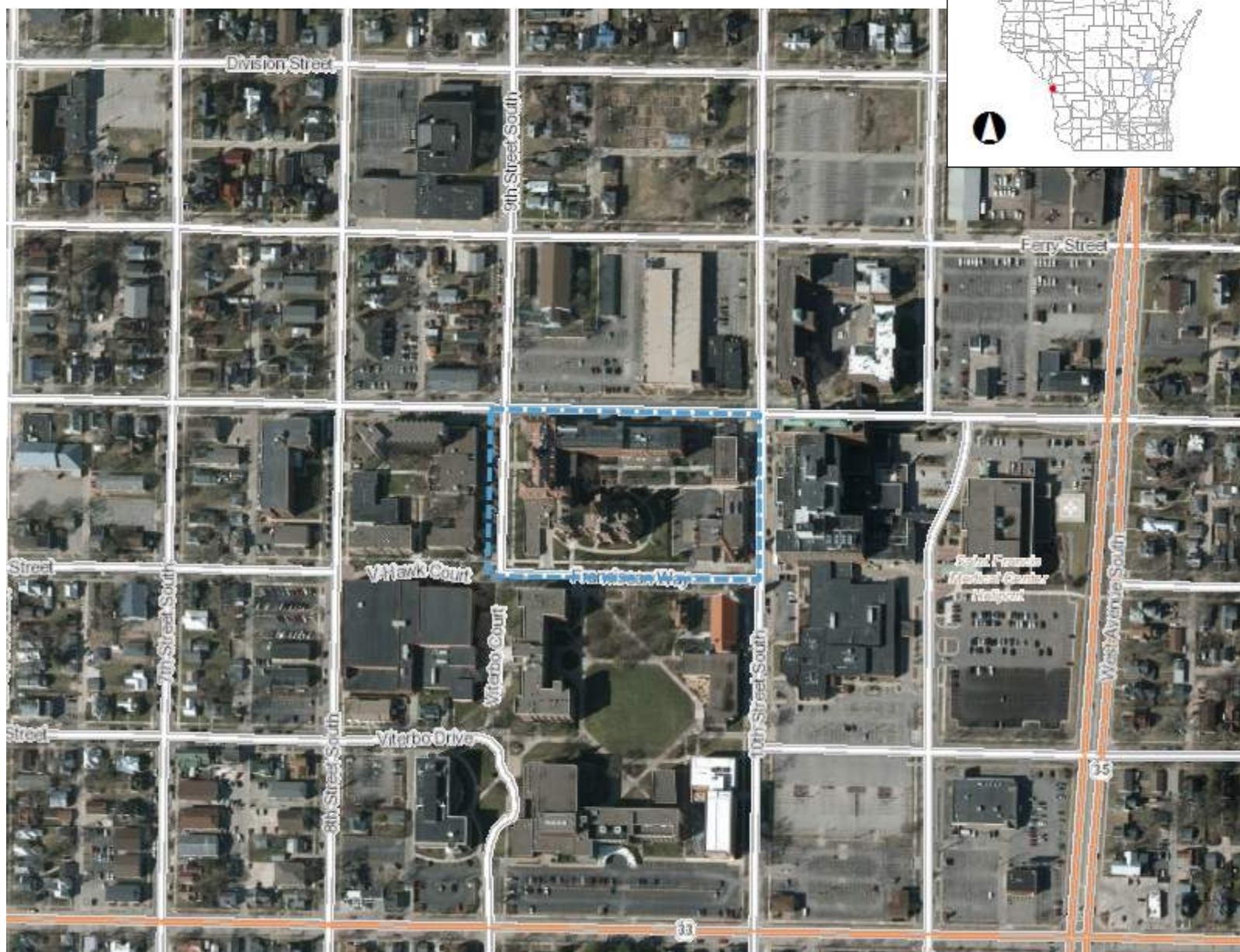
NAD_1983_HARN_Wisconsin_TM

1: 3,960

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Wetland & Wetland Indicators Map



Legend

- PNW-ASNRI Sensitive Areas of Lakes
- PNW-ASNRI Wild and Scenic Rivers
- PNW-ASNRI Outstanding and Exceptional Streams
- PNW-ASNRI Trout Streams
- PNW-ASNRI Wild Rice Streams
- PNW-ASNRI Outstanding and Exceptional Lakes
- PNW-ASNRI Special Area Management Plan Streams
- PNW-ASNRI Special Wetlands Inventory Study Streams
- PNW-ASNRI Coastal Wisconsin Wetlands Streams
- PNW-ASNRI Special Area Management Plan Areas
- PNW-ASNRI Special Wetlands Inventory Study Areas
- PNW-ASNRI Coastal Wisconsin Wetlands Areas
- PNW-ASNRI Wild Rice Areas
- PNW-ASNRI Trout Spring Ponds
- PNW-ASNRI State Natural Areas
- PNW-PRF Other Public Rights Features
- PNW Musky Streams
- PNW Sturgeon Streams
- PNW Musky Areas
- PNW Sturgeon Areas
- PNW Walleye Areas

Notes

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

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Site Pictures



Photo 1 – Looking south towards northern parking lot.



Photo 2 – Looking northwest towards northern parking lot.



Photo 3 – Stairs to be removed and replace with ADA ramp off of Market Street.



Photo 4 – Looking southwest towards southern parking lot.



Photo 5 – Looking west towards existing greenspace.



Photo 6 – Looking west towards stairs to be replaced in building addition.



Photo 7 – Looking west along the east-west leg of Franciscan Way.

