

URBAN DESIGN COMMISSION APPLICATION

UDC

City of Madison
Planning Division
126 S. Hamilton St.
P.O. Box 2985
Madison, WI 53701-2985
(608) 266-4635



FOR OFFICE USE ONLY:

Paid _____ Receipt # _____
Date received _____
Received by _____
Aldermanic District _____
Zoning District _____
Urban Design District _____
Submittal reviewed by _____

Complete all sections of this application, including the desired meeting date and the action requested.

If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the phone number above immediately.

1. Project Information

Address: 2402 West Broadway
Title: Kwik Trip #965

2. Application Type (check all that apply) and Requested Date

UDC meeting date requested November 7th 2018
 New development Alteration to an existing or previously-approved development
 Informational Initial approval Final approval

3. Project Type

Project in an Urban Design District
 Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
 Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
 Planned Development (PD)
 General Development Plan (GDP)
 Specific Implementation Plan (SIP)
 Planned Multi-Use Site or Residential Building Complex

Signage
 Comprehensive Design Review (CDR)
 Signage Variance (i.e. modification of signage height, area, and setback)

Other
 Please specify _____

4. Applicant, Agent, and Property Owner Information

Applicant name Bjorn Berg Company Kwik Trip
Street address 1626 Oak Street City/State/Zip La Crosse, WI 54602
Telephone 608-791-4343 Email bberg@kwiktrip.com

Project contact person Bjorn Berg Company Kwik Trip
Street address 1626 Oak Street City/State/Zip La Crosse, WI 54602
Telephone 608-791-4343 Email bberg@kwiktrip.com

Property owner (if not applicant) Kwik Trip Inc.
Street address 1626 Oak Street City/State/Zip La Crosse, WI 54602
Telephone 608-791-8988 Email kklug@kwiktrip.com

5. Required Submittal Materials

- Application Form**
- Letter of Intent**
 - If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required
 - For signage applications, a summary of how the proposed signage is consistent with the applicable CDR or Signage Variance review criteria is required.
- Development plans** (Refer to checklist provided below for plan details)
- Filing fee**
- Electronic Submittal***

Each submittal must include fourteen (14) 11" x 17" collated paper copies. Landscape and Lighting plans (if required) must be full-sized. Please refrain from using plastic covers or spiral binding.

Both the paper copies and electronic copies must be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

For projects also requiring Plan Commission approval, applicants must also have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (initial or final approval) from the UDC. All plans must be legible when reduced.

**Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to udcapplications@cityofmadison.com. The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.*

6. Applicant Declarations

1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with _____ on _____.
2. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Applicant name BORN BERG Relationship to property PROJECT MANAGER
 Authorized signature of Property Owner Jeffrey J. Wrobel, VP, CFO & Treasurer Date 10/16/18

7. Application Filing Fees

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer. Credit cards may be used for application fees of less than \$1,000.

Please consult the schedule below for the appropriate fee for your request:

- Urban Design Districts: \$350 (per §35.24(6) MGO).
- Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) : \$150 (per §33.24(6)(b) MGO)
- Comprehensive Design Review: \$500 (per §31.041(3)(d)(1)(a) MGO)
- Minor Alteration to a Comprehensive Sign Plan: \$100 (per §31.041(3)(d)(1)(c) MGO)
- All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for signage variances (i.e. modifications of signage height, area, and setback), and additional sign code approvals: \$300 (per §31.041(3)(d)(2) MGO)

A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:

- Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Residential Building Complex

Introduction

The City of Madison's Urban Design Commission (UDC) has been created to:

- Encourage and promote high quality in the design of new buildings, developments, remodeling, and additions so as to maintain and improve the established standards of property values within the City.
- Foster civic pride in the beauty and nobler assets of the City, and in all other ways possible assure a functionally efficient and visually attractive City in the future.

Types of Approvals

There are three types of requests considered by the UDC:

- Informational Presentation. Applicants may, at their discretion, request to make an Informational Presentation to the UDC prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design. Applicants should provide details on the context of the site, design concept, site and building plans, and other relevant information to help the UDC understand the proposal and provide feedback. (Does not apply to CDR's or Signage Variance requests)
- Initial Approval. Applicants may, at their discretion, request initial approval of a proposal by presenting preliminary design information. As part of their review, the Commission will provide feedback on the design information what should be addressed at Final Approval stage.
- Final Approval. Applicants may request Final Approval of a proposal by presenting all final project details. Recommendations or concerns expressed by the UDC in the initial approval must be addressed at this time.

Presentations to the Commission

Primarily, the UDC is interested in the appearance and design quality of projects. Emphasis should be given to the site plan, landscape plan, lighting plan, building elevations, exterior building materials, color scheme, and graphics.

When presenting projects to the UDC, applicants must fill out a registration slip provided in the meeting room and present it to the Secretary. Presentations should generally be limited to 5 minutes or as extended by motion by consent of the Commission. The Commission will withhold questions until the end of the presentation.

Applicants are encouraged to consider the use of various graphic presentation material including a locator map, photographs, renderings/model, scale drawings of the proposal in context with adjacent buildings/uses/signs, etc., as may be deemed appropriate to describe the project and its surroundings. Graphics should be mounted on rigid boards so that they may be easily displayed. **Applicants/presenters are responsible for all presentation materials, AV equipment and easels.**

URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

The items listed below are minimal application requirements for the type of approval indicated. Please note that the UDC and/or staff may require additional information in order to have a complete understanding of the project.

1. Informational Presentation

- Locator Map
- Letter of Intent (If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Site Plan
- Two-dimensional (2D) images of proposed buildings or structures.

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

Requirements for All Plan Sheets

1. Title block
2. Sheet number
3. North arrow
4. Scale, both written and graphic
5. Date
6. Fully dimensioned plans, scaled at 1"= 40' or larger

**** All plans must be legible, including the full-sized landscape and lighting plans (if required)**

2. Initial Approval

- Locator Map
- Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Site Plan showing location of existing and proposed buildings, walks, drives, bike lanes, bike parking, and existing trees over 18" diameter
- Landscape Plan and Plant List (*must be legible*)
- Building Elevations in both black & white and color for all building sides (include material callouts)
- PD text and Letter of Intent (if applicable)

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

3. Final Approval

All the requirements of the Initial Approval (see above), **plus:**

- Grading Plan
- Proposed Signage (if applicable)
- Lighting Plan, including fixture cut sheets and photometrics plan (*must be legible*)
- Utility/HVAC equipment location and screening details (with a rooftop plan if roof-mounted)
- PD text and Letter of Intent (if applicable)
- Samples of the exterior building materials (presented at the UDC meeting)

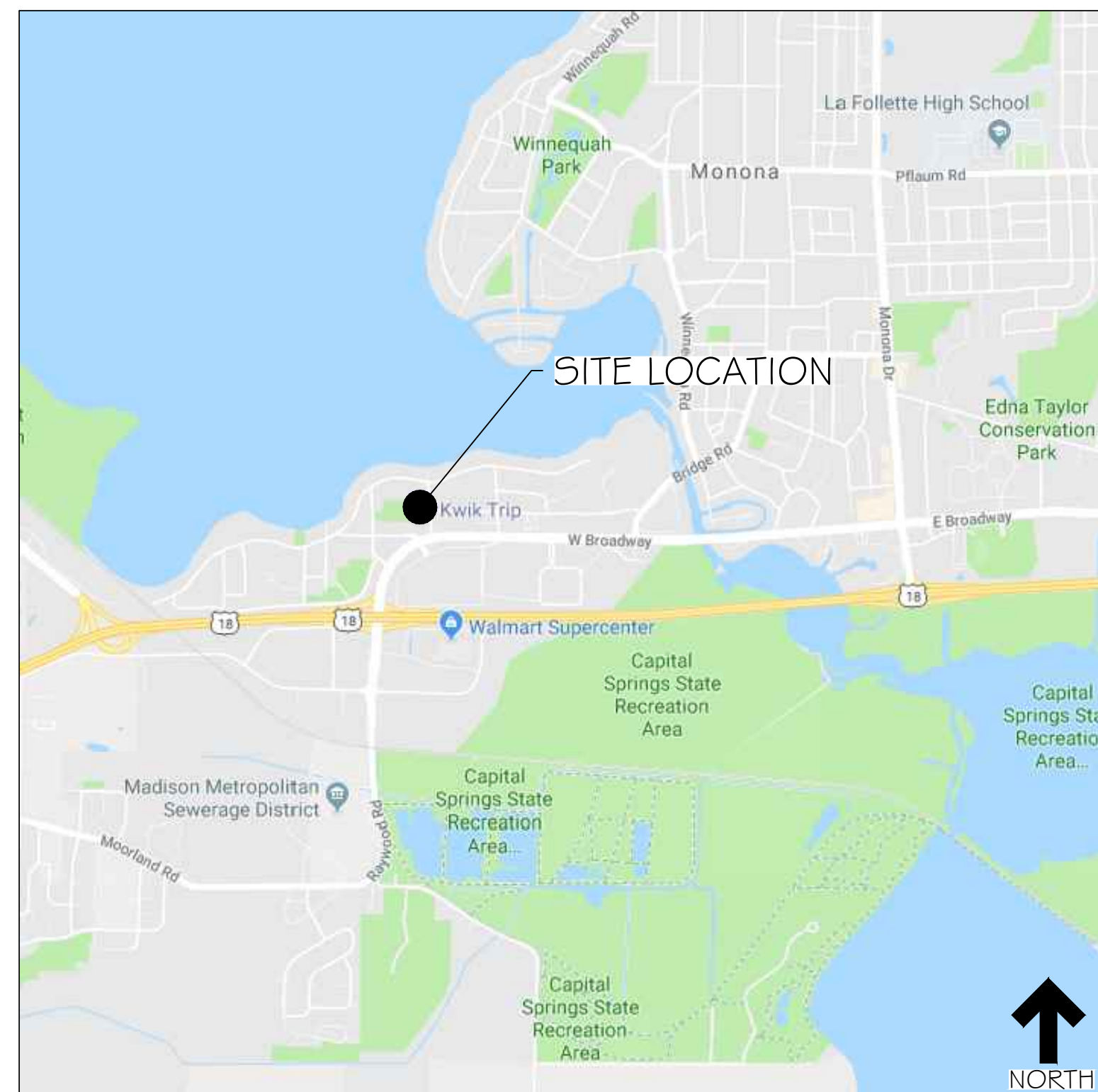
4. Comprehensive Design Review (CDR) and Variance Requests (Signage applications only)

- Locator Map
- Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Variance criteria is required)
- Contextual site information, including photographs of existing signage both on site and within proximity to the project site
- Site Plan showing the location of existing signage and proposed signage, dimensioned signage setbacks, sidewalks, driveways, and right-of-ways
- Proposed signage graphics (fully dimensioned, scaled drawings, including materials and colors, and night view)
- Perspective renderings (emphasis on pedestrian/automobile scale viewsheds)
- Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit

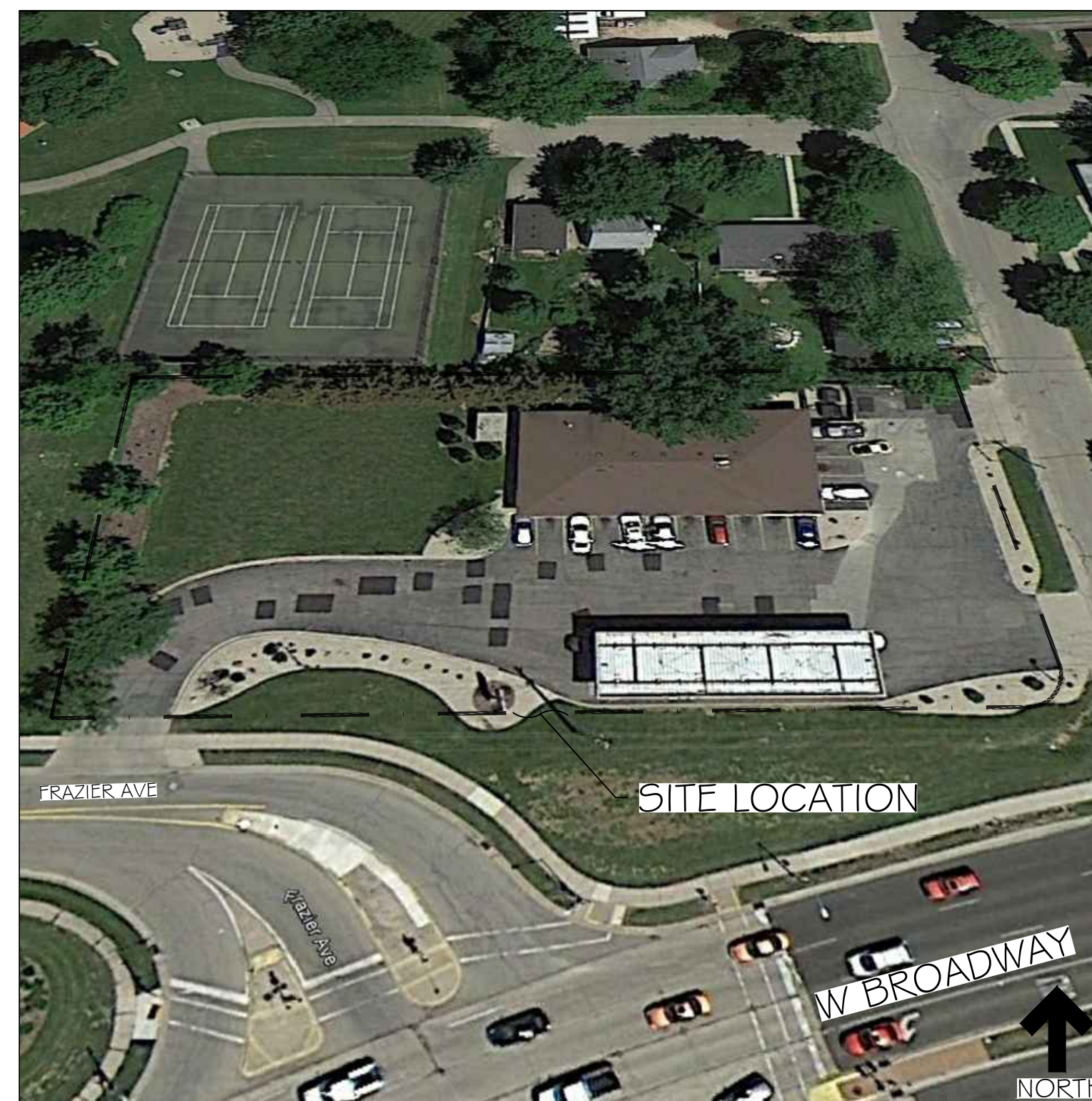
SITE IMPROVEMENT PLANS FOR:

KWIK TRIP #965
2402 W BROADWAY
MADISON, WISCONSIN

SITE LOCATION MAP:



SITE AERIAL MAP:

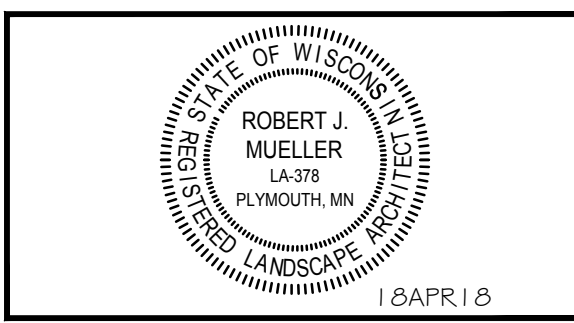


DRAWING INDEX	
TI	TITLE SHEET
ALTA	ALTA SURVEY
DMI	DEMO PLAN
SPE	SITE PLAN ELEMENTS
SP1	SITE DIMENSION PLAN
SP1.1	SITE PLAN KEYNOTE
SP2	GRADE PLAN
SP2.1	GRADE PLAN DETAILS
SPA	ACCESSIBILITY PLAN
SPD	DETAILS
SWP1	EROSION CONTROL PLAN
SWP2	EROSION CONTROL NOTES
SWP3	EROSION CONTROL DETAILS
SWP4	EROSION CONTROL DETAILS
LI	LANDSCAPE PLAN
EI	LIGHTING PLAN



KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, STE 131
Plymouth Minnesota 55447
763.383.8400
Fax 763.383.8400



TITLE SHEET
CONVENIENCE STORE 965
2402 W BROADWAY
MADISON, WISCONSIN

OWNER:
KWIK TRIP INC.
1626 OAK STREET
LA CROSSE, WI 54602
BJORN BERG
(608)-791-4343
BBERG@kwiktrip.com

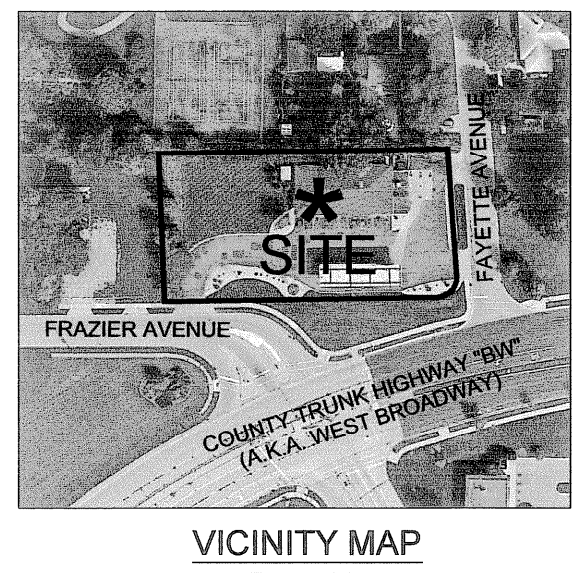
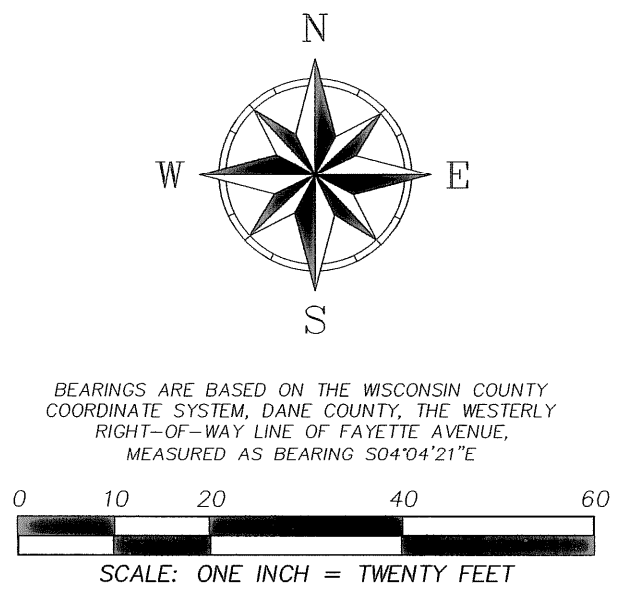
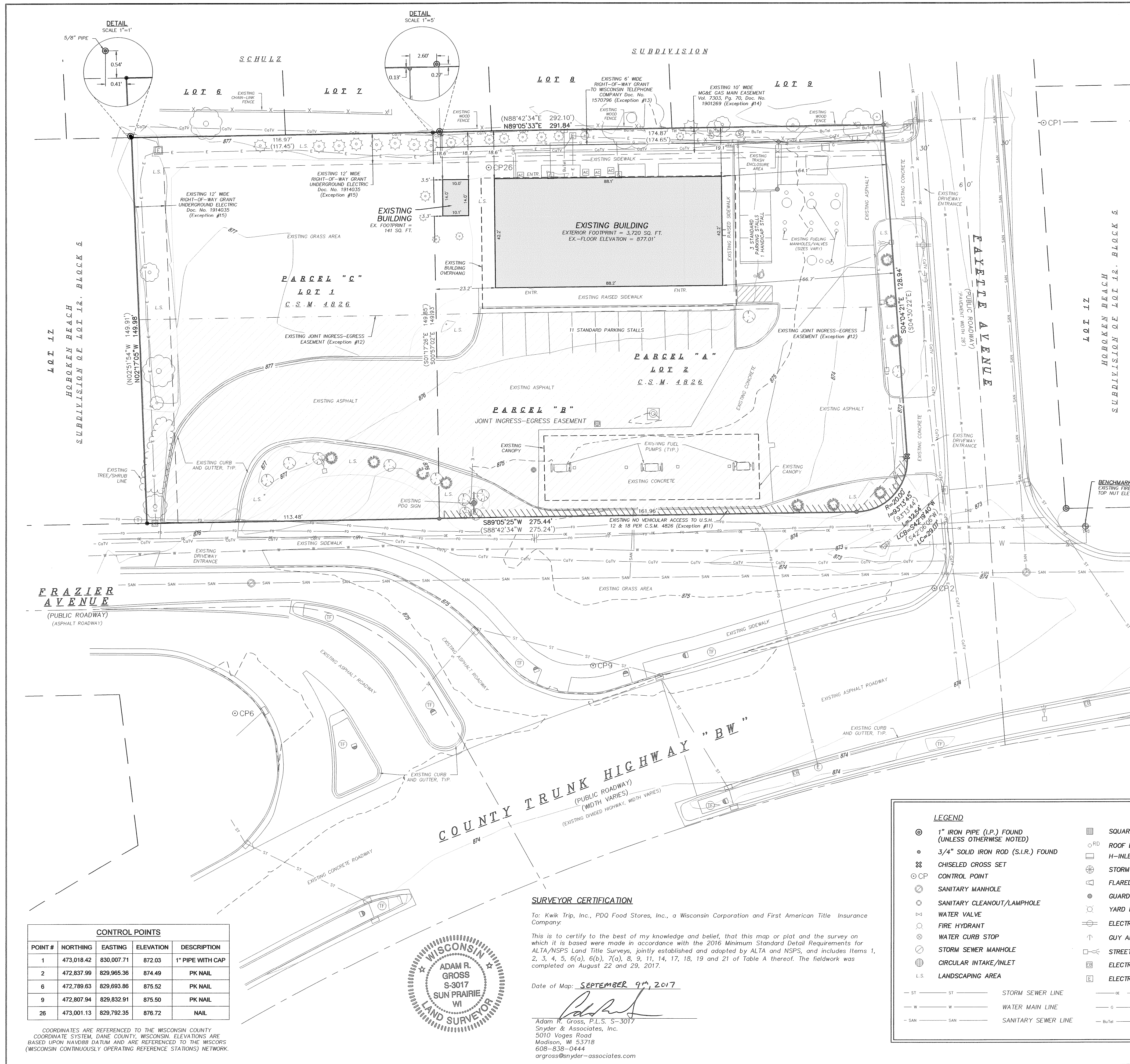
SITE PLANNER:
INSITES SITE PLANNING
3030 HARBOR LN N, SUITE 131
PLYMOUTH, MN 55447
BOB MUELLER
763-383-8400
Bob@insitesinc.net

SURVEYOR:
SNYDER & ASSOCIATES
608.838.0444
ARGROSS@SNYDER-ASSOCIATES.COM

NO.	DATE	DESCRIPTION
-	06JUNE18	SUBMITTAL
-	17JULY18	SUBMITTAL
-	25JULY18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	17965
DATE	18APR2018
SHEET	T1

17:050 PM B.S.



TITLE INFORMATION:
 Legal Description from Title Commitment File No. NCS-861351-8-MAD dated July 27, 2017 at 7:30am from First American Title Insurance Company.

Parcel A:
 Lot Two (2), of Certified Survey Map #4826 recorded in the Dane County Register of Deeds office in Volume 14 of Certified Survey Maps, page 41-22 Document No. 191411, in the City of Madison, Dane County, Wisconsin.

Parcel B:
 Together with a nonexclusive ingress/egress easement pursuant to common access and cross easement agreement recorded December 15, 1985 as Document No. 191502 and as shown on Certified Survey Map No. 4826.

Parcel C:
 Lot One (1), of Certified Survey Map #4826 recorded in the Dane County Register of Deeds office in Volume 14 of Certified Survey Maps, page 41-23 Document No. 191411 in the City of Madison, Wisconsin.

- The legal description referenced in the title commitment is the same property depicted on this survey.
- Date of Field Survey: August 22, 2017. Any changes in site conditions after August 22 and 29, 2017 are not reflected by this survey.
- Total Area of parcels surveyed = 44,009 Sq. Ft. (1,010.3 Acres)
- Address of property: Store 122, 2402-04 West Broadway, Madison, WI (Per Title Commitment)
- Parcel Numbers: 251/0710-194-1008-5 and 251/0710-194-1012-6 (Per Title Commitment)
- Surveyor has made no investigation or independent search for encumbrances, restrictive covenants, ownership title evidence, or any other facts that the current title search may disclose.
- No attempt has been made as a part of this survey to obtain or show data concerning size, depth, condition or capacity of any utility or municipal/public service facility. For information regarding these utilities or facilities contact the appropriate agencies.
- Said described property is located within an area having a Zone designation X by the Federal Emergency Management Agency, on Flood Insurance Rate Map No. 25025C0436C, with a date of identification of January 02, 2009, for Community Numbers 25007, 25008, and 25009, in Dane County, State of Wisconsin, which is the current Flood Insurance Rate Map for the community in which said property is situated.
- Total number of full above-ground marked standard parking stalls on property = 14
- Total number of above-ground marked handicap stalls = 1
- Before excavation, appropriate utility companies should be contacted. For exact location of underground utilities, contact Digger's Hotline at 1-800-232-5511.
- The information provided to the surveyor through an email dated 08-24-2017 with the City of Madison, no changes plan to be made to the public street right-of-way lines. (Noted to fulfill item 17 of Table A)
- No wetlands exist on the property surveyed per the WDNR website. (Noted to fulfill item 18 of Table A)
- All known platable easements and servitudes disclosed in document provided to or obtained by surveyor are shown on survey. (Noted to fulfill item 19 of Table A)
- Subsurface utilities and features shown on this survey have been approximated by locating surficial features and appurtenances, locating Digger's Hotline field markings and by reference to utility records and maps. Digger's Hotline Ticket Numbers 2013412062, 2013412145, and 2013412164.

Surveyor has been provided a copy of Title Commitment File No. NCS-861351-8-MAD dated July 27, 2017 at 7:30am from First American Title Insurance Company.

Title Exceptions (Per Title Commitment File No. NCS-861351-8-MAD dated July 27, 2017 at 7:30am from First American Title Insurance Company):

- Any facts, rights, interests, or claims that are not shown by the public records but that could be ascertained by an inspection of the land or by making inquiry of persons in possession of the land.
- Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
- Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title including, but not limited to, discrepancies, conflict in boundary lines, shortages in area, or any other facts that would be disclosed by an accurate and complete land survey of the land, and that are not shown in the public records.
- Any lien, or right to a lien, for services, labor or material thereto or hereafter furnished imposed by law and not shown in the public records.
- Defects, liens, encumbrances, adverse claims, or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment.
- Special taxes, assessments or charges, if any.

NOTE: Said exception will be removed only if the Company receives written evidence from the municipality that there are no special assessments against the land, or that all such items have been paid in full within 30 days of closing.

- Taxes, general and special for the year 2017, not now due and payable.
- Taxes for the year 2016 in the amount of \$10,652.72 are paid. Tax Parcel number 251/0710-194-1012-6
- Special Assessments for sidewalk in the amount of \$1,146.05.
- Public or private rights in such portion of the subject premises as may be presently used, laid out or dedicated in any manner whatsoever, for street, highway, and or other purposes.
- Easements, Areas of No Vehicular Access, and other matters as disclosed by CSM 4826 and Plat of Schulz Subdivision recorded as Document No. 832790. (As shown on survey)
- Joint Ingress-Egress Easement as noted on Certified Survey Map No. 4826. (As shown on survey)
- Right of Way Grant as disclosed by Warranty Deed recorded May 8, 1978 as Document No. 1570796. (As shown on survey)
- Right of Way Grant Gas Main, to Madison Gas and Electric Company, recorded September 25, 1985 as Document No. 1901269 and as set forth on Certified Survey Map No. 4826. (As shown on survey)
- Right of Way Grant Underground Electric, to Madison Gas and Electric Company, recorded December 17, 1985 as Document No. 1914035. (As shown on survey)

ALTA/ACSM LAND TITLE SURVEY
 LOTS 1 AND 2, CERTIFIED SURVEY MAP NUMBER 4826 AS RECORDED IN VOLUME 21 OF CERTIFIED SURVEY MAPS, ON PAGES 206-207, AS DOCUMENT NUMBER 191411, DANE COUNTY REGISTRY AND LOCATED IN THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 19, TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	473,018.42	830,007.71	872.03	1" PIPE WITH CAP
2	472,837.99	829,965.36	874.49	PK NAIL
6	472,789.63	829,693.86	875.52	PK NAIL
9	472,807.94	829,832.91	875.50	PK NAIL
26	473,001.13	829,792.35	876.72	NAIL

COORDINATES ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY, WISCONSIN. ELEVATIONS ARE BASED UPON NAVD83 DATUM AND ARE REFERENCED TO THE WISCONSIN (WISCONSIN CONTINUOUSLY OPERATING REFERENCE STATIONS) NETWORK.



SURVEYOR CERTIFICATION
 To: Kwik Trip, Inc., PDO Food Stores, Inc., a Wisconsin Corporation and First American Title Insurance Company.

This is to certify to the best of my knowledge and belief, that this map or plot and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 8, 9, 11, 14, 17, 18, 19 and 21 of Table A thereof. The fieldwork was completed on August 22 and 29, 2017.

