City of Menasha

SPECIAL ZONING APPROVAL

Owner Kwik Trip, Inc

Case or Plan No. _____

Address 1626 Oak St La Crosse, WI

Fee $350.00

Applicant (if different than Owner) Kwik Trip, Inc - Jeff Osgood

Address 1626 Oak St La Crosse, WI

Zoning C-4

Parcel Number(s) ~~113287K & 113458K~~ 6-01652-00

PLEASE INDICATE WHICH REQUEST IS BEING MADE

- [ ] Rezoning
- [x] Special Use
- [ ] Flood Plain Map Amendment
- [ ] Appeal or Variance
- [ ] PUD Plan Approval

Description of Request: We are requesting the construction of a Convenience Store w/ Fueling Canopy, a separate Diesel Fueling Canopy, and a 2-Bay Carwash which are all special uses within the current zoning.

Owner/Agent _____ Jeff W. Osgood _____

Signature

(If applicable)

Formal Hearing March 16, 2015

Informal Hearing March 3, 2015

Notice Mailed February 19, 2015

Notice Mailed February 19, 2015

Notice Mailed _____

Action Taken: _____ 20____

- [ ] APPROVED
- [ ] DENIED

Conditions (if any): _____

February 19, 2015

RE: Special Use Permit Application for 1233 Midway Road

Dear Property Owner:

Kwik Trip, Inc. has applied for a Special Use Permit for Parcel Number 6-01652-00 located at 1233 Midway Road. The property owner has requested the Special Use Permit in order to construct a convenience store with fueling canopy, diesel fueling canopy and a 2-bay car wash. The subject site is zoned C-4 Business Park District which requires a Special Use Permit for retail uses per Sec. 13-1-37(c)(4) of the City of Menasha Code of Ordinances.

The City of Menasha Plan Commission will hold a public hearing on the proposed Special Use Permit on Tuesday, March 3, 2015 at 3:30 p.m. or shortly thereafter in the City Hall Council Chambers located at 140 Main Street, Menasha.

The City of Menasha Common Council will hold a public hearing on the proposed Special Use Permit on Monday, March 16, 2015 at 6:00 p.m. or shortly thereafter in the City Hall Council Chambers, 140 Main Street, Menasha.

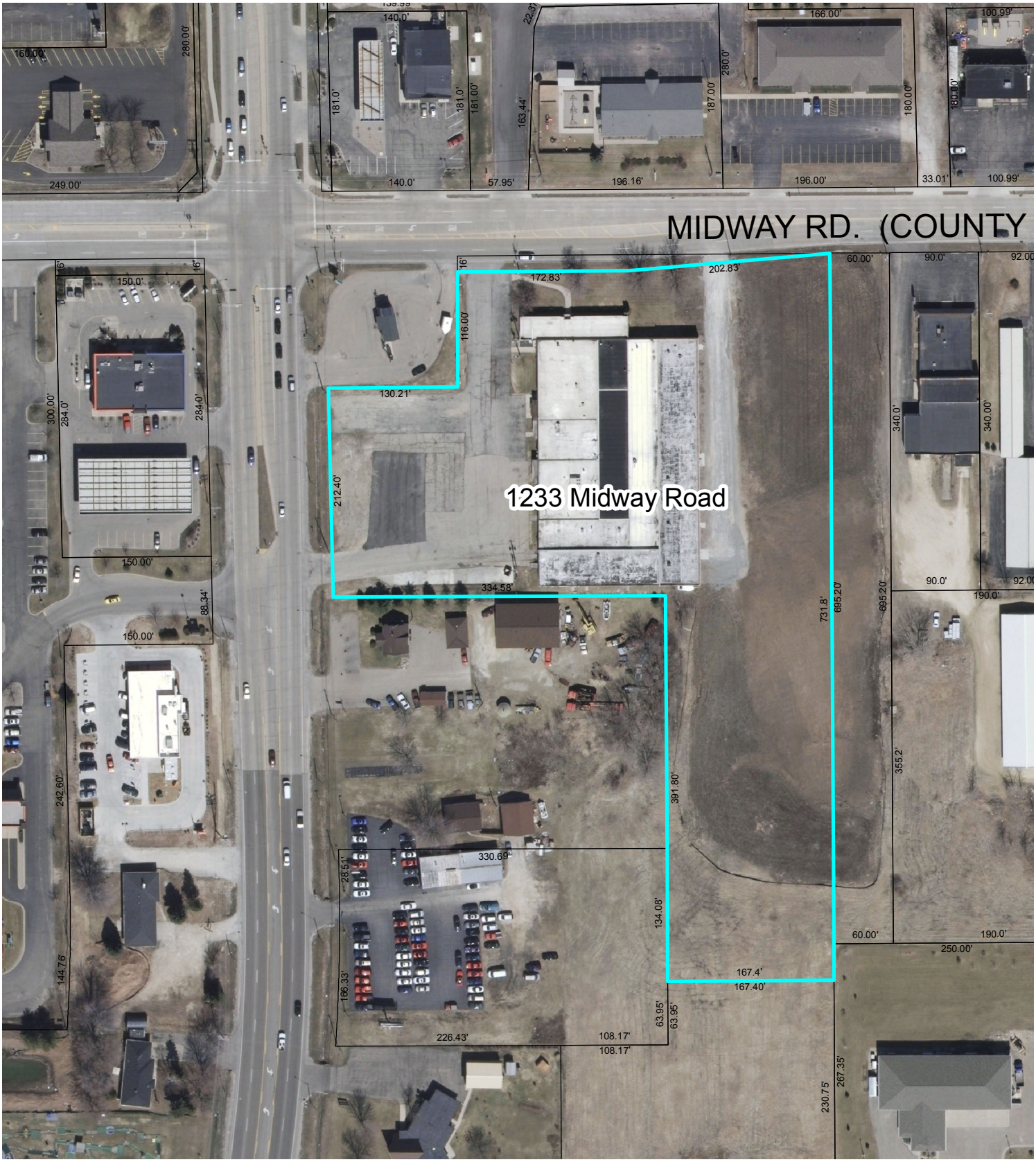
A copy of the Public Hearing Notice is attached along a map identifying the location of the property.

Persons interested in this matter will be given an opportunity to comment on the request; written comments will also be considered. You are receiving this notice because you own property within one hundred (100) feet of the proposed special use. If you have any questions, please contact me.

Sincerely,

Kristi Heim
Community Development Coordinator

C: Plan Commission
City Clerk Galeazzi



Special Use Permit Location
Proposed Kwik Trip
1233 Midway Road

Parcel Number: 6-01652-00

0 50 100 200 300

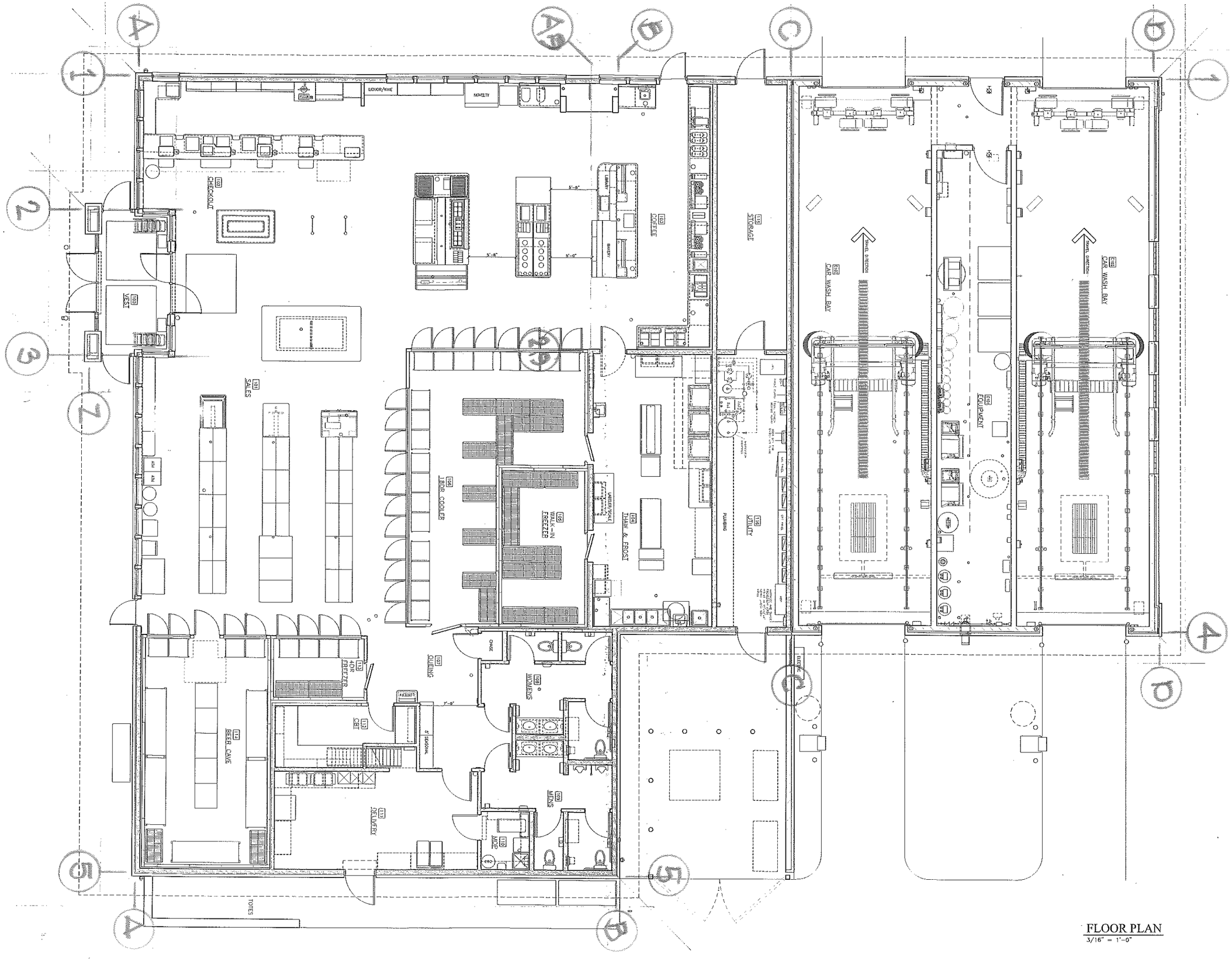
Feet

City of Menasha
Public Hearings

NOTICE IS HEREBY GIVEN that public hearings will be held by the Menasha Plan Commission and Common Council on an application for a Special Use Permit by Kwik Trip, Inc. to construct a convenience store with fueling canopy, diesel fueling canopy and a 2-bay car wash at 1233 Midway Road, which includes Parcel Number 6-01652-00, City of Menasha, Winnebago County, Wisconsin. The subject site is zoned C-4 Business Park District and requires a Special Use Permit for retail uses per Sec. 13-1-37(c)(4) of the City of Menasha Code of Ordinances. The Plan Commission will hold its public hearing on Tuesday, March 3, 2015 at 3:30 PM, or shortly thereafter, in the Council Chambers of Menasha City Hall located at 140 Main Street, Menasha, WI. The Common Council will hold its public hearing on this matter at 6:00 PM, or shortly thereafter, on Monday, March 16, 2016 at the same location. All persons interested in commenting on the application for this Special Use Permit are invited to attend.

Deborah A. Galeazzi, WCMC
City Clerk

Run: February 24 and march 8, 2015.