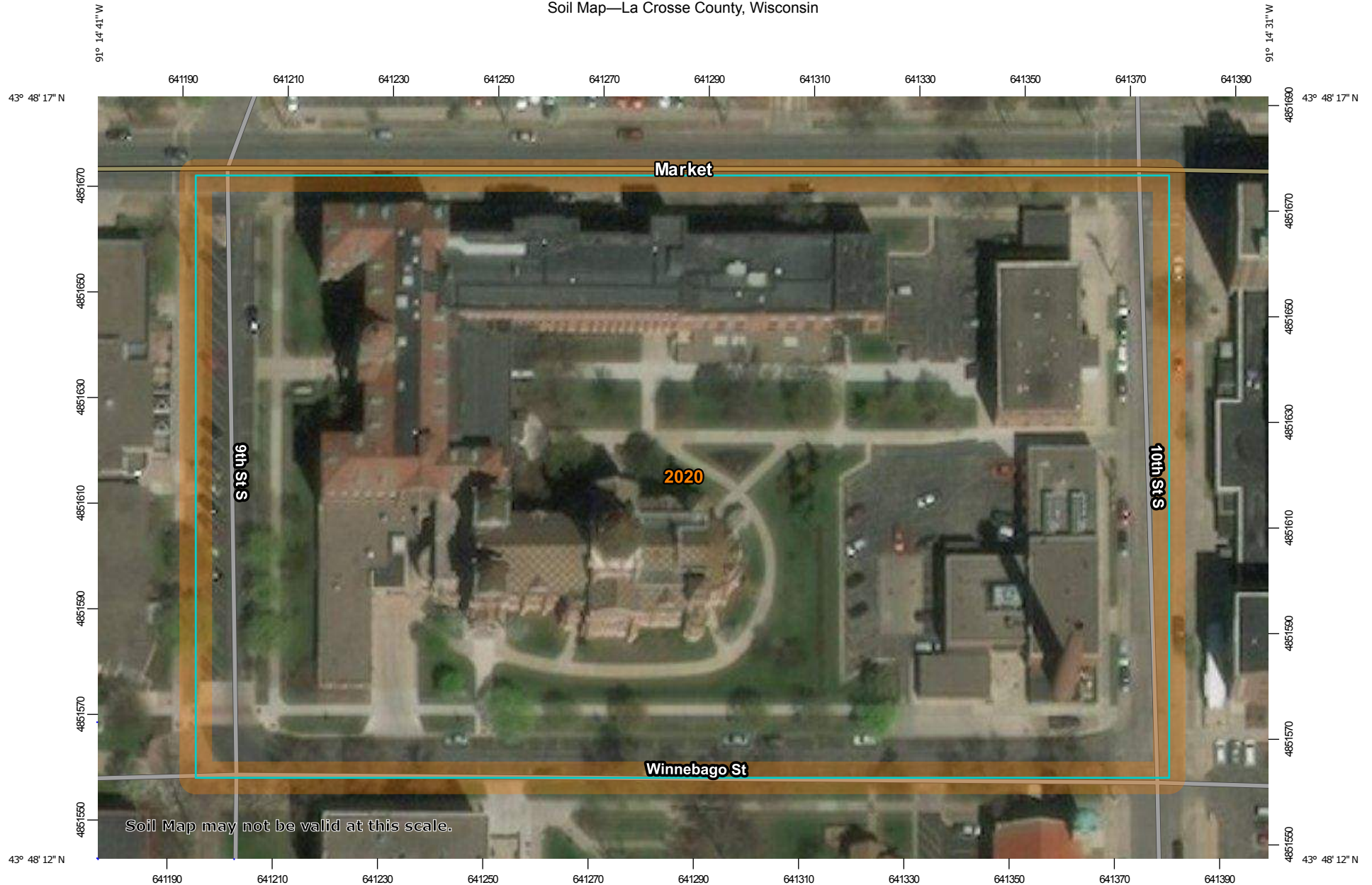


Photo 8 – Looking southeast towards entrance off of north-south leg of Franciscan Way.

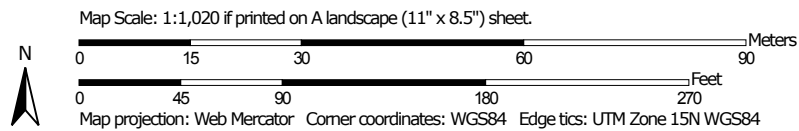
3. SOIL INFORMATION

- A. NCSS Soil Map
- B. Urban Land, Valley Trains
- C. Depth to Water Table

Soil Map—La Crosse County, Wisconsin



Soil Map may not be valid at this scale.



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

2/5/2019
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils



Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: La Crosse County, Wisconsin

Survey Area Data: Version 17, Sep 11, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 15, 2012—Nov 28, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2020	Urban land, valley trains	5.2	100.0%
Totals for Area of Interest		5.2	100.0%

La Crosse County, Wisconsin

2020—Urban land, valley trains

Map Unit Composition

Urban land, valley train: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Minor Components

Finchford

Percent of map unit: 5 percent

Landform: Valley trains, valley trains

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Chelsea

Percent of map unit: 5 percent

Landform: Dunes on valley trains

Down-slope shape: Convex

Across-slope shape: Convex

Hydric soil rating: No

Rasset

Percent of map unit: 5 percent

Landform: Valley trains

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Data Source Information

Soil Survey Area: La Crosse County, Wisconsin

Survey Area Data: Version 17, Sep 11, 2018

Depth to Water Table—La Crosse County, Wisconsin



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

	0 - 25
	25 - 50
	50 - 100
	100 - 150
	150 - 200
	> 200
	Not rated or not available

Soil Rating Lines

	0 - 25
	25 - 50
	50 - 100
	100 - 150
	150 - 200
	> 200
	Not rated or not available

Soil Rating Points

	0 - 25
	25 - 50
	50 - 100
	100 - 150
	150 - 200
	> 200

 Not rated or not available

Water Features

 Streams and Canals

Transportation

	Rails
	Interstate Highways
	US Routes
	Major Roads
	Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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Survey Area Data: Version 17, Sep 11, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 15, 2012—Nov 28, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
2020	Urban land, valley trains	>200	5.1	100.0%
Totals for Area of Interest			5.1	100.0%

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

4. STORM SEWER DESIGN CALCULATIONS

- A. Pipe Sizing Summary
- B. Pipe Invert Calculations

STORM SEWER DESIGN SUMMARY

PROJECT: Franciscan Sisters of Perpetual Adoration Renovations & Additions
CLIENT: Franciscan Sisters of Perpetual Adoration
PROJECT #: 18.084
DATE: March 21, 2019

**PIPE FLOWS & SIZING USING HYDROCAD RUNOFF**

Pipe I.D.	Tributary Basins (or Subareas)	TR-55 Flow in Pipe (cfs)	TR-55 Flow in Pipe (gpm)	Pipe Slope (percent)	Calculated Size (inches)	Summary of Size (inches)	Comments
A	1+T1A+T1B+T1C+T1D+Elevator Sump	1.55	695.64	1.00	8.78	12	
B	Storm - SW	0.07	30.00	0.50	3.07	6	
C	Storm - SW	0.07	30.00	0.50	3.07	6	
D	Storm - Elevator Sump E	0.05	22.00	0.30	3.01	4	

10-YR FLOWS - TR-55

Drainage Basins (or Subareas)	TR-55 Flow Q10 (cfs) (HydroCAD)
1	0.67
T1A	0.00
T1B	0.00
T1C	0.00
T1D	0.77
Elevator Sump - NW	0.11
Storm - SW	0.07
Storm - Elevator Sump E	0.05
TOTAL	1.67

PROJECT:

CLIENT:

PROJECT #:

DATE:

Franciscan Sisters of Perpetual Adoration Renovations & Additions
Franciscan Sisters of Perpetual Adoration
18.084
3/21/2019