Date of Map: SEPTEMBER 9th, 2017

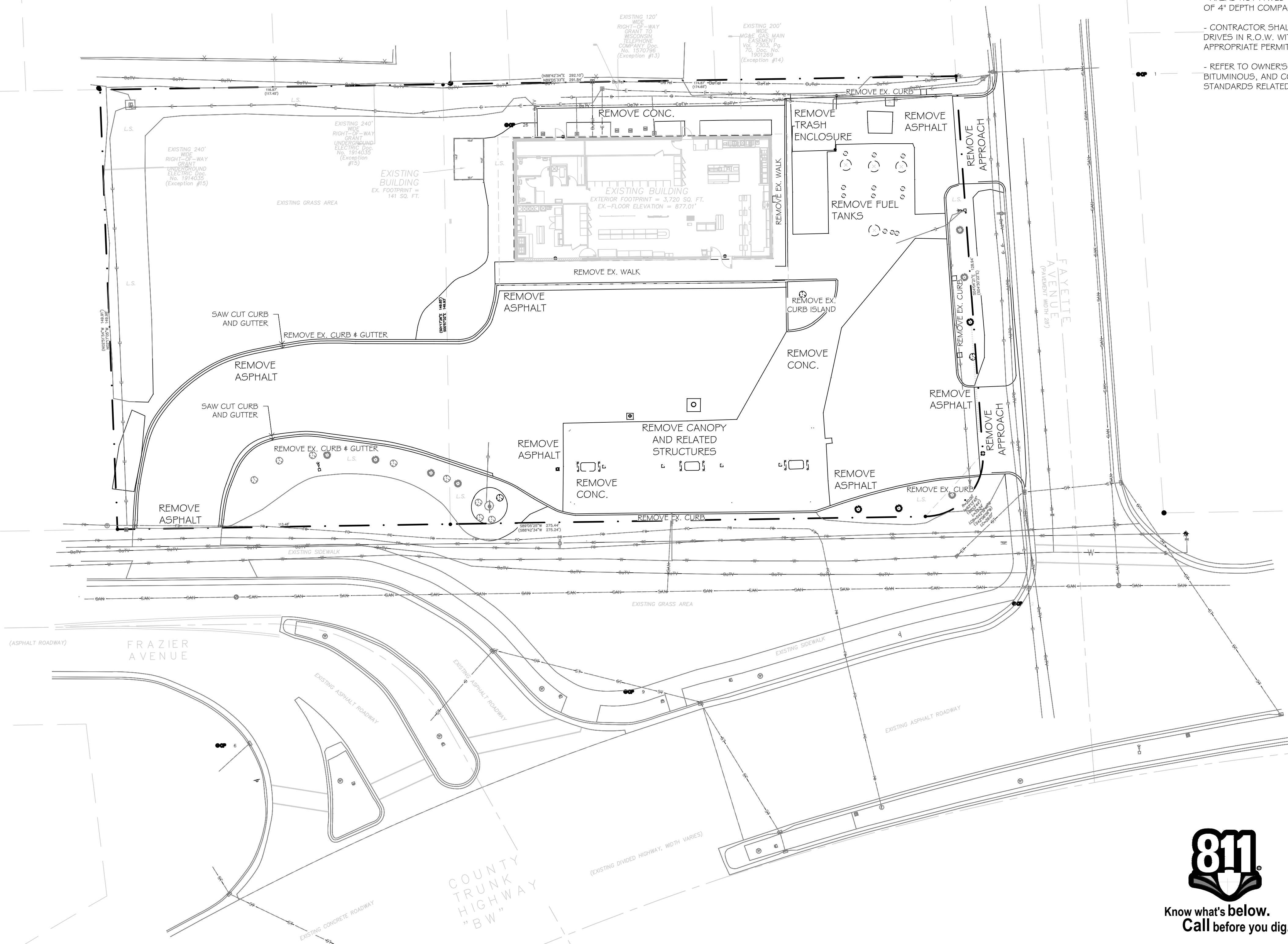
Adam R. Gross, P.L.S. S-3017
 Snyder & Associates, Inc.
 5010 Voges Road
 Madison, WI 53718
 608-838-0444
 agr@snnyder-associates.com

LEGEND			
⊙	1" IRON PIPE (I.P.) FOUND (UNLESS OTHERWISE NOTED)	□	SQUARE INTAKE/INLET
⊙	3/4" SOLID IRON ROD (S.I.R.) FOUND	⊖	ROOF DRAIN
⊗	CHISELED CROSS SET	⊖	H-INLET
⊙ CP	CONTROL POINT	⊖	STORM SEWER BEHIVE
⊙	SANITARY MANHOLE	⊖	FLARED END SECTION
⊙	SANITARY CLEANOUT/LAMPHOLE	⊖	GUARD POST/BOLLARD
⊖	WATER VALVE	⊖	YARD LIGHT
⊖	FIRE HYDRANT	⊖	ELECTRIC POWER POLE
⊖	WATER CURB STOP	⊖	GUY ANCHOR
⊖	STORM SEWER MANHOLE	⊖	STREET LIGHT
⊖	CIRCULAR INTAKE/INLET	⊖	ELECTRIC BOX
L.S.	LANDSCAPING AREA	⊖	ELECTRIC TRANSFORMER
-ST	STORM SEWER LINE	—E—E—E	OVERHEAD UTILITY LINE
-W	WATER MAIN LINE	—G—G—G	BURIED GAS LINE
-SAN	SANITARY SEWER LINE	—Fo—Fo—Fo	BURIED TELEPHONE LINE
		—E—E—E	BURIED ELECTRIC LINE
		—CaTv—CaTv—CaTv	BURIED CABLE TV LINE
			BURIED FIBER OPTIC LINE
		⊖	ELECTRIC MH OR VAULT
		⊖	TRAFFIC SIGNAL
		⊖	TRAFFIC SIGNAL/MAST ARM
		⊖	TRAFFIC SIGNAL MH
		⊖	TRAFFIC SIGNAL CONTROL BOX
		⊖	TRAFFIC SIGN
		⊖	TELEPHONE JUNCTION BOX
		⊖	TELEPHONE MH OR VAULT
		⊖	GAS VALVE
		⊖	GAS METER
		⊖	CABLE TV BOX
		⊖	CABLE TV MANHOLE/VAULT
		⊖	AIR CONDITIONER
		⊖	BENCHMARK
		⊖	HANDICAP PARKING STALL
		⊖	LARGE SIGN
		⊖	DECIDUOUS SHRUB
		⊖	CONIFEROUS SHRUB
		⊖	DECIDUOUS TREE (SIZE VARIES)
		⊖	CONIFEROUS TREE (SIZE VARIES)

SNYDER & ASSOCIATES
 Engineers and Planners

SURVEYED FOR:
 Kwik Trip, Inc.
 1626 Oak Street
 La Crosse, WI 54602

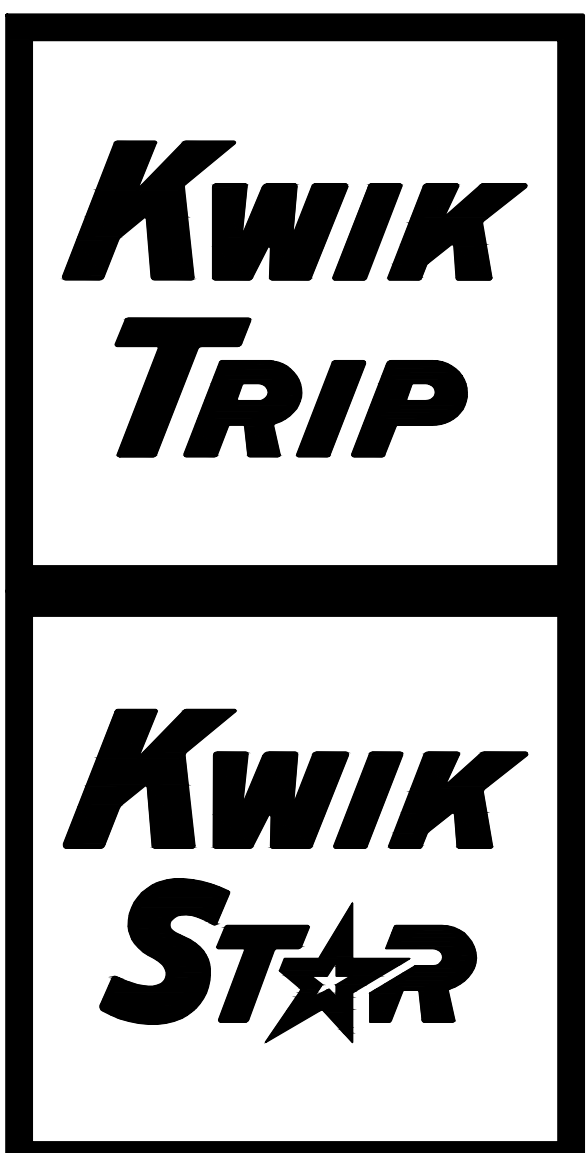
SURVEYED BY:
 Snyder & Associates, Inc.
 5010 Voges Road
 Madison, WI 53718
 (608) 838-0444
 www.snnyder-associates.com



CONSTRUCTION NOTE:

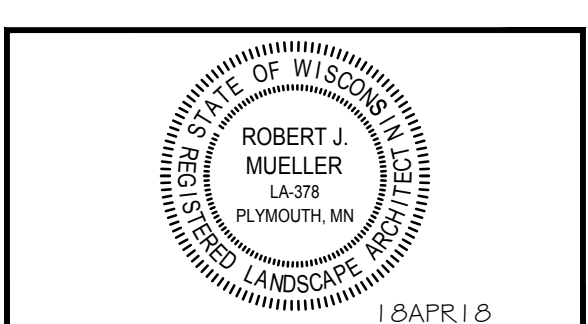
BIO ROLL TO BE INSTALLED AROUND ENTIRE RE-GRADING AREA.
NOTE:

- REFER TO OTHER PROJECT PLANS AND INFORMATION RELATED TO THIS PROJECT PRIOR TO BEGINNING ANY GRADING WORK.
- PLAN PREPARED FROM ALTA/JACSM LAND TITLE SURVEY BY:
SNYDER & ASSOCIATES
608.838.0444
SEPT-9TH-2017
- CONTRACTOR SHALL LOCATE ALL UTILITIES WHICH MAY AFFECT THIS WORK AND NOTIFY OWNER OF ANY CONFLICTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS PRIOR TO START OF CONSTRUCTION. VERIFY CRITICAL ELEVATIONS TO ENSURE CONFORMANCE WITH GRADING PLAN, PARTICULARLY WITH WALK AND/OR PAVEMENTS TO REMAIN. MEET EXISTING GRADES ALONG STREETS, PROPERTY LINES AND DRIVEWAY ENTRANCES. RESTORE ALL EXISTING PAVEMENTS THAT REMAIN TO THEIR ORIGINAL, IF NOT BETTER CONDITION. NOTIFY OWNER OF ANY CONFLICTS.
- AREAS NOT PAVED AND TO BE LANDSCAPED SHALL RECEIVE MINIMUM OF 4" DEPTH COMPACTED TOPSOIL.
- CONTRACTOR SHALL COORDINATE GRADING AND INSTALLATION OF DRIVES IN R.O.W. WITH APPROPRIATE GOVERNMENT AGENCIES. OBTAIN APPROPRIATE PERMITS FOR GRADING AND DRAINAGE IN ALL R.O.W.
- REFER TO OWNER'S SPECIFICATIONS FOR CURB, APPROACH, BITUMINOUS, AND CONCRETE PROFILES, AS WELL AS ADDITIONAL SITE STANDARDS RELATED TO THIS PROJECT.



KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

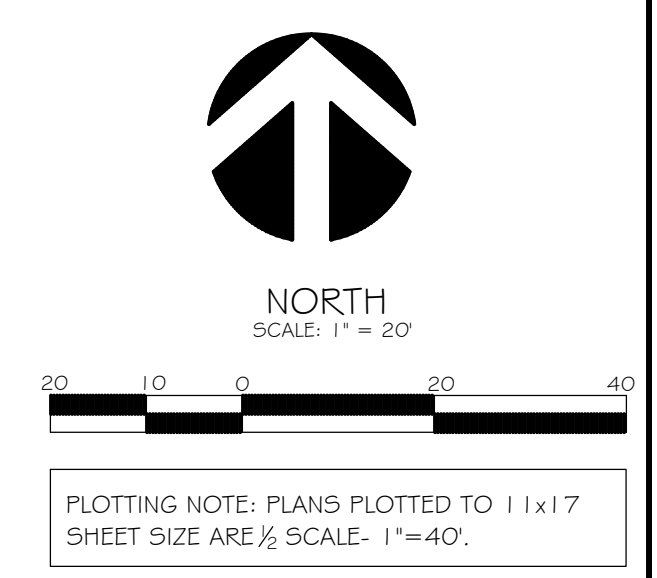
INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, STE 131
Plymouth Minnesota 55447
763.383.8400
Fax 763.383.8400



DEMO PLAN
CONVENIENCE STORE 965
2402 W BROADWAY
MADISON, WISCONSIN

NO.	DATE	DESCRIPTION
-	06JUN18	SUBMITTAL
-	17JULY18	SUBMITTAL
-	25JULY18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

DRAWN BY _____
SCALE _____ GRAPHIC
PROJ. NO. 17965
DATE 18APR2018
SHEET **DM1**

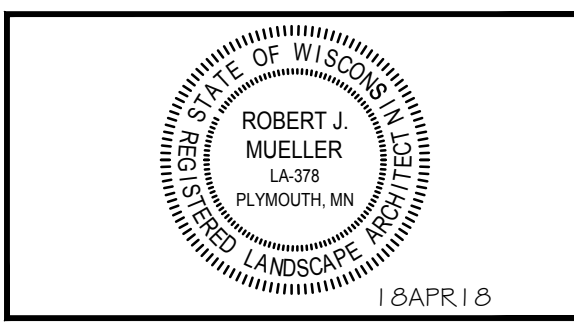


17:050 PM B.B.



KWIK TRIP, Inc.
 P.O. BOX 2107
 1626 OAK STREET
 LACROSSE, WI 54602-2107
 PH. (608) 781-8988
 FAX (608) 781-8960

INSITES
 SITE PLANNING LANDSCAPE ARCHITECTURE
 3030 Harbor Lane North, STE 131
 Plymouth Minnesota 55447
 763.383.8400
 Fax 763.383.8400

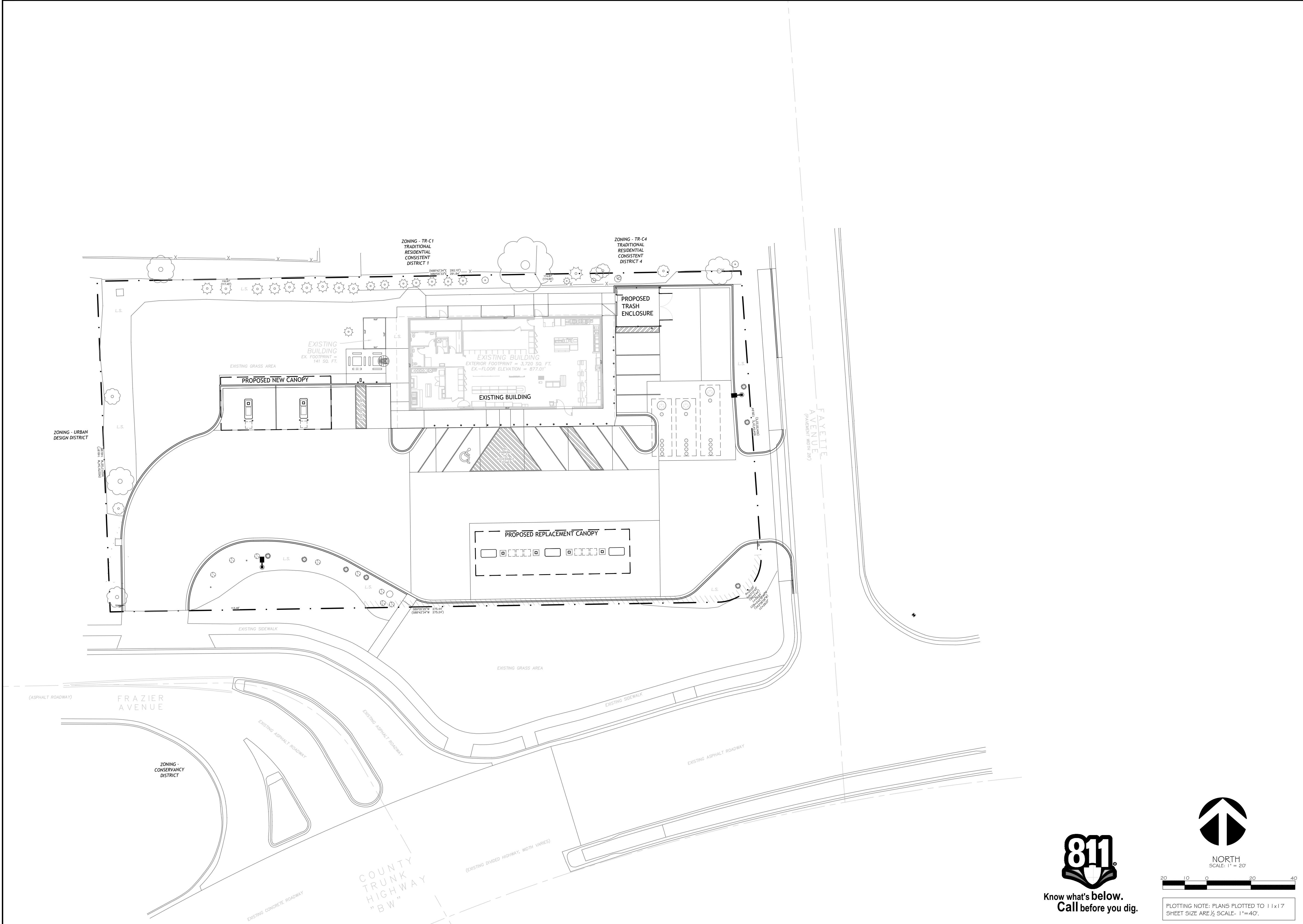


SITE PLAN ELEMENTS
CONVENIENCE STORE 965
2402 W BROADWAY
MADISON, WISCONSIN

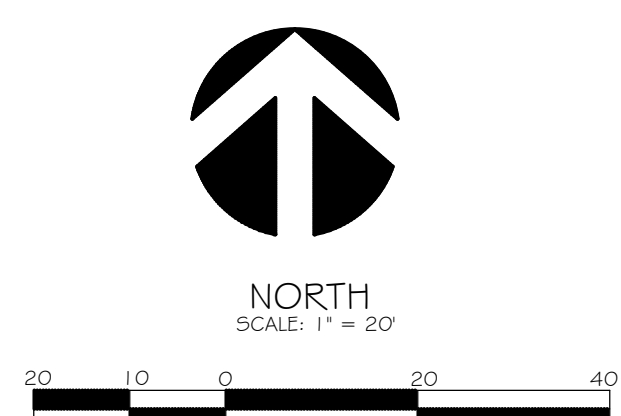
NO.	DATE	DESCRIPTION
-	08JUNE18	SUBMITTAL
-	17JULY18	SUBMITTAL
-	25JULY18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

DRAWN BY _____
 SCALE _____ GRAPHIC
 PROJ. NO. 17965
 DATE 18APR2018
 SHEET _____

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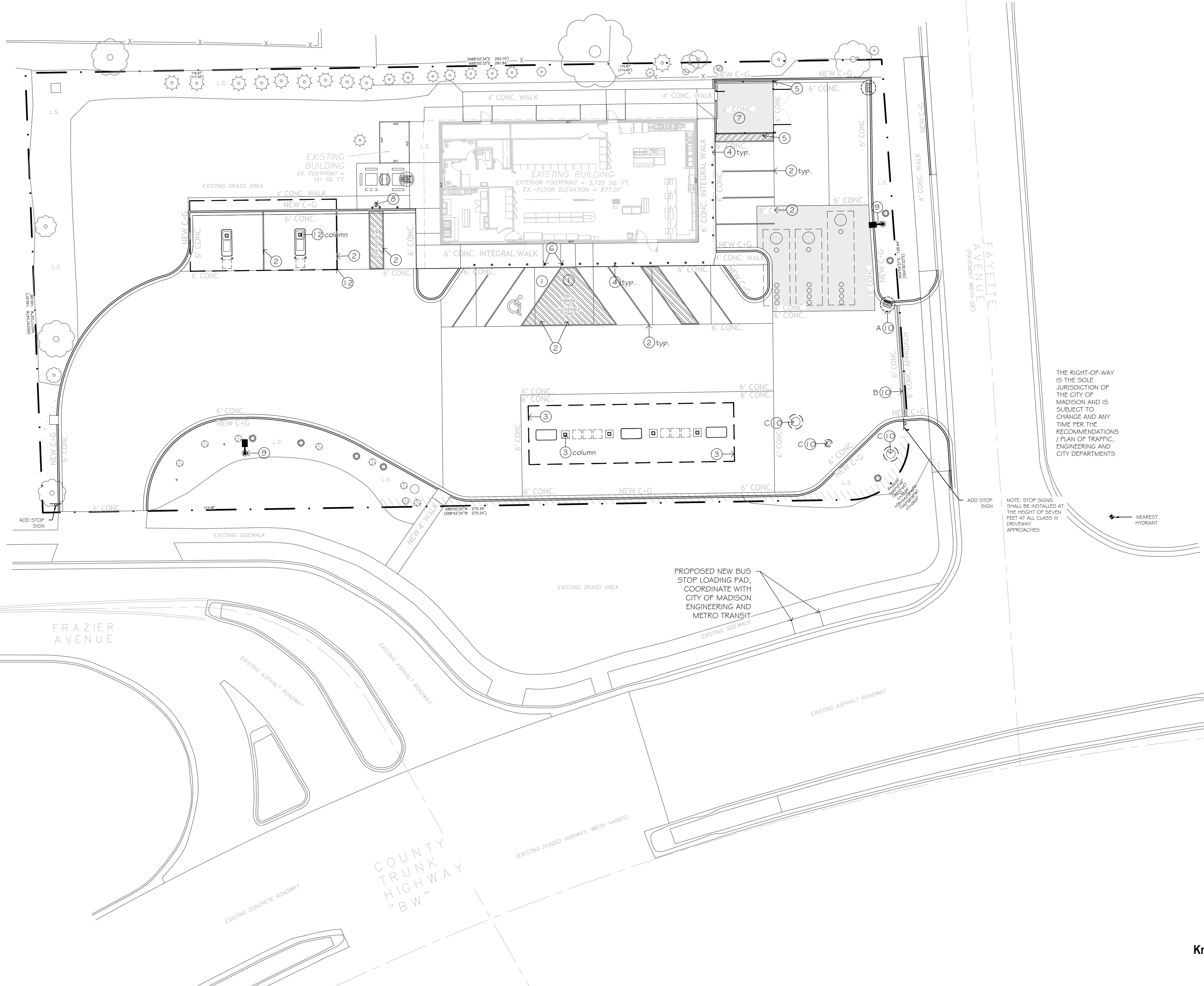


Know what's below.
 Call before you dig.



PLOTTING NOTE: PLANS PLOTTED TO 11x17
 SHEET SIZE ARE 1/2 SCALE- 1"=40'

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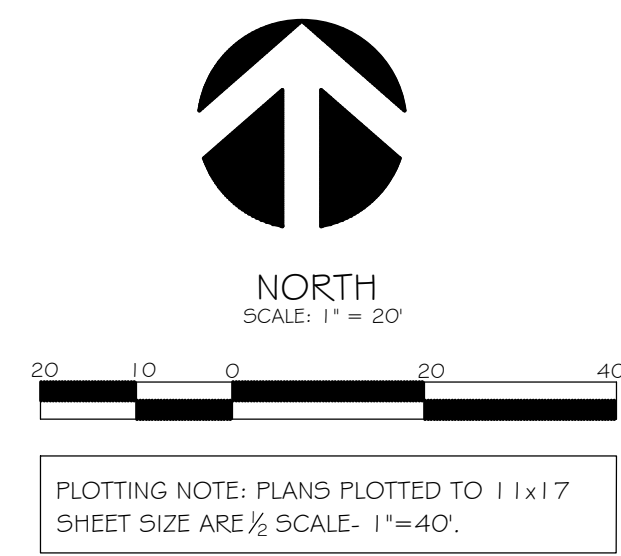


- ESTIMATED QUANTITIES**
- 5F 4" DEPTH CONCRETE WALK PER DETAIL 3/SPD
 - 5F 6" INTEGRAL CONCRETE CURB/WALK. SEE DETAIL 7/SPD FOR NON-FLUSH SECTIONS. CONCRETE SEALER: TK-26UV
 - 5F 6" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #3 REBAR. CONCRETE SEALER: TK-26UV
 - 5F 8" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #3 REBAR. CONCRETE SEALER: TK-26UV
 - LF CONCRETE APPROACH SIMILAR TO DETAIL (2/SPD)
 - BG-12 CONCRETE CURB AND GUTTER PER DETAIL 5/SPD.
- FOR LANDSCAPE AREAS. SEE SHEET L1.

- SITE PLAN NOTES AND KEYNOTES**
- OFF-STREET PARKING STALLS
STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY WHITE PAINT.
SPACES PROVIDED
(5) SERVICE POINTS
(4) 9'-0" x 20'-0" (MIN.) GENERAL PARKING
(6) 9'-0" x 20'-0" (MIN.) GENERAL PARKING 55'
(1) 9'-0" x 20'-0" ACCESSIBLE PARKING WITH
(1) MIN. 9'-0" x 20'-0" LOADING ZONE
(2) 11'-0" x 20'-0" AIR SPACE W/ 5' ACCESS LANE
1. A.D.A. ACCESSIBLE PARKING SPACE WITH LOADING ZONE. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS.
 2. 4" WIDE, HIGH VISIBILITY, PAVEMENT STRIPING, LANE MARKINGS AND TEXT. COLOR: HC MARKINGS- BLUE, ALL OTHERS- YELLOW.
 3. REPLACE EXISTING FUEL CANOPY (7'0" X 20')
(3) 3'-6" x 7'-0" CONCRETE ISLANDS W/ 6" EXPOSURE WITH FUEL DISPENSERS.
DISPENSER PER OWNER, 14'-6" HEIGHT
 4. 30" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 1/2/SPD.
 5. 36" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 1/2/SPD.
 6. HC PVC BOLLARD SLEEVE PER OWNER. VAN ACCESS SIGNAGE AT 48" HT. STALL PARKING AT 60" HT.
 7. TRASH ENCLOSURE BY OWNER
 8. AIR MACHINE PER OWNER
 9. SITE AREA LIGHT. SEE DETAIL 6/SPD
 10. STORM STRUCTURE. SEE SHEETS 5P2-5P4 FOR FURTHER STORM SEWER INFORMATION.
A. CATCH BASIN CURB INLET PER DETAIL 1/5/SPD
B. TRENCH DRAIN PER DETAIL 5/SPD
C. MANHOLE, FRAME AND VENTED COVER PER DETAIL 1/5/SPD
 11. PICNIC TABLES PER OWNER
 12. 24' x 50' NEW FUEL CANOPY
(2) 3'-6" x 7'-0" CONCRETE ISLANDS W/ 6" EXPOSURE WITH FUEL DISPENSERS.
DISPENSER PER OWNER, 14'-6" HEIGHT

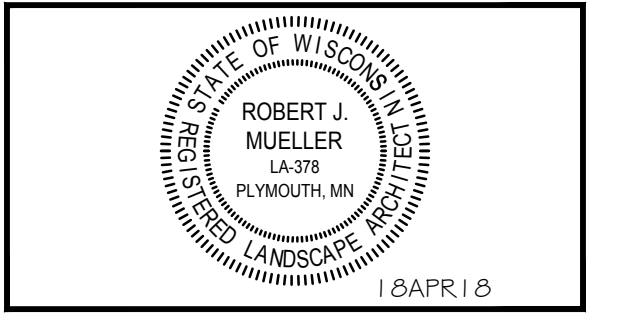
THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AND ANY TIME PER THE RECOMMENDATIONS / PLAN OF TRAFFIC, ENGINEERING AND CITY DEPARTMENTS

NOTE: STOP SIGN SHALL BE INSTALLED AT THE HEIGHT OF SEVEN FEET AT ALL CROSS IN DRIVEWAY APPROACHES



KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, STE 131
Plymouth Minnesota 55447
763.383.8400
Fax 763.383.8400



SITE KEYNOTE PLAN

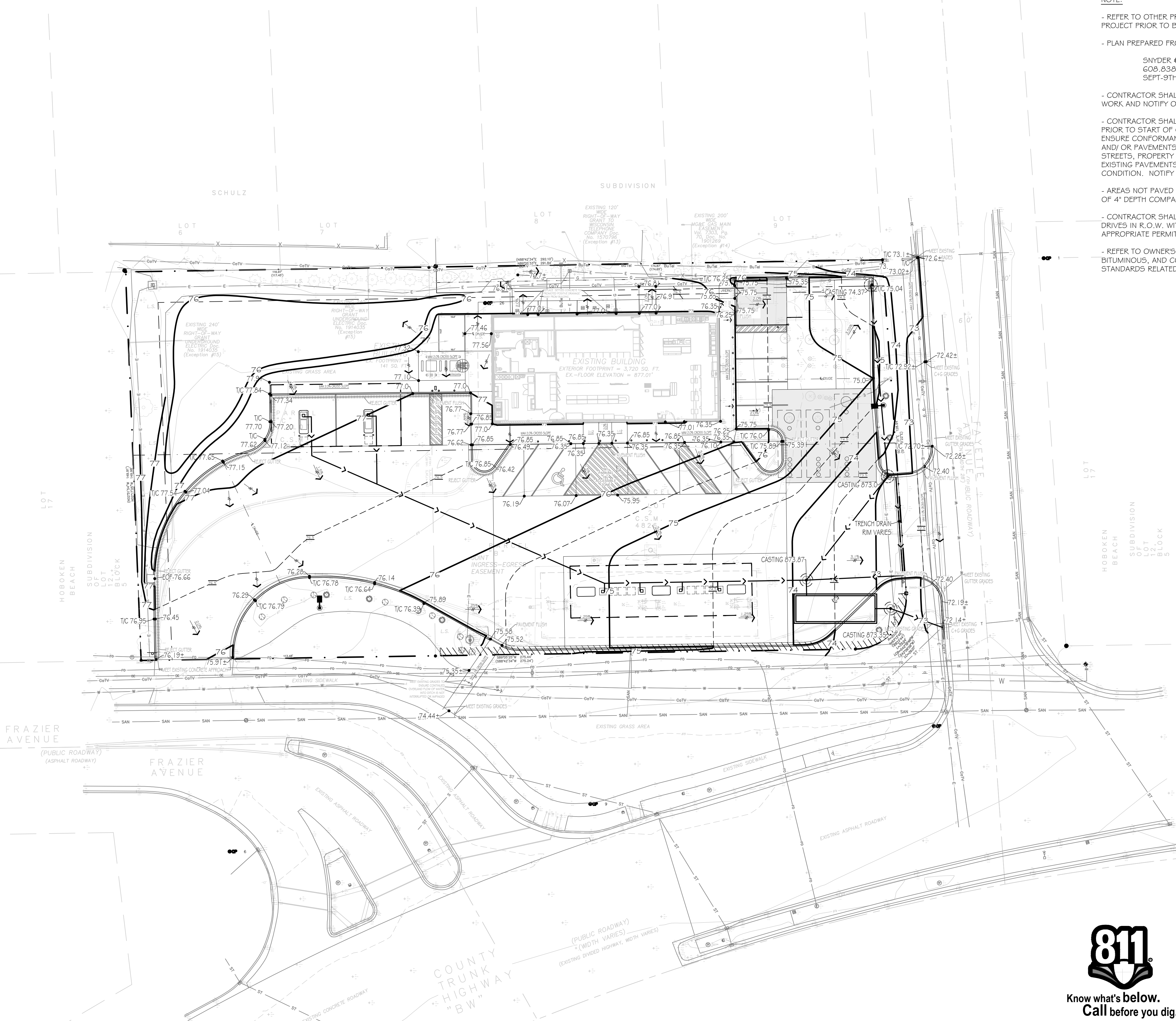
CONVENIENCE STORE 965

**2402 W BROADWAY
MADISON, WISCONSIN**

NO.	DATE	DESCRIPTION
-	08JUNE18	SUBMITTAL
-	17JULY18	SUBMITTAL
-	25JULY18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

DRAWN BY _____
SCALE _____ GRAPHIC
PROJ. NO. 17965
DATE 18APR2018
SHEET **SP1.1**

17:050 PM B.B.