FLOOR PLAN
3/16" = 1'-0"

LARSON ARCHITECT
200 Mason Street #3
Onalaska, WI 54650
(608) 784 - 6808
info@larsonarchitect.com

KWIK TRIP STORES
KWIK STAR STORES

STORE #XXX
ADDRESS
TOWN, STATE

LH WI COMBO PROTOTYPE

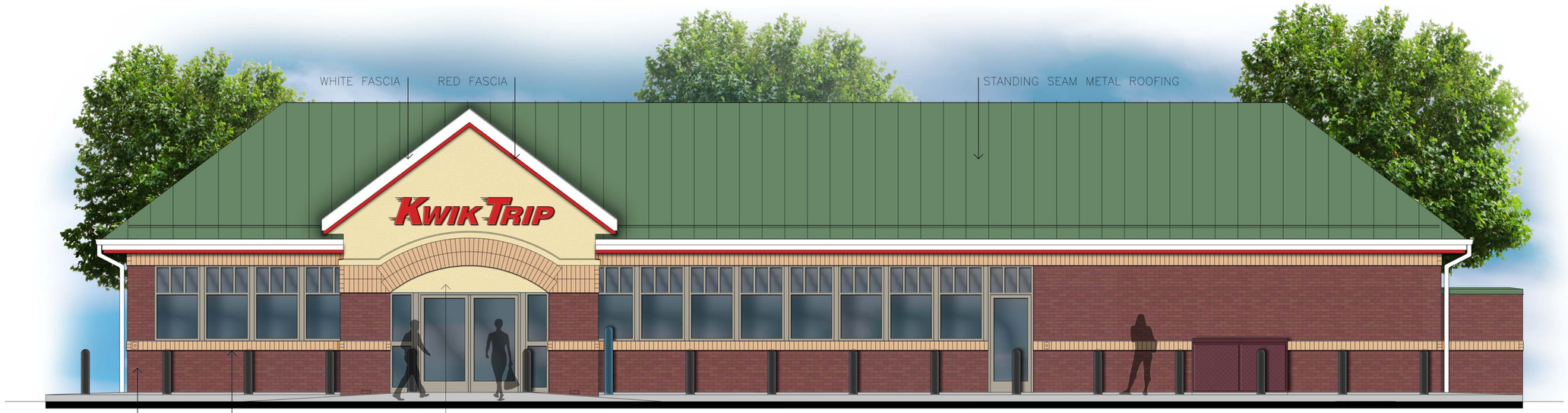
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly registered architect under the laws of the state of WISCONSIN.

Tim Larson #A-4310

A000, A100, A101, A102, A103, A104, A105, A106, A107, A200, A201, A301, A305, A306, A307, A401, A402, A403, A404, A500, A600, A601, A700, A701, A702, A703 and A704
Date: 2014

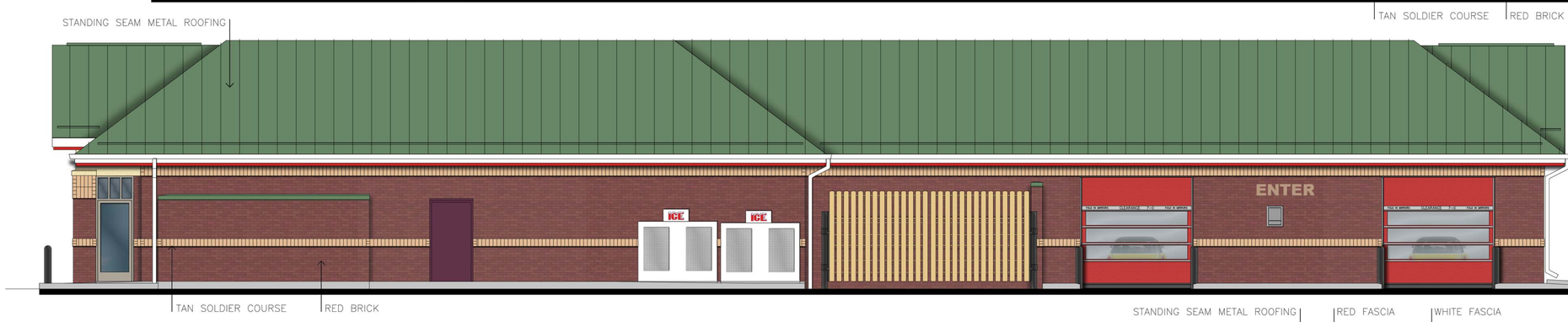
Revised :
Issued for : APPROVAL
Date : OCT 22, 14
Checked : TPL
Drawn :

A110B



FRONT ELEVATION
1/8" = 1'-0"

LEFT ELEVATION
1/8" = 1'-0"



RIGHT ELEVATION
3/16" = 1'-0"

BACK ELEVATION
3/16" = 1'-0"

KWIK TRIP STORES
KWIK STAR STORES

LH WI COMBO PROTOTYPE

FRONT ELEVATION
3/16" = 1'-0"

SIDE ELEVATION
3/16" = 1'-0"

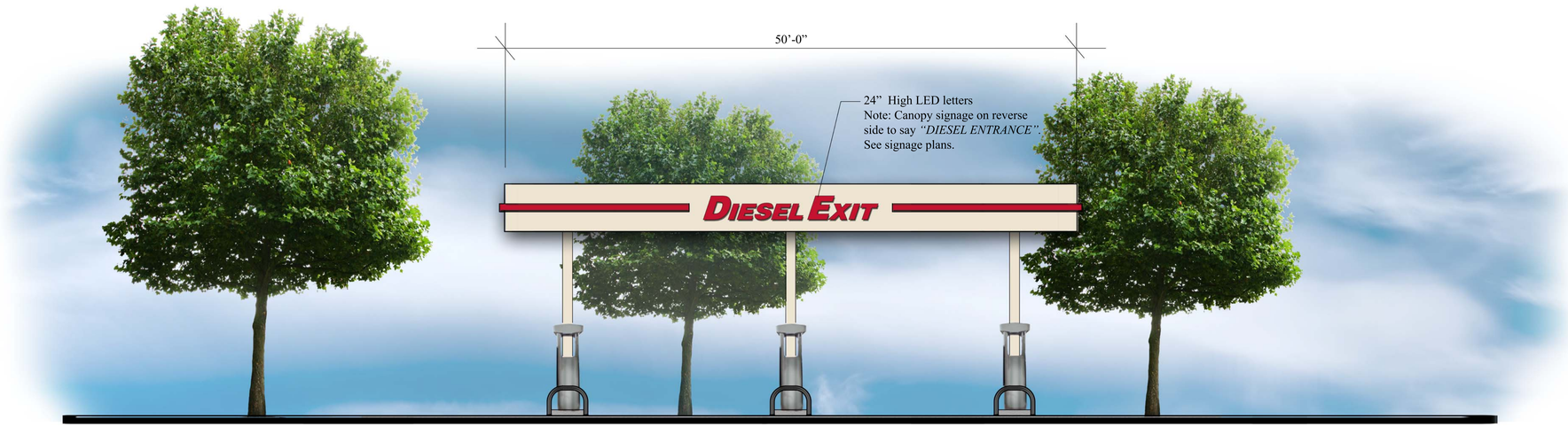
KWIK TRIP™ STORES

KWIK STAR™ STORES

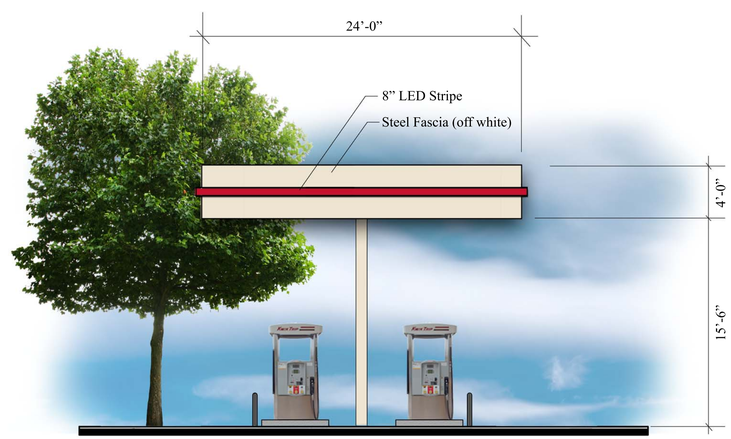
Flat Canopy

10 MPD

A200



FRONT ELEVATION
3/16" = 1'-0"



SIDE ELEVATION
3/16" = 1'-0"

Flat Canopy

2-Lane Diesel

KWIK TRIP STORE #297

SUP APPLICATION / SITE PLAN REVIEW SUBMITTAL

OWNER
KWIK TRIP, INC
JEFF OSGOOD
1626 OAK STREET
LA CROSSE, WI 54602
PHONE: 608-793-5547
EMAIL: josgood@kwiktrip.com

CIVIL ENGINEER
SUNDE ENGINEERS
NICK MONSERUD
10830 NESBITT AVE
BLOOMINGTON, MN 55437
PHONE: 952-229-8675
EMAIL: nmonserud@sundecivil.com

SITE DESIGNER
INSITES
BOB MUELLER
3030 HARBOR LANE NORTH
SUITE 131
PLYMOUTH, MN 55447
PHONE: 763-383-8400
EMAIL: bob@insitesinc.net

SURVEYOR
CAROW LAND SURVEYING
BOB REIDER
1837 W. WISCONSIN AVE
APPLETON, WI 54912
PHONE: 920-731-4168
EMAIL: bob_r@carowlandsurveying.com

SHEET INDEX

ALTA	SURVEY SHEET
SP1	SITE PLAN
SP1.1	SITE PLAN KEYNOTES
SP1.2	TRUCK CIRCULATION
SP2	GRADE PLAN
SP3	STORM SEWER PLAN
SP4	UTILITY PLAN
SWPPP1	EROSION CONTROL PLAN
SWPPP2	EROSION CONTROL DETAILS
SWPPP3	EROSION CONTROL DETAILS
SWPPP4	EROSION CONTROL DETAILS
L1	PRELIMINARY LANDSCAPE PLAN
E1	PHOTOMETRIC LIGHTING PLAN

KWIK TRIP STORES

KWIK STAR STORES

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

COVER SHEET

CONVENIENCE STORE #297
WITH 2-BAY CW & SIDE DIESEL

SE CORNER OF MIDWAY RD & APPLETON RD
MENASHA, WI

#	DATE	DESCRIPTION

DRAWN BY	INSITES
SCALE	NTS
PROJ. NO.	0001
DATE	2014-10-20
SHEET	G000

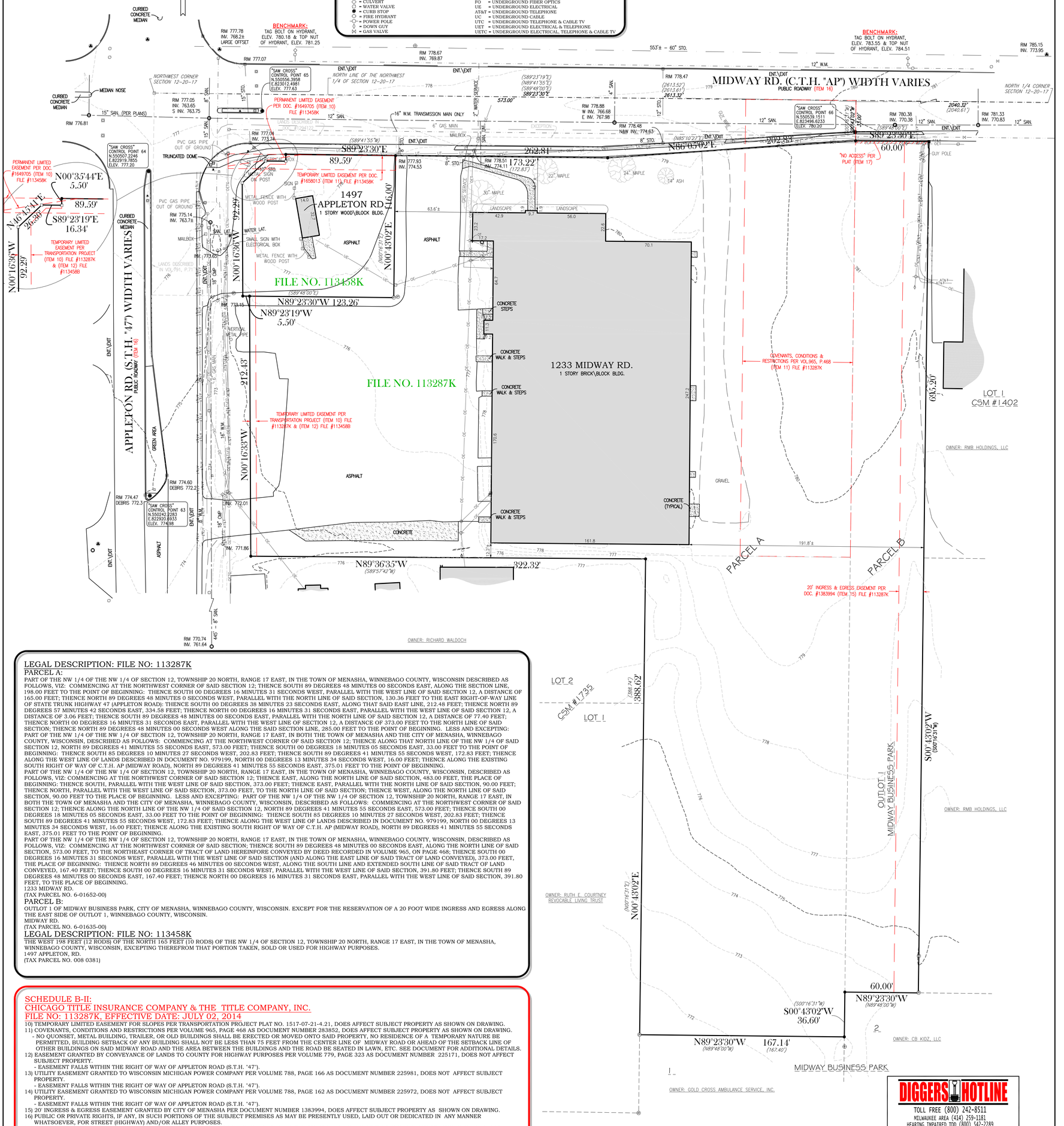
"ALTA/ACSM LAND TITLE SURVEY"