= manhole or "T" where three or more pipes connect.
= match invert, not crown

System 1 - Northwest Storm

Inlet No.	Rim	Dn Stream MH Invert	Upstream MH Invert	Manhole Depth [ft]
Pipe ID	Length [ft]	Slope [%]	Calc Size	Summary of Size
ST IN 1	670.24	666.41	667.24	6.38
A	85	1.00	8.78	12

System 2 - Southwest Storm

ST IN 2	671.70	666.26	666.42	5.44
B	92	0.50	3.07	6
ST IN 3	671.70	665.80	665.80	5.90
C	28	0.50	3.07	6
EX ST IN	669.91		665.66	4.25

System 3 - East Storm

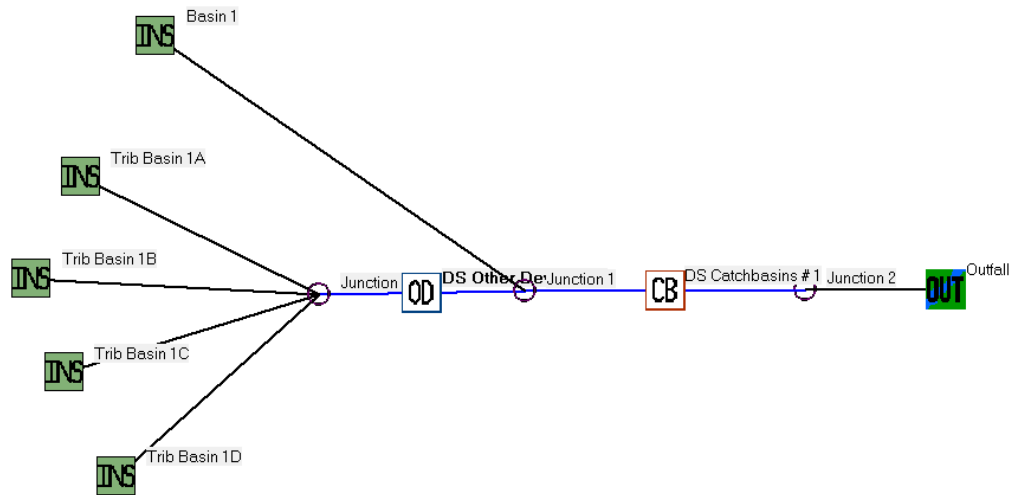
RD			669.81	
D	5	0.30	3.01	4
TEE - 8" Storm		669.80		

5. TOTAL SUSPENDED SOLIDS

- A. WinSLAMM Diagram
- B. Input Report
- C. Output Report

WinSLAMM SCHEMATIC DIAGRAM

Franciscan Sisters of Perpetual Adoration
Redevelopment Project
RHR No. 18.084



18.084_FSPA_2019.03.21 - InputData.txt

Data file name: I:\2018 Projects\18.084 FSPA\DESIGN\PERMITS\STORMWATER\winSLAMM\18.084_FSPA_2019.03.21.mdb
WinSLAMM Version 10.3.4

Rain file name: C:\winSLAMM Files\Rain Files\wisReg - Minneapolis MN 1959.RAN

Particulate Solids Concentration file name: C:\winSLAMM Files\v10.1 WI_AVG01.pscx

Runoff Coefficient file name: C:\winSLAMM Files\WI_SL06 Dec06.rsvx

Residential Street Delivery file name: C:\winSLAMM Files\WI_Res and Other Urban Dec06.std

Institutional Street Delivery file name: C:\winSLAMM Files\WI_Com Inst Indust Dec06.std

Commercial Street Delivery file name: C:\winSLAMM Files\WI_Com Inst Indust Dec06.std

Industrial Street Delivery file name: C:\winSLAMM Files\WI_Com Inst Indust Dec06.std

Other Urban Street Delivery file name: C:\winSLAMM Files\WI_Res and Other Urban Dec06.std

Freeway Street Delivery file name: C:\winSLAMM Files\Freeway Dec06.std

Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False

Pollutant Relative Concentration file name: C:\winSLAMM Files\WI_GEO03.ppdX

Source Area PSD and Peak to Average Flow Ratio File: C:\winSLAMM Files\NURP Source Area PSD Files.csv

Cost Data file name:

Seed for random number generator: -42

Study period starting date: 01/02/59

Study period ending date: 12/28/59

Start of Winter Season: 11/04

End of Winter Season: 03/13

Date: 03-21-2019

Time: 10:18:48

Site information:

LU# 1 - Institutional: Basin 1 Total area (ac): 0.209

25 - Driveways 1: 0.107 ac. Connected Source Area PSD File: C:\winSLAMM Files\NURP.cpz

31 - Sidewalks 1: 0.022 ac. Connected Source Area PSD File: C:\winSLAMM Files\NURP.cpz

45 - Large Landscaped Areas 1: 0.080 ac. Normal Sandy Source Area PSD File: C:\winSLAMM Files\NURP.cpz

LU# 2 - Institutional: Trib Basin 1A Total area (ac): 0.011

45 - Large Landscaped Areas 1: 0.011 ac. Normal Sandy Source Area PSD File: C:\winSLAMM Files\NURP.cpz

LU# 3 - Institutional: Trib Basin 1B Total area (ac): 0.004

45 - Large Landscaped Areas 1: 0.004 ac. Normal Sandy Source Area PSD File: C:\winSLAMM Files\NURP.cpz

LU# 4 - Institutional: Trib Basin 1C Total area (ac): 0.011

45 - Large Landscaped Areas 1: 0.011 ac. Normal Sandy Source Area PSD File: C:\winSLAMM Files\NURP.cpz

LU# 5 - Institutional: Trib Basin 1D Total area (ac): 0.137

1 - Roofs 1: 0.137 ac. Pitched Disconnected Normal Sandy Source Area PSD File: C:\winSLAMM Files\NURP.cpz

Control Practice 1: Catchbasin Cleaning CP# 1 (DS) - DS Catchbasins # 1

1. Fraction of area served by catchbasins = 1.00
2. Number of catchbasins = 1
3. Average sump depth below catchbasin outlet invert (feet) = 3
4. Depth of sediment in catchbasin sump at beginning of study period (ft) = 0
5. Typical outlet pipe diameter (ft) = 1
6. Typical outlet pipe Mannings n = 0.013
7. Typical outlet pipe slope (ft/ft) = 0.05
8. Typical catchbasin sump surface area (square feet) = 12.6
9. Total catchbasin depth (feet) = 6.8
10. Inflow hydrograph peak to average flow ratio = 3.8
11. Leakage rate through sump bottom (in/hr) = 0
12. Catchbasin Critical Particle Size File Name: Not needed - calculated by program
13. Catchbasin cleaning frequency: Three times per year