CONSTRUCTION NOTE:

BIO ROLL TO BE INSTALLED AROUND ENTIRE RE-GRADING AREA.
NOTE:

- REFER TO OTHER PROJECT PLANS AND INFORMATION RELATED TO THIS PROJECT PRIOR TO BEGINNING ANY GRADING WORK.

- PLAN PREPARED FROM ALTA/JCSM LAND TITLE SURVEY BY:

SNYDER & ASSOCIATES
608.838.0444
SEPT-9TH-2017

- CONTRACTOR SHALL LOCATE ALL UTILITIES WHICH MAY AFFECT THIS WORK AND NOTIFY OWNER OF ANY CONFLICTS.

- CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS PRIOR TO START OF CONSTRUCTION. VERIFY CRITICAL ELEVATIONS TO ENSURE CONFORMANCE WITH GRADING PLAN, PARTICULARLY WITH WALK AND/OR PAVEMENTS TO REMAIN. MEET EXISTING GRADES ALONG STREETS, PROPERTY LINES AND DRIVEWAY ENTRANCES. RESTORE ALL EXISTING PAVEMENTS THAT REMAIN TO THEIR ORIGINAL, IF NOT BETTER CONDITION. NOTIFY OWNER OF ANY CONFLICTS.

- AREAS NOT PAVED AND TO BE LANDSCAPED SHALL RECEIVE MINIMUM OF 4" DEPTH COMPACTED TOPSOIL.

- CONTRACTOR SHALL COORDINATE GRADING AND INSTALLATION OF DRIVES IN R.O.W. WITH APPROPRIATE GOVERNMENT AGENCIES. OBTAIN APPROPRIATE PERMITS FOR GRADING AND DRAINAGE IN ALL R.O.W.

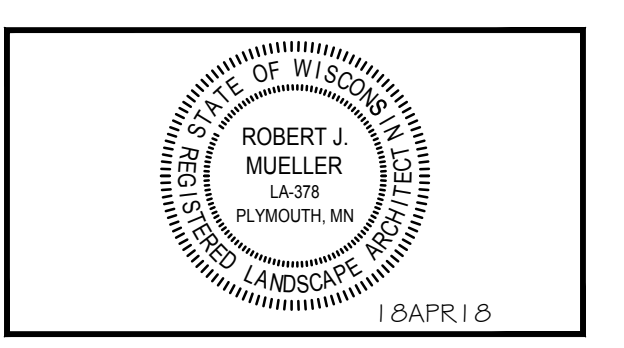
- REFER TO OWNER'S SPECIFICATIONS FOR CURB, APPROACH, BITUMINOUS, AND CONCRETE PROFILES, AS WELL AS ADDITIONAL SITE STANDARDS RELATED TO THIS PROJECT.

**Kwik
TRIP**

**Kwik
STAR**

KWIK TRIP, Inc.
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1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

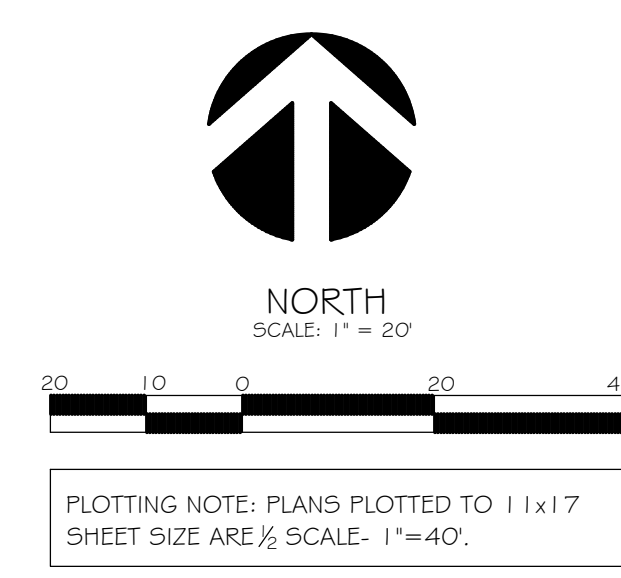
INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, STE 131
Plymouth Minnesota 55447
763.383.8400
Fax 763.381.8400



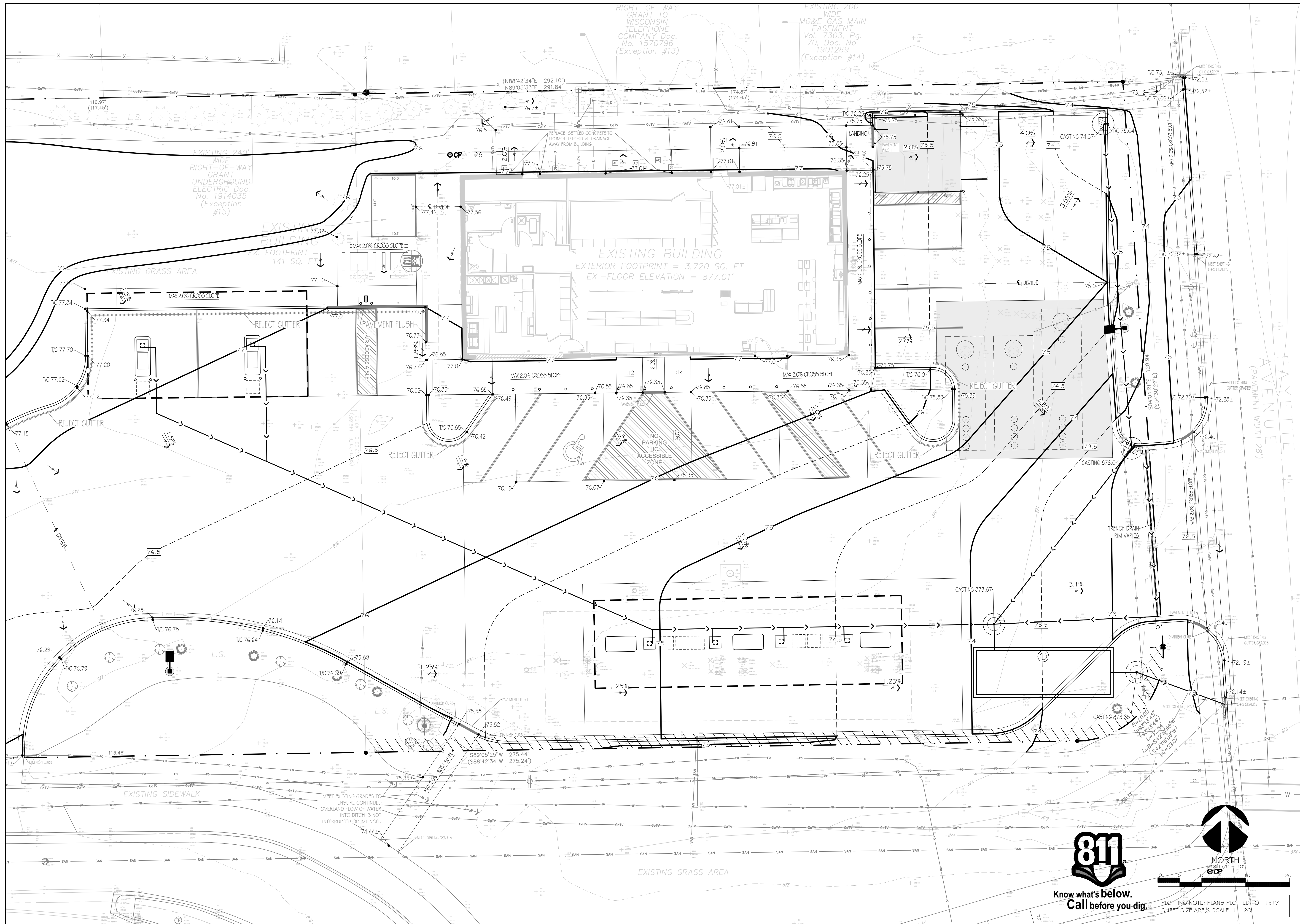
GRADE PLAN
CONVENIENCE STORE 965
2402 W BROADWAY
MADISON, WISCONSIN

NO.	DATE	DESCRIPTION
-	06JUN18	SUBMITTAL
-	17JULY18	SUBMITTAL
-	25JULY18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

DRAWN BY: _____
SCALE: GRAPHIC
PROJ. NO.: 17965
DATE: 18APR2018
SHEET: **SP2**



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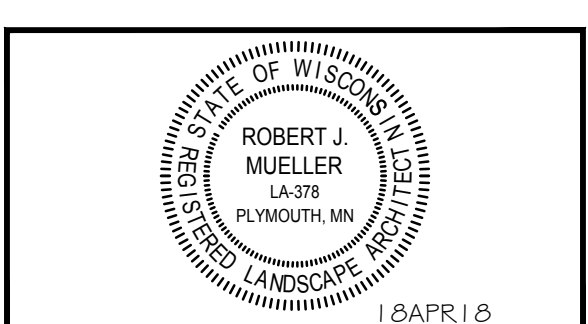


**Kwik
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 LACROSSE, WI 54602-2107
 PH. (608) 781-8988
 FAX (608) 781-8960

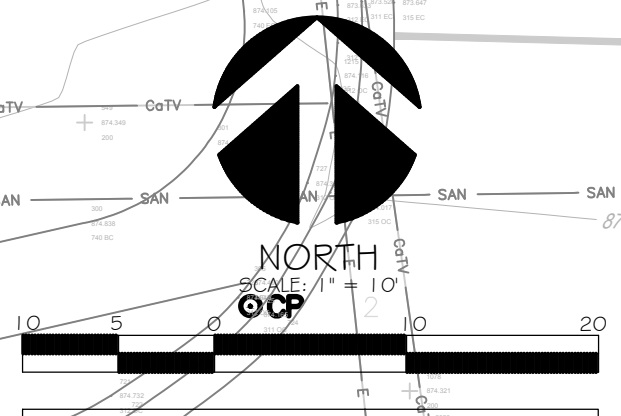
INSITES
 SITE PLANNING LANDSCAPE ARCHITECTURE
 3030 Harbor Lane North, STE 131
 Plymouth, Minnesota 55447
 763.383.8400
 Fax 763.383.8400



GRADE PLAN DETAILS
CONVENIENCE STORE 965
 2402 W BROADWAY
 MADISON, WISCONSIN

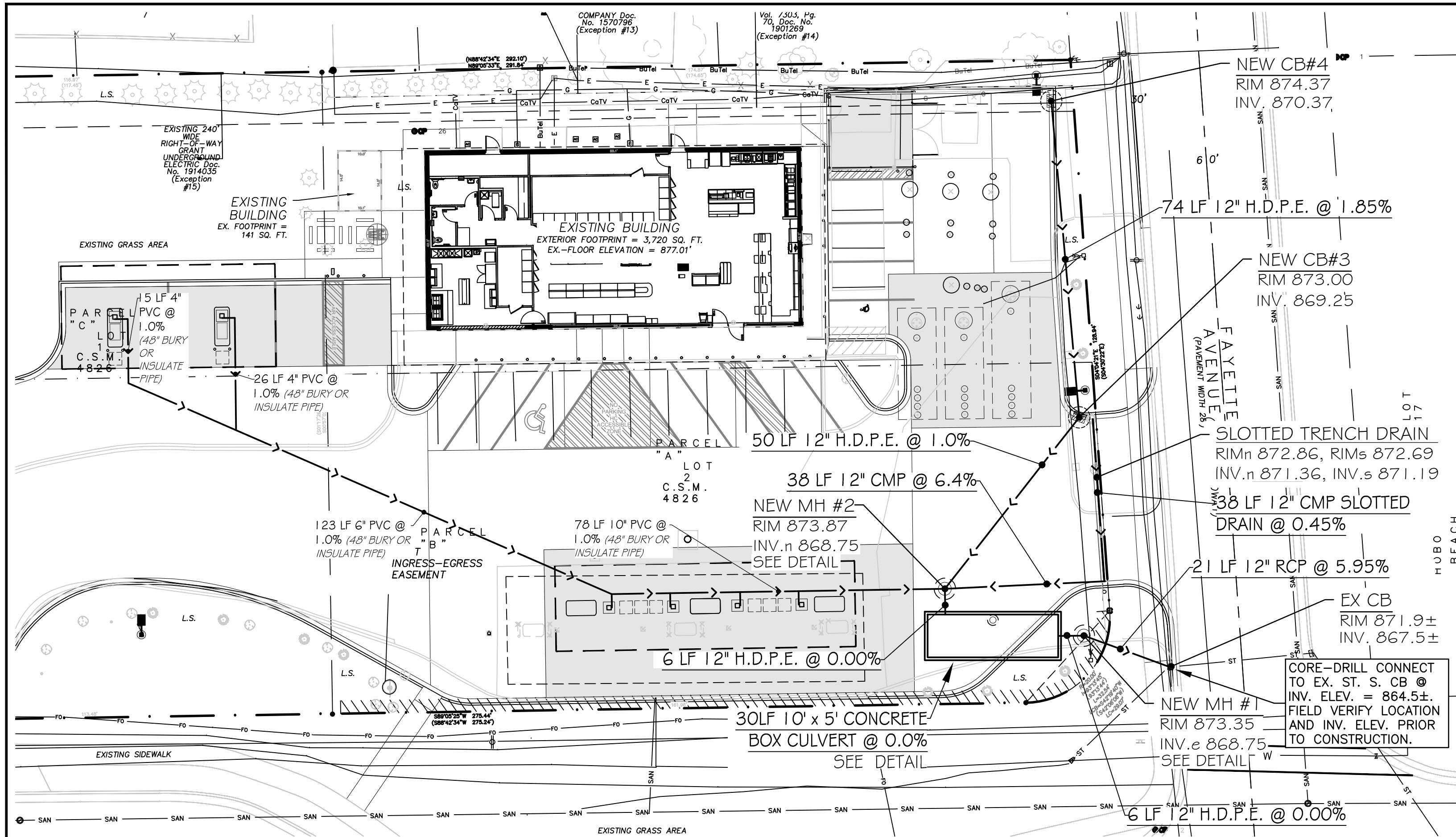
NO.	DATE	DESCRIPTION
-	06JUN18	SUBMITTAL
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-	25JUL18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

DRAWN BY: _____
 SCALE: GRAPHIC
 PROJ. NO.: 17965
 DATE: 18APR2018
 SHEET: **SP2.1**



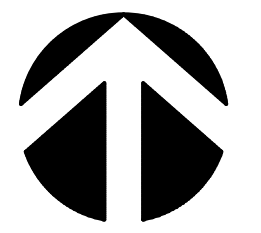
PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2" SCALE. 1"=20'

DATE PLOTTED: 17:05:00 PM B.S.

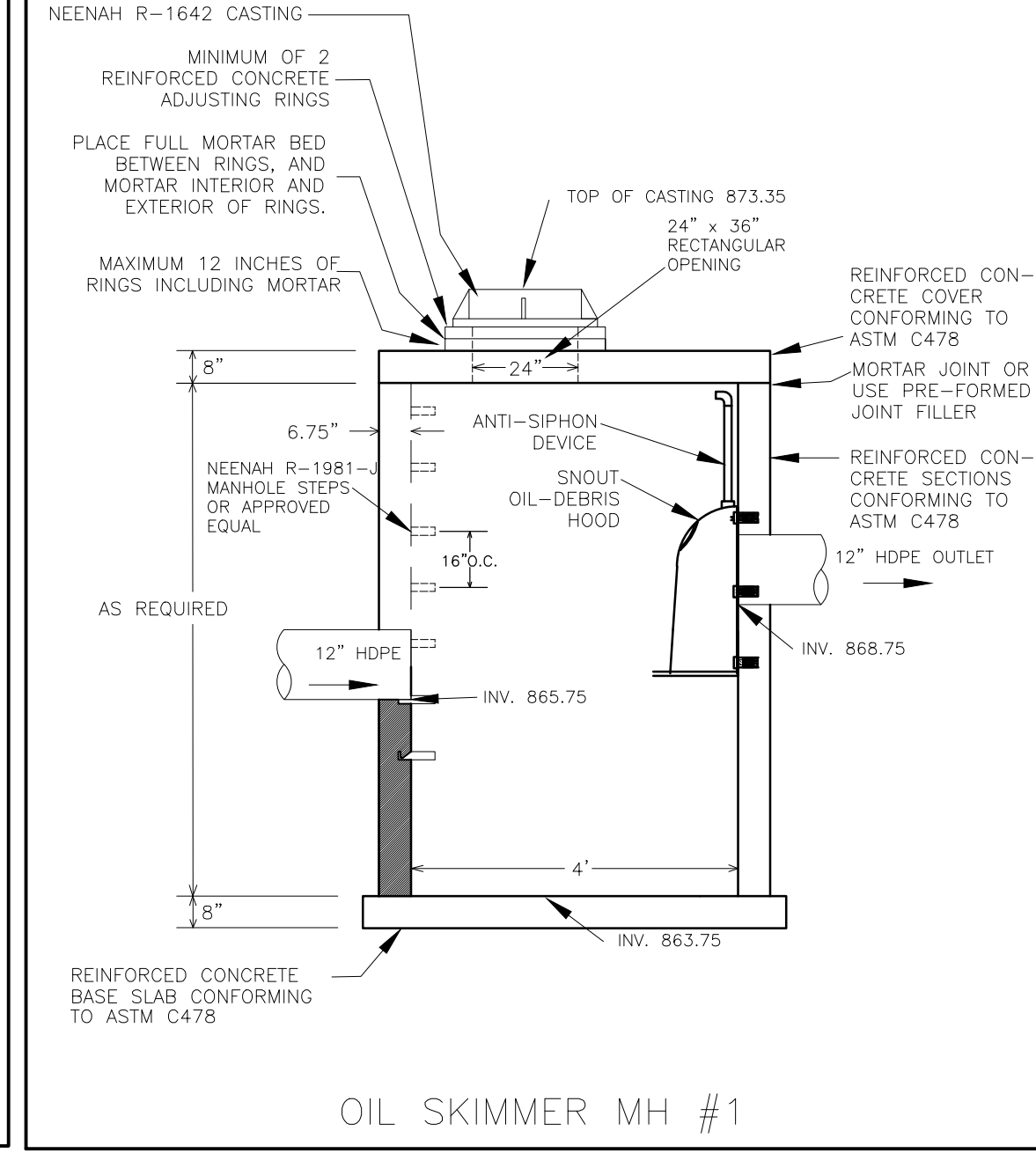
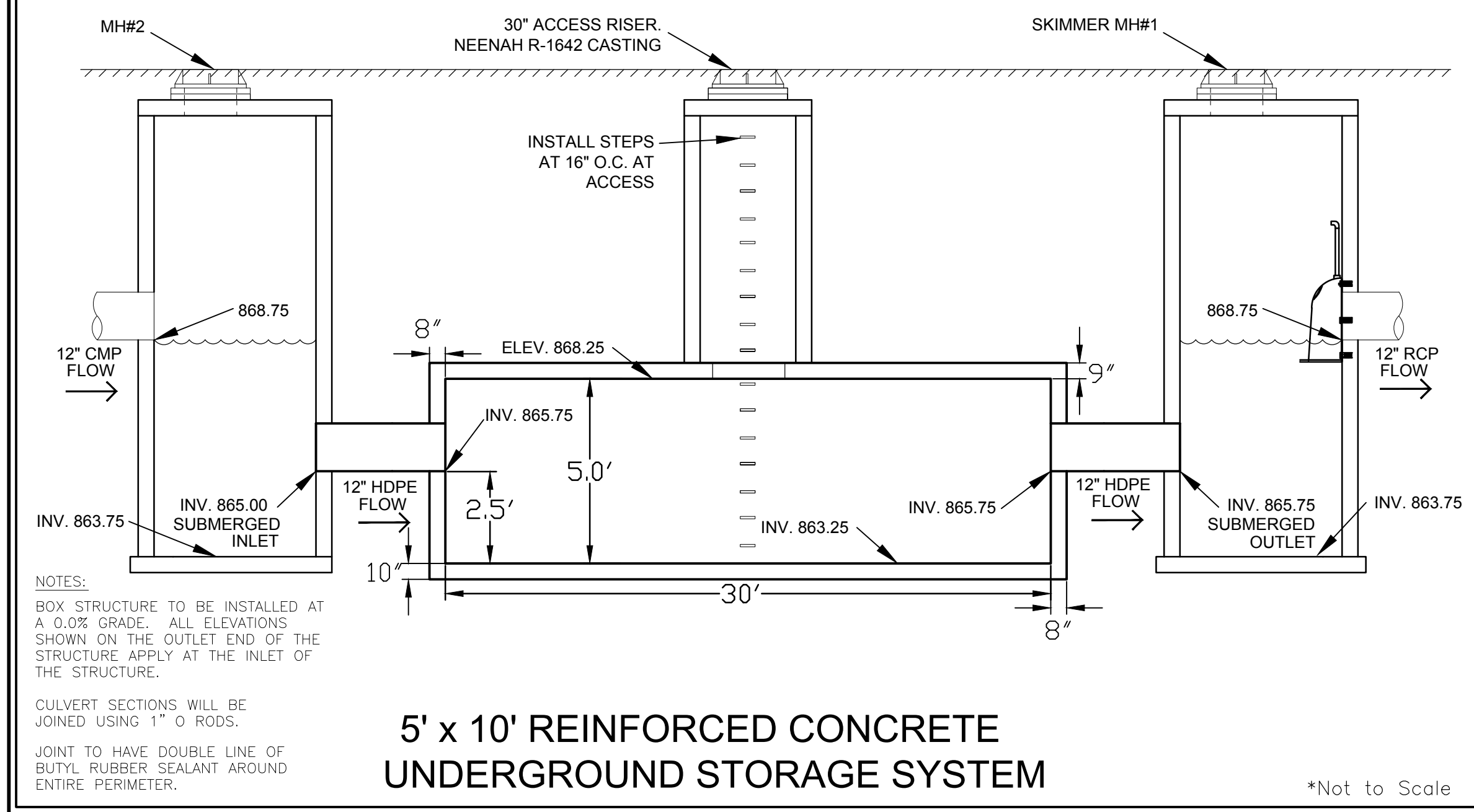


HDPE REQUIREMENTS:

1. Install dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe at locations indicated on the plan.
2. Dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe shall conform to the requirements of AASHTO M252 for pipe sizes 4-inch to 10-inch diameter.
3. Dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe shall conform to the requirements of ASTM F2306 for pipe sizes 12-inch to 60-inch diameter.
4. All fittings must comply with ASTM Standard D3212.
5. Water-tight joints must be used at all connections including structures.
6. Lay all HDPE pipe on a continuous granular bed. Installation must comply with ASTM D2321. All sections of the corrugated HDPE pipe shall be coupled in order to provide water tight joints.
7. Perform deflection tests on all HDPE pipe after the sewer lines have been installed and backfill has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. If the test fails, make necessary repairs and perform the test again until acceptable. Supply the mandrel for deflection testing. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the inside diameter of the pipe. The ball or mandrel shall be clearly stamped with the diameter. Perform the tests without mechanical pulling devices.



PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2" SCALE. 1"=40'.



STORM DRAINAGE:

1. Unless otherwise indicated, use reinforced, precast, concrete maintenance holes and catchbasins conforming to ASTM C478, furnished with water stop rubber gaskets and precast bases for all precast maintenance hole sections shall have confined, rubber "O"-ring gaskets in accordance with ASTM C923. The inside barrel diameter shall not be less than 48 inches.
2. Install catchbasin castings with specified top elevation at the front rim.
3. All joints and connections to catchbasins or manholes shall be watertight. Joints between concrete structures and piping shall be made with mechanical joints (resilient rubber seal/boot and clamp) in conformance with ASTM C923, ASTM C654, or as otherwise permitted by the local authority. Cement mortar joints are not allowed unless otherwise permitted by the administrative authority.
4. The building sewer starts 2 feet outside of the building. See Uniform Plumbing Code (UPC) part 715.1. Material installed within 2 feet of the building must be of materials approved for use inside or within the building.
5. PVC Pipe (Outside of the Building): Use solid-core, SDR-35, ASTM D3034 Polyvinyl Chloride (PVC) Pipe for designated PVC storm sewer services 4 to 15-inches in diameter outside of the building. Use solid-core, SDR-35, ASTM F679 Polyvinyl Chloride (PVC) pipe for

- designated PVC storm sewer services 18 to 27-inches in diameter outside of the building. Joints for all storm sewer shall have push-on joints with elastomeric gaskets. Use of solvent cement joints is allowed for building services. Solvent cement joints in PVC pipe must include use of a primer which is of contrasting color to the pipe and cement in accordance with Uniform Plumbing Code (UPC), part 605.13.2. Pipe with solvent cement joints shall be joined with PVC cement conforming to ASTM D2564. Lay all PVC pipe on a continuous granular bed. Installation must comply with ASTM D2321.
6. Cleanouts: Install cleanouts on all roof drains in accordance with S.P.S 382.35 (3)(C)(1). The distance between cleanouts in horizontal piping shall not exceed 100 feet for pipes 10-inches and under in size. Cleanouts shall be of the same nominal size as the pipes they serve. Install a meter box frame and solid lid (Neenah R-1914-A, or approved equal) over all cleanouts.
7. RCP: Reinforced concrete pipe (RCP) and fittings shall conform to ASTM C76, Design C, with circular reinforcing for the class of pipe specified. Use Class IV RCP for pipes 21" and larger. Use Class V RCP for pipes 18" and smaller. Joints shall be Bureau of Reclamation type R-4, with confined rubber "O"-ring gaskets in accordance with ASTM C361.
8. Testing: Test all portions of storm sewer that are within 10 feet of buildings, within 10 feet of buried water, lines, within 50 feet of water wells, or that pass through soil or water identified as being contaminated in accordance with UPC part 1109.0. Test all flexible storm sewer lines for deflection after the sewer line has been installed

- and backfill has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. If the test fails, make necessary repairs and retest.
9. Drain tile: Perforated under-drains shall be slotted single wall corrugated HDPE. Install drain tile with high permeability circular knit polymeric filament filter sock per ASTM D6707-01.
10. Use Neenah R-3067-DR/DL casting with curb box, or approved equal, on CB #3 and CB#4. Casting shall include the "NO DUMPING, DRAINS TO RIVER," environmental notice.
11. Use Neenah Foundry Co. R-1642 casting with self-sealing, solid, type B lid, or approved equal, on all storm sewer maintenance holes. Covers shall bear the "Storm Sewer" label.
12. Tracer Wire: Locating requirements - a means to locate buried underground exterior non metallic sewers/mains must be provided with tracer wire or other methods in order to be located in accord with the provisions of these code sections as per 182.0715(2r) of the statutes. Install detectable underground marking tape directly above all pvc, polyethylene, and other nonconductive underground utilities at a depth of 457 mm (18 inches) below finished grade, unless otherwise indicated. Bring the tape to the surface at various locations in order to provide connection points for locating underground utilities. Install green Rhino Triview Flex Test Stations, or approved equal, with black caps at each surface location.