1497 APPLETON RD. & 1233 MIDWAY RD.
CITY OF MENASHA
WINNEBAGO COUNTY, WISCONSIN

NORTH IS REFERENCED TO THE NORTH LINE OF THE NORTHWEST 1/4 OF SECTION 12, TOWNSHIP 20 NORTH, RANGE 17 EAST. CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN WHICH BEARS S89°23'30"E PER THE WINNEBAGO COUNTY COORDINATE SYSTEM.

Scale: 1" = 30'

LEGEND:
- = HARRISON/BERNTSEN MONUMENT FOUND
- = 3/4" X 18" SOLID ROUND #6 IRON REBAR SET, WEIGHING 1.502 LBS. PER LIN. FT.
- = 3/4" SOLID ROUND IRON REBAR FOUND
- = 1-1/4" X 18" SOLID ROUND #10 IRON REBAR SET, WEIGHING 4.303 LBS. PER LIN. FT.
- = 1" I.D. ROUND IRON PIPE FOUND
- = CHISEL CROSS SET
- = CHISEL CROSS FOUND
- = MAG NAIL SET
- = MAG NAIL FOUND
- = RAILROAD SPIKE SET
- = RAILROAD SPIKE FOUND
- = SANITARY MANHOLE
- = SANITARY CLEANOUT
- = HOLDING TANK
- = STORM MANHOLE
- = STORM CATCH BASIN
- = CULVERT
- = WATER VALVE
- = CURB STOP
- = FIRE HYDRANT
- = POWER POLE
- = DOWN GUY
- = GAS VALVE
- = GAS METER
- = TRAFFIC SIGNAL
- = ELECTRICAL PEDESTAL
- = TELEPHONE PEDESTAL
- = CABLE PEDESTAL
- = LIGHT
- = GROUND LIGHT
- = SIGN
- = TREE
- = BOLLARD
- = TRAFFIC SIGNAL MANHOLE
- ( ) = RECORDED AS BEARING/DISTANCE
- OE = OVERHEAD ELECTRICAL
- OT = OVERHEAD TELEPHONE
- OC = OVERHEAD CABLE TV
- OTC = OVERHEAD TELEPHONE & CABLE TV
- OET = OVERHEAD ELECTRICAL & TELEPHONE
- OETC = OVERHEAD ELECTRICAL, TELEPHONE & CABLE TV
- FO = UNDERGROUND FIBER OPTICS
- UE = UNDERGROUND ELECTRICAL
- AT&T = UNDERGROUND TELEPHONE
- UC = UNDERGROUND CABLE
- UTC = UNDERGROUND TELEPHONE & CABLE TV
- UET = UNDERGROUND ELECTRICAL & TELEPHONE
- UETC = UNDERGROUND ELECTRICAL, TELEPHONE & CABLE TV



LEGAL DESCRIPTION: FILE NO: 113287K

PARCEL A:

PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 12, TOWNSHIP 20 NORTH, RANGE 17 EAST, IN THE TOWN OF MENASHA, WINNEBAGO COUNTY, WISCONSIN DESCRIBED AS FOLLOWS, VIZ: COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 12; THENCE SOUTH 89 DEGREES 48 MINUTES 00 SECONDS EAST, ALONG THE SECTION LINE, 198.00 FEET TO THE POINT OF BEGINNING: THENCE SOUTH 00 DEGREES 16 MINUTES 31 SECONDS WEST, PARALLEL WITH THE WEST LINE OF SAID SECTION 12, A DISTANCE OF 165.00 FEET; THENCE NORTH 89 DEGREES 48 MINUTES 0 SECONDS WEST, PARALLEL WITH THE NORTH LINE OF SAID SECTION, 130.36 FEET TO THE EAST RIGHT-OF-WAY LINE OF STATE TRUNK HIGHWAY 47 (APPLETON ROAD): THENCE SOUTH 00 DEGREES 38 MINUTES 23 SECONDS EAST, ALONG THAT SAID EAST LINE, 212.48 FEET; THENCE NORTH 89 DEGREES 57 MINUTES 42 SECONDS EAST, 334.58 FEET; THENCE NORTH 00 DEGREES 16 MINUTES 31 SECONDS EAST, PARALLEL WITH THE WEST LINE OF SAID SECTION 12, A DISTANCE OF 3.06 FEET; THENCE SOUTH 89 DEGREES 48 MINUTES 00 SECONDS EAST, PARALLEL WITH THE NORTH LINE OF SAID SECTION 12, A DISTANCE OF 77.40 FEET; THENCE NORTH 00 DEGREES 16 MINUTES 31 SECONDS EAST, PARALLEL WITH THE WEST LINE OF SECTION 12, A DISTANCE OF 373.00 FEET TO THE NORTH LINE OF SAID SECTION; THENCE NORTH 89 DEGREES 48 MINUTES 00 SECONDS WEST ALONG THE SAID SECTION LINE, 285.00 FEET TO THE POINT OF BEGINNING. LESS AND EXCEPTING: PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 12, TOWNSHIP 20 NORTH, RANGE 17 EAST, IN BOTH THE TOWN OF MENASHA AND THE CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 12; THENCE ALONG THAT NORTH LINE OF THE NW 1/4 OF SAID SECTION 12, NORTH 89 DEGREES 41 MINUTES 55 SECONDS EAST, 573.00 FEET; THENCE SOUTH 00 DEGREES 18 MINUTES 05 SECONDS EAST, 33.00 FEET TO THE POINT OF BEGINNING: THENCE SOUTH 85 DEGREES 10 MINUTES 27 SECONDS WEST, 202.83 FEET; THENCE SOUTH 89 DEGREES 41 MINUTES 55 SECONDS WEST, 172.83 FEET; THENCE ALONG THE WEST LINE OF LANDS DESCRIBED IN DOCUMENT NO. 979199, NORTH 00 DEGREES 13 MINUTES 34 SECONDS WEST, 16.00 FEET; THENCE ALONG THE EXISTING SOUTH RIGHT OF WAY OF C.T.H. AP (MIDWAY ROAD), NORTH 89 DEGREES 41 MINUTES 55 SECONDS EAST, 375.01 FEET TO THE POINT OF BEGINNING.

PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 12, TOWNSHIP 20 NORTH, RANGE 17 EAST, IN THE TOWN OF MENASHA, WINNEBAGO COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS, VIZ: COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 12; THENCE EAST, ALONG THE NORTH LINE OF SAID SECTION, 483.00 FEET, THE PLACE OF BEGINNING: THENCE SOUTH, PARALLEL WITH THE WEST LINE OF SAID SECTION, 373.00 FEET; THENCE EAST, PARALLEL WITH THE NORTH LINE OF SAID SECTION, 90.00 FEET; THENCE NORTH, PARALLEL WITH THE WEST LINE OF SAID SECTION, 373.00 FEET, TO THE NORTH LINE OF SAID SECTION; THENCE WEST, ALONG THE NORTH LINE OF SAID SECTION, 90.00 FEET TO THE PLACE OF BEGINNING. LESS AND EXCEPTING: PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 12, TOWNSHIP 20 NORTH, RANGE 17 EAST, IN BOTH THE TOWN OF MENASHA AND THE CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 12; THENCE ALONG THE NORTH LINE OF THE NW 1/4 OF SAID SECTION 12, NORTH 89 DEGREES 41 MINUTES 55 SECONDS EAST, 573.00 FEET; THENCE SOUTH 00 DEGREES 18 MINUTES 05 SECONDS EAST, 33.00 FEET TO THE POINT OF BEGINNING: THENCE SOUTH 85 DEGREES 10 MINUTES 27 SECONDS WEST, 202.83 FEET; THENCE SOUTH 89 DEGREES 41 MINUTES 55 SECONDS WEST, 172.83 FEET; THENCE ALONG THE WEST LINE OF LANDS DESCRIBED IN DOCUMENT NO. 979199, NORTH 00 DEGREES 13 MINUTES 34 SECONDS WEST, 16.00 FEET; THENCE ALONG THE EXISTING SOUTH RIGHT OF WAY OF C.T.H. AP (MIDWAY ROAD), NORTH 89 DEGREES 41 MINUTES 55 SECONDS EAST, 375.01 FEET TO THE POINT OF BEGINNING.

PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 12, TOWNSHIP 20 NORTH, RANGE 17 EAST, IN THE TOWN OF MENASHA, WINNEBAGO COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS, VIZ: COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION; THENCE SOUTH 89 DEGREES 48 MINUTES 00 SECONDS EAST, ALONG THE NORTH LINE OF SAID SECTION, 573.00 FEET, TO THE NORTHEAST CORNER OF TRACT OF LAND HEREINFORE CONVEYED BY DEED RECORDED IN VOLUME 965, ON PAGE 468; THENCE SOUTH 00 DEGREES 16 MINUTES 31 SECONDS WEST, PARALLEL WITH THE WEST LINE OF SAID SECTION (AND ALONG THE EAST LINE OF SAID TRACT OF LAND CONVEYED), 373.00 FEET, THE PLACE OF BEGINNING: THENCE NORTH 89 DEGREES 46 MINUTES 00 SECONDS WEST, ALONG THE SOUTH LINE AND EXTENDED SOUTH LINE OF SAID TRACT OF LAND CONVEYED, 167.40 FEET; THENCE SOUTH 00 DEGREES 16 MINUTES 31 SECONDS WEST, PARALLEL WITH THE WEST LINE OF SAID SECTION, 391.80 FEET; THENCE SOUTH 89 DEGREES 48 MINUTES 00 SECONDS EAST, 167.40 FEET; THENCE NORTH 00 DEGREES 16 MINUTES 31 SECONDS EAST, PARALLEL WITH THE WEST LINE OF SAID SECTION, 391.80 FEET, TO THE PLACE OF BEGINNING.