Control Practice 2: Other Device CP# 1 (DS) - DS Other Device # 1

Fraction of drainage area served by device (ac) = 1.00
Particulate Concentration reduction fraction = 1.00
Filterable Concentration reduction fraction = 0.00
Runoff volume reduction fraction = 0

18.084_FSPA_2019.03.21 - Output Summary.txt

SLAMM for windows Version 10.3.4

(C) Copyright Robert Pitt and John Voorhees 2012

All Rights Reserved

Data file name: I:\2018 Projects\18.084 FSPA\DESIGN\PERMITS\STORMWATER\WinSLAMM\18.084_FSPA_2019.03.21.mdb

Data file description:

Rain file name: C:\WinSLAMM Files\Rain Files\wisReg - Minneapolis MN 1959.RAN

Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx

Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx

Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std

Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdX

Start of Winter Season: 11/04 End of Winter Season: 03/13

Model Run Start Date: 01/02/59 Model Run End Date: 12/28/59

Date of run: 03-21-2019 Time of run: 10:18:32

Total Area Modeled (acres): 0.372

Years in Model Run: 0.99

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls:	8195	-	139.0	71.10	-
Outfall Total with Controls:	8194	0.01%	94.78	48.48	31.81%
Annualized Total After Outfall Controls:	8308			49.16	

6. EROSION CONTROL SEQUENCING

CONSTRUCTION EROSION CONTROL SEQUENCE

CONSTRUCTION ACTIVITY	SCHEDULED CONTROL MEASURES
1. CONSTRUCTION ACCESS - CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, AND EQUIPMENT PARKING AREAS.	FIRST LAND DISTURBING ACTIVITY - TRACKING PAD WILL BE CONSTRUCTED AT THE ENTRANCE(S) TO THE SITE. BARE AREAS USED FOR CONSTRUCTION STAGING/PARKING WILL BE STABILIZED WITH GRAVEL AS CONSTRUCTION TAKES PLACE. MINIMUM WEEKLY STREET SWEEPING REQUIRED OR MORE OFTEN AS NEEDED.
2. SEDIMENT BARRIERS - SILT FENCE, SILT FENCE OUTLETS, INLET AND OUTLET PROTECTION.	INSTALL SILT FENCE AND SILT FENCE OUTLETS AT LOCATIONS INDICATED ON THE PLANS. INSTALL INLET PROTECTION UNITS IN EXISTING INLETS IMMEDIATELY AFTER PROJECT SITE IS ACCESSED.
4. RUNOFF CONTROL - EXCAVATE STORM WATER TREATMENT FEATURES. IF NECESSARY CONSTRUCT SWALES AND DIKES TO DIVERT WATER TO FEATURES.	INSTALL EROSION MAT, POLYMER BLOCKS AND ADDITIONAL PRACTICES AS NECESSARY DURING GRADING. ESTABLISH AREAS FOR PREVENTING THE TRANSPORT OF CHEMICALS, CEMENT, AND OUT BUILDING COMPOUNDS INCLUDING WASH WATER FROM VEHICLES SUCH AS CONCRETE TRUCKS. BASIN SHALL BE EXCAVATED.
5. RUNOFF CONVEYANCE SYSTEM - CONSTRUCT STORM SEWER SYSTEM.	INSTALL STORMWATER SYSTEM WITH RUNOFF CONTROL MEASURES. STABILIZE STORM DRAINS, INSTALL INLET AND OUTLET PROTECTION AS EARLY AS POSSIBLE.
6. LAND CLEARING AND GRADING - SITE PREPARATION, CUTTING, FILLING, GRADING AND TOPSOIL STOCKPILES.	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL EROSION CONTROL PRACTICES HAVE BEEN INSTALLED. CLEAR AND GRADE ONLY AS NEEDED. INSTALL ADDITIONAL MEASURES AS NECESSARY SUCH AS SILT FENCE OR SPRAYED POLYMER AROUND STOCKPILES. AREAS WITHIN 30 FEET OF STATE WATER BODIES WILL BE STABILIZED WITH EROSION MATS. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
7. SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, AND RIPRAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
9. LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	LAST CONSTRUCTION PHASE - STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS WITH TURF OR PAVEMENT. REMOVE AND STABILIZE ALL TEMPORARY PRACTICES.
10. WINTER STABILIZATION - IN THE EVENT THE PROJECT IS NOT COMPLETED BEFORE NOVEMBER 20 19	APPLY SPRAYED POLYMER AROUND STOCKPILES AND OPEN AREAS NOT YET STABILIZED. MONITOR PER SUPPLIER RECOMMENDATIONS. SEEDING - PERMANENT SEEDING IF DONE BEFORE SEPTEMBER 15; TEMPORARY SEEDING THEN RESEED IF DONE BETWEEN SEPTEMBER 15 AND OCTOBER 15; DORMANT SEED AFTER OCTOBER 15.

7. CONSTRUCTION SITE SOIL LOSS & SEDIMENT DISCHARGE

- A. Soil Loss & Sediment Discharge Calculation Tool Worksheet
- B. Site Grading Plan with Representative Worst Case Slope Location



Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin

WDNR Version 2.0 (06-29-2017)



YEAR 1

Developer: Franciscan Sisters of Perpetual Adoration

Project: Redevelopment Project

Date: 03/21/19

County: La Crosse

Version 1.0

Activity (1)	Begin Date (2)	End Date (3)	Period % R (4)	Annual R Factor (5)	Sub Soil Texture (6)	Soil Erodibility K Factor (7)	Slope (%) (8)	Slope Length (ft) (9)	LS Factor (10)	Land Cover C Factor (11)	Soil loss A (tons/acre) (12)	SDF (13)	Sediment Control Practice (14)	Sediment Discharge (t/ac) (15)
Bare Ground	04/15/19	05/27/19	12.2%	160	Loamy Sand	0.17	15.3%	18	1.14	1.00	3.8	0.644	Silt Fence	1.5
Seed with Mulch or E	05/27/19	04/13/20	87.6%	160	Loamy Sand	0.17	15.3%	18	1.14	0.10	2.7	0.644	Silt Fence	1.1
End	04/13/20	-----	-----	-----	-----	-----	15.3%	18	1.14	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
TOTAL											6.5		TOTAL	2.5
													% Reduction Required	NONE

Notes:

See Help Page for further descriptions of variables and items in drop-down boxes.

The last land disturbing activity on each sheet must be 'End'. This is either 12 months from the start of construction or final stabilization.