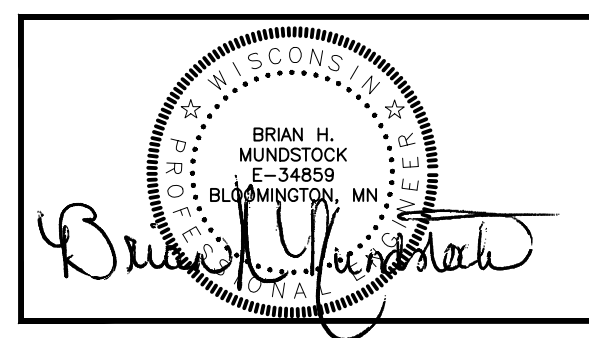
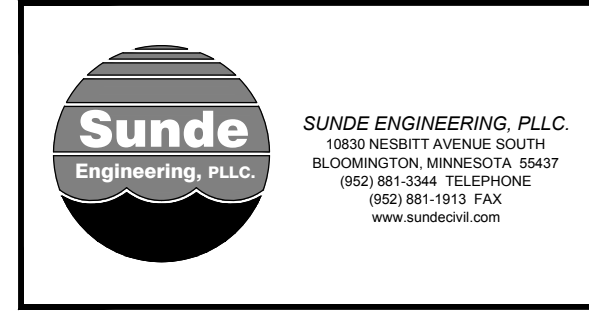
13. The minimum depth of cover for building and canopy roof drain leaders without insulation is 5 feet. Insulate roof drain leaders at locations where the depth of cover is less than 5 feet. Provide a minimum insulation thickness of 2 inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam HI-40 plastic foam insulation.
14. Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipe laying at the lowest point in the proposed sewer line. Lay the pipe with the bell end or receiving groove end of the pipe pointing up. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe. Do not lay pipes in water or when the trench conditions are unsuitable for such work.
15. Clean sediment and debris from sewers, sumps and stormwater basins prior to final owner acceptance.
16. Televis all existing lines prior to connection.

GENERAL:

1. Existing boundary, location, topographic, and utility information shown on this plan is from a field survey by Snyder and Associates, Inc. dated 09/9/17. The Engineer is not responsible for inaccuracies related to the survey information.
2. Perform all construction work in accordance with State and Local requirements.
3. Comply with all applicable local, state, and federal safety regulations. Comply with the work safety practices specified by the Occupational Safety and Health Administration (OSHA). OSHA prohibits entry into "confined spaces," such as manholes and inlets (see 29 CFR Section 1910.146), without undertaking certain specific practices and procedures. Perform excavations in accordance with the requirements of O.S.H.A. 29 CFR, Part 1926, Subpart P, Excavations. Sloping or benching for excavations greater than 20 feet deep must be approved by a registered professional engineer (www.osha.gov).
4. Safety is solely the responsibility of the Contractor, who is also solely responsible for the construction means, methods, techniques, sequences or procedures, and for safety precautions and programs in connection with the Work.
5. The Engineer shall not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work. The Engineer's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures.
6. Examine all local conditions at the site, and assume responsibility as to the grades, contours, and the character of the earth, existing conditions, and other items that may be encountered during excavation work above or below the existing grades. Review the drawings, specifications, and geotechnical report covering this work and become familiar with the anticipated site conditions.
7. Refer to the architectural plans for building and stoop dimensions, site layout and dimensions, pavement sections and details, striping, and other site features.
8. A licensed surveyor shall perform construction staking. The Contractor shall provide and be responsible for the staking. Verify all plan and detail dimensions prior to construction staking. Stake the limits of walkways and curbing prior to valvebox, maintenance hole, or catchbasin installation. Adjust valvebox and maintenance hole locations in order to avoid conflicts with curb and gutter. Adjust catchbasin locations in order to align properly with curb and gutter.
9. Provide temporary fences, barricades, coverings, and other protections in order to preserve existing items to remain, and to prevent injury or damage to person or property.
10. Provide all traffic control required in order to construct the proposed improvements. Traffic control design and associated governing approvals are the responsibility of the Contractor in compliance with the latest version of the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), and the Wisconsin Manual on Uniform Traffic Control Devices Supplement to the MUTCD.
11. Connect to existing sanitary sewer MH's by core drilling. Connect to existing storm sewer MH's by either sawcutting or coring. Use approved methods for connecting to existing utilities. Meet all City standards and specifications for the connection. Reconstruct inverts after installation. Use water stop gaskets in order to provide watertight seals when penetrating a structure wall with a pipe. Take measurements before beginning construction to ensure that service connections do not cut into maintenance access structure joints or pipe barrel joints.
12. All other existing existing sewer and watermain pipes that are to be abandoned shall either be removed, or completely filled with sand or lean mix grout.
13. The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."
14. The locations of existing utilities shown on this plan are from record information. The Engineer does not guarantee that all existing utilities are shown or, if shown, exist in the locations indicated on the plan. It is the Contractor's responsibility to ascertain the final vertical and horizontal location of all existing utilities (including water and sewer lines and appurtenances). Notify the Engineer of any discrepancies.
15. The Contractor is solely responsible for all utility locates. Contact utility companies for locations of all public and private utilities within the work area prior to beginning construction. Contact Digger's Hotline at (414) 259-1181 in the Milwaukee Metro Area, or 1-800-242-8511 elsewhere in Wisconsin for exact locations of existing utilities at least 72 hours (not including weekends and holidays) before beginning any construction. Obtain ticket number and meet with representatives of the various utilities at the site. Provide the Owner with the ticket number information. Digger's Hotline is a free service that locates municipal and utility company lines, but does not locate private utility lines. Use an independent locator service or other means in order to obtain locations of private utility lines including, but not limited to, underground electric cables, telephone, TV, and lawn sprinkler lines.
16. Pothole to verify the positions of existing underground facilities at a sufficient number of locations in order to assure that no conflict with the proposed work exists and that sufficient clearance is available.
17. Where existing gas, electric, cable, or telephone utilities conflict with the Work, coordinate the abandonment, relocation, offset, or support of the existing utilities with the appropriate local utility companies. Coordinate new gas meter and gas line installation, electric meter and electric service installation, cable service, and telephone service installation with the local utility companies.
18. Arrange for and secure suitable disposal areas off-site. Dispose of all excess soil, waste material, debris, and all materials not designated for salvage. Waste material and debris includes trees, stumps, pipe, concrete, asphaltic concrete, cans, or other waste material from the construction operations. Obtain the rights to any waste area for disposal of unsuitable or surplus material either shown or not shown on the plans. All work in disposing of such material shall be considered incidental to the work. All disposal must conform to applicable solid waste disposal permit regulations. Obtain all necessary permits at no cost to the OWNER.
19. Straight line saw-cut existing bituminous or concrete surfacing at the perimeter of pavement removal areas. Use saws that provide water to the blade. Do not allow the slurry produced by this process to be tracked outside of the immediate work area or discharged into the sewer system. Tack and match all connections to existing bituminous pavement.
20. Relocate overhead power, telephone, and cable lines as required. Seal and report any existing unused on-site wells and septic systems.
21. All materials required for this work shall be new material conforming to the requirements for class, kind, grade, size, quality, and other details specified herein or as shown on the Plans. Do not use recycled or salvaged aggregate, asphaltic pavement, crushed concrete, or scrap shingles. Unless otherwise indicated, the Contractor shall furnish all required materials.
22. Reconstruct driveways and patch street to match existing pavement section and grade. Sod right-of-way. The work area shown is general and may need to be adjusted in the field.
23. Restore the public right-of-way at temporary construction entrance locations. Replace any concrete curb and gutter, bituminous pavement, sidewalk, or vegetative cover damaged by the construction activity. Restore damaged turf with sod within the public right-of-way. The work area shown is general and may need to be adjusted in the field.
24. Protect sub grades from damage by surface water runoff.
25. When sawing or drilling concrete or masonry, use saws that provide water to the blade. Do not allow the slurry produced by this process to be tracked outside of the immediate work area or discharged into the sewer system.
26. Adjust all curb stops, valve boxes, maintenance hole castings, catchbasin castings, cleanout covers, and similar items to finished grade.
27. Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipe laying at the lowest point in the proposed sewer line. Lay the pipe with the bell end or receiving groove end of the pipe pointing up. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe. Do not lay pipes in water or when the trench conditions are unsuitable for such work.
28. Obtain and pay for all permits, tests, inspections, etc. required by agencies that have jurisdiction over the project including the NPDES permit from the State. The Contractor is responsible for all bonds, letters of credit, or cash sureties related to the work. Execute and inspect work in accordance with all local and state codes, rules, ordinances, or regulations pertaining to the particular type of work involved.
29. Obtain permits from the City for work in the public right-of-way.
30. Refer to the geotechnical report by the Soils Engineer for dewatering requirements.
31. The minimum depth of cover for building and canopy roof drain leaders without insulation is 5 feet. Insulate roof drain leaders at locations where the depth of cover is less than 5 feet. Provide a minimum insulation thickness of 2 inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam HI-40 plastic foam insulation.
32. Construct sanitary sewer, watermain, and storm sewer utilities in accordance with the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, or the latest revised edition.
33. Tracer Wire: Locating requirements - a means to locate buried underground exterior non metallic sewers/mains must be provided with tracer wire or other methods in order to be located in accord with the provisions of these code sections as per 182.0715(2r) of the statutes.
34. See architectural for building waterproofing and foundation drainage.
35. Secure and deliver to the Owner as-built information showing locations, top, and invert elevations of maintenance holes, catchbasins, cleanouts, inlet and outlet pipes, valves, hydrants, and related structures. Location ties shall be to permanent landmarks or buildings.
36. Place #3 rebar at 3' on center in all 6" thick concrete pavement locations. Place #4 rebar at 3' on center in all 8" thick concrete pavement locations.
37. Place #4 x 2'-0" tie bar at 3' on center in all concrete curb and gutter.

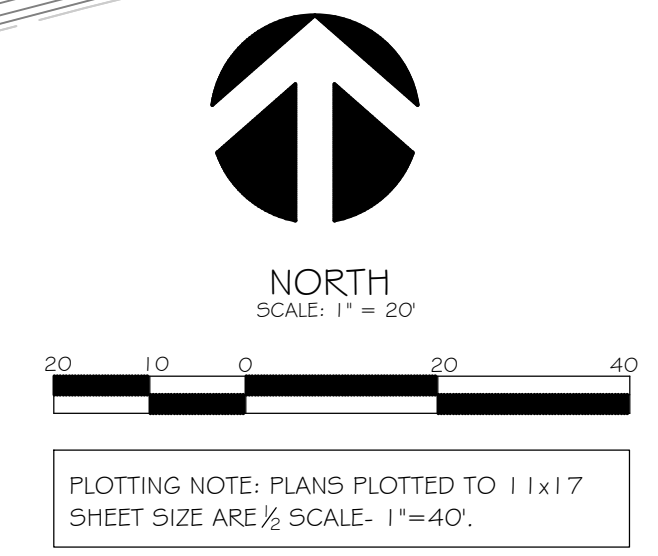
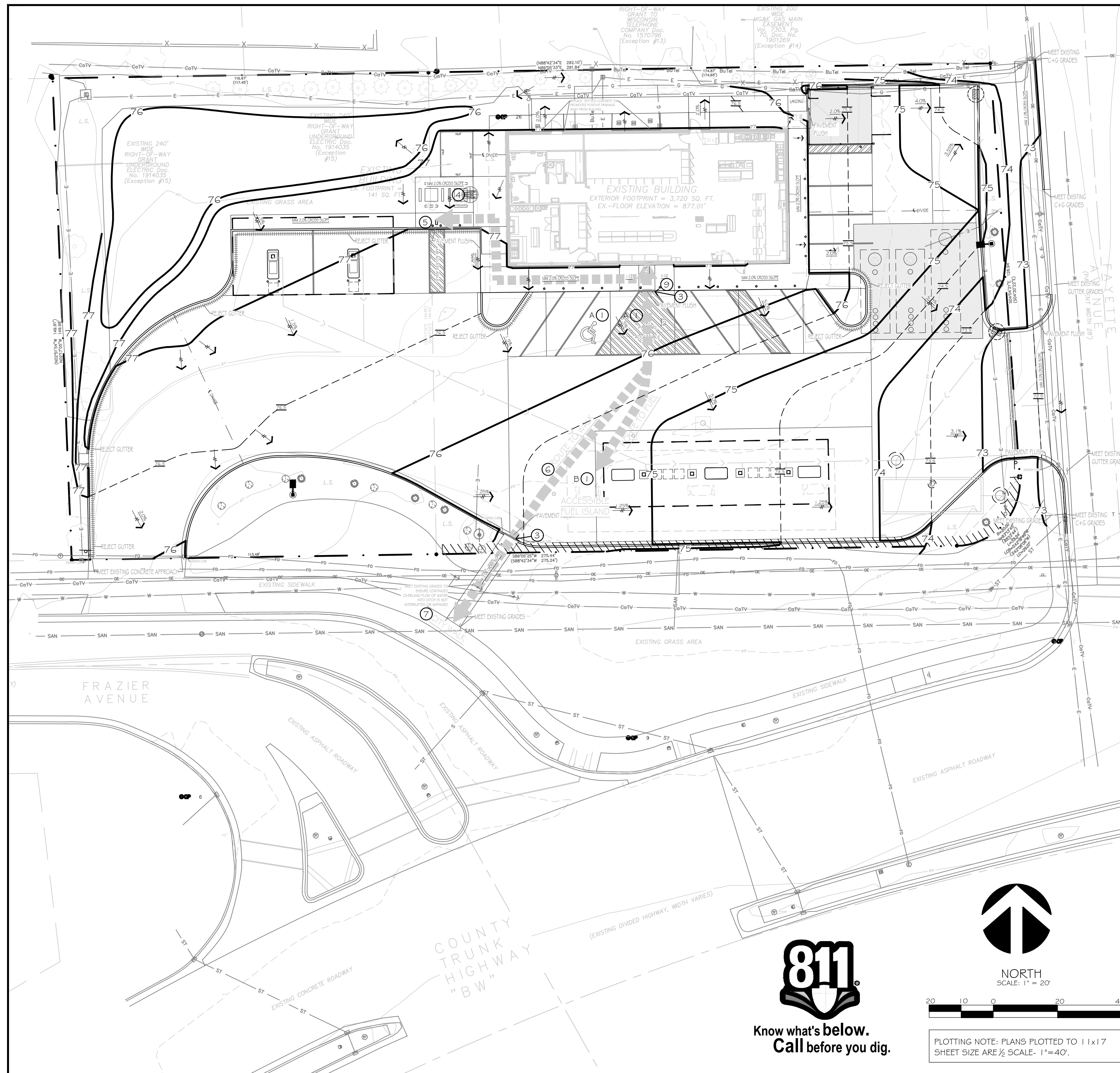


KWIK TRIP, Inc.
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FAX (608) 781-8960



STORM SEWER PLAN	CONVENIENCE STORE 965		2402 W BROADWAY MADISON, WISCONSIN	
	NO.	DATE	DESCRIPTION	
	-	8 JUNE 18	SUBMITTAL	
	-	17 JULY 18	SUBMITTAL	
-	25 JULY 18	ADD CANOPY		
DRAWN BY		GRAPHIC		
SCALE		1:7965		
PROJ. NO.		16APR2018		
DATE		18APR2018		
SHEET		SP3		

REVISED 17-05-00 R.M.B.



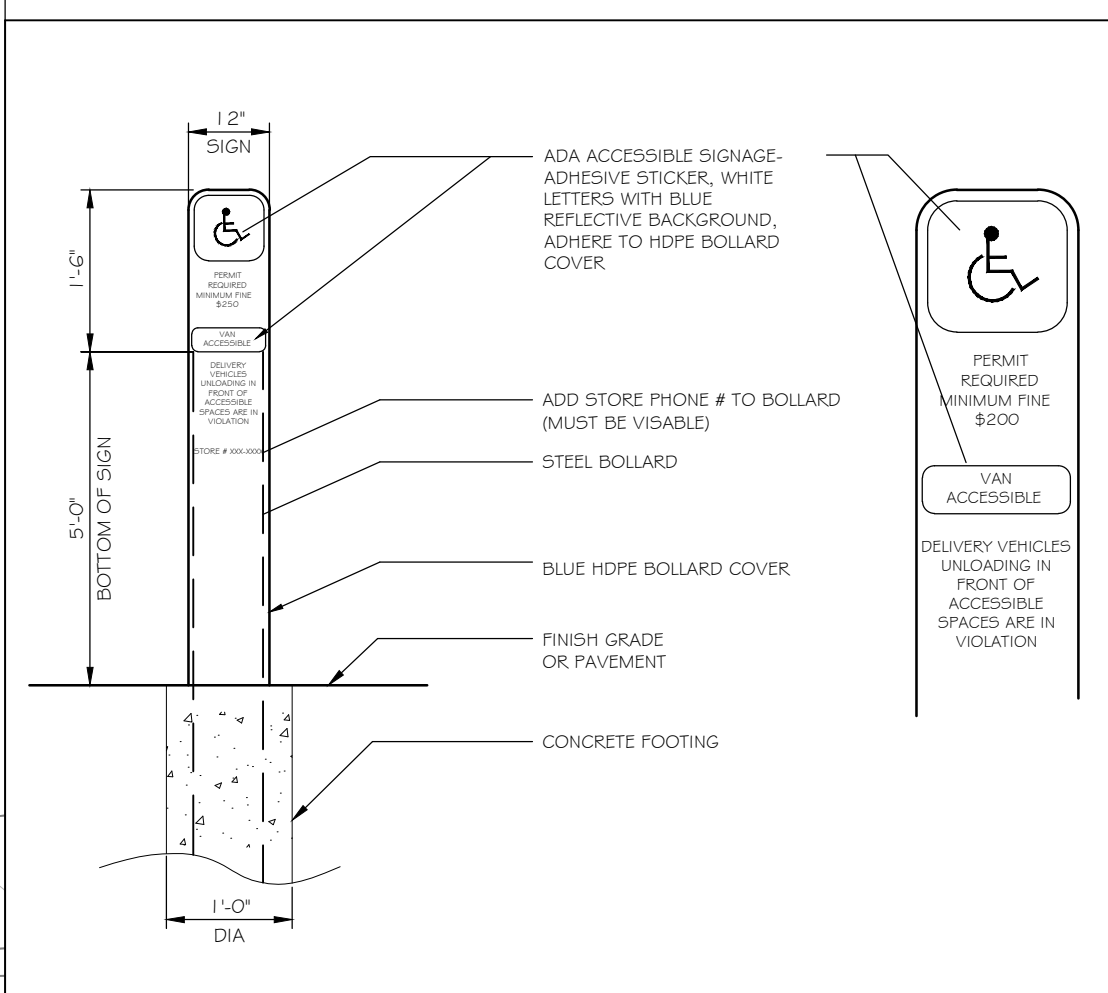
PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2" SCALE. 1"=40'.

NOTES:

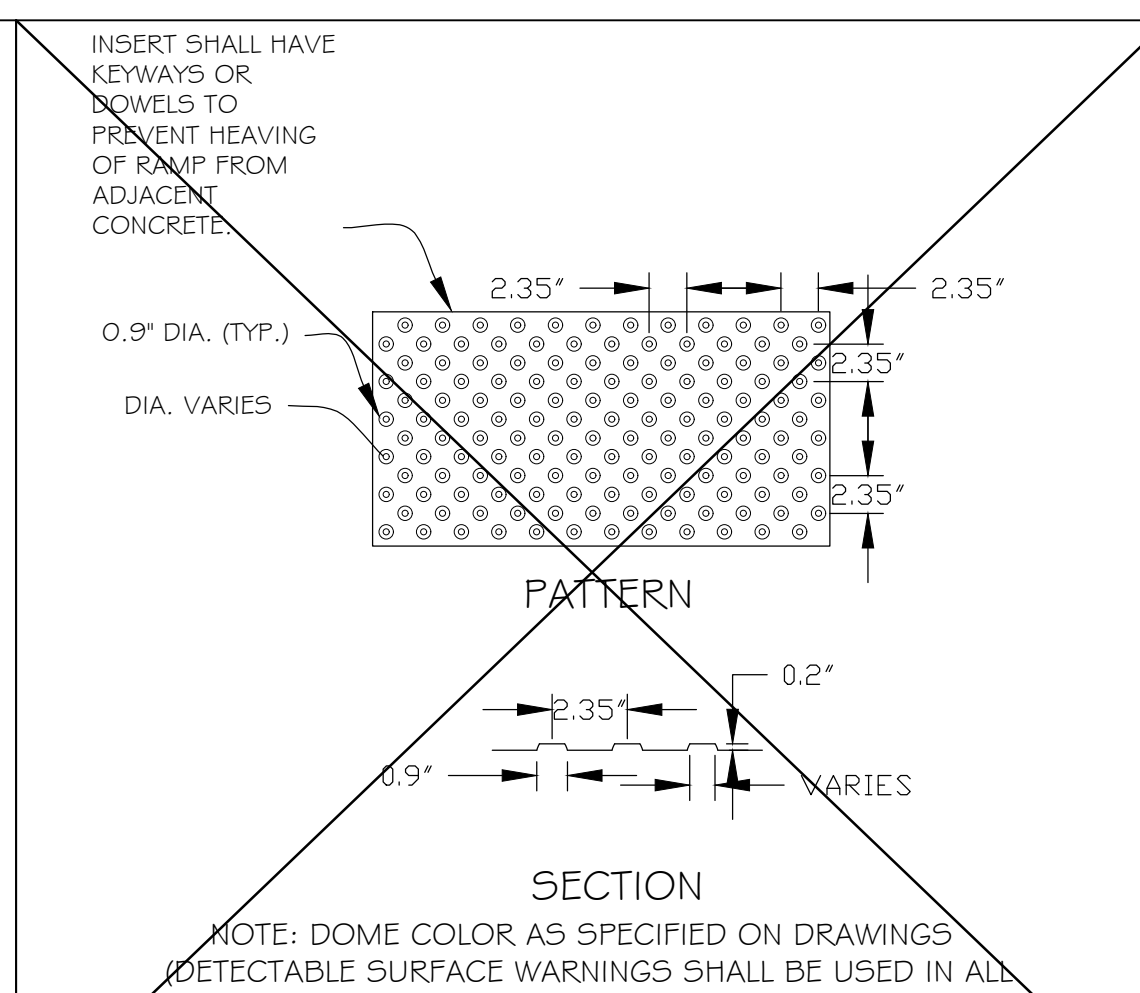
- REFER TO THE DOCUMENT FROM THE DEPARTMENT OF JUSTICE ON "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN". CONTRACTOR SHALL REFERENCE CURRENT A.D.A. GUIDELINES AND LOCAL REGULATIONS FOR SITE ACCESSIBILITY. IN ALL CASES THE MINIMUM REQUIREMENTS SHALL BE PROVIDED ON SITE TO ENSURE COMPLIANCE TO ALL REGULATIONS.
- KWIK TRIP STANDARD ENTRANCE HAS AUTOMATIC DOOR OPENER SYSTEM DESIGNED TO COMPLY WITH ALL ACCESS CODES AND LAWS. ENTRANCE DOORS FOR ACCESSIBLE ROUTES WILL HAVE A MINIMUM CLEAR OPENING OF 32"
- STORE FRONTS WILL PROVIDE FLUSH PAVEMENTS ALONG ACCESSIBLE ROUTES WITH PROTECTIVE SECURITY BOLLARDS INDICATED AND SPACED BETWEEN PARKING SURFACES AND BUILDING WALK PER PLAN.
- NO OBJECTS OR DISPLAYS SHOULD PROTRUDE INTO THE MINIMUM CLEAR SPACE OF THE ACCESSIBLE ROUTES TO THE STORE ENTRANCE. THIS WILL INCLUDE SEASONAL DISPLAY VENDING AREAS AS WELL AS OTHER OUTDOOR

STORAGE UNITS FOR PROPANE AND ICE, ETC.

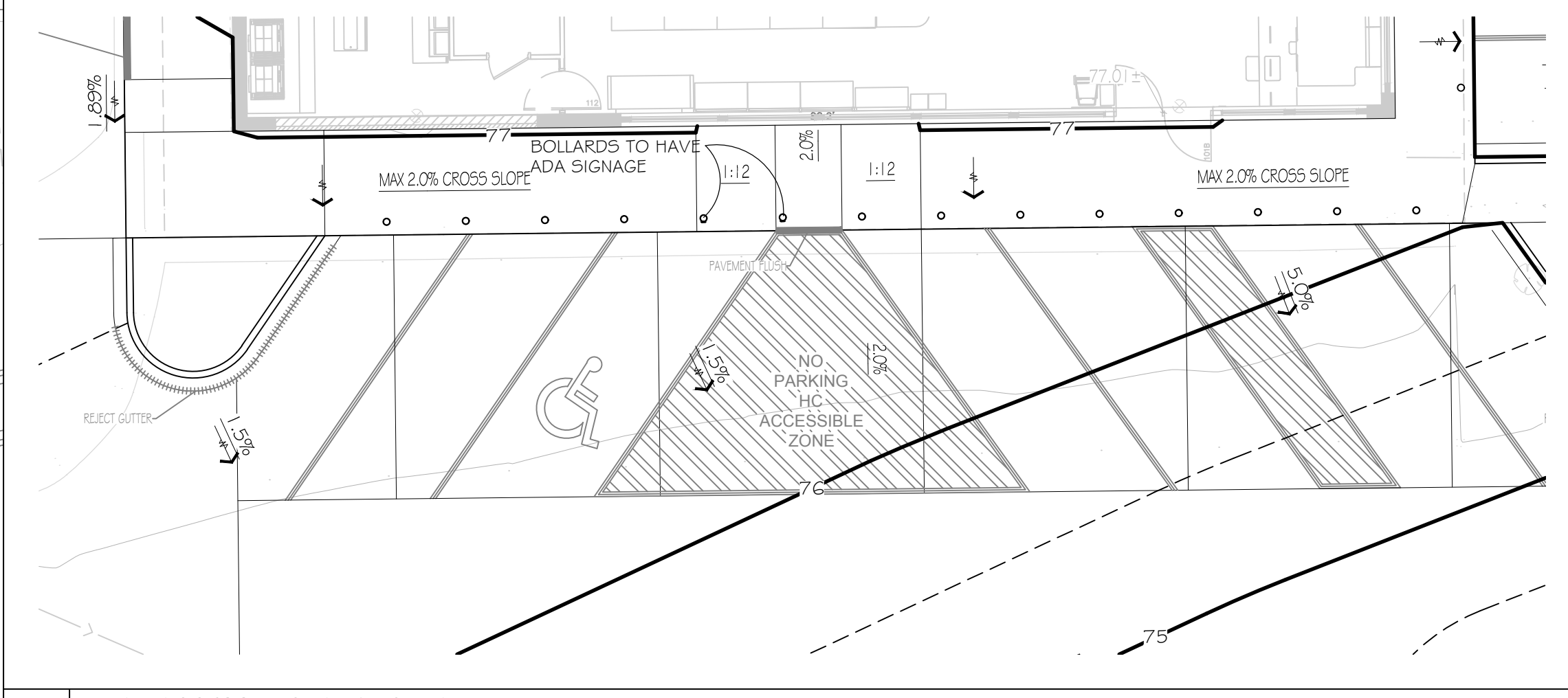
- PER A.D.A. GUIDELINES- CLEAR WIDTH OF ACCESSIBLE ROUTES SHALL BE 36" AND PERMITTED TO BE REDUCED TO 32" FOR A LENGTH OF 24".
- ACCESS ISLES SERVING WHEEL CHAIR LIFTS OR CHAIR ACCESS FROM VEHICLES ARE REQUIRED TO BE NEARLY LEVEL IN ALL DIRECTIONS TO PROVIDE SAFE TRANSFER OF WHEELCHAIRS TO AND FROM VEHICLES. THE EXCEPTION WOULD BE FOR DRAINAGE. MAXIMUM SLOPE FOR THE ACCESS ISLE IS 1:48. NO CURB RAMPS SHALL BE A PART OF THE ACCESS ISLE.
- IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY WITH THE DESIGNATION OF "VAN ACCESSIBLE" IN EVERY 8 ACCESSIBLE SPACES ON SITE.