1233 MIDWAY RD.
(TAX PARCEL NO. 6-01652-00)

PARCEL B:

OUTLOT 1 OF MIDWAY BUSINESS PARK, CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN. EXCEPT FOR THE RESERVATION OF A 20 FOOT WIDE INGRESS AND EGRESS ALONG THE EAST SIDE OF OUTLOT 1, WINNEBAGO COUNTY, WISCONSIN.
MIDWAY RD.
(TAX PARCEL NO. 6-01635-00)

LEGAL DESCRIPTION: FILE NO: 113458K

THE WEST 198 FEET (12 RODS) OF THE NORTH 165 FEET (10 RODS) OF THE NW 1/4 OF SECTION 12, TOWNSHIP 20 NORTH, RANGE 17 EAST, IN THE TOWN OF MENASHA, WINNEBAGO COUNTY, WISCONSIN, EXCEPTING THEREFROM THAT PORTION TAKEN, SOLD OR USED FOR HIGHWAY PURPOSES.
1497 APPLETON, RD.
(TAX PARCEL NO. 008 0381)

SCHEDULE B-II:
CHICAGO TITLE INSURANCE COMPANY & THE TITLE COMPANY, INC.
FILE NO: 113287K, EFFECTIVE DATE: JULY 02, 2014

10) TEMPORARY LIMITED EASEMENT FOR SLOPES PER TRANSPORTATION PROJECT PLAT NO. 1517-07-21-4.21, DOES AFFECT SUBJECT PROPERTY AS SHOWN ON DRAWING.
11) COVENANTS, CONDITIONS AND RESTRICTIONS PER VOLUME 965, PAGE 468 AS DOCUMENT NUMBER 283852, DOES AFFECT SUBJECT PROPERTY AS SHOWN ON DRAWING.
- NO QUONSET, METAL BUILDING, TRAILER, OR OLD BUILDINGS SHALL BE ERECTED OR MOVED ONTO SAID PROPERTY, NO RESIDENCE OF A TEMPORARY NATURE BE PERMITTED, BUILDING SETBACK OF ANY BUILDING SHALL NOT BE LESS THAN 75 FEET FROM THE CENTER LINE OF MIDWAY ROAD OR AHEAD OF THE SETBACK LINE OF OTHER BUILDINGS ON SAID MIDWAY ROAD AND THE AREA BETWEEN THE BUILDINGS AND THE ROAD BE SEATED IN LAWN, ETC. SEE DOCUMENT FOR ADDITIONAL DETAILS.

12) EASEMENT GRANTED BY CONVEYANCE OF LANDS TO COUNTY FOR HIGHWAY PURPOSES PER VOLUME 779, PAGE 323 AS DOCUMENT NUMBER 225171, DOES NOT AFFECT SUBJECT PROPERTY.
- EASEMENT FALLS WITHIN THE RIGHT OF WAY OF APPLETON ROAD (S.T.H. "47").

13) UTILITY EASEMENT GRANTED TO WISCONSIN MICHIGAN POWER COMPANY PER VOLUME 788, PAGE 166 AS DOCUMENT NUMBER 225981, DOES NOT AFFECT SUBJECT PROPERTY.
- EASEMENT FALLS WITHIN THE RIGHT OF WAY OF APPLETON ROAD (S.T.H. "47").

14) UTILITY EASEMENT GRANTED TO WISCONSIN MICHIGAN POWER COMPANY PER VOLUME 788, PAGE 162 AS DOCUMENT NUMBER 225972, DOES NOT AFFECT SUBJECT PROPERTY.
- EASEMENT FALLS WITHIN THE RIGHT OF WAY OF APPLETON ROAD (S.T.H. "47").

15) 20' INGRESS & EGRESS EASEMENT GRANTED BY CITY OF MENASHA PER DOCUMENT NUMBER 1383994, DOES AFFECT SUBJECT PROPERTY AS SHOWN ON DRAWING.
16) PUBLIC OR PRIVATE RIGHTS, IF ANY, IN SUCH PORTIONS OF THE SUBJECT PREMISES AS MAY BE PRESENTLY USED, LAID OUT OR DEDICATED IN ANY MANNER WHATSOEVER, FOR STREET (HIGHWAY) AND/OR ALLEY PURPOSES.
17) RESERVATIONS FOR EASEMENTS AS DESIGNATED ON THE RECORDED PLAT OF "MIDWAY BUSINESS PARK" IN VOLUME 3 OF PLATS, PAGE 82 AS DOCUMENT NUMBER 1085090, DO AFFECT A PORTION OF SUBJECT PROPERTY (OUTLOT 1).
- PURSUANT TO SECTION 18.58 OF THE WINNEBAGO COUNTY LAND DIVISION ORDINANCE, UPON FINAL GRADING, THE DEVELOPER AND/OR OWNER SHALL COMPLY WITH THE SURFACE WATER DRAINAGE PLAN AS APPROVED BY THE WINNEBAGO COUNTY PLANNING AND WINNEBAGO COUNTY LAND AND WATER CONSERVATION DEPARTMENT
- MAINTENANCE OF ALL DRAINAGE WAYS AND ASSOCIATED STRUCTURES WITHIN THE SUBDIVISION ARE THE SOLE RESPONSIBILITY OF THE PROPERTY OWNERS OF THE SUBDIVISION UNLESS OTHERWISE NOTED ON THE PLAN OR REQUIRED BY THE TOWN.
- ACCESS RESTRICTION CLAUSE: AS OWNERS WE HEREBY RESTRICT ALL LOTS AND OUTLOTS, IN THAT NO OWNER, PROCESSOR, USER, NOR LICENSEE, NOR OTHER PERSON SHALL HAVE ANY RIGHT OF DIRECT VEHICULAR INGRESS OR EGRESS WITH MIDWAY ROAD AS SHOWN ON THE PLAT; IT BEING EXPRESSLY INTENDED THAT THIS RESTRICTION SHALL CONSTITUTE A RESTRICTION FOR THE BENEFIT OF THE PUBLIC ACCORDING TO SECTION 236.293, WISCONSIN STATUTES, AND SHALL BE ENFORCED BY THE CITY OF MENASHA.

SCHEDULE B-II:
CHICAGO TITLE INSURANCE COMPANY & THE TITLE COMPANY, INC.
FILE NO: 113458K, EFFECTIVE DATE: JULY 02, 2014

10) PERMANENT LIMITED EASEMENT GRANTED TO THE TOWN OF MENASHA FOR CONCRETE SIDEWALK INSTALLATION & MAINTENANCE PER DOCUMENT NUMBER 1649705, DOES AFFECT SUBJECT PROPERTY AS SHOWN ON DRAWING.
11) TEMPORARY LIMITED EASEMENT GRANTED TO THE TOWN OF MENASHA FOR GRADING PURPOSES PER DOCUMENT NUMBER 1658013, DOES AFFECT SUBJECT PROPERTY AS SHOWN ON DRAWING.
- EASEMENT SHALL TERMINATE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

12) TEMPORARY LIMITED EASEMENT FOR SLOPES PER TRANSPORTATION PROJECT PLAT NO. 1517-07-21-4.21, DOES AFFECT SUBJECT PROPERTY AS SHOWN ON DRAWING.

DIGGERS HOTLINE
TOLL FREE (800) 242-8511
MILWAUKEE AREA (414) 259-1181
HEARING IMPAIRED TDD (800) 542-2289
WWW.DIGGERSHOTLINE.COM

NOTE:

UNDERGROUND UTILITY INFORMATION HAS BEEN DETERMINED FROM ACTUAL FIELD LOCATION AND/OR MAPPING FROM THE UTILITY COMPANIES, THEREFORE EXACT LOCATION MAY NOT BE SHOWN. PRIOR TO CONSTRUCTION DIGGERS HOTLINE MUST BE CALLED FOR FIELD LOCATION.

TABLE A: ALTA/ACSM LAND TITLE SURVEY OPTIONAL ITEMS

3) SUBJECT PROPERTY IS NOT LOCATED WITHIN THE FLOOD PLAIN PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAPPING, COMMUNITY PANEL NUMBER 55139C0110E, EFFECTIVE DATE: MARCH 17, 2003
4) PARCEL ID: 113287K - 255,782 SQUARE FEET (5.8719 ACRES) OF LAND MORE OR LESS
PARCEL ID: 113458K - 14,043 SQUARE FEET (0.3224 ACRES) OF LAND MORE OR LESS.
TOTAL PARCEL CONTAINS: 269,825 SQUARE FEET (6.1943 ACRES) OF LAND MORE OR LESS.
6) C3 - BUSINESS AND OFFICE DISTRICT & C4 - BUSINESS PARK DISTRICT DIMENSIONAL REQUIREMENTS:
[CITY OF MENASHA ZONING CODE]
- MINIMUM LOT SIZE: 20,000 SQUARE FEET
- MAXIMUM LOT COVERAGE: 30% BY BUILDINGS
- MAXIMUM BUILDING HEIGHT: 45 FEET OR 3 STORIES

BUILDING SETBACKS:
- MINIMUM FRONT YARD SETBACK: 25 FEET FOR STRUCTURES, 10 FEET FOR PARKING AND PAVED AREAS
- MINIMUM SIDE YARD: 10 FEET FOR STRUCTURES, PARKING, AND PAVED AREAS
- MINIMUM REAR YARD: 25 FEET FOR STRUCTURE, 10 FEET FOR PARKING OR PAVED AREAS

- ANY NEW CONSTRUCTION REQUIRES CONDITIONAL SITE PLAN APPROVAL

9) NUMBER OF PARKING STALLS:
0 REGULAR STALLS PRESENT
0 HANDICAPPED STALLS PRESENT
0 TOTAL PARKING STALLS PRESENT
17) ROADWAY PROJECT IS SCHEDULED FOR THE INTERSECTION OF MIDWAY ROAD (C.T.H. "AP") AND APPLETON ROAD (S.T.H. "47") NEXT SUMMER ACCORDING TO CRAIG J. SETTERSTEN, ENGINEERING SPECIALIST WISCONSIN DEPARTMENT OF TRANSPORTATION.

TO CONVENIENCE STORE INVESTMENTS, A WISCONSIN LIMITED PARTNERSHIP, CHICAGO TITLE INSURANCE COMPANY AND THE TITLE COMPANY, INC.:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 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, 11(a), 11(b), 14, 17, 20(a) AND 22 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON AUGUST 11, 2014.