For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW. MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

Recommended Permanent Seeding Dates:

4/15-6/1 and 8/1-8/21 Turf, introduced grasses and legumes
Thaw-6/30 Native Grasses, forbs, and legumes

Designed By:	Trisha Conro
Date	3/20/2019



Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin

WDNR Version 2.0 (06-29-2017)



YEAR 2

Developer: Franciscan Sisters of Perpetual Adoration

Project: Redevelopment Project

Date: 3/21/2019

County: La Crosse

Version 1.0

Activity (1)	Begin Date (2)	End Date (3)	Period % R (4)	Annual R Factor (5)	Sub Soil Texture (6)	Soil Erodibility K Factor (7)	Slope (%) (8)	Slope Length (ft) (9)	LS Factor (10)	Land Cover C Factor (11)	Soil loss A (tons/acre) (12)	SDF (13)	Sediment Control Practice (14)	Sediment Discharge (t/ac) (15)
Bare Ground	04/13/20	05/18/20	9.6%	160	Loamy Sand	0.17	15.3%	18	1.14	1.00	3.0	0.644	Silt Fence	1.1
Seed with Mulch or E	05/18/20	08/03/20	49.5%	160	Loamy Sand	0.17	15.3%	18	1.14	0.10	1.5	0.644	Silt Fence	0.6
Bare Ground	08/03/20	09/14/20	22.1%	160	Loamy Sand	0.17	15.3%	18	1.14	1.00	6.9	0.644	Silt Fence	2.6
Seed with Mulch or E	09/14/20	04/11/21	18.6%	160	Loamy Sand	0.17	15.3%	18	1.14	0.10	0.6	0.644	Silt Fence	0.2
End	04/11/21	-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
TOTAL											11.9		TOTAL	4.6
													% Reduction Required	NONE

Notes:

See Help Page for further descriptions of variables and items in drop-down boxes.

The last land disturbing activity on each sheet must be 'End'. This is either 12 months from the start of construction or final stabilization.

For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW. MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

Recommended Permanent Seeding Dates:

4/15-6/1 and 8/1-8/21 Turf, introduced grasses and legumes
Thaw-6/30 Native Grasses, forbs, and legumes

Designed By:	Trisha Conro
Date	3/20/2019



Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin

WDNR Version 2.0 (06-29-2017)



YEAR 2

Developer: Franciscan Sisters of Perpetual Adoration

Project: Redevelopment Project

Date: 3/21/2019

County: La Crosse

Version 1.0

Activity (1)	Begin Date (2)	End Date (3)	Period % R (4)	Annual R Factor (5)	Sub Soil Texture (6)	Soil Erodibility K Factor (7)	Slope (%) (8)	Slope Length (ft) (9)	LS Factor (10)	Land Cover C Factor (11)	Soil loss A (tons/acre) (12)	SDF (13)	Sediment Control Practice (14)	Sediment Discharge (t/ac) (15)
Bare Ground	04/12/21	05/23/21	11.5%	160	Loamy Sand	0.17	15.3%	18	1.14	1.00	3.6	0.644	Silt Fence	1.4
Seed with Mulch or E	05/23/21	09/20/21	71.3%	160	Loamy Sand	0.17	15.3%	18	1.14	0.10	2.2	0.644	Silt Fence	0.9
End	09/20/21	-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	0.0%	0	-----	-----	-----	0.000		0.0
TOTAL											5.8		TOTAL	2.2
													% Reduction Required	NONE

Notes:

See Help Page for further descriptions of variables and items in drop-down boxes.

The last land disturbing activity on each sheet must be 'End'. This is either 12 months from the start of construction or final stabilization.

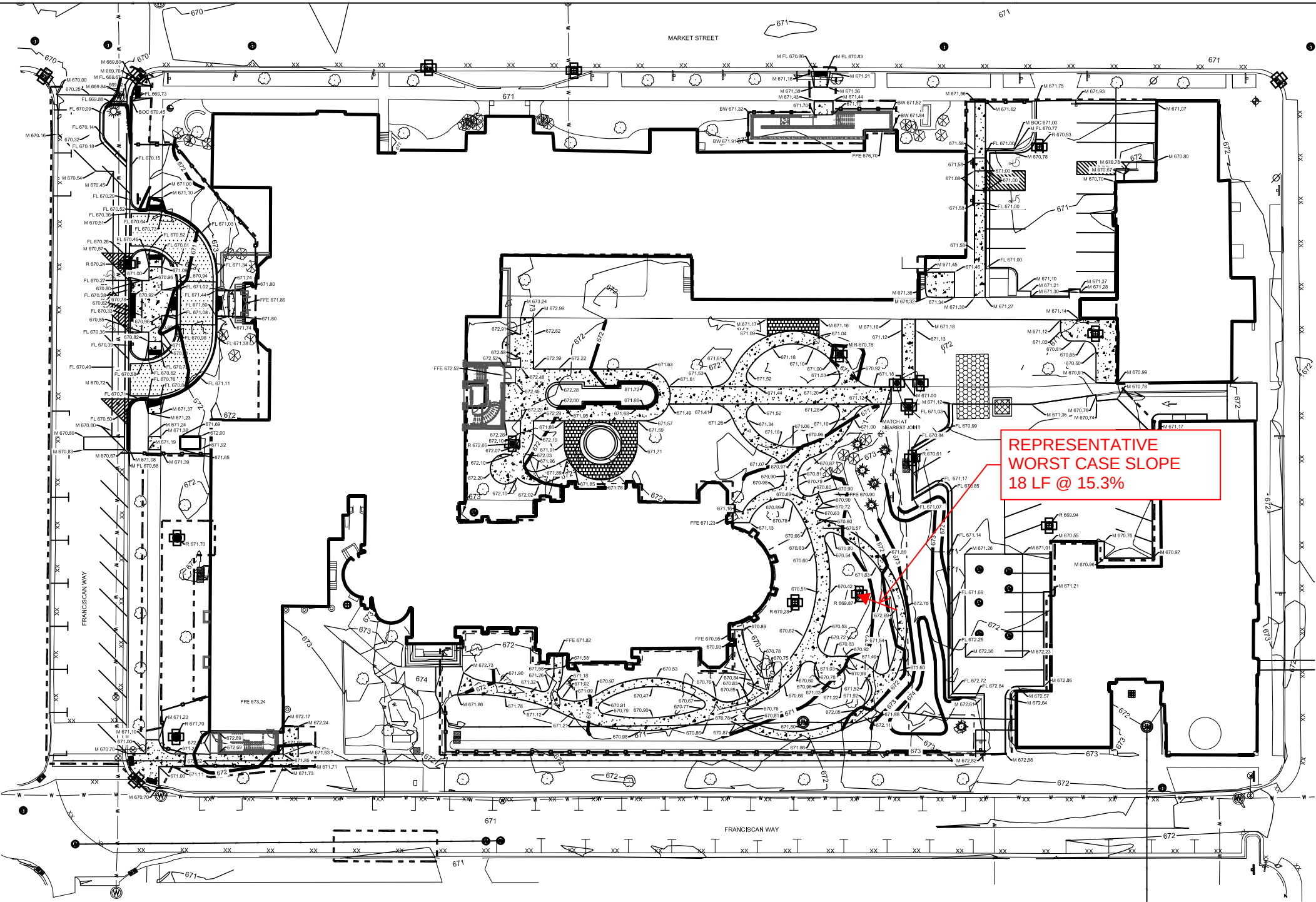
For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW. MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