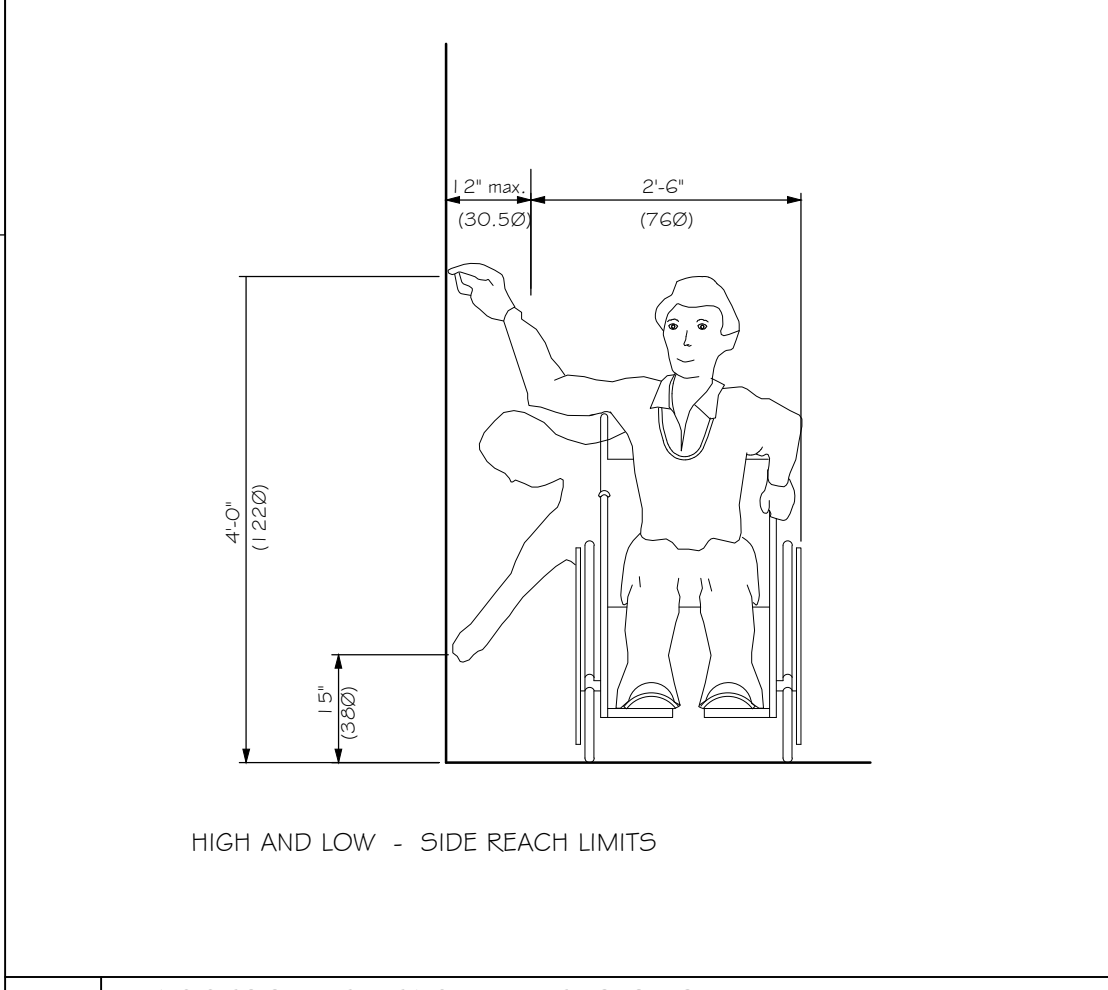
ADA BOLLARD SIGNAGE
NOT TO SCALE



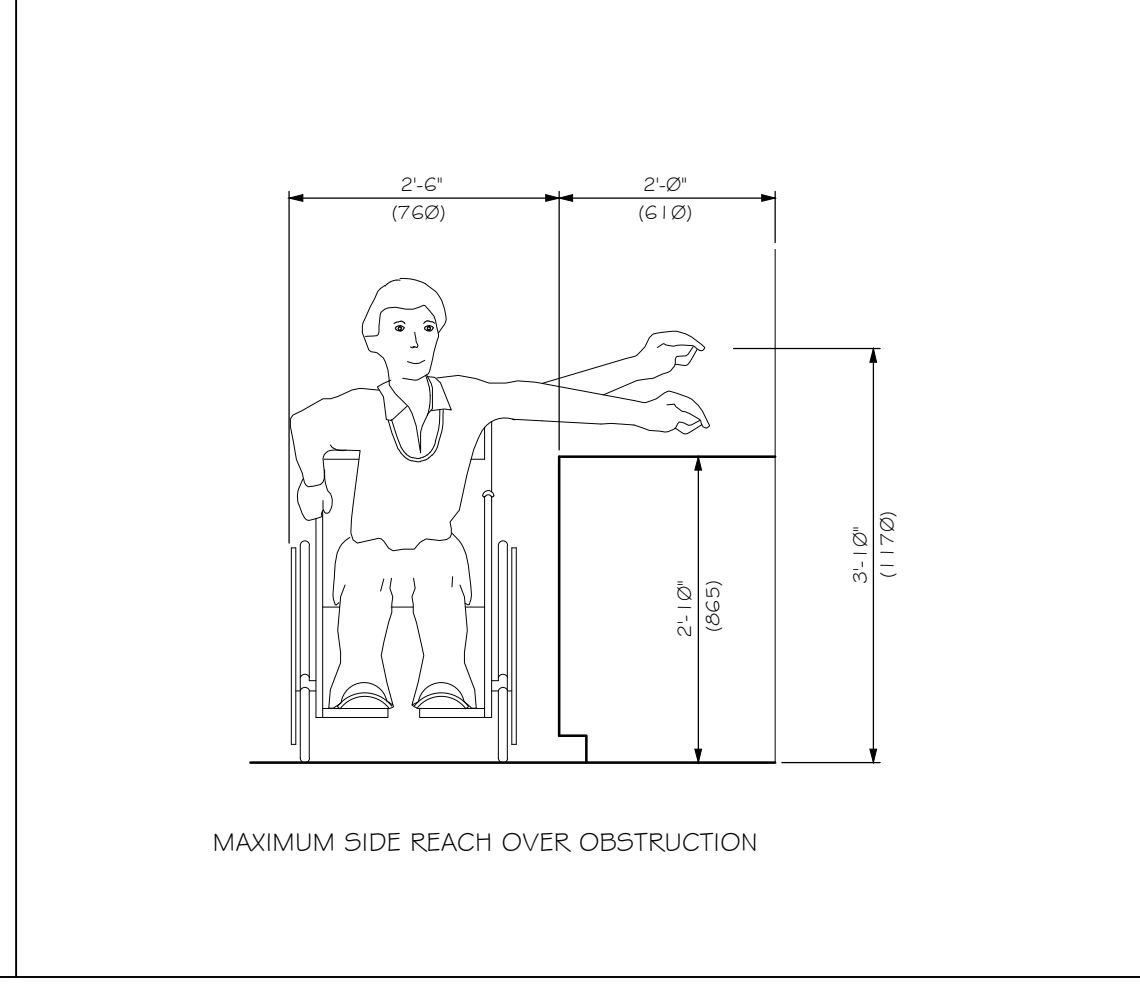
DETECTABLE WARNING INSERT (TRUNCATED DOMES)
NOT TO SCALE



VAN ACCESSIBLE PARKING PLAN
NOT TO SCALE



HIGH AND LOW - SIDE REACH LIMITS



MAXIMUM SIDE REACH OVER OBSTRUCTION

ACCESSIBLE REACH DIMENSIONS
NOT TO SCALE

PLAN KEYNOTES

- ACCESSIBLE STALLS
A. STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY BLUE PAINT (UNLESS ALTERNATE COLOR SPECIFIED BY LOCAL OR STATE CODES). SPACES PROVIDED
(1) 8'-0" x 20'-0" ACCESSIBLE PARKING WITH
(1) 8'-0" x 18'-0" LOADING ZONE
B. ACCESSIBLE FUELING POINT AND DISPENSER AND VALET. VALET AND KEY PAD ON PUMP SHALL CONFORM TO ADA REACH DIMENSIONS AS SHOWN IN DETAIL. SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY.
- TRUNCATED DOME INSERT. COLOR: BURGUNDY. DIMENSIONS OF INSERT AS DETERMINED BY PATH WIDTH TO ENSURE COMPLETE DETECTION ZONE IN LINE OF TRAVEL.
- PAVEMENTS FLUSH FOR ACCESSIBILITY.
- PICNIC TABLE W/ ACCESSIBLE PLACEMENT PROVIDE OWNER. PROVIDE TRASH CONTAINER.
- AIR INSTALLED WITH APPROPRIATED HEIGHTS. PARKING AREA SHALL MEET A.D.A. DIMENSIONS FOR ACCESS AND SURFACE FOR WHEEL CHAIR ACCESS SHALL NOT EXCEED 1:48 SLOPE IN ALL DIRECTIONS. SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY.
- ACCESSIBLE ROUTE TO STORE
- CITY SIDEWALK
- ACCESS THRU APPROACH
MAX. 2% CROSS SLOPE (1:48)
- CURB RAMP- RAMP SLOPE MAX 1:12
SIDE FLARE SLOPE MAX. 1:10

NOTES FOR CONVENIENCE STORE ACCESSIBILITY

AT LEAST 1 MPD (MULTI PRODUCT DISPENSER) COVERING ALL GRADES OF FUEL MUST BE ACCESSIBLE IN A 30'x48' CLEAR LEVEL FLOOR AREA (CLF).

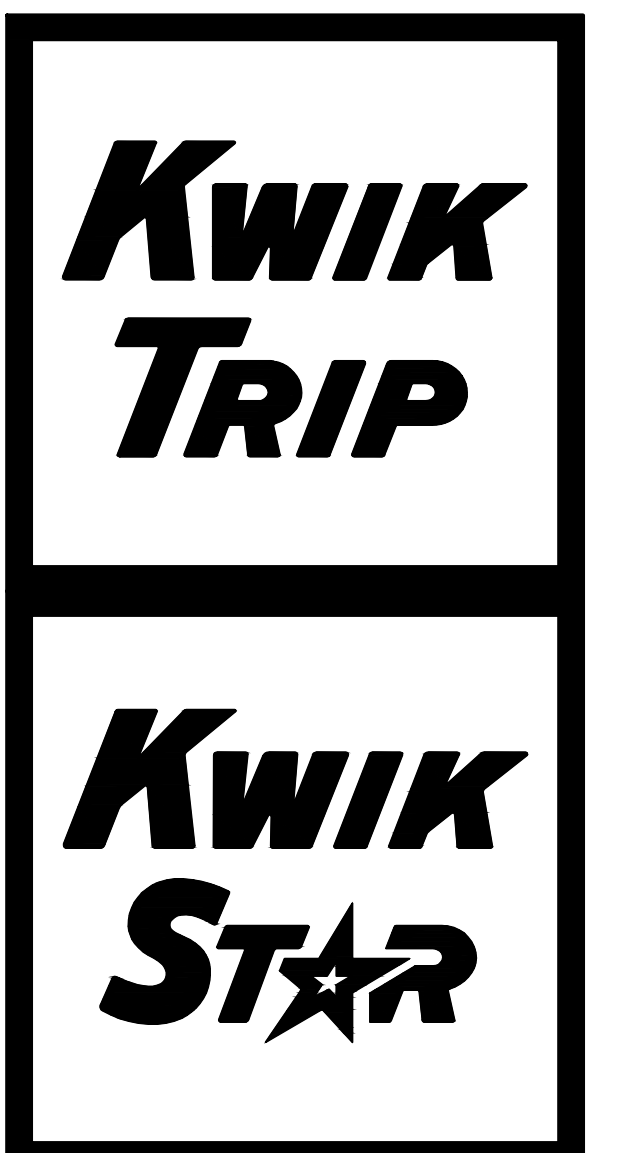
ALL PUMP CONTROLS SHALL BE < 48" (2010 STANDARD), WINDOW WASHER, PAPER TOWEL DISPENSER, LITERATURE, FIRE EXTINGUISHER, EMERGENCY FUEL STOPS, ETC. BE ACCESSIBLE 30'x48' CLF SPACE AND WITHIN A FORWARD OR SIDE APPROACH REACH RANGE.

PROVIDE (S) INDUSTRY STANDARD ARCHITECTURE) AT EACH ACCESSIBLE FUEL POSITION ON FACE OF PUMP.

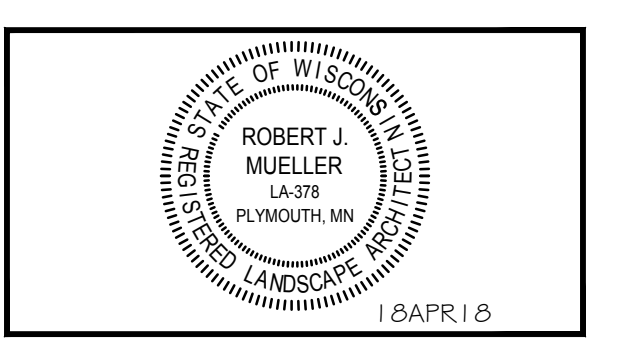
PROVIDE AT EACH ACCESSIBLE FUELING POSITION VISIBLE TO APPROACHING VEHICLES.

PROVIDE A SIGN AT EACH ACCESSIBLE FUELING POSITION WITH STORE TELEPHONE NUMBER, ADVISING AVAILABLE FUELING ASSISTANCE.

ANY PAY FUNCTION- i.e. AIR/VACUUM etc. ARE REQUIRED TO HAVE AN ACCESSIBLE ROUTE TO STORE ENTRANCE. CONTROLS SHALL BE ACCESSIBLE 30'x48' CLF SPACE AND WITHIN A FORWARD OR SIDE APPROACH REACH RANGE.



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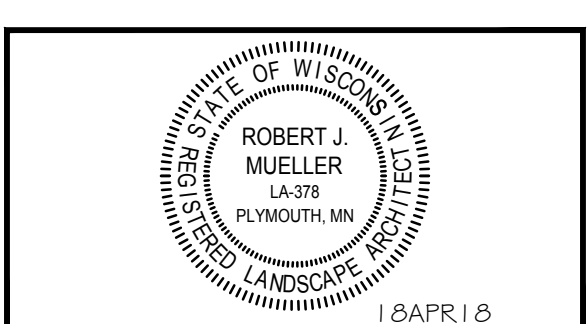
ACCESSIBILITY PLAN	CONVENIENCE STORE 965	
	2402 W BROADWAY MADISON, WISCONSIN	
	NO.	DATE
	DESCRIPTION	
-	06JUN18	SUBMITTAL
-	17JULY18	SUBMITTAL
-	25JULY18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS
DRAWN BY		GRAPHIC
SCALE		1:7965
PROJ. NO.		18APR2018
DATE		
SHEET		SPA

Kwik Trip

Kwik Star

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 P.O. BOX 2107
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 LACROSSE, WI 54602-2107
 PH. (608) 781-8988
 FAX (608) 781-8960

INSITES
 SITE PLANNING LANDSCAPE ARCHITECTURE
 3030 Harbor Lane North, STE 131
 Plymouth Minnesota 55447
 763.383.8400
 Fax 763.383.8400



EROSION CONTROL PLAN
CONVENIENCE STORE 965
2402 W BROADWAY
MADISON, WISCONSIN

NO.	DATE	DESCRIPTION
-	08JUNE18	SUBMITTAL
-	17JULY18	SUBMITTAL
-	25JULY18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

DRAWN BY: GRAPHIC
 SCALE: 1/8"=1'-0"
 PROJ. NO.: 17965
 DATE: 18APR2018
 SHEET: **SWP1**

-ALL SILT FENCE MUST BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO ANY SITE WORK.

-SITE EROSION CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES. SHOULD DEVICES BE REMOVED FOR WORK ACCESS, THEY SHALL BE REINSTALLED AT THE END OF EACH WORK DAY UNTIL PAVEMENTS HAVE BEEN INSTALLED AND ALL LANDSCAPE AREAS HAVE BEEN MULCHED AND SODDED. SEEDED AREAS MUST EXHIBIT MINIMUM OF 70% SOIL COVERAGE.

-REFER TO THE SWPPP PLAN NOTES AND DETAIL SHEETS SWPPP2-4 FOR MORE INFORMATION.

CONTACT BJORN BERG
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 LACROSSE, WI 54602
 608-791-4343

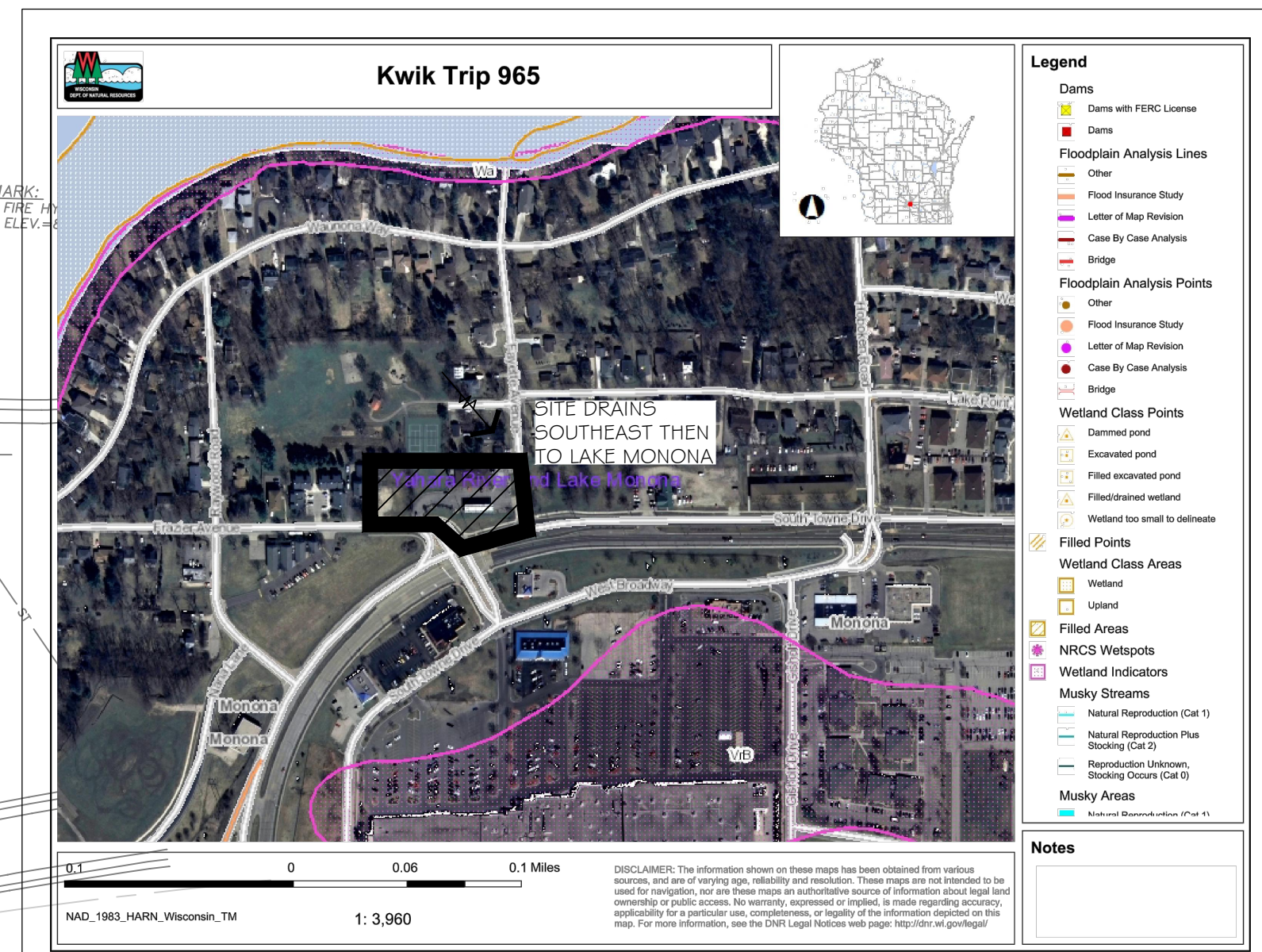
PROJECT DATA
 PROJECT START DATE: OCTOBER 2018
 PROJECT COMPLETION DATE: DECEMBER 2018
 SITE AREA DATA: 44,009 SF
 TOTAL SITE AREA: LAKE MONONA
 DOWN-STREAM TRIBUTARY: YAHARA RIVER WATERSHED

CONSTRUCTION SEQUENCE
 *INSTALL EROSION/SEDIMENT CONTROL MEASURES
 *INSTALL STORMWATER MANAGEMENT AND/OR POND/SEDIMENT BASINS
 *INSTALL STORM SEWER
 *INSTALL STRUCTURES
 *INSTALL PAVEMENTS
 *INSTALL LAWN/ LANDSCAPE
 *FLUSH STORM SEWER
 *REMOVE EROSION CONTROL MEASURES ONLY AFTER ALL PAVEMENTS HAVE BEEN INSTALLED AND ALL SOILS HAVE BEEN STABILIZED

Estimated Preliminary Erosion Control Quantities
 (actual quantities subject to change)

Item	Quantity
Rock Construction Entrance	260 sq.yd.
Silt Sack	1 (total structures to protect)
Erosion Control Blanket(basin)	--- sq.yd.
Rip Rap	-- cu. yd.
Silt Fence	447 l.f.
Rock Filtration dikes	-- l.f.
Bio Roll/erosion log	1 @ l.f.

Note: for maintenance purposes contractor shall all sufficient quantities for repair and replacement of erosion control devices throughout all phases of the projects construction.



Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin
 WDNR Official Version 1.0 (05-15-2015)

Developer: Kwik Trip #965
 Project: Madison, WI
 Date: 7/31/2018
 County: Dane

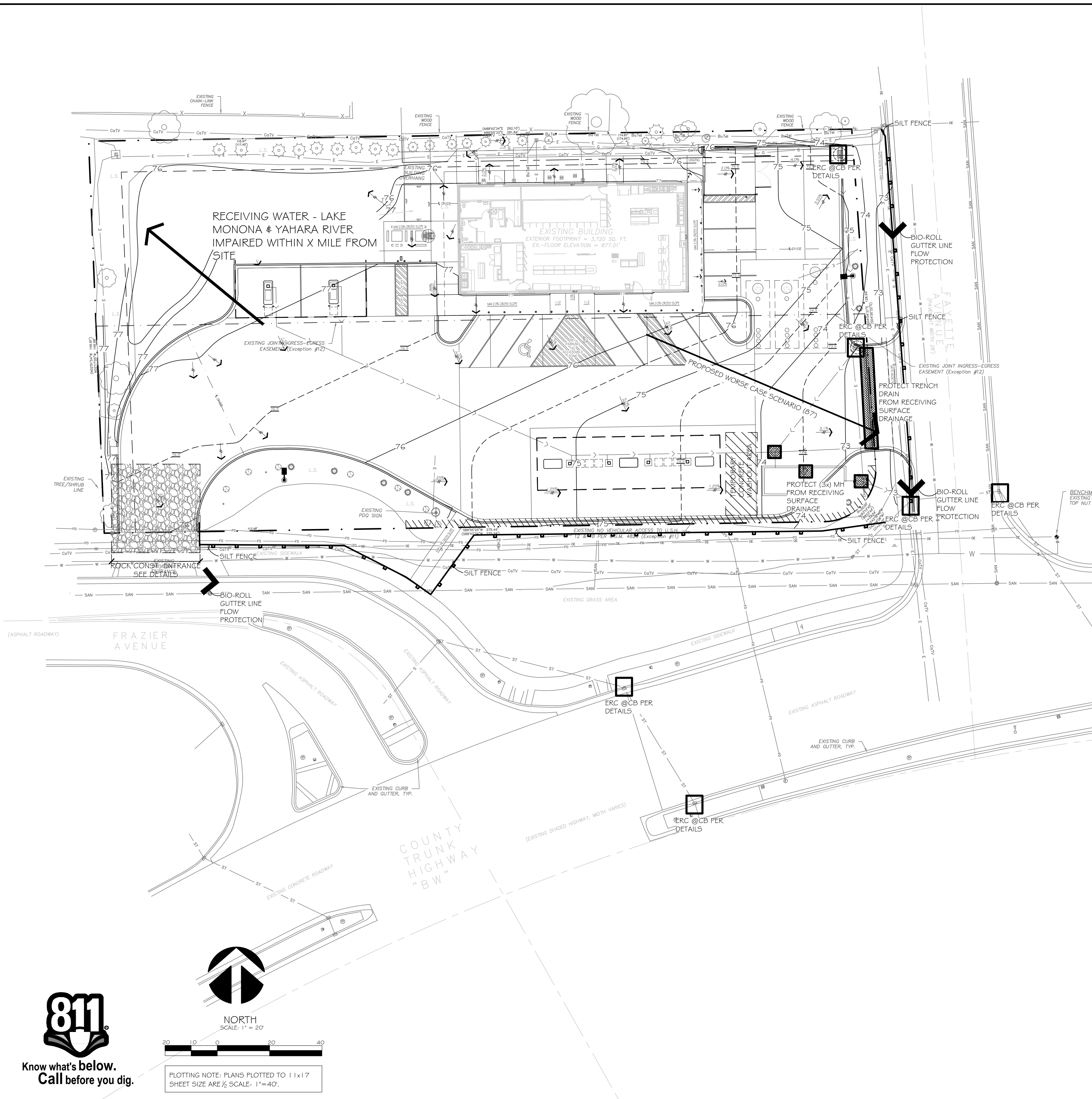
Activity	Begin Date	End Date	Period % R	Annual R Factor	Sub Soil Texture	Soil Erosibility K Factor	Slope (%)	Slope Length (feet)	LS Factor	Land Cover C Factor	Soil loss A (ton/acre)	Sediment Control Practice	Sediment Discharge (tons/acre)
Bare Ground	8/15/2018	9/11/2018	8.0%	150	Silt Loam	0.43	4.0%	95	0.39	1.00	2.0	Silt Fence	1.2
Sod	9/11/2018	11/28/2018	18.8%	150	Silt Loam	0.43	4.0%	95	0.39	0.01	0.0	Vegetative Buffer	0.0
End	11/28/2018						4.0%	95	0.39				0.0
							4.0%	95	0.39				0.0
							4.0%	0					0.0
							0.0%	0					0.0
TOTAL											2.1	TOTAL	1.2

Notes:
 See Help Page for further descriptions of variables and items in drop-down boxes.
 The soil loss (sediment) activity on each sheet must be 50%. The 12 month 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.

Recommended Permanent Seeding Dates:
 4/1-6/15 and 8/7-8/29 Turf, introduced grasses and legumes
 7/1-6/30 Native Grasses, forbs, and legumes

Reduction Required: NONE

DESIGNED BY: [Signature]
 DATE: [Date]



811
 Know what's below.
 Call before you dig.

NORTH
 SCALE: 1" = 20'
 PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2" SCALE. 1" = 40'.

17:050 PM B.S.

GENERAL STORMWATER POLLUTION PREVENTION:

Apply for and obtain all necessary permits for Construction Activity.

Stormwater Pollution Prevention Plan (SWPPP): The SWPPP includes this narrative, Plan Sheets SP3, SP3.1 and SP3.2, and the Stormwater Management Calculations. Keep a copy of the SWPPP, all changes to it, and inspections and maintenance records at the site during the construction. During the construction process the SWPPP will have to be amended for all changes performed by the contractor. The owner shall be aware of the amendments prior to changes made to the SWPPP plan. All notes, photographs, recorded dates, sketches, references, and diagrams will have to be recorded and made available as part of the SWPPP permit.

Individual(s) preparing the SWPPP for the project, overseeing implementation of the SWPPP, revising and amending the SWPPP, and at least one individual on the project performing installation, inspection, maintenance, and repairs of BMPs must be trained. The training must be done by a local, state, federal agencies; professional organization; or other entities with expertise in erosion prevention, sediment control, or permanent Stormwater management.

Responsible Parties: The contractor must designate a person knowledgeable and experienced in the application of erosion prevention and sediment control BMPs who will oversee the implementation of the SWPPP, and the installation, inspection, and maintenance of the erosion prevention and sediment control BMPs before and during construction.

The owner is responsible for identifying who will have responsibility for the long term operation and maintenance of the permanent stormwater management systems.

Owner contact:

CONTACT BJORN BERG
KWIK TRIP, INC
PO BOX 2107
LACROSSE, WI 54602
608.791.4343

SITE INVESTIGATION, INSTALLATION, IMPLIMENTATION :

- Prior to any work, contractor shall visit the site, document existing conditions as necessary (photos, notes, etc) and note existing drainage patterns on and off site that are related to the project. These notes shall be part of the SWPP.
- Install all temporary erosion and sediment control measures including silt fence, rock construction entrance(s), erosion control berms, rock filters, silt sacks, rock/earth berms, and sedimentation basins. Protect all receiving waters, catch basins, ditches, inlets etc. in and around the site. All protective and preventative measures must be in place and inspected prior to beginning site cleaning, grading, or other land-disturbing activity.
- Prior to beginning site cleaning and grading, protect all storm sewer inlets that receive runoff from disturbed areas. In order to prevent sediment from leaving the site and entering the downstream storm sewer system, seal all storm sewer inlets that are not needed for site drainage during construction. Protect all other storm sewer inlets by installing sediment control devices, such as silt sacks, or rocked filtration logs/wiers. Straw bales or fabric under the grates are not acceptable forms of inlet protection. Protect new storm sewer inlets as they are completed. Maintain storm sewer inlet protection in place until all sources with potential for discharging to the inlets are stabilized.
- Before beginning construction, install a TEMPORARY ROCK CONSTRUCTION ENTRANCE at each point where vehicles exit the construction site. When at all possible contractor shall designate only one access point for vehicles entering and exiting the site. The rock on the entrance will have to be inspected daily and replaced or rock supplemented by the contractor when over 50% of the voids in the rock are filled. A cleaning station should be made available to drivers and visibly signed as such. Provide shovels, brooms and/or hose with a wash out area so soils can be removed from vehicles on site.
- Avoid entire removal of trees and surface vegetation all at once whenever possible as this limits the amount of site susceptible to erosion. Schedule construction zones and note this on the SWPP plan in order to expose the smallest practical area of soil at any given time. Utilize vegetation removed by on site grinding and mulching and using this material to protect the soil from erosion.

- Following initial soil disturbance or re-disturbance, complete permanent or temporary stabilization against erosion due to rain, wind, and running water within 7 calendar days on all disturbed or graded areas. This requirement does not apply to those areas that are currently being used for material storage on a daily basis or for those areas on which grading, site building, or other construction activities are actively underway. Provide temporary cover on all stacked topsoil piles, and other areas of stockpiled excavated material in order to prevent soil erosion and rapid runoff during the construction period. Stockpiles can be mulched, covered with poly or fabric, and or seeded during prolonged exposure. Prolonged periods of open, bare earth without grass cover will not be permitted. Stabilize all disturbed greenspace areas with a minimum of 4" topsoil immediately after final subgrade completion. Seed and mulch, or sod and protect these areas within 48 hours after completion of final grading work (weather permitting). Stabilize all disturbed areas to be paved using early application of gravel base. Stabilize the normal wetted perimeter of any temporary or permanent drainage ditch that conveys water from the construction site, or diverts water around the construction site, within 200 lineal feet from the property edge, or within 200 feet from the point of discharge to any surface water. Stabilize temporary or permanent drainage ditches within 24 hours of connecting to a surface water. Protect outfalls minimum of 200feet down stream and to the side of the discharge point. Additional settling 'pots' achieved by filter logs or filtered stick bales staked in the channel will dissipate the water energy. Provide pipe outlets with temporary or permanent energy dissipation within 24 hours of connection to a surface water.