DATE OF PLAT OR MAP: 11-11-2014

ROBERT F. REIDER, RLS-1251

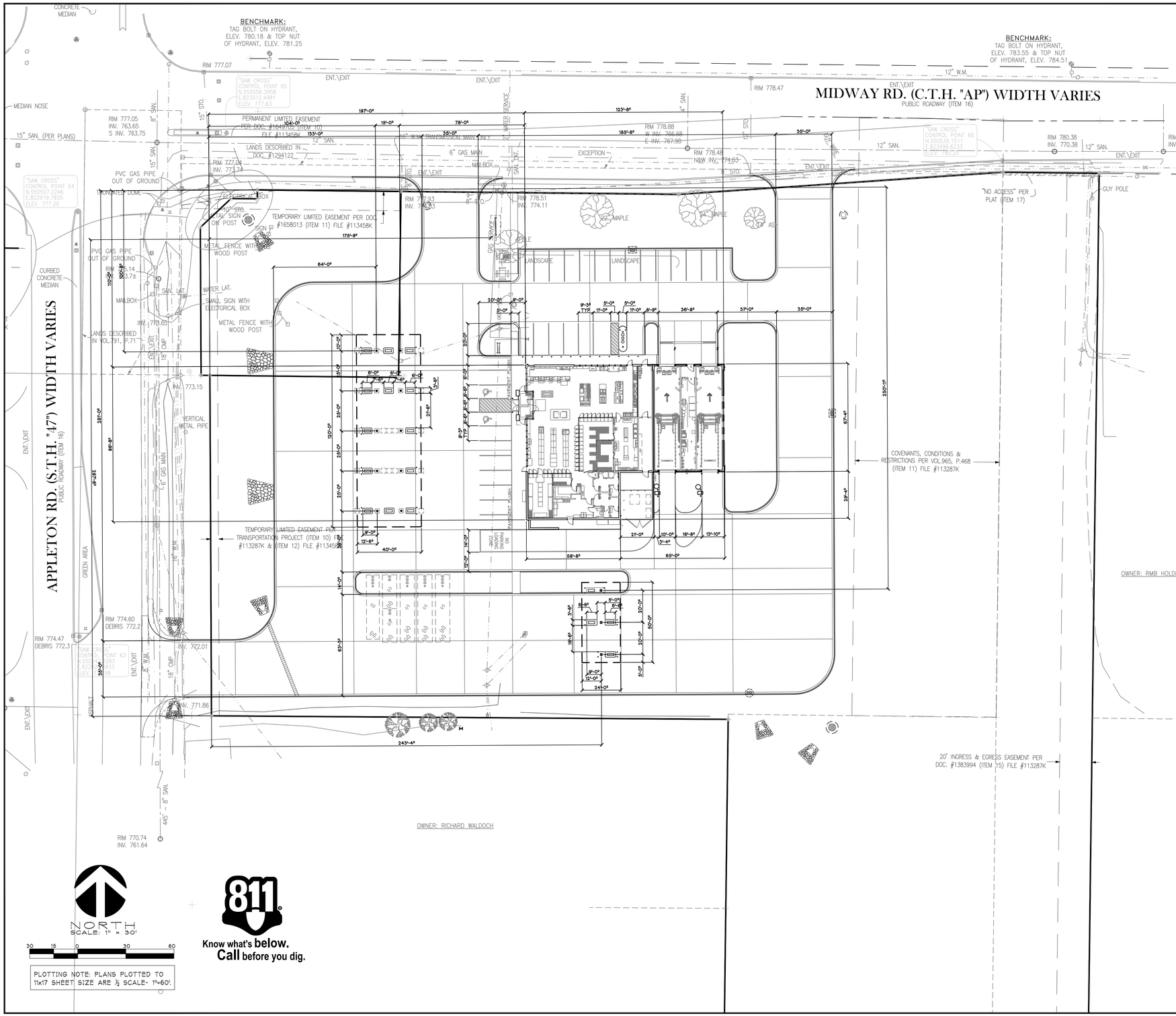
WISCONSIN ROBERT F. REIDER S-1251 APPLETON, WIS. LAND SURVEYOR

SHEET NO.	SCALE	DATE	PROJECT NO.	DESIGNED	DRAWN	CHECKED
	1" = 30'	9-4-2014	C1407.13		RDD	RFR

KWIK TRIP, INC.
ATTENTION: BRAD FRY, P.E.
1626 OAK STREET, P.O. BOX 2107
LA CROSSE, WISCONSIN 54602
PROJECT: CITY OF MENASHA, STORE #297 & PO #M79746434

CAROW LAND SURVEYING CO., INC.
615 N. LYNNDALE DRIVE
APPLETON, WISCONSIN 54912-1297
PHONE: (920)731-4168 FAX: (920)731-5673

INT.	DATE	REVISIONS
RDD	10-13-2014	STORM SEWER



CONSTRUCTION NOTE:

Construction fencing to be installed around entire construction site. Coordinate with owner for fencing and gate locations and appropriate signage installation.

LAYOUT NOTES:

1. PLAN PREPARED FROM AN ALTA/ACSM LAND TITLE SURVEY BY:
   CAROW LAND SURVEYING INC
   920-731-4168
   DATED 09-04-2014
2. CURBS ARE DIMENSIONED TO FACE OF CURB.
3. CONVENIENCE STORE, CAR WASH AND ISLAND COMPLEXES ARE LOCATED FROM THE SOUTHWEST PROPERTY CORNER AND ALIGNED PARALLEL/ PERPENDICULAR TO THE WEST PROPERTY LINE UNLESS OTHERWISE INDICATED ON THIS PLAN.
4. UNLESS SHOWN OTHERWISE ON THIS DRAWING, CONTRACTOR SHALL PROVIDE CONTROL JOINTS, CONSTRUCTION JOINTS, AND EXPANSION JOINTS IN SLAB ON GRADE, SIDEWALKS AND DRIVES. CONTROL JOINT MAXIMUM DISTANCE: WALKS- 8' O.C., ALL OTHERS- 10' O.C. SAW CUT CONTROL JOINTS MINIMUM ONE-QUARTER CONCRETE THICKNESS. EXPANSION JOINT MAXIMUM DISTANCE: WALKS- 24' O.C., ALL OTHERS- 40' O.C. DOWEL ALL EXPANSION JOINTS- MAXIMUM 24" O.C.
5. CONCRETE IN ISLAND COMPLEX SHALL BE SMOOTH FINISHED.
6. EXTERIOR CONCRETE SURFACES TO BE SEALED. CONCRETE SEALER:
   APR 15- OCT 31 USE: TK-26UV
   NOV 1- DEC 31 USE: TK-290
7. EXPANSION JOINTS SHALL BE DECK-O-FOAMED AND CAULKED WITH SL1

SITE DATA:

ZONING DISTRICT:	C3
TOTAL SITE AREA- TOTAL:	269,825 SF
EX. IMPERVIOUS:	-
EX. PERVIOUS:	-
PARKING REQUIREMENTS	
PARKING REQUIRED	-
PARKING PROVIDED	30 STALLS 20 SRV. PNTS, 2 DIESEL
BUILDING HEIGHTS	
CONVENIENCE STORE	23.5'
CAR WASH	14'
CANOPY	20.0'
BUILDING SETBACKS	
FRONT	25/ 10'
SIDE	10'
REAR	25/ 10'

PROPOSED LOT GREEN AREA:	175,345 SF	65%
PROPOSED HARD COVER:	94,480 SF	35%
PAVED AREA:	84,335 SF	31%
BUILDING AREA:	10,145 SF	4%

KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LA-378
PLYMOUTH, MN
REGISTERED LANDSCAPE ARCHITECT
2014 10-20

SITE PLAN

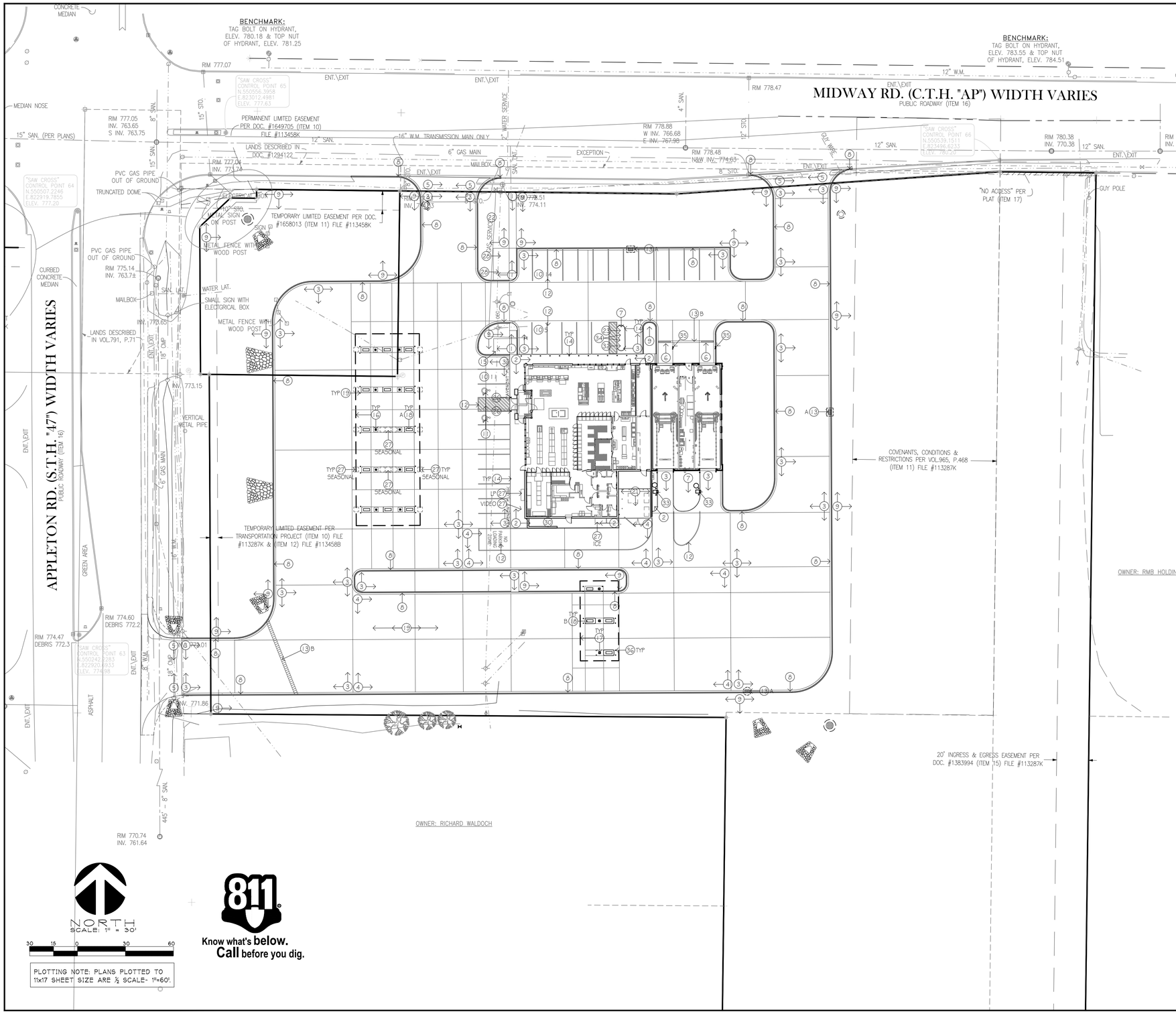
CONVENIENCE STORE 297

- MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	-	-

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-20
SHEET	SP1

INSITES 14-030



SITE PLAN KEYNOTES

1. 4" DEPTH CONCRETE WALK PER DETAIL 4/SP5
2. 6" INTEGRAL CONCRETE CURB/ WALK. SEE DETAIL 7/SP5 FOR NON-FLUSH SECTIONS. CONCRETE SEALER: TK-26UV
3. 6" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #3 REBAR. CONCRETE SEALER: TK-26UV
4. 8" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #3 REBAR. CONCRETE SEALER: TK-26UV
5. 8" DEPTH CONCRETE APPROACH PER DETAIL 5/SP5
6. 6" CONCRETE PAD WITH SNOW MELT PER MECHANICAL PLANS
7. CONCRETE CURB ISLAND
8. B6-12 CONCRETE CURB AND GUTTER PER DETAIL 11/SP5.
9. LANDSCAPE AREA. SEE SHEET L1.
10. OFF-STREET PARKING STALLS STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY WHITE PAINT. SPACES PROVIDED (20) SERVICE POINTS (28) 9'-0"x 20'-0"(MIN.) GENERAL PARKING (2) 8'-6"x 20'-0" ACCESSIBLE PARKING WITH (1) 8'-6"x 20'-0" LOADING ZONE
11. A.D.A. ACCESSIBLE PARKING SPACE WITH LOADING ZONE. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS.
12. 4" WIDE, HIGH VISIBILITY, PAVEMENT STRIPING, LANE MARKINGS AND TEXT. COLOR: HC MARKINGS- BLUE, ALL OTHERS- YELLOW.
13. STORM STRUCTURE. SEE SHEETS SP2-SP4 FOR FURTHER STORM SEWER INFORMATION.
    A. CATCH BASIN CURB INLET PER DETAIL 8/SP6
    B. TRENCH DRAIN PER DETAIL 6/SP6
    C. OIL SKIMMER PER DETAIL PER DETAIL ON SHEET SP5
    D. MANHOLE, FRAME AND BEE-HIVE GRATE SIMILAR TO DETAIL 5/SP6
14. 30" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 9/SP5.
15. 8 STALL BIKE RACK WITH 4" CONCRETE PAD (BRP 300 TRADITIONAL BIKE RACK-SINGLE SIDE PORTABLE/ SURFACE MOUNT ENDS FUSION COATINGS - A DIVISION OF RTM INC. TO BE PROVIDED BY OWNER)
16. 40'-0"x 120'-0" DISPENSER ISLAND CANOPY VERIFY SIZE, PLACEMENT, COLUMN AND FOOTING SIZE WITH CANOPY AND STRUCTURAL PLANS. CANOPY GRAPHICS PER OWNER.
17. 24'-0"x 50'-0" COMMERCIAL DEISEL DISPENSER ISLAND CANOPY. VERIFY SIZE, PLACEMENT, COLUMN AND FOOTING SIZE WITH CANOPY AND STRUCTURAL PLANS. CANOPY GRAPHICS PER OWNER.
18. CONCRETE ISLANDS W/ 6" EXPOSURE WITH FUEL DISPENSERS. DISPENSER PER OWNER.
    A. 3'-6"x 6'-0"
    A. 3'-6"x 6'-6"
19. 36" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD SIMILAR TO DETAIL 9/SP5.
20. UNDERGROUND FUEL STORAGE TANKS PER OWNER. PROVIDE PIPING AND VENTING PER OWNER'S SPECIFICATIONS.
21. EXTERNAL TRASH ENCLOSURE TO MATCH BUILDING. SEE ARCHITECTURAL DETAILS.
22. KWIK TRIP TRADEMARK SIGN SUBJECT TO SEPARATE REVIEW AND APPROVAL (VERIFY FINAL LOCATION WITH SIGN PERMIT)
23. 'FREE AIR' COMPRESSOR. PROVIDE SIGNAGE PER OWNER.
24. SITE AREA LIGHT WITH CONCRETE BASE PER DETAIL 12/SP5
25. PVC IRRIGATION SLEEVE UNDER PAVEMENT. VERIFY W/ IRRIGATION PLAN FOR EXACT SIZE AND LOCATION BEFORE INSTALLATION.
26. HC PVC BOLLARD SLEEVE PER OWNER. VAN ACCESS SIGNAGE AT 48" HT. STALL PARKING AT 60" HT.
27. OUTDOOR MERCHANDISING AREA
28. PICNIC TABLE PER OWNER. PROVIDE 1 HC. ACCESS TABLE SPACE. PROVIDE TRASH CONTAINER PER OWNER.
29. MAINTENANCE STORAGE SHED
30. EXTERIOR DELIVERY 'TOTE' STORAGE WITH SCREEN WALL
31. ELECTRICAL TRANSFORMER
32. ELECTRIC CAR CHARGER
33. CAR WASH KEY PAD/ CONTROLLER. PROVIDE TRASH CONTAINER
34. VACUUM PER MANUFACTURE'S SPECIFICATIONS
35. CAMERA PER CAR WASH EQUIPMENT PLANS
36. 84" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 8/SP5.

KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LA-378
PLYMOUTH, MN
REGISTERED LANDSCAPE ARCHITECT
2014 10-20

SITE PLAN KEYNOTE

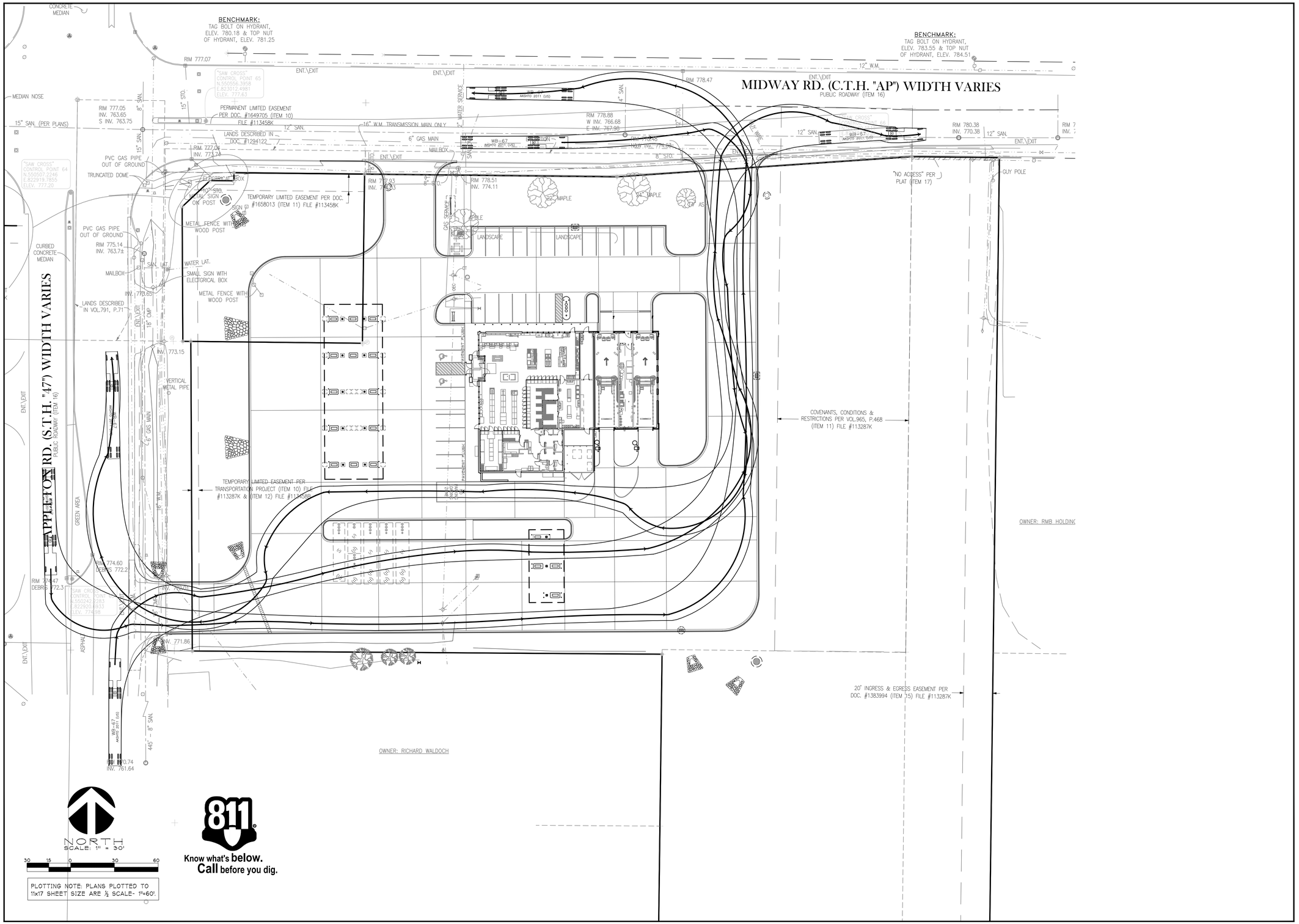
CONVENIENCE STORE 297

- MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	-	-

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-20
SHEET	SP1.1

INSITES 14-030



KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LA-376
PLYMOUTH, MN
REGISTERED LANDSCAPE ARCHITECT
2014 10-20

SITE TURNING MOVEMENTS

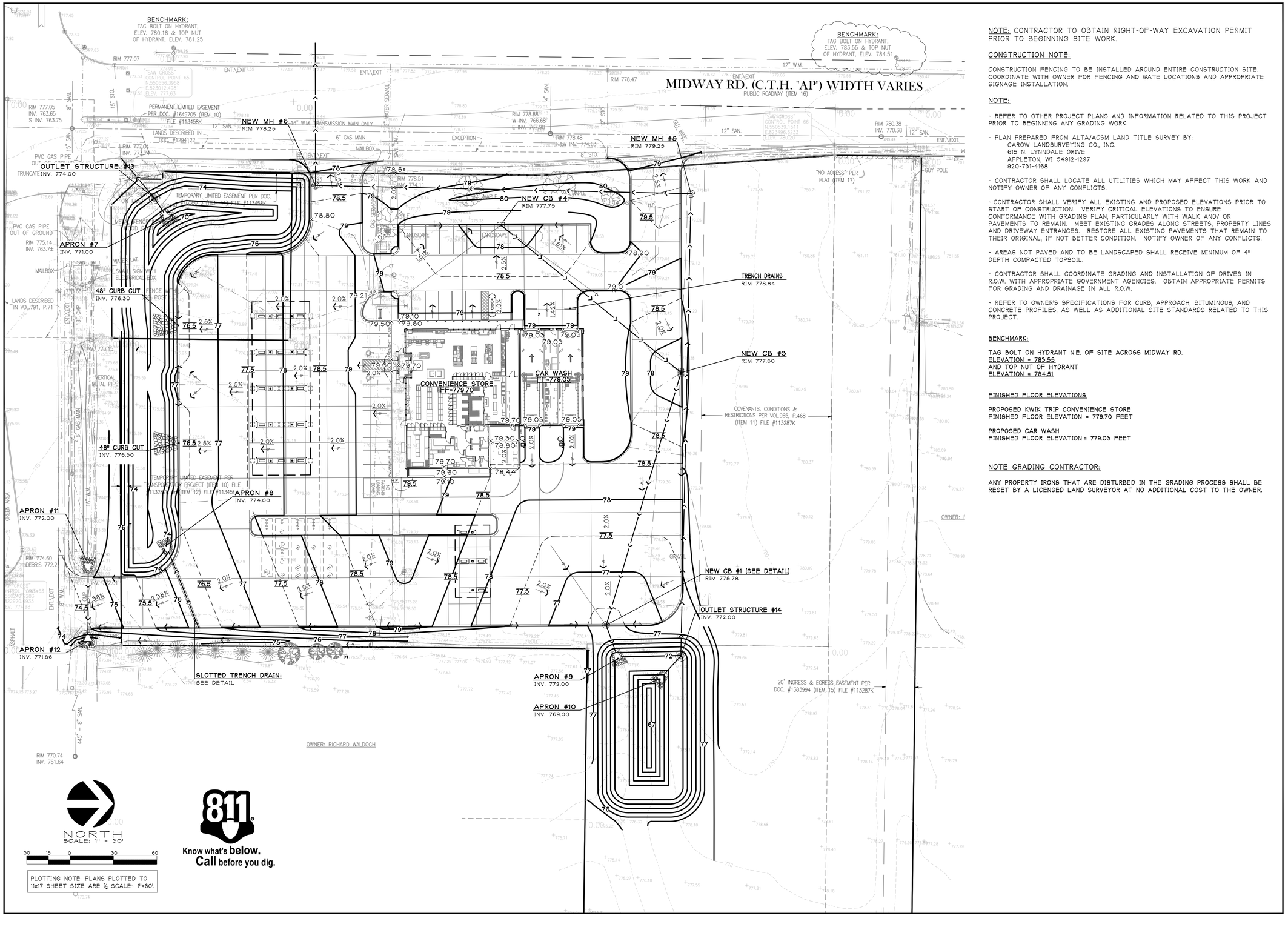
CONVENIENCE STORE 297

- MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	-	-

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-20
SHEET	SP1.2

INSITES 14-030



NOTE: CONTRACTOR TO OBTAIN RIGHT-OF-WAY EXCAVATION PERMIT PRIOR TO BEGINNING SITE WORK.

CONSTRUCTION NOTE:

CONSTRUCTION FENCING TO BE INSTALLED AROUND ENTIRE CONSTRUCTION SITE. COORDINATE WITH OWNER FOR FENCING AND GATE LOCATIONS AND APPROPRIATE SIGNAGE INSTALLATION.

NOTE:

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

- PLAN PREPARED FROM ALTA/ACSM LAND TITLE SURVEY BY:
  CAROW LANDSURVEYING CO., INC.
  615 N. LYNDALE DRIVE
  APPLETON, WI 54912-1297
  920-731-4168

- 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.

BENCHMARK:

TAG BOLT ON HYDRANT N.E. OF SITE ACROSS MIDWAY RD.
ELEVATION = 783.55
AND TOP NUT OF HYDRANT
ELEVATION = 784.51

FINISHED FLOOR ELEVATIONS

PROPOSED KWIK TRIP CONVENIENCE STORE
FINISHED FLOOR ELEVATION = 779.70 FEET

PROPOSED CAR WASH
FINISHED FLOOR ELEVATION = 779.03 FEET

NOTE GRADING CONTRACTOR:

ANY PROPERTY IRONS THAT ARE DISTURBED IN THE GRADING PROCESS SHALL BE RESET BY A LICENSED LAND SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.

KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LA-376
PLYMOUTH, MN
LANDSCAPE ARCHITECT
2014 10-20

GRADE PLAN

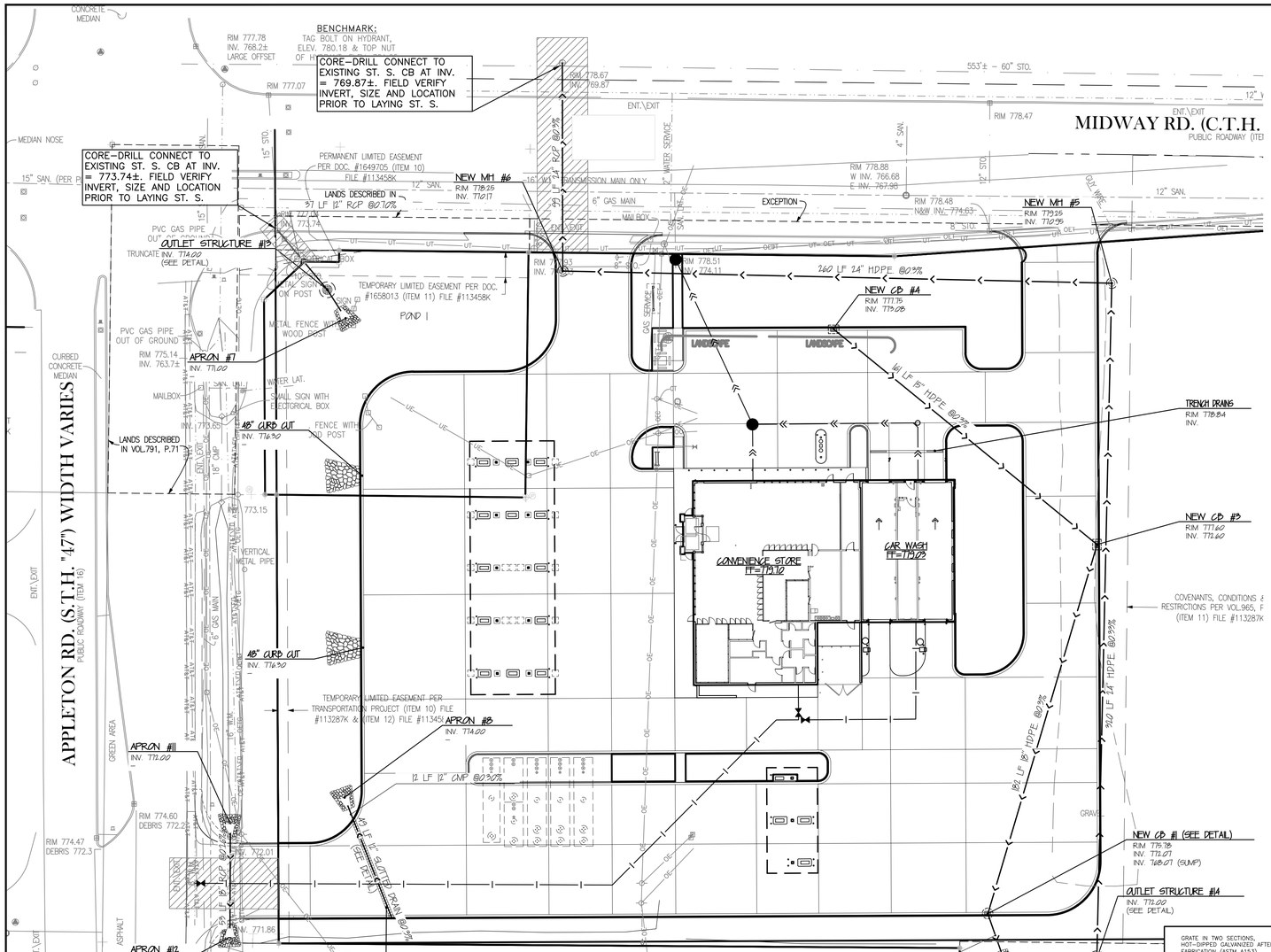
CONVENIENCE STORE 297

- MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	-	-

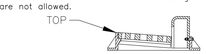
DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-20
SHEET	SP2

INSITES 14-030



STORM DRAINAGE:

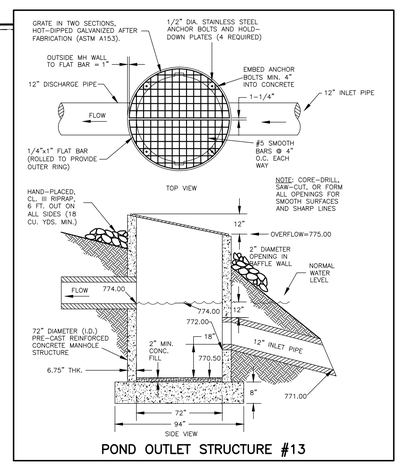
1. Unless otherwise indicated, use reinforced, precast, concrete maintenance holes and catchbasins conforming to ASTM C478, furnished with water stop rubber gaskets and precast bases. Joints for all precast maintenance hole sections shall have confined, rubber "O"-ring gaskets in accordance with ASTM C923. The inside barrel diameter shall not be less than 48 inches.
2. All joints and connections to catchbasins or manholes shall be watertight. Use resilient rubber seals, waterstop gaskets, or approved equal. Cement mortar joints are not allowed.
3. Install catchbasin castings with specified top elevation at the front rim.



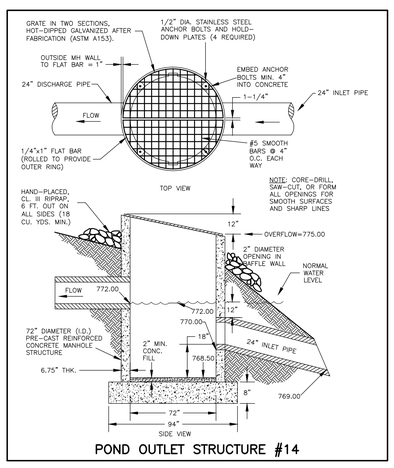
4. PVC Pipe: Use solid-core, SDR-35, ASTM D3034 Polyvinyl Chloride (PVC) Pipe for designated PVC storm sewer services 4 to 15-inches in diameter. Use solid-core, SDR-35, ASTM F679 Polyvinyl Chloride (PVC) pipe for designated PVC storm sewer services 18 to 27-inches in diameter. Joints for all storm sewer 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. 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.
5. 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.
6. RC Aprons: Install a reinforced concrete apron on the free end of all daylighted RCP storm sewer pipes. Tie the last three sections (including apron) of all daylighted RCP storm sewer with a minimum of two tie bolt fasteners per joint. This requirement applies to both upstream and downstream pipe inlets and outlets. For concrete culverts, tie all joints. Ties to be used only to hold the pipe sections together, not for pulling the sections tight. Nuts and washers are not required on inside of 675 mm (27 inch) or less diameter pipes. Install safety-trash racks on all concrete aprons.
7. 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. 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.
8. Use Neenah R-3067-DR/DL casting with curb box, or approved equal, on CB #1, CB #3 and CB #4.
9. 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.
10. 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 blue Rhino TriView Flex Test Stations, or approved equal, with black caps at each surface location.
11. 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.
12. 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.
13. 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.
14. Line ponds with 2' thick clay liner per detail.
15. 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 upgrade. 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.

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.



POND OUTLET STRUCTURE #13



POND OUTLET STRUCTURE #14

KWIK TRIP STORES

KWIK STAR STORES

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

Sunde Engineering, PLLC.
SUNDE ENGINEERING, PLLC.
10830 NESBITT AVENUE SOUTH
BLOOMINGTON, MINNESOTA 55437
(952) 881-3344 TELEPHONE
(952) 881-3313 FAX
www.sundecivil.com
CONSULTING CIVIL ENGINEERS

LICENSED PROFESSIONAL ENGINEER
BRIAN H. MUNDSTOCK
E-34859
BLOOMINGTON, MN

STORM SEWER PLAN

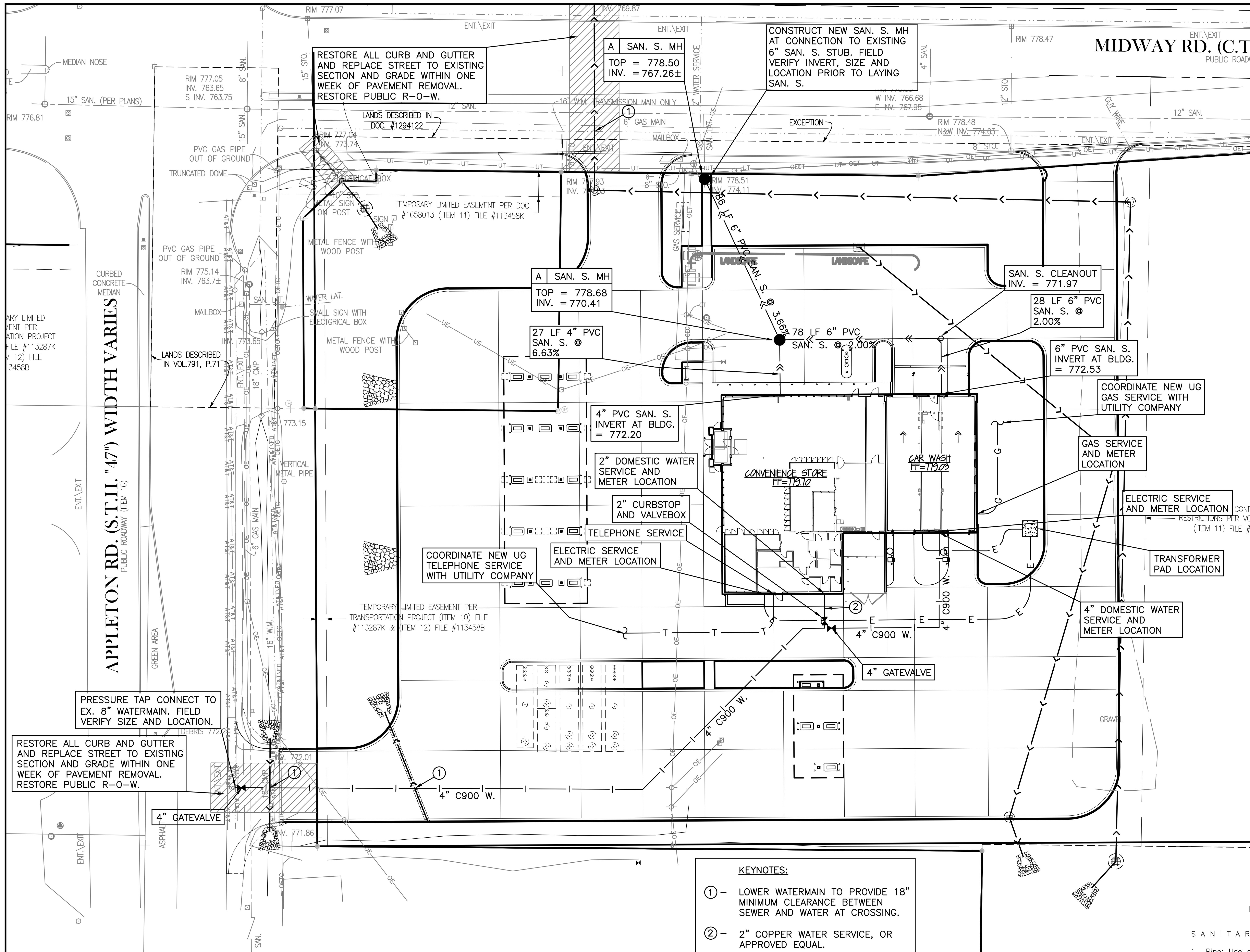
CONVENIENCE STORE 297

- MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
–	–	–

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-09
SHEET	SP3

INSITES 14-030



GENERAL:

1. Comply with the work safety practices specified by the Occupational Safety and Health Administration (OSHA). Comply with all applicable local, state, and federal safety regulations. OSHA prohibits entry into "confined spaces," such as manholes and inlets (see 29 CFR Section 1910.146), without undertaking certain specific practices and procedures. Construction safety is solely the responsibility of the Contractor, who is also solely responsible for the means, methods, and sequencing of the construction operations.
2. Existing boundary, location, topographic, and utility information shown on this plan is from a field survey by Carow Land Surveying Co., Inc. dated 9-4-14.
3. Perform all utility work in accordance with State and City requirements.
4. Connect to existing sanitary sewer MH's by coredrilling. Connect to existing storm sewer MH's by either sawcutting or coredrilling. Use saws or drills that provide water to the blade. Meet all City standards and specifications for the 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.
5. Perform trench excavations for all utilities in accordance with the requirements of O.S.H.A. 29 CFR, Part 1926, Subpart P, "Excavations and Trenches." (www.osha.gov)
6. Coordinate building utility connection locations at 5 ft. out from the proposed building with the with the interior plumbing contractor prior to construction. Verify water and sewer service locations and elevations with the Mechanical Engineer prior to construction.
7. 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 Guidelines for the Collection and Depiction of Existing Subsurface Utility Data."
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Straight line saw-cut existing bituminous or concrete surfacing at the perimeter of pavement removal areas. Use saws that provide water to the blade. Tack, and match all connections to existing bituminous pavement.
14. Relocate overhead power, telephone, and cable lines as required.
15. 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.
16. Restore the public right-of-way. 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.
17. 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.
18. Adjust all curb stops, valve boxes, maintenance hole castings, catchbasin castings, cleanout covers, and similar items to finished grade.
19. 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 upgrade. 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.
20. Obtain and pay for all permits, tests, inspections, etc. required by agencies that have jurisdiction over the project. 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.
21. Obtain permits from the City for work in the public right-of-way.
22. 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.
23. 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.
24. 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 upgrade. 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.