Recommended Permanent Seeding Dates:

4/15-6/1 and 8/1-8/21 Turf, introduced grasses and legumes
Thaw-6/30 Native Grasses, forbs, and legumes

Designed By:	Trisha Conro
Date	3/20/2019



GENERAL NOTES

- GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE PROJECT MANAGER.
- SEED / FERTILIZE / AND CRIMP MULCH OR SOD ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION IN ACCORDANCE WITH THE LANDSCAPE PLAN.
- ALL EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF GRASS IS ESTABLISHED IN ALL GENERAL LANDSCAPE AREAS, AND THEN REMOVED BY THE SITE CONTRACTOR.
- ALL WASTE AND UNUSED BUILDING MATERIALS SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY STORMWATER RUNOFF OR WIND.
- ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. FLUSHING SHALL NOT BE ALLOWED.
- THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT EROSION CONTROL INSPECTOR AT LEAST 2 DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
- ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
- ALL SEDIMENT LADEN WATER PUMPED FROM THE SITE SHALL BE TREATED BY A TEMPORARY SEDIMENT BASIN OR BE FILTERED BY OTHER APPROVED MEANS. WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS.
- DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREA, INCLUDING SOIL STOCKPILES LEFT INACTIVE FOR MORE THAN 10 DAYS, SHALL AT A MINIMUM BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER METHODS APPROVED BY THE LOCAL GOVERNING AUTHORITY'S EROSION CONTROL INSPECTOR.
- IN THE CASE OF LATE SEASON AND WINTER CONSTRUCTION, RESTORATION/LANDSCAPING OF THE SITE SHALL OCCUR NO LATER THAN JUNE 1ST OF THE NEXT CONSTRUCTION SEASON. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. FABRIC INSIDE THE INLET AND CATCH BASIN GRATE SHALL BE REMOVED AS SOON AS FREEZING WEATHER OCCURS SO DRAINAGE IS NOT IMPAIRED THROUGHOUT THE WINTER MONTHS. ALL EROSION CONTROL PRACTICES REMOVED OR DAMAGED DUE TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE GROUND THAWS.
- EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF THE WORK DAY.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION AFTER STABILIZATION OF DISTURBED SOIL HAS OCCURRED.
- GEOTEXTILE FILTER FABRIC USED AS A SEDIMENT BARRIER IN STORM DRAIN INLETS AND CATCH BASINS SHALL BE GTF 403 AS MANUFACTURED BY LINO INDUSTRIAL FABRICS, OR FILTERWEAVE 401, AS MANUFACTURED BY TO MIRAFI. FABRIC SHALL BE PLACED UNDER THE GRATE, WITH A MINIMUM OF 8 INCHES OF FABRIC EXTENDING BEYOND THE GRATING TO PROVIDE A HAND HOLD WHEN REMOVING. SILT FENCE MATERIAL IS NOT APPROVED FOR USE IN INLETS AS FLOW RATES ARE INSUFFICIENT AND EXCESSIVE PONDING/FLOODING MAY OCCUR. FABRIC SHALL NOT BE RIPPED OR CUT TO PREVENT PONDING. IF FABRIC IS RIPPED IT SHALL BE REPLACED IMMEDIATELY. ALTERNATE PROTECTION SHALL BE USED IF PONDING MAY CAUSE DAMAGE TO ADJACENT BUILDINGS AND/OR PROPERTIES.
- EROSION CONTROL SHALL IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE. THE PROPERTY OWNER OR HIS REPRESENTATIVE IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED AND SUBMITTED TO THE LOCAL GOVERNING AUTHORITY'S PROJECT INSPECTOR.

CONSTRUCTION EROSION CONTROL SEQUENCE

CONSTRUCTION ACTIVITY	APPROX. DATE	SCHEDULED CONTROL MEASURES
1. CONSTRUCTION ACCESS - CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, AND EQUIPMENT PARKING AREAS.		FIRST LAND DISTURBING ACTIVITY - TRACKING PAD WILL BE CONSTRUCTED AT THE ENTRANCE(S) TO THE SITE. BARE AREAS USED FOR CONSTRUCTION STAGING/PARKING WILL BE STABILIZED WITH GRAVEL AS CONSTRUCTION TAKES PLACE. MINIMUM WEEKLY STREET SWEEPING REQUIRED OR MORE OFTEN AS NEEDED.
2. SEDIMENT BARRIERS - SILT FENCE, SILT FENCE OUTLETS, INLET AND OUTLET PROTECTION.		INSTALL SILT FENCE AND SILT FENCE OUTLETS AT LOCATIONS INDICATED ON THE PLANS. INSTALL INLET PROTECTION UNITS IN EXISTING INLETS IMMEDIATELY AFTER PROJECT SITE IS ACCESSED.
4. RUNOFF CONTROL - EXCAVATE STORM WATER TREATMENT FEATURES, IF NECESSARY CONSTRUCT SWALES AND DIKES TO DIVERT WATER TO FEATURES.		INSTALL EROSION MAT, POLYMER BLOCKS AND ADDITIONAL PRACTICES AS NECESSARY DURING GRADING. ESTABLISH AREAS FOR PREVENTING THE TRANSPORT OF CHEMICALS, CEMENT, AND OIL BUILDING COMPOUNDS INCLUDING WASH WATER FROM VEHICLES SUCH AS CONCRETE TRUCKS. BASIN SHALL BE EXCAVATED.
5. RUNOFF CONVEYANCE SYSTEM - CONSTRUCT STORM SEWER SYSTEM.		INSTALL STORMWATER SYSTEM WITH RUNOFF CONTROL MEASURES. STABILIZE STORM DRAINS, INSTALL INLET AND OUTLET PROTECTION AS EARLY AS POSSIBLE.
6. LAND CLEARING AND GRADING - SITE PREPARATION, CUTTING, FILLING, GRADING AND TOPSOIL STOCKPILES.		BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL EROSION CONTROL PRACTICES HAVE BEEN INSTALLED. CLEAR AND GRADE ONLY AS NEEDED. INSTALL ADDITIONAL MEASURES AS NECESSARY SUCH AS SILT FENCE OR SPRAYED POLYMER AROUND STOCKPILES. AREAS WITHIN 30 FEET OF STATE WATER BODIES WILL BE STABILIZED WITH EROSION MATS. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
7. SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, AND RIPRAP.		APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
9. LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.		LAST CONSTRUCTION PHASE - STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS WITH TURF OR PAVEMENT. REMOVE AND STABILIZE ALL TEMPORARY PRACTICES.
10. WINTER STABILIZATION - IN THE EVENT THE PROJECT IS NOT COMPLETED BEFORE NOVEMBER 2019		APPLY SPRAYED POLYMER AROUND STOCKPILES AND OPEN AREAS NOT YET STABILIZED. MONITOR PER SUPPLIER RECOMMENDATIONS. SEEDING - PERMANENT SEEDING IF DONE BEFORE SEPTEMBER 15; TEMPORARY SEEDING THEN RESEED IF DONE BETWEEN SEPTEMBER 15 AND OCTOBER 15; DORMANT SEED AFTER OCTOBER 15.