- Receiving Waters - It is the contractor's responsibility to inspect the site discharge point as well as downstream to the receiving body of water (pond, lake, stream, etc.) on a regular basis including after each storm event and document if any differences or changes in normal in discharge and if material is leaving the construction site. If so it shall be documented and removed immediately.

NOTE: ALL EROSION AND SEDIMENT CONTROL DEVICES WILL BE CHECKED BY THE CONTRACTOR AFTER EACH STORM EVENT AND BE MAINTAINED, OR IMPROVED UPON AFTER EVERY STORM EVENT TO ENSURE ADEQUATE PERFORMANCE.

POLLUTION CONTROL:

- Designate a Concrete Wash-out and truck wash area:
 - Make it visible in the field to vehicle operators and note this on the SWPPP plan.
 - a. When washouts occur on the site, concrete washout water must be contained in a leak-proof containment facility or impermeable liner. Liquid and solid wastes may not touch the ground and there must not be runoff from the concrete washout operations or areas.
 - b. On sites where Concrete Washout areas are not feasible as shown on the Detail Sheet, above ground methods and/or off-site methods can be utilized as approved by Owner.
 - c. Concrete washout may be provided off-site by Concrete Contractor or Concrete Supplier, at an approved washout disposal area. Concrete Supplier may provide Concrete Washout Areas on-board their transports for disposal off-site. Concrete Contractor shall verify with Supplier in regards to provided Concrete Washout areas on and off-site, as necessary.
 - d. Limit external washing of trucks and other construction vehicles to a defined area preferably before the construction access/exit point. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device. Contain runoff and properly dispose of waste. Engine degreasing is prohibited.
- Solid Waste: Properly dispose of collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris, and other wastes in compliance with State requirements.
- Hazardous Materials: Properly dispose of all waste and unused building materials (including garbage debris, cleaning wastes, oil, gasoline, paint, wastewater, toxic materials, and hazardous materials) off-site. Do not allow waste and unused building materials to be carried by runoff into a receiving channel or storm sewer system. Properly store oil, gasoline, paint, and other hazardous materials in order to prevent spills, leaks, or other discharge. Include secondary containment. Restrict access to storage areas in order to prevent vandalism. Storage and disposal of hazardous materials must be in compliance with regulations.
- Machinery: and mechanized equipment that leaks waste shall have a protective barrier or containment under the device adequate to contain the waste. Properly dispose of the waste.
- Emergency spill station: Contractor shall locate and sign an emergency spill station that has necessary containment or cleanup devices for all workers to access.

EROSION CONTROL :

Apply necessary moisture to the construction area and haul roads to prevent the spread of dust.

Contractor shall utilize coarsely ground wood and tree mulches to cover exposed soils. Mulches shall be stored on site to supplement and use in problem areas during all phases of the construction project.

Contractor shall uses star tack or other organic substances in situations to prevent soil from eroding away by wind or rain.

Whenever possible contractor shall grade areas of soil to limit potential of erosion, to include tracking perpendicular to fall line of grades as well as diverting water flows from problematic areas on the site.

Seeding, fiber blankets, poly/tarps or cover mulches, disked mulches and compost can be used to cover temporarily exposed areas from wind and rain. Other methods by the contractor shall be documented in the SWPP.

SEDIMENT CONTROL :

Inlet Sediment Control Protection Devices:
The following area approved Inlet Sediment Control Devices:

a. Road Drain Top Slab Model RD 23 (fits rough opening for 2'x3' inlet), Road Drain Top Slab Model RD 27 (fits rough opening for 27" inlet), or Road Drain Top Slab Model CG 3067 (fits Neenah Casting with 35-1/4"x17-3/4" dimensions) manufactured by: WMCO
799 Thess Drive
Shakopee, MN, 55379
Phone (952) 233-3055
or approved equal

b. Silt Sack manufactured by:
ACF ENVIRONMENTAL
2931 Carlisle Road
Richmond, VA, 23234
Phone (800) 448-3636
or approved equal

c. InfraSafe Sediment Control Barrier. Install geotextile sock on the outside of the barrier in order to trap additional fines. Standard frames are available to fit 24" to 30" diameter and 2'x3' openings.
Distributed by:
ROYAL ENTERPRISES AMERICA
30622 Forest Boulevard
Shakoy, MN, 55079
Phone (651) 462-2130
or approved equal

d. Ridge Bag Rock Log. Use rock logs only for curb inlets after pavement is in place.
Manufactured by RED BARN RIDGE, 3135
County Road 136, Saint Cloud, MN, 55301
Phone (320) 253-3744
or approved equal

e. Inflatable drain plugs by Interstate Products www.interstateproducts.com or approved equal

Rprap:

Place a 450 mm (18 inch) thick layer of nprap onto a 225 mm (9 inch) thick layer of granular filter material at locations indicated on the plan in accordance with WIDOT Specification 606. Install two layers of medium duty Geotextile fabric (WIDOT HR, section G45.3.7) beneath the granular filter material. At pipe outfalls configure the installation as shown on detail sheet for the size of pipe indicated and extend the geotextile fabric under the culvert apron a minimum of 3 feet. For pipe sizes smaller than 300 mm (12 inch) diameter, the minimum quantity of nprap and filter blanket shall be no less than that required for 300 mm (12 inch) diameter pipes.

Silt Fence:

Install and maintain per WIDNR Conservation Practice Standard 1056.

Install silt fence along the contour (on a level horizontal plane) with the ends turned up (J-hooks) in order to help pond water behind the fence. Install the silt fence on the uphill side of the support posts. Provide a post spacing of 1.2 m (4 feet) or less. Drive posts at least 0.6 m (2 feet) into the ground. Anchor the silt fence fabric in a trench at least 152 mm (6 inches) deep and 152 mm (6 inches) wide dug on the upslope side of the support posts. Lay the fabric in the trench and then backfill and compact with a vibratory plate compactor. Make any splices in the fabric at a fence post. At splices, overlap the fabric at least 152 mm (6 inches), fold it over, and securely fasten it to the fence post. Silt fence supporting posts shall be 51 mm (2 inch) square or larger hardwood, pine, or standard T- or U-section steel posts. T- or U-section steel posts shall weigh not less than 1.8602 kg per meter (1.25 lb per lineal foot). Posts shall have a minimum length of 1524 mm (5 feet). Posts shall have projections to facilitate fastening the fabric and prevent slippage. Geotextile fabric shall meet the requirements of WIDOT Standard Specification G28 for preassembled silt fence, furnished in a continuous roll in order to avoid splices. Geotextile fabric shall be uniform in texture and appearance and have no defects, flaws, or tears. The fabric shall contain sufficient ultraviolet (UV) ray inhibitor and stabilizers to provide a minimum two-year service life outdoors. Fabric color shall be international orange. In high traffic areas contractor shall reinforce silt fence with wire fencing and metal posts. extreme circumstances will require temporary concrete median sections to support material backing of stock piled soil or filled earth.

Install siltfence, or other effective sediment controls, around all temporary soil stockpiles. Locate soil or dirt stockpiles containing more than 10 cubic yards of material such that the downslope drainage length is no less than 8 m (25 feet) from the toe of the pile to a roadway or drainage channel. If remaining for more than seven days, stabilize the stockpiles by mulching, vegetative cover, tarps, or other means. Control erosion from all stockpiles by placing silt fence barriers around the piles. During street repair, cover construction soil or dirt stockpiles located closer than 8 m (25 feet) to a roadway or drainage channel with tarps, and protect storm sewer inlets with silt sacks or staked siltfence. Do not stock pile soil or material near catch basins or drainage ways.

Stone Tracking Pad (Temporary Rock Construction Entrance):

Install and maintain per WIDNR Conservation Practice Standard 1057. Use 3inch to 6" diameter rock. Place the aggregate in a layer at least 300 mm (12 inches) thick across the entire width of the entrance. Extend the rock entrance at least 15 m (50 feet) into the construction zone. Use a WIDOT Type R permeable geotextile fabric material beneath the aggregate in order to prevent migration of soil into the rock from below. Maintain the entrance in a condition that will prevent tracking or flowing of sediment onto paved roadways. Provide periodic top dressing with additional stone as required. Close entrances not protected by temporary rock construction entrances to all construction traffic.

Temporary Sediment Basins

In the construction process or if noted on the plan the contractor shall construct temporary sediment basin(s). As per general rule the sediment basin shall be sized appropriately to a capacity related to the drainage area on a ratio of 3,600 cubic feet per acre of drainage zone entering the basin. Basins shall be inspected after every rainfall event, material removed and stabilized. If changes to the basin are made, document and amend the SWPPP plan.

DEWATERING :

If dewatering is required and sump pumps are used, all pumped water must be discharged through an erosion control facility (temporary sedimentation basin, grit chamber, sand filter, upflow chamber, hydro-cyclone, swirl concentrator, dewatering bag or other appropriate facility) prior to leaving the construction site. Proper energy dissipation must be provided at the outlet of the pump system. Discharge clear water only. To achieve better separation of the material suspended in the water a biodegradable non toxic flocculant agent may be required.

For more information and materials go to by Interstate Products www.interstateproducts.com

INSPECTIONS-MAINTENANCE-DAILY RECORD-AMEND THE SWPP PLAN

- Contractor shall inspect all erosion and sediment control devices, stabilized areas, and infiltration areas on a daily basis until land-disturbing activity has ceased. Thereafter, inspect at least on a weekly basis until vegetative cover is established. Inspect all erosion and sediment control devices, stabilized areas, and infiltration areas within 24 hours after a rainfall event greater than 0.5 inches in 24 hours. Remove accumulated sediment deposits from behind erosion and sediment control devices as needed. Do not allow sediment to accumulate to a depth of more than one-third of the height of the erosion and sediment control devices. Immediately replace deteriorated, damaged, rotted, or missing erosion control devices. Document inspections and dates of rainfall events. Maintain a written log of all inspection, maintenance, and repair activities related to erosion and sediment control facilities. All nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs within 24 hours after discovery, or as soon as field conditions allow access.
- All inspections and maintenance activities must be recorded in writing DAILY in a detailed record (notes, photographs, sketches, etc., and kept with the SWPPP by the contractor.
- Contractor shall remove all soils and sediments tracked or otherwise deposited onto adjacent property, pavement areas, sidewalks, streets, and alleys. Removal shall be on a daily basis throughout the duration of the construction and/or as directed by the City. Clean paved roadways by shoveling or wet-sweeping. Do not dry sweep. If necessary, scrape paved surfaces in order to loosen compacted sediment material prior to sweeping. Haul sediment material to a suitable disposal area. Street washing is allowed only after sediment has been removed by shoveling or sweeping.
- All soil hauled from the site shall be accounted for and documented in the SWPP by the contractor. Its final destination and how the soil has been stored and stabilized.
- Contractor shall maintain all temporary erosion and sediment control devices in place until the contributing drainage area has been stabilized (hard-surfaced areas paved and vegetation established in greenspace). Repair any rilling, gully formation, or washouts. After final establishment of permanent stabilization, remove all temporary synthetic, structural, and non-biodegradable erosion and sediment control devices and any accumulated sediments. Dispose-of off site. Restore permanent sedimentation basins to their design condition immediately following stabilization of the site.
- Contractor shall clean sedimentation basins, storm sewer catchbasins, ditches, and other drainage facilities as required in order to maintain their effectiveness. Temporary and permanent sedimentation basins must be drained and the sediment removed when the depth of sediment collected in the basin reaches 1/2 of the storage volume. Drainage and removal must be completed within 72 hours, or as soon as field conditons allow access.
- Contractor shall inspect infiltration areas to ensure that no sediment from ongoing construction activities is accumulating. Remove sediment immediately ensuring subsoils are not compacted by machinery.
- Every vehicle shall not track material off-site. Clean the wheels of construction vehicles in order to remove soils before the vehicles leave the construction site. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device.
- Contractor shall reinforce erosion control facilities in areas where concentrated flows occur (such as swales, ditches, and areas in front of culverts and catchbasins) by backing them with snow fence, wire mesh, or stiff plastic mesh reinforcement until paving and turf establishment operations have been completed. Posts for the reinforcing fence shall be 100 mm (4 inch) diameter wood posts, or standard steel fence posts weighing not less than 0.59 kg (1.3 lbs) per lineal foot, with a minimum length of 762 mm (30 inches) plus burial depth. Space posts for the reinforcing fence at intervals of 3 m (10 feet) or less. Drive posts for the reinforcing fence at least 0.6 m (2 feet) into the ground.

**GENERAL SOIL STABILIZATION :
(SEE LANDSCAPE PLAN FOR MORE INFORMATION)**

Establishment of lawn, prairie/wildflower and/or plant bed areas will be noted on the landscape plan

to ensure stabilization of soils, restaking of sod where applicable, proper watering and mulch maintenance will be required. Inspect seeded or sodded areas on a timely day-to-day basis. In the event of a seeding failure, reseed and remulch the areas where the original seed has failed to grow and perform additional watering as necessary at no additional cost to the Owner. Special maintenance provisions for wild and prairie grass seeded areas as noted in the landscape plan. Promptly replace all sod that dries out to the point where it is presumed dead and all sod that has been damaged, displaced, weakened, or heavily infested with weeds at no additional cost to the Owner. .

In areas to be temporarily seeded, use introduced seed mixture equivalent to WIDOT #10 or #20. Apply seed mixture per WIDOT G30.3.3.5. Incorporate a fertilizer (slow release type with 10 week residual) consisting of 23-0-30 (%N-P-K) into the soil at an application rate of 224 kg per hectare (200 lbs per acre) by diskng prior to seeding. In problematic areas it may be necessary to use a low phosphorus organic fertilizer in cases where seeds may not germinate. If this is the case, seed and fertilizer shall be disked into the surface and mulched properly to ensure germination and uptake of the Phosphorus by the seed.

To ensure adequate germination of the seed the work will be performed as follows:

Spring- from April 1 through May 15.

Fall- from August 15 to September 20.

After September 20, wait until October 30 to perform dormant seeding. Dormant seeding will only be allowed if the maximum soil temperature at a depth of 25 mm (1 inch) does not exceed 4.44 degrees C (40 degrees F) in order to prevent germination.

In seeded areas with slopes steeper than 3:1 and lengths less than 15 meters (50 feet), install biodegradable erosion control blankets uniformly over the soil surface by hand within 24 hours after seeding in accordance with manufacturers recommendations. Use WIDOT Urban Type B or owner approved equal.

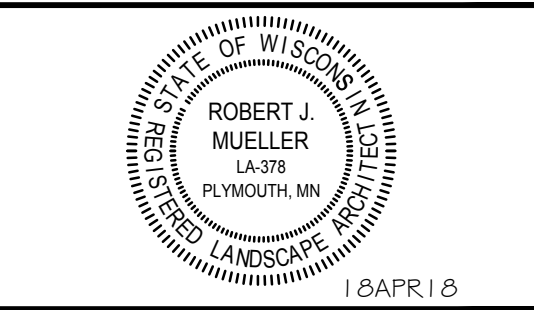
In areas where irrigation is to be installed, contractor shall work in zones to finish grade and install the system in zones. Note- Erosion control measures shall remain in place until soils have been stabilized with sod or seeded areas that exhibit minimum of 70% lawn vegetative coverage. If silt fence has to be removed to install the irrigation system, it shall be reinstalled at the end of each work day or use bio rolls to provide protection during the installation process until lawn areas have sod and/or plant beds are mulched.

In areas to be sodded, silt fence can be removed short term for working, but exposed soil areas shall be sodded or erosion control measures shall be reinstalled at the end of each work day.

NOTE: THE PROJECT'S LANDSCAPE PLAN IS PART OF THE SWPP FOR SOIL STABILIZATION. REFERENCES SHALL BE MADE TO THE APPROVED LANDSCAPE PLAN. AMENDMENTS TO THE LANDSCAPE PLAN SHALL BE APPROVED BY THE OWENER AND DOCUMENTED AS PART OF THE SWPP



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EROSION CONTROL NOTES
CONVENIENCE STORE 965
2402 W BROADWAY
MADISON, WISCONSIN

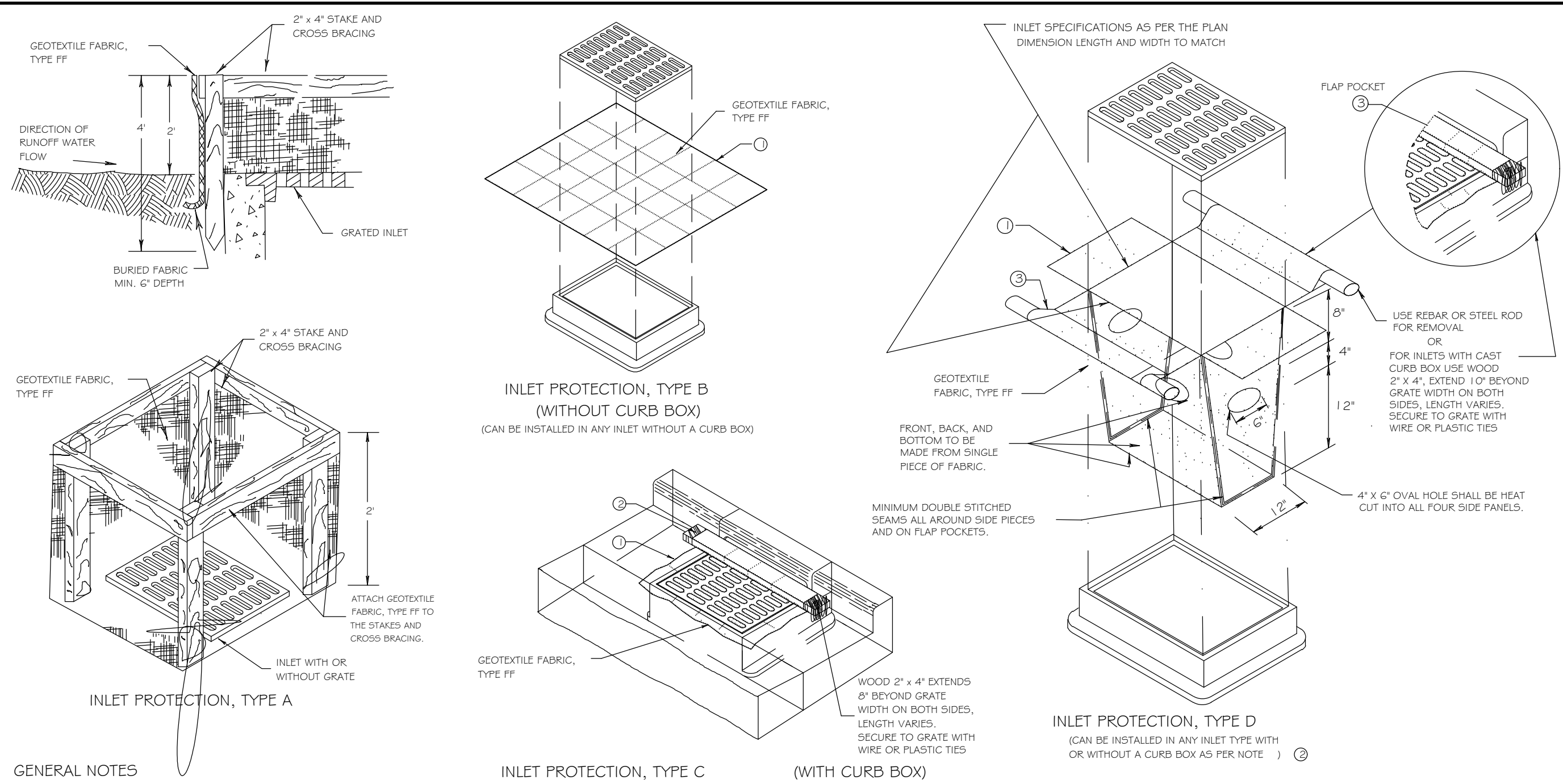
NO.	DATE	DESCRIPTION
-	8JUNE18	SUBMITTAL
-	17JULY18	SUBMITTAL
-	25JULY18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	17965
DATE	18APR2018
SHEET	SWP2

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ALL EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED PER WDNR STANDARDS

<http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm>



GENERAL NOTES

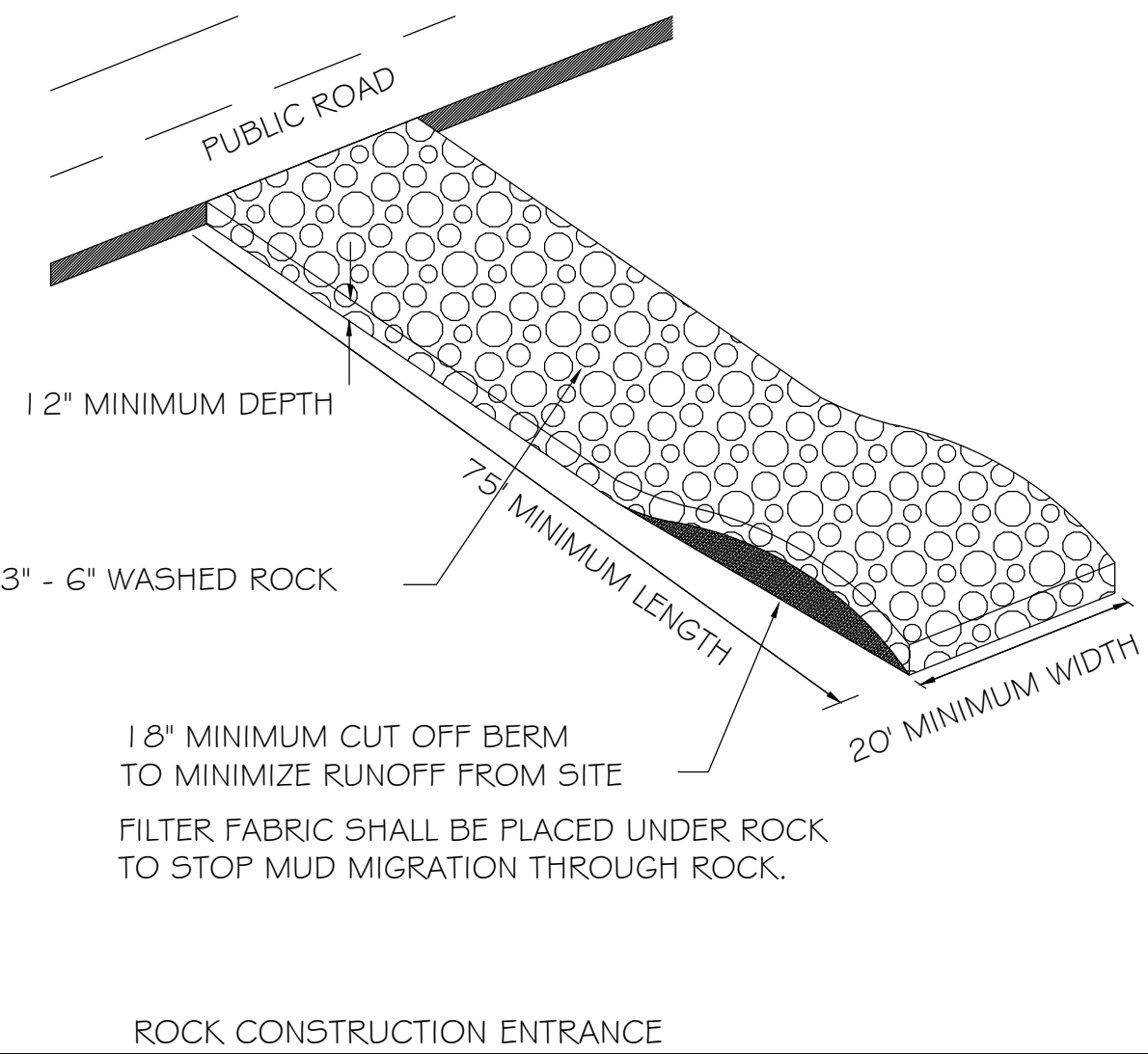
- MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
- FINISHED SIDE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10' AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

INSTALLATION NOTES

- TYPE B & C**
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLES OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
- TYPE D**
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CATCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MINIMUM OF 4" FROM THE BOTTOM OF THE BAG.

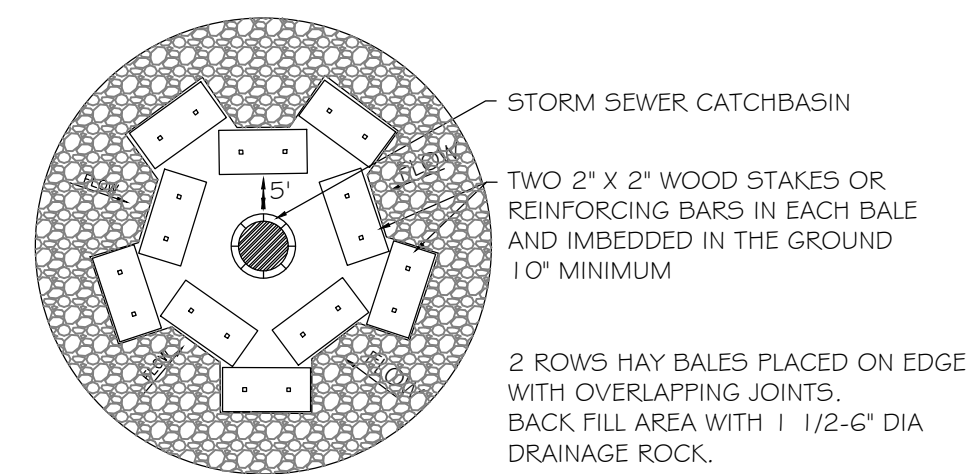
This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 10-2.

INLET PROTECTION TYPE A, B, C, AND D

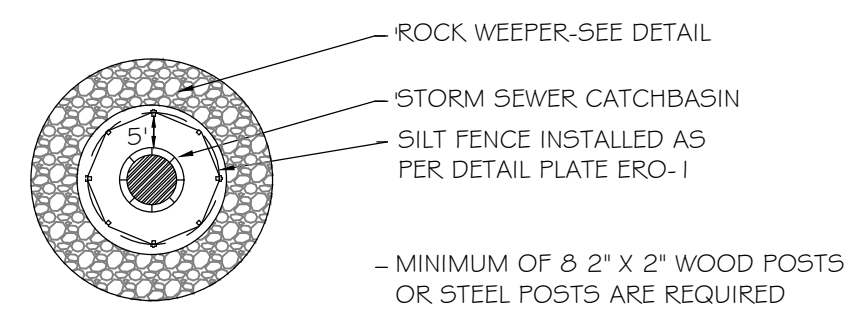


ROCK CONSTRUCTION ENTRANCE

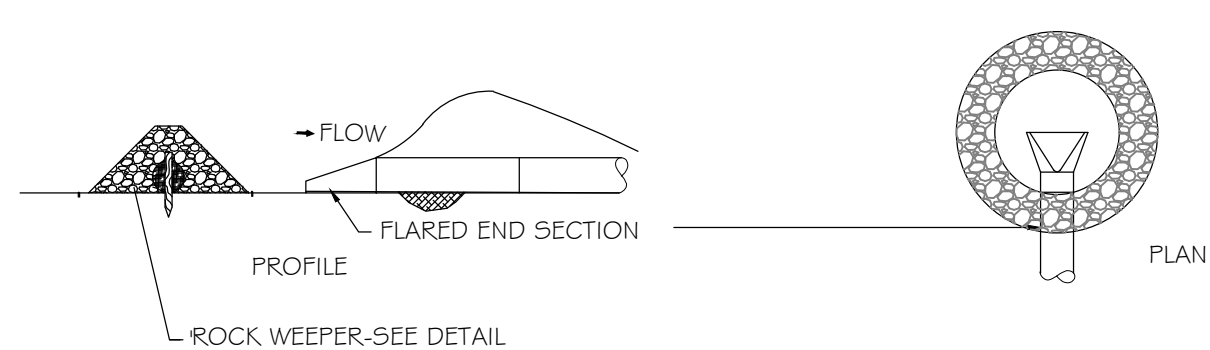
OPTION 1 - HAYBALES AROUND BEEHIVE



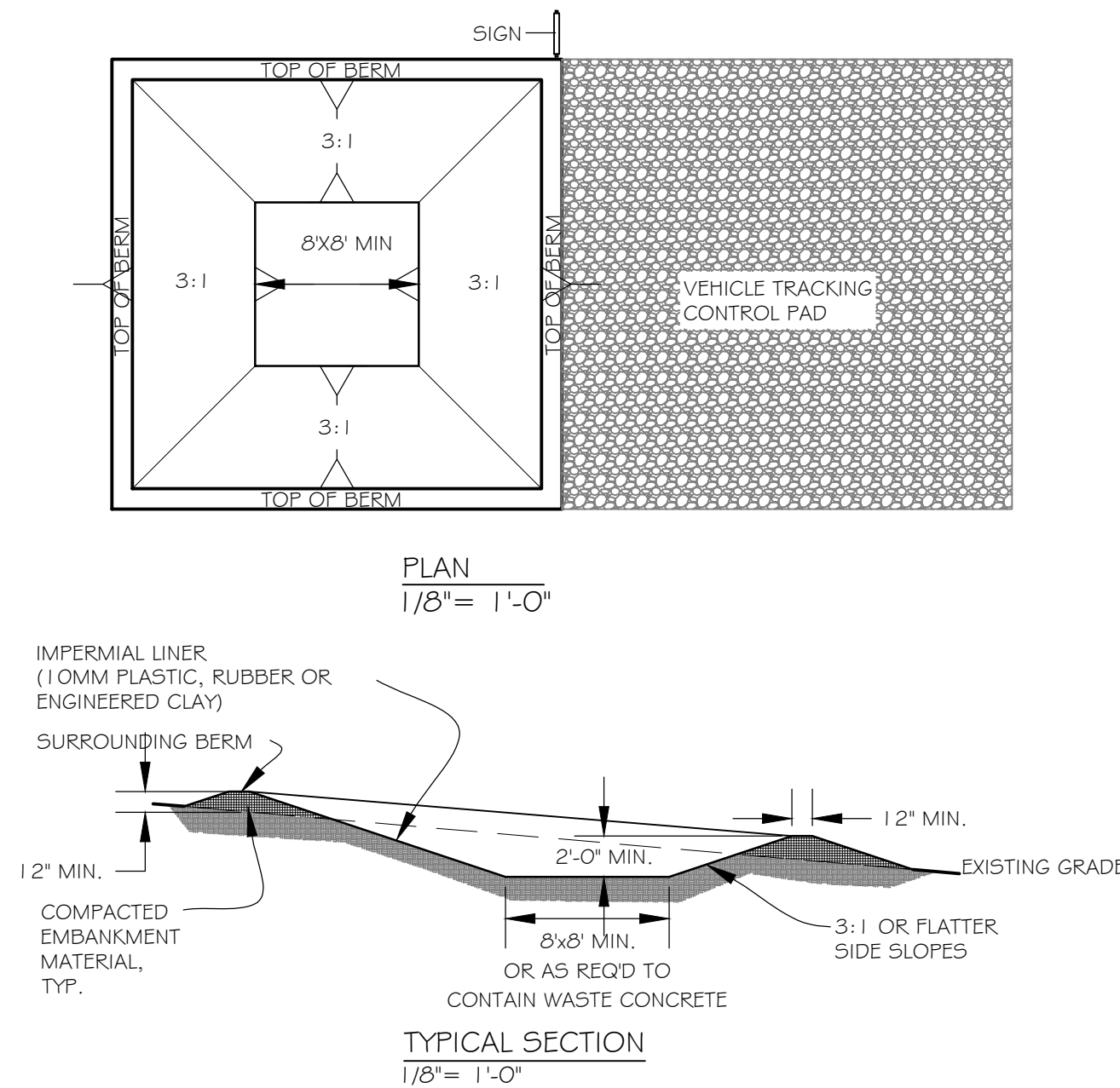
OPTION 2 - SILT FENCE CONTROL AROUND BEEHIVE



C. ROCK WEEPER PROTECTION AT FLARED END SECTION/OUTLET PIPE-SEE ROCK WEEPER DETAIL FOR INSTALLATION



BEE-HIVE CASTING AND FLARED END SECTION EROSION/SEDIMENT CONTROL



CONCRETE WASHOUT AREA INSTALLATION NOTES

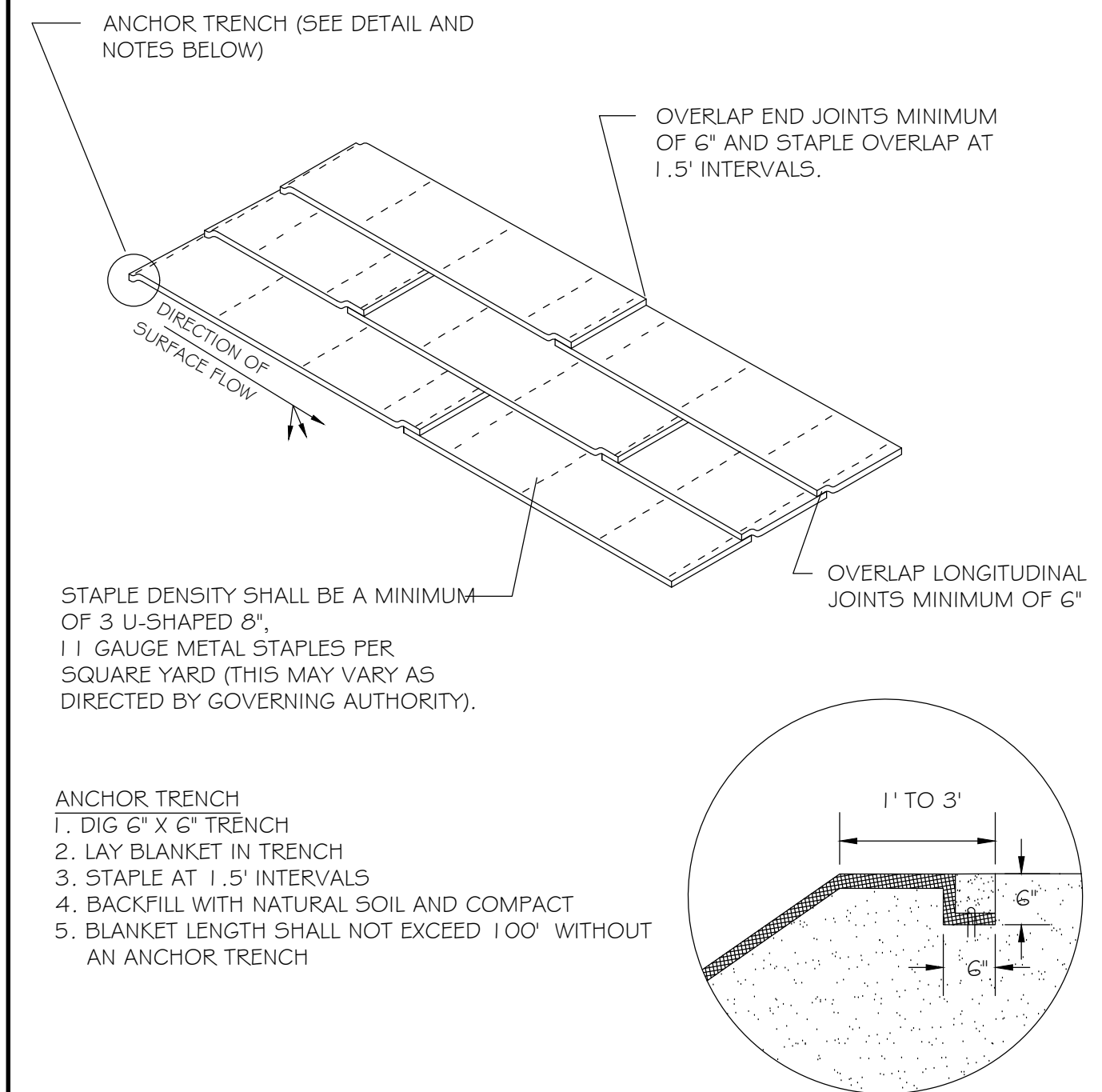
- SEE EROSION CONTROL PLAN FOR LOCATIONS OF CONCRETE WASHOUT AREAS. TO BE PLACED A MIN. OF 50' FROM DRAINAGEWAYS, BODIES OF WATER, AND INLETS.
- THE CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
- VEHICLE TRACKING CONTROL PAD IS REQ'D AT THE ACCESS POINT(S).
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA(S), AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREAS TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

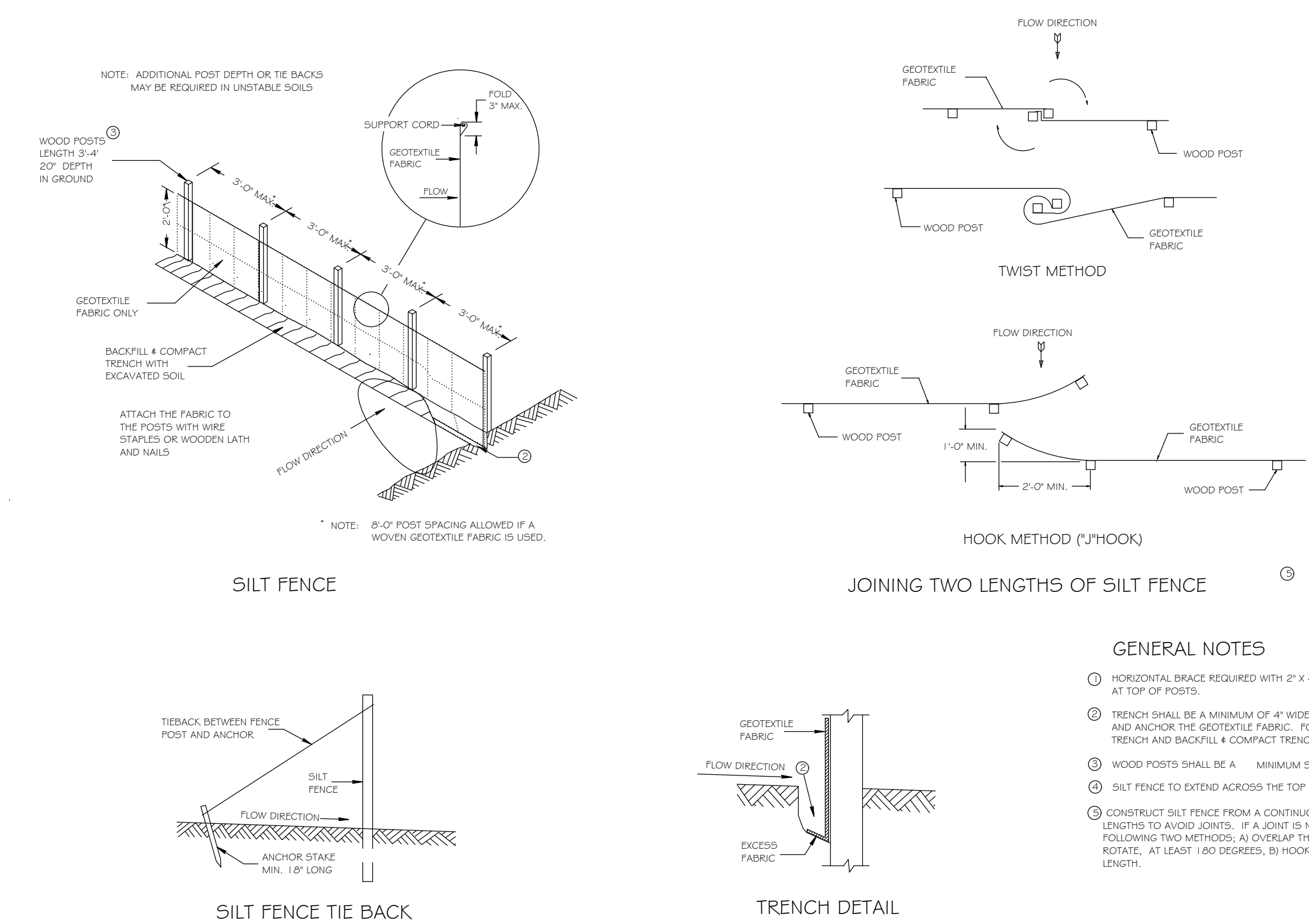
- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
- AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
- WHEN CONCRETE WASHOUT AREA(S) IS REMOVED, THE DISTURBED AREA SHALL BE STABILIZED PER SITE EROSION CONTROL MEASURES.
- INSPECT WEEKLY AND DURING AND AFTER ALL STORM EVENTS. CLEAN-OUT OR COVER WASHOUT AREA PRIOR TO PREDICTED STORM EVENTS TO PREVENT OVER-FLOW.

CONCRETE WASHOUT AREA

EROSION CONTROL BLANKET (SEEDED AREAS) ON SIDE SLOPES OF 3:1 OR GREATER AND STORM WATER BASINS. BIO-DEGRADABLE, DOUBLE NETTED, LIGHT DUTY (HEAVY DUTY IN DRAINAGE SWALES) (WISDOT CLASS 1 TYPE B)



EROSION CONTROL BLANKET INSTALLATION



GENERAL NOTES

- HORIZONTAL BRACE REQUIRED WITH 2" x 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.5" x 1.5" OF OAK OR HICKORY.
- SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES; B) HOOK THE END OF EACH SILT FENCE LENGTH.

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9-6.

SILT FENCE

Kwik Trip

Kwik Star

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INSITES
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Fax 763.951.8400

STATE OF WISCONSIN
ROBERT J. MUELLER
LANDSCAPE ARCHITECT
18 APR 18

EROSION CONTROL DETAILS

CONVENIENCE STORE 965

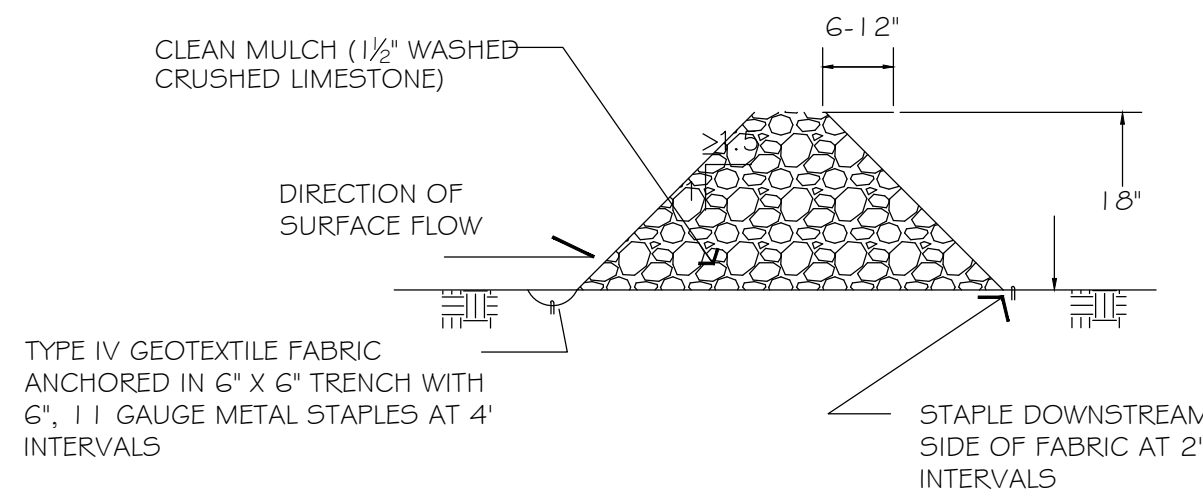
**2402 W BROADWAY
MADISON, WISCONSIN**

NO.	DATE	DESCRIPTION
-	06JUN18	SUBMITTAL
-	17JUL18	SUBMITTAL
-	25JUL18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

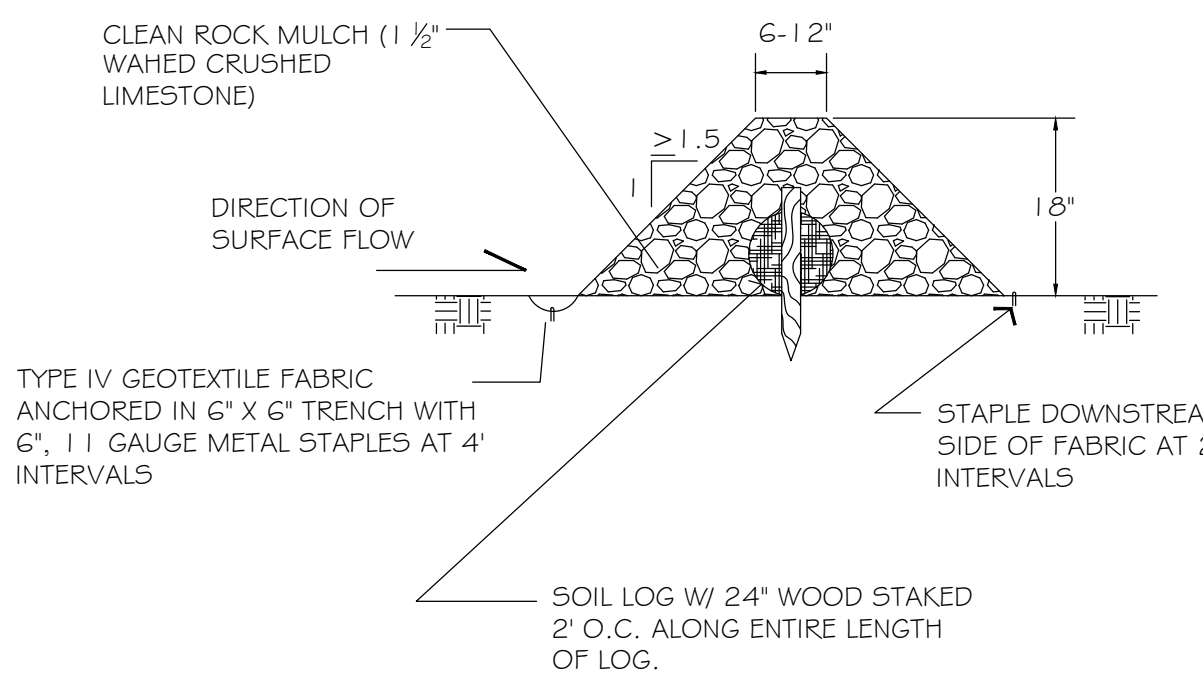
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SCALE: GRAPHIC
PROJ. NO.: 17965
DATE: 18APR2018
SHEET: **SWP3**

17-050 RM B.5

I. ROCK WEEPER @ MINIMAL WATER FLOWS



II. BIO WEEPER @ CONCENTRATED FLOWS



DITCH CHECKS, ROCK WEEPERS, & ROCK BIO WEEPERS
EROSION CONTROL

Channel Erosion Mat
(1053)

Wisconsin Department of Natural Resources
Conservation Practice Standard

I. Definition

A protective soil cover of straw, wood, coconut fiber or other suitable plant residues, or plastic fibers formed into a mat, usually with a plastic or biodegradable mesh on one or both sides. Erosion mats are rolled products available in many varieties and combinations of materials and with varying life spans.

II. Purpose

The purpose of this practice is to protect the channel from erosion or act as turf reinforcement during and after the establishment of grass or other vegetation in a channel. This practice applies to both Erosion Control Revetment Mats (ECRM) and Turf-Reinforcement Mats (TRM).

III. Conditions Where Practice Applies

This standard applies where runoff channels in intermittent flow and vegetation is to be established. Some products may have limited applicability in projects adjacent to navigable waters.

IV. Federal, State, and Local Laws

Users of this standard shall be aware of applicable federal, state, and local laws, rules, regulations, or permit requirements governing the use and placement of erosion mat. This standard does not contain the text of federal, state, or local laws.

V. Criteria

This section establishes the minimum standards for design, installation and performance requirements. To complete the shear calculations, a 2 year, 24 hour storm event shall be used to calculate depth of flows for an ECRM. For using a TRM, use the depth of flow corresponding to the maximum design capacity of the channel.

Only mats listed in the Wisconsin Department of Transportation (WisDOT) Erosion Control Product Acceptability List (PAL) will be accepted for use in this standard.

To differentiate applications WisDOT organizes erosion mats into three classes of mats, which are further broken down into various Types.

A. Class I. A short-term duration (minimum of 6 months), light duty, organic ECRM with plastic or biodegradable setting.

1. Type A - Only suitable for slope applications, not channel applications.

2. Type B - Double netted product for use in channels where the calculated (design) shear stress is 1.5 lbs/ft² or less.

B. Class II. A long-term duration (three years or greater), organic ECRM.

1. Type A - Jute fiber only for use in channels to reinforce sod.

2. Type B - For use in channels where the calculated (design) shear stress is 2.0 lbs/ft² or less. Made with plastic or biodegradable mat.

3. Type C - A woven mat of 100% organic material for use in channels where the calculated (design) shear stress is 2.0 lbs/ft² or less. Applicable

for use in environmentally sensitive areas where plastic setting is inappropriate.

C. Class III. A permanent 100% synthetic ECRM or TRM. Class I, Type B erosion mat or Class II, Type B or C erosion mat must be placed over a soil filled TRM.

1. Type A - An ECRM for use in channels where the calculated (design) shear stress of 2.0 lbs/ft² or less.

2. Type B - A TRM for use in channels where the calculated (design) shear stress of 2.0 lbs/ft² or less.

3. Type C - A TRM for use in channels where the calculated (design) shear stress of 3.5 lbs/ft² or less.

4. Type D - A TRM for use in channels where the calculated (design) shear stress of 5.0 lbs/ft² or less.

D. Installation

1. ECRM shall be installed after all topsoiling, fertilizing, liming, and seeding is complete.

2. Erosion mats shall extend for whichever is greater: upslope one-foot minimum vertically from the ditch bottom or 6 inches higher than the design flow depth.

3. The mat shall be in firm and continuous contact with the soil. It shall be anchored, overlapped, staked and unanchored per the manufacturer's recommendations.

4. TRM shall be installed in conjunction with the topsoiling operation and shall be followed by ECRM installation.

5. At time of installation, document the manufacturer and mat type by saving material labels and manufacturer's installation instructions. Retain this documentation until the site is stabilized.

VI. Considerations

A. Erosion mats shall be selected so that they last long enough for the grass or other vegetation to become densely established.

B. Consider using Class II, Type C mats adjacent to waterways where trapping small animals is to be avoided.

C. Class III TRM may be appropriate as a replacement for riprap as a channel liner. Check the shear stress criteria for the channel to determine mat applicability.

D. Once a gully has formed in a channel, it is difficult to stabilize due to loss of soil structure. Even when the gully is filled with topsoil and reseeded, the soil has a tendency to dislodge in the same pattern. If gully formation continues to be a problem the design should be reevaluated, including other mat classes or riprap.

E. It may be difficult to establish permanent vegetation and adequate erosion protection in a channel with continuous flow. Consider riprap or planting wetland species with an ECRM.

F. Documentation of materials used, monitoring logs, project diary, and weekly inspection forms including erosion and stormwater management plans, should be provided to the authority charged with long term maintenance of the site.

G. Channel cross sections may be parabolic, v-shaped or trapezoidal. The use of "V" channels is generally discouraged due to erosion problems experienced.

H. To help determine the appropriate channel liner, designers can refer to the WisDOT PAL. However, for channels not conforming to the typical section shown in the channel matrix or having a depth of flow greater than 6 inches (150 mm), the designer will need to design

for an appropriate channel liner. One way to do this is to use the "tractive force" method presented in FHWA's Hydraulic Engineering Circular (HEC) No. 15. This method requires that the calculated maximum shear stress of a channel is not to exceed the permissible shear stress of the channel liner. To use this method, permissible shear stress values are listed next to each device listed in the channel matrix.

VII. Plans and Specifications

A. Plans and specifications for installing erosion mat shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose. The plans and specifications shall address the following:

1. Location of erosion mat
2. Installation sequence
3. Material specifications conforming to standard
4. All plans, standard detail drawings, or specifications shall include schedule for installation, inspection, and maintenance. The responsible party shall be identified.

VIII. Operation and Maintenance

A. Erosion mats shall at a minimum be inspected weekly and within 24 hours after every precipitation event that produces 0.5 inches of rain or more during a 24-hour period.

B. If there are signs of rilling under the mat, install more staples or more frequent anchoring trenches. If rilling becomes severe enough to prevent establishment of vegetation, remove the section of mat where the damage has occurred. Fill the eroded area with topsoil, compact, reseed and replace the section of mat, trenching and overlapping ends per manufacturer's recommendations. Additional staking is recommended near where rilling was filled.

C. If the reinforcing plastic netting has separated from the mat, remove the plastic and if necessary replace the mat.

D. Maintenance shall be completed as soon as possible with consideration to site conditions.

D. References

WisDOT "Erosion Control Product Acceptability List" is available online at <http://www.dot.wisconsin.gov/business/engrsrv/pal.htm>.

X. Definitions

Channel Erosion: The deepening and widening of a channel due to soil loss caused by flowing water. As rills become larger and flows begin to concentrate, soil detachment occurs primarily as a result of shear.

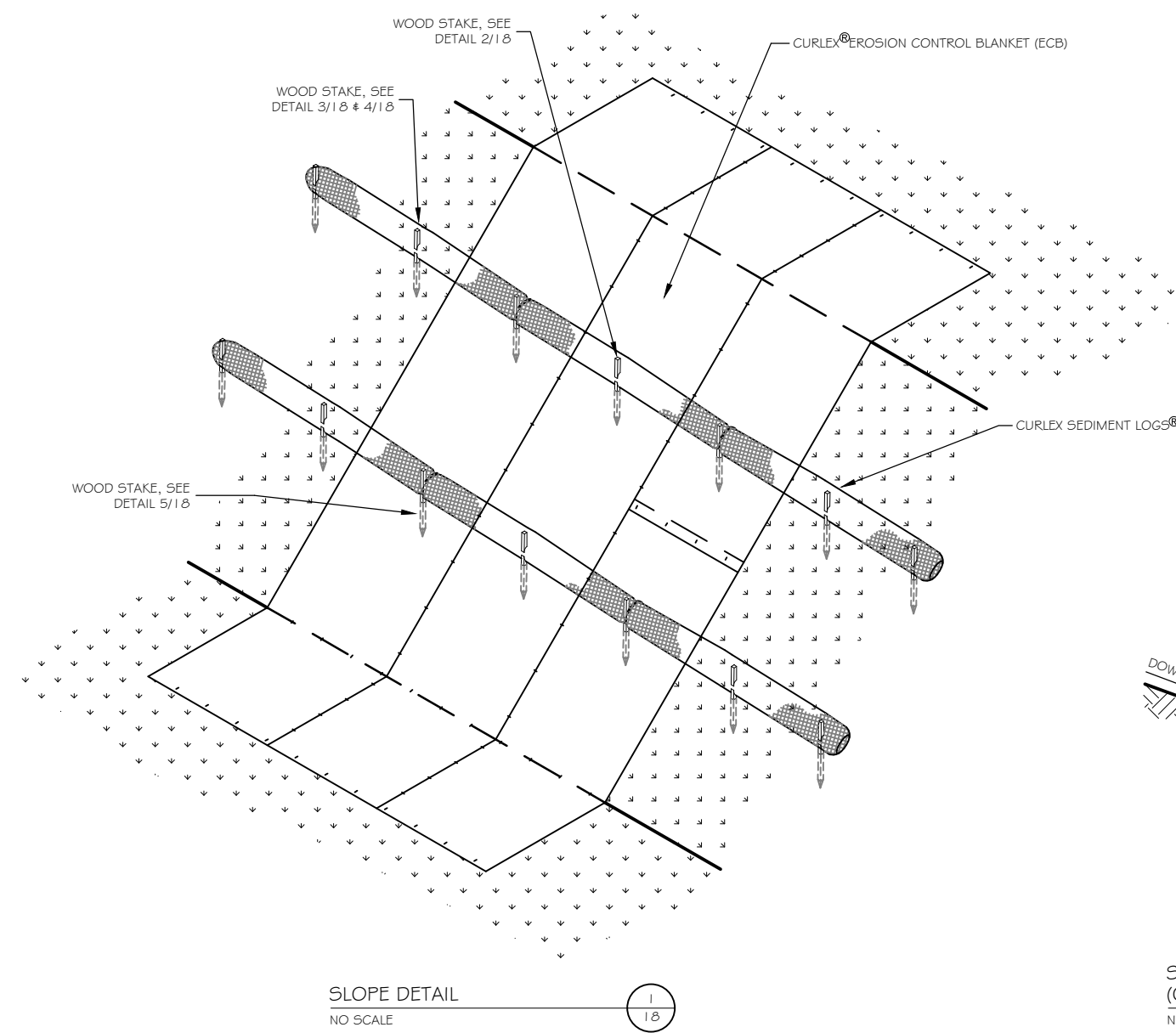
Erosion Control Revetment Mats (ECRM) (II): Erosion control revetment mats are designed to be placed on top of soil.

Turf-Reinforcement Mats (TRM) (II): Turf-reinforcement mats are permanent devices constructed from various types of synthetic materials and buried below the surface to help stabilize the soil. TRMs must be used in conjunction with an ECRM or an approved soil stabilizer Type A (as classified in the WisDOT PAL).