EROSION CONTROL LEGEND

TYPE D INLET PROTECTION		1 C601
STONE TRACKING PAD		2 C601
CONCRETE TRUCK WASH AREA		3 C601
SILT FENCE		4 C601

GRADING LEGEND

PROPOSED CONTOURS		722
EXISTING CONTOURS		720
PROPOSED SPOT ELEVATION		725.00
PROPOSED FINISH FLOOR ELEVATION		FFE 725.00
PROPOSED RIM ELEVATION		R 725.00
PROPOSED TOP OF CURB ELEVATION		TC 725.00
PROPOSED CURB FLOW LINE ELEVATION		FL 725.00
PROPOSED INVERT ELEVATION		I 725.00
MATCH EXISTING GRADE		M 725.00
APPROXIMATE LIMITS OF CONSTRUCTION		
ALTERNATE BID 1		
EXISTING STORM SEWER MANHOLE		1
EXISTING STORM SEWER INLET		2

FSPA - RENOVATIONS AND ADDITIONS

FRANCISCAN SISTERS OF PERPETUAL ADORATION

912 Market St, La Crosse, WI 54601

CONSULTANT:

RETTLER
corporation

Hoffman
Planning, Design & Construction, Inc.
800.236.2370 | hoffman.net

SHEET TITLE:

Site Grading &
Erosion Control
Plan

SHEET NUMBER:

C400



8. EROSION CONTROL INSPECTION WORKSHEET

CONSTRUCTION SITE INSPECTION REPORT

Form 3400-187 (rev. 9/04)

Page 1 of 2

Notice: Use of this specific form is voluntary, but the information contained on this form must be collected and kept by the permittee under s. NR 216.48(4), Wis. Adm. Code, for a construction site covered under the General WPDES Construction Site Storm Water Discharge Permit, Permit No. WI-0067831-2. This form is provided for the convenience of the permittee to meet the requirements of s. NR 216.48(4), Wis. Adm. Code. Multiple copies of this form may be made to compile the inspection report.

Inspections of implemented erosion and sediment control best management practices must be performed weekly and within 24 hours after a precipitation event 0.5 inches or greater which results in runoff.

Weekly written reports of all inspections conducted by or for the permittee must be maintained throughout the period of general permit coverage.

The information maintained in accordance with s. NR 216.48 (4) must be submitted to the Department upon request.

Name of Permittee:				
Construction Site Name (Project):			Construction Site ID No.:	
Location:			County:	
Contractor:			Field Office Phone:	
Note: Weekly inspection reports, along with erosion control and stormwater management plans, are required to be maintained on site and made available upon request.				
Date of inspection (mm/dd/yy): _____			Type of inspection: ☐ Weekly ☐ Precipitation Event ☐ Other (specify) _____	
Time of inspection: Start: _____ a.m./p.m. End: _____ a.m./p.m.			Name(s) of individual(s) performing inspection:	
Weather:				
Description of present phase of construction:				
Modifications Required	Yes	No	Not Applicable	Comments/Recommendations about the overall effectiveness of the erosion and sediment control measures. Note: For each item checked "Yes", complete the follow-up information on page 2.
Ditch Checks	☐	☐	☐	
Erosion Control Plan	☐	☐	☐	
Erosion Mat	☐	☐	☐	
Grading Practices	☐	☐	☐	
Inlet Protection	☐	☐	☐	
Mulch	☐	☐	☐	
Offsite Sediment	☐	☐	☐	
Permanent Seeding	☐	☐	☐	
Schedule / Phasing	☐	☐	☐	
Silt Fence	☐	☐	☐	
Silt Screen	☐	☐	☐	
Sod	☐	☐	☐	
Stabilized Outlet	☐	☐	☐	
Temp. Diversion Channel	☐	☐	☐	
Temp. Settling Basin	☐	☐	☐	
Temporary Seeding	☐	☐	☐	
Tracking Pads	☐	☐	☐	
Turbidity Barrier	☐	☐	☐	
Other (specify) _____	☐	☐	☐	

CONSTRUCTION SITE INSPECTION REPORT

Form 3400-187 (rev. 9/04)

Page 2 of 2

Name of Permittee:

Construction Site Name (Project):

Construction Site ID No.:

Use the space below for detailed follow-up action items.

Exact place of erosion/sediment
control inspected

Type of erosion/sediment control and its
observed condition

Description of any necessary maintenance or repair
to erosion/sediment control, including anticipated
date of completion

9. NOTICE OF TERMINATION

**Notice of Termination – Storm Water Discharges Associated
With Land Disturbing Construction Activities General Permit**

Form 3400-162 (R 12/14)

Page 1 of 2

This Notice of Termination (NOT) form is authorized by s. 283.37, Wis. Stats. Submittal of a completed NOT to the Department is mandatory for any landowner of a construction site regulated under 40 CFR Part 122, Chapter 283, Wis. Stats., and Chapter NR 216, Wis. Adm. Code. Failure to submit a completed NOT to the Department after the construction site undergoes final stabilization may result in forfeitures up to \$10,000 per day, pursuant to s. 283.92 (2), Wis. Stats. Personally identifiable information on this NOT may be used for other water quality program purposes.

Submission of this NOT constitutes notice that the landowner identified in Section I, no longer intends to be authorized by a general WPDES permit to discharge storm water associated with land disturbing construction activities from the construction site identified in Section III of this NOT.

All necessary information must be provided on this NOT. Failure to complete this NOT correctly may result in rejection of this NOT by the Department. Please read all instructions before completing. Please type or clearly print your answer to all questions

Section I: Landowner Information

Business Name	Authorized Representative		
Mailing Address	City	State WI	ZIP Code
E-mail	Phone Number (area code)	Alternate Phone Number	

Section II: Contractor Information

Business Name	Contact Person		
Mailing Address	City	State WI	ZIP Code
E-mail	Phone Number (area code)	Alternate Phone Number	

Section III: Facility/Site Location Information

Site Name					
Location Address/Description				WDNR Site Number	
☐ City ☐ Township ☐ Village of				County	
PLSS Information	Township N	Range ☐ East ☐ West	Section	Quarter	Quarter-Quarter
☐ Attach photos of the current site conditions			Date photos were taken		

Section IV: Certification

I certify under penalty of law that disturbed soils at the identified site have undergone final stabilization and temporary erosion and sediment control measures have been removed or that all storm water discharges associated with construction activity that are authorized by a general WPDES storm water discharge permit have otherwise been eliminated. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge storm water associated with construction activity by the general WPDES permit, and that discharging pollutants in storm water associated with construction activity to waters of Wisconsin is unlawful where the discharge is not authorized by a WPDES permit.