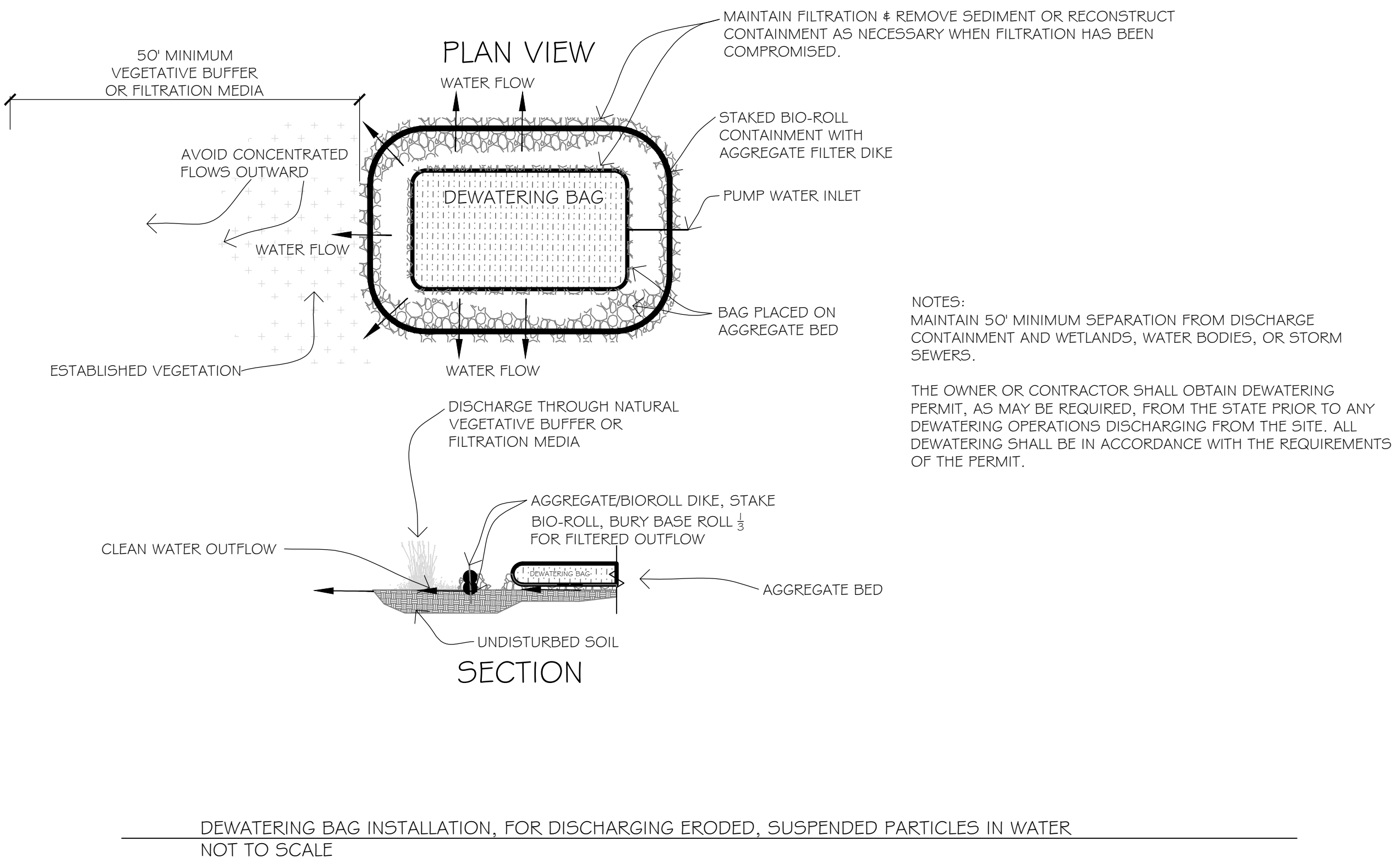
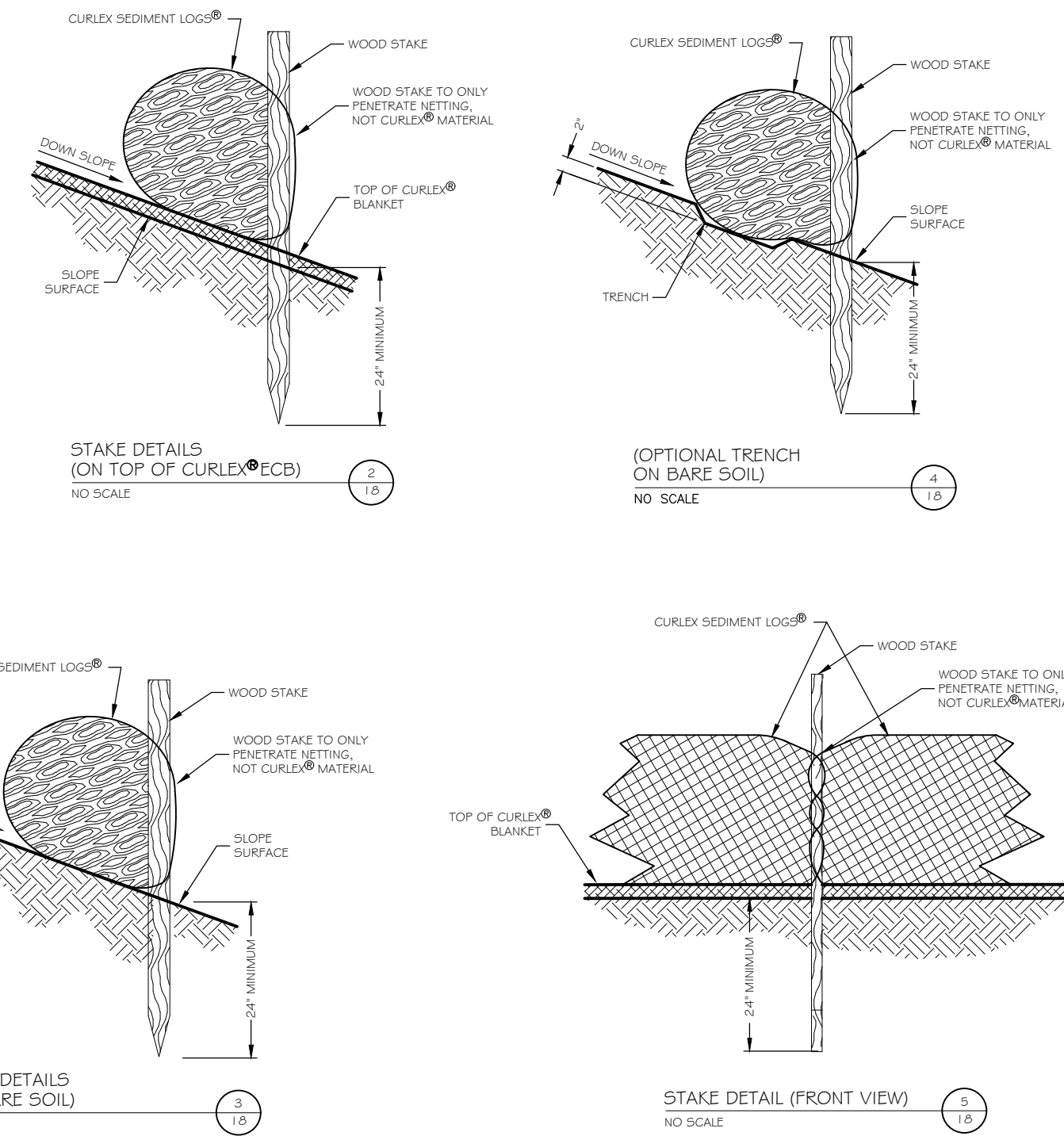
Conservation Practice Standards are reviewed periodically and updated if needed. To obtain the current version of this standard, contact your local WDNR office or the Standards Oversight Council office in Madison.

NOTE: SEDIMENT LOGS SHALL BE "CURLEX" BY AMERICAN EXCELSIOR COMPANY

www.americanexcelsior.com/erosioncontrol/
OR APPROVED EQUAL



BIO ROLL INSTALLATION ("LOG WEEPERS")
EROSION CONTROL



DEWATERING BAG INSTALLATION, FOR DISCHARGING ERODED, SUSPENDED PARTICLES IN WATER
NOT TO SCALE

EROSION CONTROL DETAILS
CONVENIENCE STORE 965
2402 W BROADWAY
MADISON, WISCONSIN

NO.	DATE	DESCRIPTION
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3030 Harbor Lane North, STE 131
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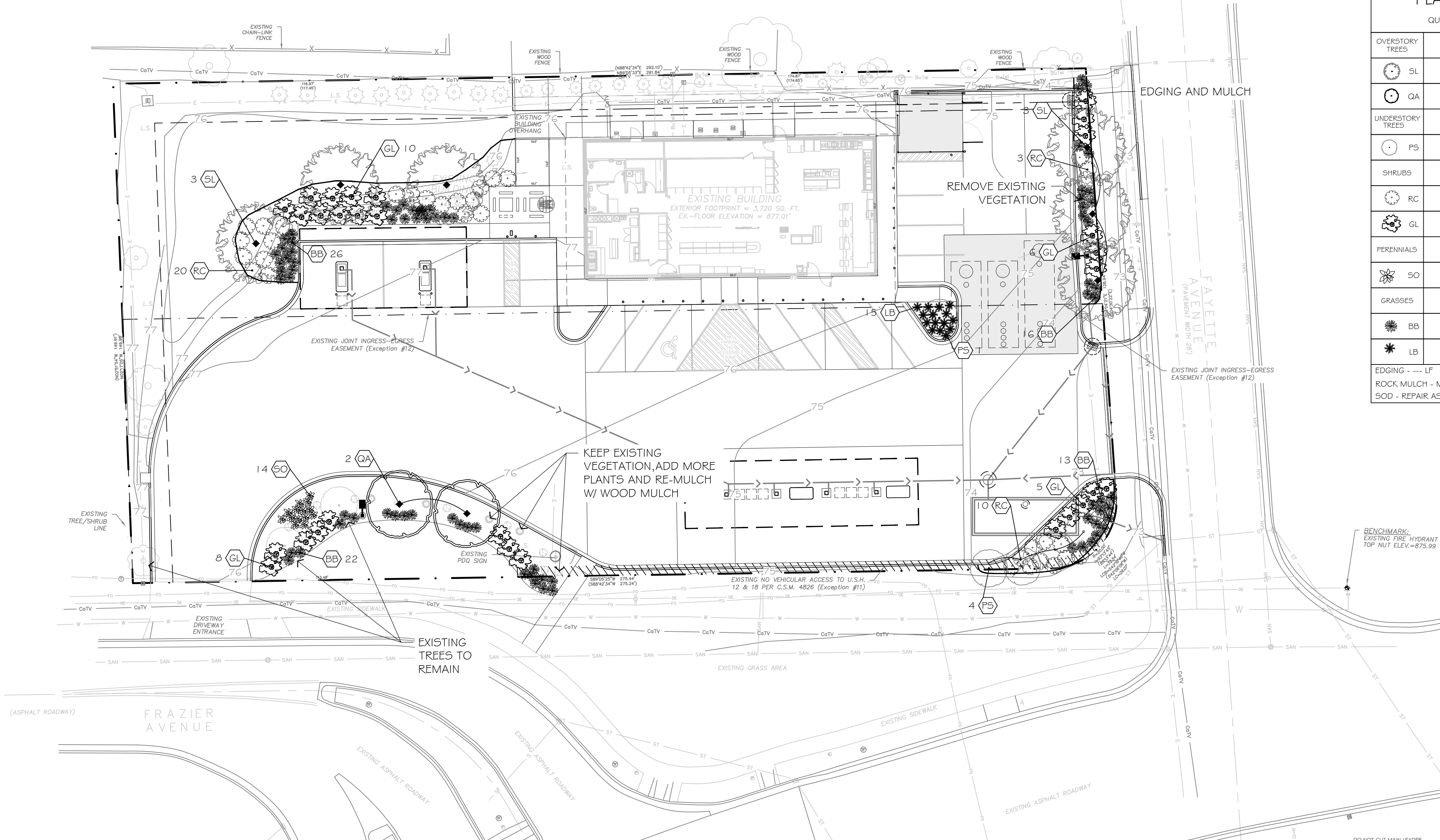
STATE OF WISCONSIN
ROBERT J. MUELLER
LANDSCAPE ARCHITECT
18APR18

KWIK TRIP

KWIK STAR

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

NOTE: REMOVE ALL RIVER ROCK AND REPLACE WITH WOOD MULCH



PLANT MATERIAL						HEIGHT	X	WIDTH
OVERSTORY TREES	QUANTITY	SIZE	ROOT TYPE	COMMON NAME	BOTANICAL NAME			
SL	6	2.5" CAL.	B4B	SKYLINE HONEYLOCUST	Gleditsia incanthos var. inermis 'Skycole'			50' x 30'
QA	2	10' HT	B4B	QUAKING ASPEN	Populus tremuloides			50' x 25'
UNDERSTORY TREES								
PS	4	2" CAL.	B4B	PINK SPIRES CRAB	Malus 'Pink Spires'			15' x 12'
SHRUBS								
RC	33	#3 CONT	pot	BRILLIANTISSIMA RED CHOKEBERRY	Aronia arbutifolia 'Brilliantissima'			5' x 5'
GL	29	#3 CONT	pot	GRO-LOW FRAGRANT SUMAC	Rhus aromatica 'Gro-Low'			2' x 7'
PERENNIALS								
SO	23	#1 CONT	pot	STELLA DE ORO DAYLILY	Heimerocallis 'Stella de Oro'			2' x 3'
GRASSES								
BB	77	#1 CONT	pot	BIG BLUESTEM	Andropogon gerardii			5' x 6'
LB	15	#1 CONT	pot	LITTLE BLUE STEM	Schizachyrium scoparium			4' x 3'

EDGING - LF
ROCK MULCH - MATCH EXISTING, AS NEEDED
SOD - REPAIR AS NEEDED

NOTES:

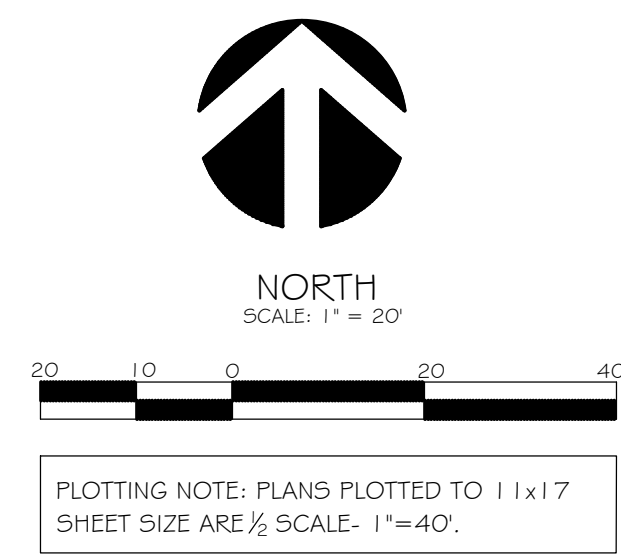
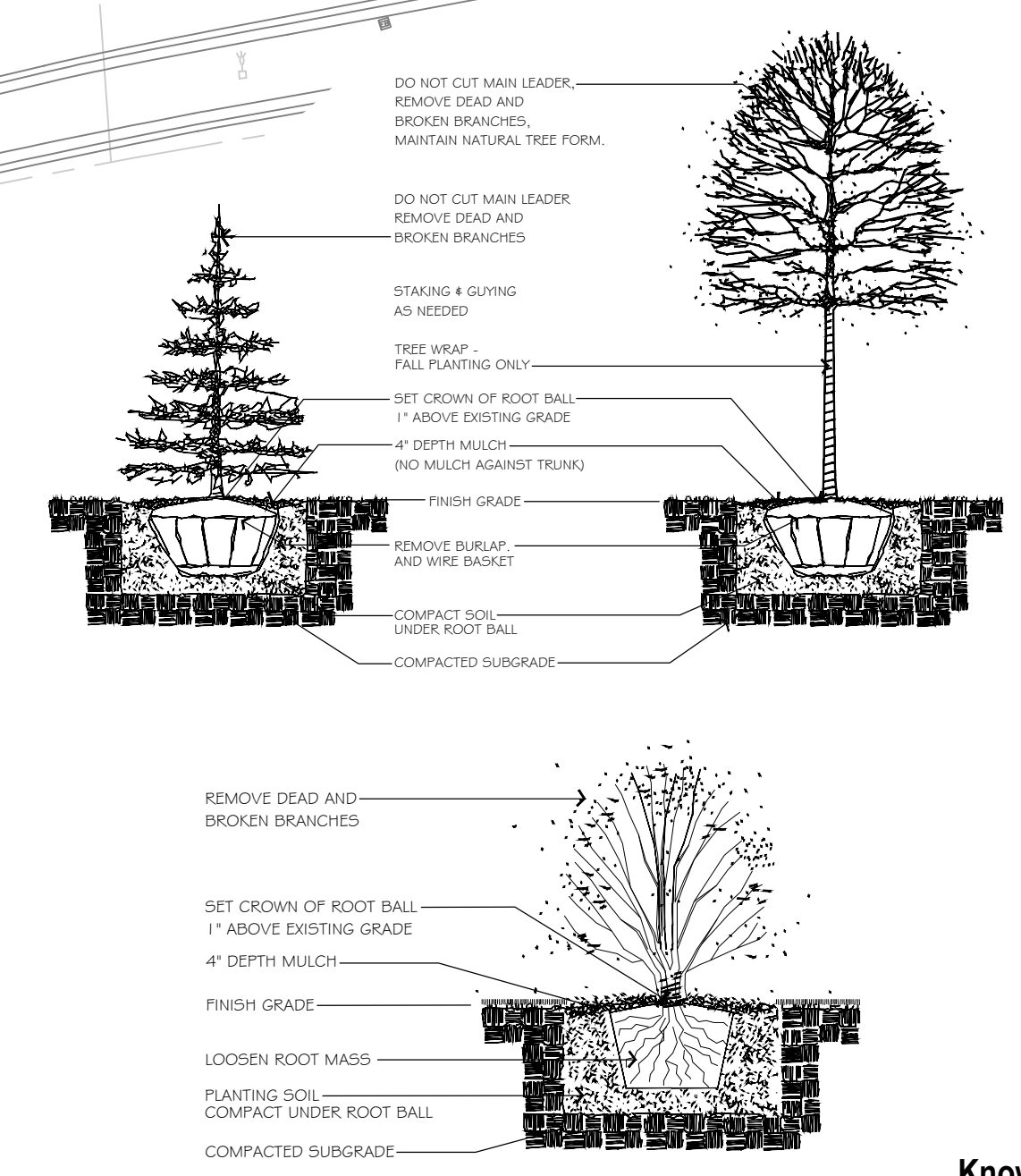
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR PLANTING IN ALL R.O.W.
- LANDSCAPE CONTRACTOR SHALL VERIFY ALL UTILITIES WHICH MAY AFFECT HIS WORK.
- LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHERS AT SITE AND COMPLETE HIS WORK PER OWNERS CONSTRUCTION SCHEDULE.
- ALL PLANT MATERIALS SHALL BE GUARANTEED ONE (1) FULL YEAR UPON TOTAL COMPLETION AND ACCEPTANCE BY OWNER, WITH ONE TIME REPLACEMENT AT APPROPRIATE TIME OR UPON REQUEST OF OWNER.
- REPLACEMENT TOPSOIL SHALL BE CLEAN, FREE OF STONES, WEEDS, AND OTHER UNDESIRABLE DEBRIS.
- PLANTING SOIL MIX (INCIDENTAL COST ITEM)
 - MIX 1 LB. 5-20-20 COMMERCIAL FERTILIZER PER CU. YD. TOPSOIL
 - THOROUGHLY MIX 1-PART SAND AND 1-PART PEAT MOSS WITH 5-PARTS FERTILIZER AND TOP SOIL.
- USE PLANTING SOIL AT ALL LOCATIONS PER DETAILS THIS SHEET.
- LANDSCAPE CONTRACTOR SHALL VERIFY TOPSOIL DEPTH AND NOTIFY OWNER OF ANY DEFICIENCY.
- SOD SHALL BE CULTURED WITH PREDOMINATELY KENTUCKY BLUEGRASS SEED OF RECENT DISEASE RESISTANT INTRODUCTIONS. NO GUARANTEE ON SOD EXCEPT ANY SOD NOT SATISFACTORY AT TIME OF COMPLETION INSPECTION SHALL BE PROMPTLY REPLACED PRIOR TO COMPLETION OF JOB. STAKE SOD ON SLOPES 3:1 AND GREATER.
- WHERE EXISTING CONCRETE/ ASPHALT AREAS ARE TO BE REPLACED WITH LANDSCAPING, PROVISIONS SHOULD BE TAKEN TO COORDINATE EXCAVATION OF SUBSOIL TO A DEPTH OF 2' WITH GRADING CONTRACTOR. REPLACE WITH COMPACTED TOPSOIL. ALL AREAS TO BE LANDSCAPED AND SODDED SHALL BE GRADED SMOOTH AND EVEN.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SODDING ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION INCLUDING ALL R.O.W. AND ADJACENT PROPERTIES.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BLANKET ON ALL SEEDED AREAS THAT ARE SLOPED. MULCH APPLICATION FOR ALL OTHER SEEDED AREAS SHALL BE EITHER HYDROMULCH OR DISKED STRAW DEPENDING ON SEED TYPE, APPLICATION, AND OWNER REQUEST.
- LANDSCAPE CONTRACTOR TO INSTALL 'VALLEY VIEW', 'BLACK DIAMOND' EDGING AROUND ALL PLANTING BEDS AS SHOWN ON THIS PLAN.
- ALL MULCH TO BE FINELY SHREDDED HARDWOOD ORGANIC BARK MULCH. NO DYED MULCHES. INSTALL 4" DEPTH. NO FILTER FABRIC BENEATH ORGANIC MULCHES. NO EDGING AROUND ALL TREES OUTSIDE SHRUB BEDS.
- IF SPECIFIED; ALL GRAVEL MULCH SHALL BE 1" DIA. WASHED 'RIVER ROCK'. INSTALL 4" DEPTH WITH APPROVED WEED FABRIC BARRIER IF INDICATED PLAN.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR IRRIGATION SYSTEM INSTALLATION PER SHEET 11. DESIGN SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. IRRIGATION DESIGN SHOULD ENCOMPASS ALL LANDSCAPE AREAS WITH SOD AND/OR PLANTINGS, FROM CURB TO CURB. R.O.W. SHOULD BE IRRIGATED FROM SPRINKLER HEADS LOCATED WITHIN PROPERTY BOUNDARY. CARE SHOULD BE TAKEN IN VICINITY OF ALL WALKS AND DRIVES TO MINIMIZE OVER SPRAY. COORDINATE INSTALLATION OF ALL PVC SLEEVE UNDER DRIVE AREAS WITH GENERAL CONTRACTOR.
- LANDSCAPE CONTRACTOR SHALL CLEAN ALL PAVEMENT AREAS AFTER ALL LANDSCAPE INSTALLATION IS COMPLETE AND ACCEPTED BY OWNER AND DAILY AS DEEMED NECESSARY BY THE CITY.
- GENERAL CONTRACTOR TO SWEEP PAVEMENT AREAS PRIOR TO TURN OVER TO OWNER.

LANDSCAPE REQUIREMENTS:

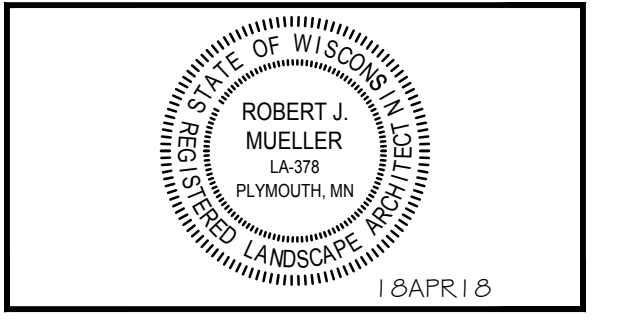
-40,172 SF IMPERVIOUS / 300' 5" = 670 PTS REQUIRED

-OVERSTORY TREE 8' 35" = 280
 -ORNAMENTAL TREE 4' 15" = 60
 -DECIDUOUS SHRUB 62' 3" = 186
 -PERENNIAL/GRASS 115' 2" = 230

TOTAL PTS = 756



KWIK TRIP, Inc.
 P.O. BOX 2107
 1626 OAK STREET
 LACROSSE, WI 54602-2107
 PH. (608) 781-8988
 FAX (608) 781-8960



LANDSCAPE PLAN

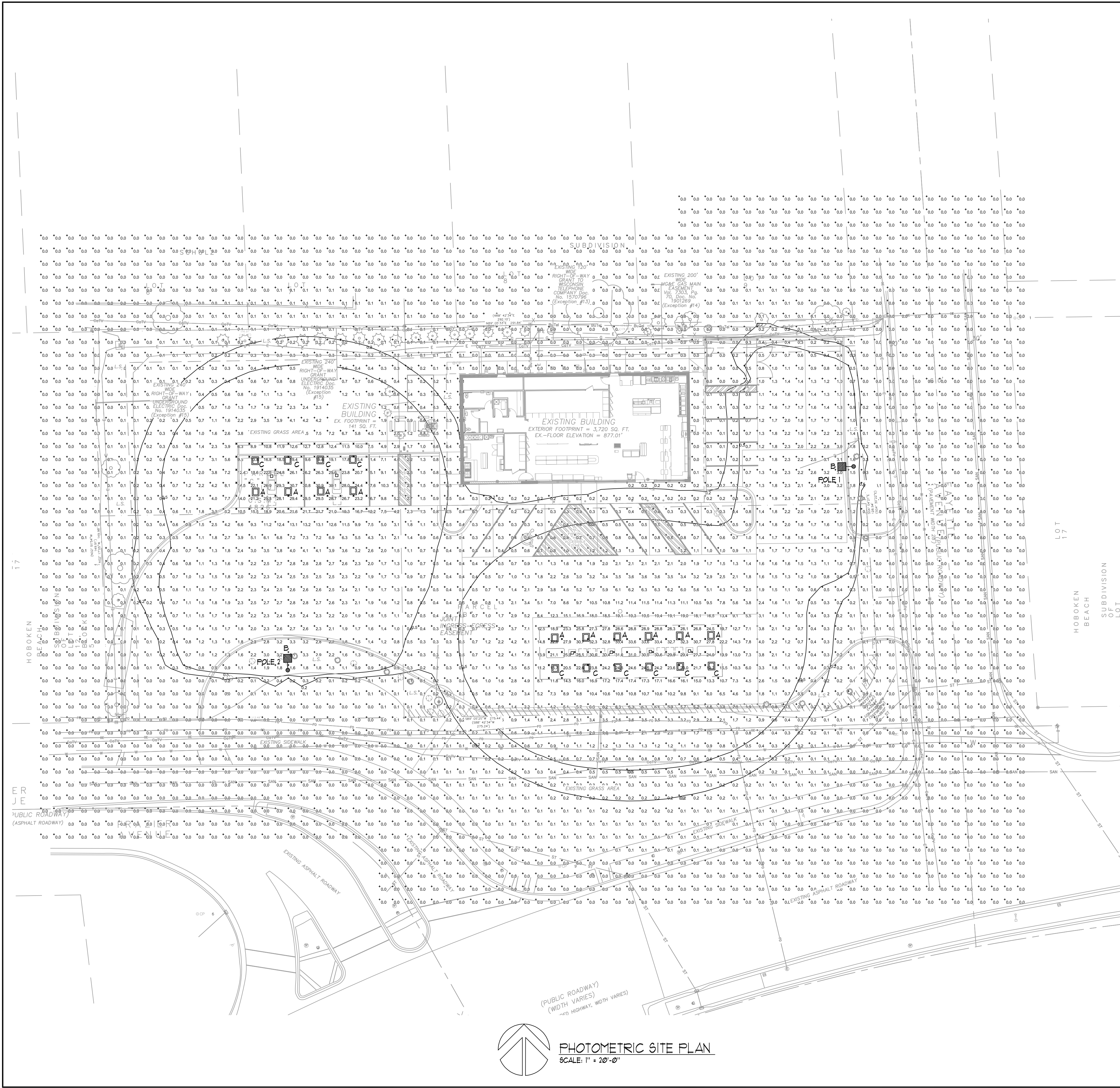
CONVENIENCE STORE 965

2402 W BROADWAY
MADISON, WISCONSIN

NO.	DATE	DESCRIPTION
-	06JUNE18	SUBMITTAL
-	17JULY18	SUBMITTAL
-	25JULY18	ADD CANOPY
-	03OCT18	COMMISSION COMMENTS

DRAWN BY: _____
 SCALE: GRAPHIC
 PROJ. NO.: 17965
 DATE: 18APR2018
 SHEET: **L1**

17-050-PM-B



FIXTURE SYMBOLS:

- A+C LED UNDER FUEL CANOPIES
- B LED POLE MOUNTED FIXTURE

FIXTURE TYPES:

- A - L81 LIGHTING: CRUS-SC-LED-S6-50-WHITE
THIS FIXTURE MUST BE ORDERED WITH DIMMING CAPABILITY SO IT CAN BE DIMMED UNDER THE CONTROL OF CPC. FIXTURES ARE SHOWN BEING DIMMED TO 10%.
- B - L81 LIGHTING: 8LM-LED-8L-8IL-FT-UNV-50-10CRI-IL-WHITE
- C - L81 LIGHTING: CRUS-SC-LED-S6-50-WHITE
THIS FIXTURE MUST BE ORDERED WITH DIMMING CAPABILITY SO IT CAN BE DIMMED UNDER THE CONTROL OF CPC. FIXTURES ARE SHOWN BEING DIMMED DOWN TO 25%.

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
MAIN GAS CANOPY		24.4 fc	33.6 fc	10.7 fc	3:1	23:1
GAS AND PARK CANOPY		19.7 fc	30.9 fc	6.3 fc	4.9:1	3:1

NOTES:

1. FOOTCANDLES ON THIS PLAN ARE MEASURED AT GRADE. CALCULATIONS DO NOT INCLUDE CONTRIBUTION FROM EXISTING LIGHTING FROM CONVENIENCE STORE BUILDING.
2. LIGHTS UNDER GAS CANOPY WILL BE PUT ON A DIMMER CIRCUIT AND DIMMED.

PHOTOMETRIC SITE PLAN
SCALE: 1" = 20'-0"

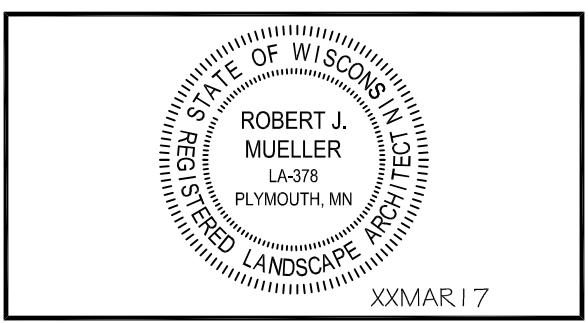
CZARNECKI ENGINEERING INCORPORATED
101 MARLIN COURT, SUITE B - WAUKESHA, WI 53186
VOICE: (262) 513-2070 FAX: (262) 513-2023
WEB PAGE: www.cczeng.com

Kwik TRIP

Kwik STAR

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INSITES
SITE PLANNING LANDSCAPE #1
3030 HARSHBARGER ONE NO
PLYMOUTH, MN 55447
763.383.8400
TEL: 763.383.8440



PHOTOMETRIC SITE PLAN
CONVENIENCE STORE 965
2402 W BROADWAY
MADISON, WISCONSIN

NO.	DATE	DESCRIPTION

DRAWN BY: **CZE**
SCALE: **GRAPHIC**
PROJ. NO.: **17965**
DATE: **13MAR2016**
SHEET: **E1**