NOTE: The person signing below must be a representative of the landowner as defined in s. NR 216.55 (4) Wis. Adm. Code. "Landowner" for purposes of this NOT is defined in s. NR 216.002 (13), Wis. Adm. Code. Failure to have this NOT properly signed will result in its rejection.

Signature of Landowner/Authorized Representative	Date Signed
Printed Name of Landowner/Authorized Representative	Title

Mail this completed NOT form to the appropriate Wisconsin Department of Natural Resources office in the region where the facility is located. See the instructions on page 2 of this form for regional office addresses.

Notice of Termination – Storm Water Discharges Associated With Land Disturbing Construction Activities General Permit

Form 3400-162 (R 12/14)

Page 2 of 2

Instructions

Section I: Landowner Information

Provide the legal name of the person, firm, public organization, or any other entity that owns the construction site described in Section III of this application and holds or qualifies for an applicable general or individual construction site storm water discharge permit. The mailing address and phone number given should be for the authorized representative.

Section II: Contractor Information

Provide the legal name of the person, firm, or any other entity that acted as the major contractor in charge or operating the construction site described in Section III of this application. The mailing address and phone number given should be for the contact person.

Section III: Construction Site Information

Enter the construction site's official or legal name and complete address, including county, city, state and zip code. Be sure to include the quarter-quarter, quarter, section, township and range (the nearest quarter section) of the site. If the site is on more than one quarter, enter the quarter that best describes the location of the site. Use additional space if needed to describe the site location. The WDNR Site Number can be found in the upper right corner of the original letter conferring coverage under the general permit from the WDNR.

Required: Attach photos of the current site conditions and provide the date the photos were taken.

Section IV: Certification

State Statutes provide for severe penalties for submitting false information on this NOT form. State regulations require this NOT to be signed as follows:

1. For a corporation, by a responsible corporate officer including president, secretary, treasurer, vice president, manager, or a duly authorized representative having overall responsibility for the operation covered by this permit.
2. For a unit of government, by a ranking elected official or other duly authorized representative.
3. For a partnership, by a general partner; and for a sole proprietorship, by the proprietor.
4. For a limited liability company, by a manager.

Sign the form and print the name of the individual signing the NOT and date of signature. If the form was prepared by a consultant or someone other than an employee of the site landowner, provide the name and address of the preparer.

If you need additional information about the NOT for construction activities, please contact the Department at (608) 267-7694.

Mailing Address

Unless otherwise directed, mail this completed NOT Form to the WDNR office associated with the county of the site location:

NORTHERN REGION (NOR)

Ashland	Douglas	Langlade	Rusk	WDNR Baldwin Service Center 890 Spruce Street Baldwin, WI 54002 715-684-2914 ext. 109
Barron	Florence	Lincoln	Sawyer	
Bayfield	Forest	Oneida	Taylor	
Burnett	Iron	Polk	Vilas	
		Price	Washburn	

NORTHEAST REGION (NER)

Brown	Green Lake	Marquette	Outagamie	WDNR Northeast Regional Headquarters 2984 Shawano Avenue Green Bay, WI 54313-6727 920-662-5100
Calumet	Kewaunee	Menominee	Shawano	
Door	Manitowoc	Oconto	Waupaca	
Fond du Lac	Marinette	Oneida Reservation	Wausara	
			Winnebago	

WEST CENTRAL REGION (WCR)

Adams	Crawford	La Crosse	Portage	WDNR Baldwin Service Center 890 Spruce Street Baldwin, WI 54002 715-684-2914 ext. 109
Buffalo	Dunn	Marathon	St. Croix	
Chippewa	Eau Claire	Monroe	Trempealeau	
Clark	Jackson	Pepin	Vernon	
	Juneau	Pierce	Wood	

SOUTH CENTRAL REGION (SCR)

Columbia	Grant	Jefferson	Rock	WDNR South Central Regional Headquarters 3911 Fish Hatchery Road Fitchburg, WI 53711 608-275-3266
Dane	Green	LaFayette	Sauk	
Dodge	Iowa	Richland		

SOUTHEAST REGION (SER)

Kenosha	Ozaukee	Sheboygan	Washington	WDNR Waukesha Service Center 141 N.W. Barstow Street, Room 180 Waukesha, WI 53188 262-574-2100
Milwaukee	Racine	Walworth	Waukesha	

10. LONG TERM MAINTENANCE AGREEMENT

**Franciscan Sisters of Perpetual Adoration
Redevelopment Project
Long-term Stormwater Management
Maintenance Provisions**

SITE NAME & STREET ADDRESS

*Franciscan Sisters of Perpetual Adoration
912 Market Street
La Crosse, WI 54601*

RESPONSIBLE PARTY

Franciscan Sisters of Perpetual Adoration is responsible for satisfying the provisions of this agreement.

PERMANENT COMPONENTS OF THE STORMWATER SYSTEM

The stormwater system consists of the following components:

The types of storm water controls in use are listed below:

+ (1) Storm Sewer Inlet

+ (2) Storm Sewer Structures

The locations of all permanent stormwater system components are shown in Exhibit A, attached.

INSPECTION AND MAINTENANCE

All components shall be inspected at least semiannually in early Spring and early Autumn. Repairs will be made whenever the performance of an inlet or structure is compromised or where erosion is observed. Maintain a minimum 2.5" of grass height in all grassed areas.

FERTILIZER & CHEMICAL APPLICATION

Applications of fertilizers, herbicides, pesticide or other chemical applications are prohibited in buffer areas, on pond banks and along drainage ways.

DUTY TO PROVIDE MAINTENANCE

It is the responsibility of Franciscan Sisters of Perpetual Adoration to maintain inspection and maintenance records, and to submit to the Wisconsin Department of Natural Resources when requested.

SIGNATURES

The undersigned agrees to the provision set forth in this agreement.

Franciscan Sisters of Perpetual Adoration

Legal name of Responsible Party

Susan M. Ernster FSA

Signature of Authorized Agent for Responsible Party

608-791-5284 sernster@fspa.org
Contact information (phone, email, etc.)

912 Market St. La Crosse, WI 54601
Street address, City, State, Zip Code

Treasurer / CEO
Title

3-18-17
Date

EXHIBIT A