SANITARY SEWER:

1. Pipe: Use solid-core, SDR-35, ASTM D3034 (or approved equal) Polyvinyl Chloride (PVC) Plastic Pipe for all designated PVC sanitary sewer services. Joints for all sanitary 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. 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.
2. Cleanouts: Install cleanouts on all sanitary sewer services. The distance between cleanouts in horizontal piping shall not exceed 100 feet for pipes 4-inch and over in size. Cleanouts shall be of the same nominal size as the pipes they serve. Include frost sleeves and concrete frame and pipe support. Install a meter box frame and solid lid (Neenah R-1914-A, or approved equal) over all cleanouts.
3. Testing: Pressure test all sanitary sewer lines. Test all flexible sanitary 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.
4. Unless otherwise indicated, use reinforced, precast, concrete maintenance holes conforming to ASTM C478, furnished with precast bases. Sanitary sewer maintenance holes shall be supplied with pre-formed inverts and flexible neoprene sleeve connections for all lateral lines 375 mm (15 inches) in diameter or less, unless otherwise indicated. Joints 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.
5. Install flexible watertight frame/chimney seals on all sanitary sewer maintenance holes. Use either Manufactured Maintenance Hole Frame/Chimney Seals or Elastomeric Waterproofing Frame/Chimney Seals.
6. Use Neenah Foundry Co. R-1642 casting with self-sealing, solid, type B lid, or approved equal, on all sanitary sewer maintenance holes. Covers shall bear the "Sanitary Sewer" label.
7. The minimum depth of cover for sanitary sewer without insulation is 5 feet. Insulate sanitary sewer services 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.
8. 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 the Wisconsin Statutes 182.0175(2r) and the Wisconsin Department of Safety and Professional Services SPS 82.30(11)(h).

WATER DISTRIBUTION SYSTEM:

1. Bring all site utilities to 5' outside of the building line with the exception of the water service. Extend water service into the building and up to the flange for the water meter.
2. Separation of Water and Sewer: Provide a minimum horizontal separation of 10 feet between all water and sewer lines. Provide a minimum separation of 18 inches at all water line and sewer line crossings.
3. Watermain Depth: Maintain 7.5 feet of cover over the top of the water lines to the finished grade. Verify elevation of proposed and existing water lines at all utility crossings. Install the water lines at greater depths in order to clear storm sewers, sanitary sewers, or other utilities as required. Include costs to lower water lines in the base bid.
4. Disinfection: Disinfect all completed watermains in accordance with AWWA Standard C651. If the tablet or continuous feed methods are used, disinfect using with water that contains at least 50 ppm of available chlorine. Do not use the tablet method on solvent-welded plastic or on screwed-joint steel pipe because of the danger of fire or explosion from the reaction of the joint compounds with the calcium hypochlorite. Retain the treated water in the pipeline for at least 24 hours. Measure the chlorine residual at the end of the 24 hour period. The free chlorine residual must be at least 10 mg/l measured at any point in the line. Measurement of the chlorine concentration at regular intervals shall be in accordance with Standard Methods, AWWA M-12, or using appropriate chlorine test kits.
5. Testing: Pressure test and perform bacteriological tests on all water lines under the supervision of the City Public Works Department. Notify the City at least 24 working hours prior to any testing. Pressurize the waterline to 1034-kPa (150-psi) gauge pressure (measured at the point of lowest elevation) by means of a pump connected to the pipe in a satisfactory manner. Maintain the test pressure for a minimum of 2 hours. Do not add water to the watermain in order to maintain the required pressure during the water main pressure testing. The test section of pipe is acceptable with a pressure drop of 14 kPa (2 psi) or less.
6. Use mechanical joint restraint devices for joint restraint on all watermain bends having a vertical or horizontal deflection of 22-1/2 degrees or greater, all valves, stubs, extensions, tees, crosses, plugs, all hydrant valves, and all hydrants in accordance with City requirements. Use "Series 1100 Megalug" manufactured by EBAA Iron Inc., Eastland, Texas, or approved equal, installed in accordance with manufacturer's recommendations for restraint on Ductile Iron Pipe.
7. At all valve locations which require a 12" or smaller valve, install gate valves which are of the compression resilient seated (CRS) type. Use American Flow Control's Series 2500 Ductile Iron Resilient Wedge Gate Valve, or approved equal. Gate valves shall conform to AWWA C509. Install cast iron valve boxes conforming to ASTM A48 at each valve location. Valve boxes shall be the three-piece type with 5-1/4" shafts. Use Tyler 6860-G with No. 6 base, or equivalent. Valve boxes shall have at least 6" of adjustment above and below finished grade. Drop covers on valve boxes shall be round and bear the word "WATER" cast on the top. Use Tyler 6860-G "Stayput" covers with extended skirt, or equivalent.
8. Use Mueller H 10300 or Ford EM 2 7057, or approved equal, at all curb stop locations. Stationary rod is required on all curb stops.
9. Polyvinyl Chloride (PVC) Building Water Services: ASTM D2241 or ASTM D1785; pressure rated for water.
10. Polyvinyl Chloride (PVC) Watermain: Use AWWA C900 for all PVC watermain furnished with integral elastomeric bell and spigot joints; minimum pressure Class 150; dimension ratio not greater than 18; laying length 20 feet. Use EBAA Iron, Inc., "Series 2000 PV Megalug," or approved equal for restraint on C900 PVC watermain. Lay trace wire with all C900 PVC watermain.
11. 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 the Wisconsin Statutes 182.0175(2r) and the Wisconsin Department of Safety and Professional Services SPS 82.30(11)(h).
12. Use ANSI/AWWA C151/A21.51 Thickness Class 52 or Pressure Class 350 Ductile Iron Pipe (DIP) with push-on joints for all watermain. Use only stainless steel bolts and nuts on all watermain fittings, valves, and hydrants.
13. Polyethylene encasement is required on all ductile iron pipe.

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

NORTH
SCALE: 1" = 30'

30 15 0 30 60

PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE ½ SCALE- 1"=60'.

KWIK TRIP STORES ™

KWIK STAR STORES ™

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

SUNDE ENGINEERING, PLLC.
10830 NESBITT AVENUE SOUTH
BLOOMINGTON, MINNESOTA 55437
(952) 881-3344 TELEPHONE
(952) 881-1913 FAX
www.sundecivil.com
CONSULTING CIVIL ENGINEERS

WISCONSIN PROFESSIONAL ENGINEER
BRIAN H. MUNDSTOCK
E-34859
BLOOMINGTON, MN

UTILITY PLAN

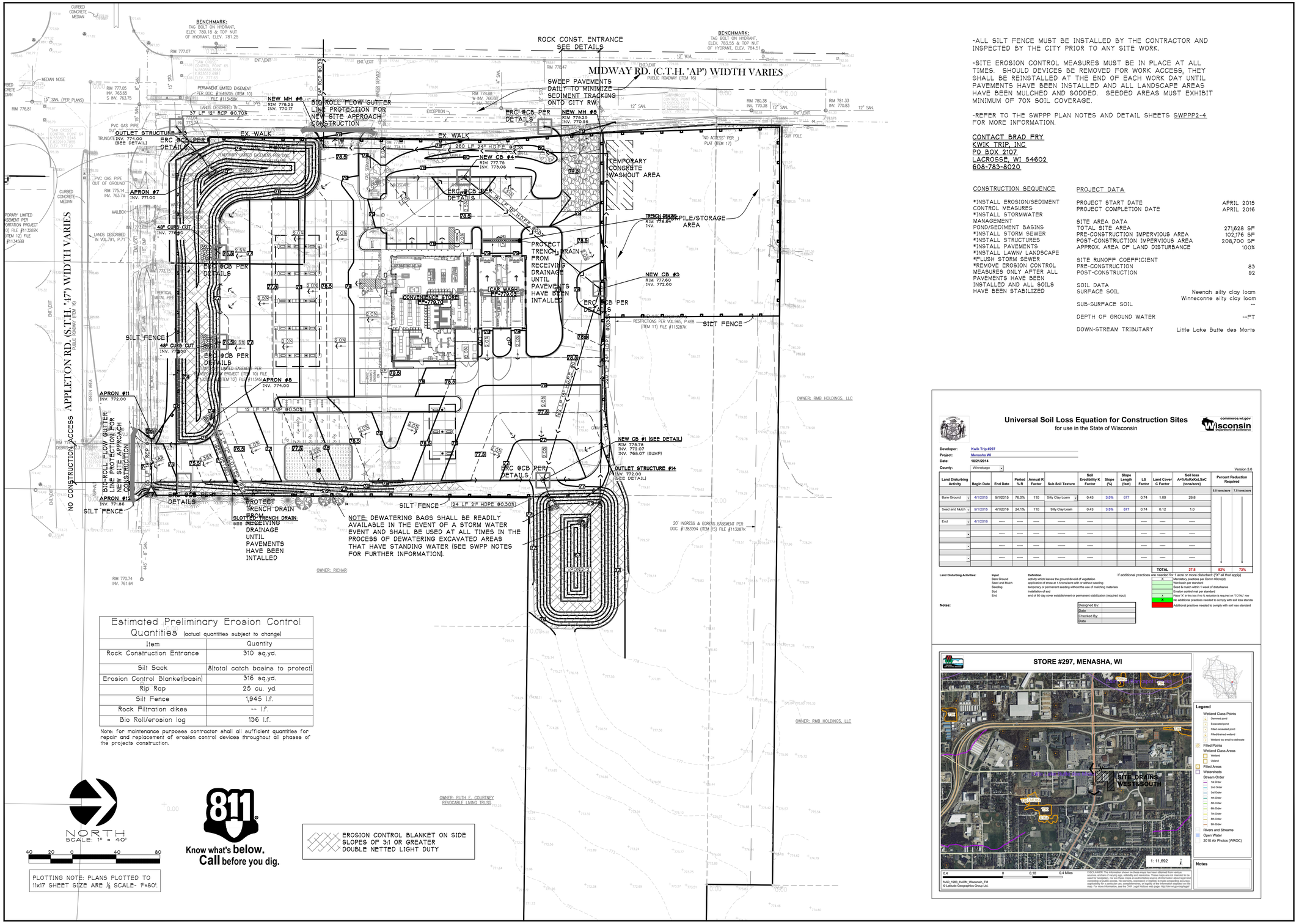
CONVENIENCE STORE 297

MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	-	-

DRAWN BY
SCALE GRAPHIC
PROJ. NO. 14297
DATE 2014 10-09
SHEET **SP4**

INSITES 14-030



Estimated Preliminary Erosion Control Quantities (actual quantities subject to change)	
Item	Quantity
Rock Construction Entrance	310 sq.yd.
Silt Sack	8(total catch basins to protect)
Erosion Control Blanket(basin)	316 sq.yd.
Rip Rap	25 cu. yd.
Silt Fence	1,945 l.f.
Rock Filtration dikes	-- l.f.
Bio Roll/erosion log	136 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.

-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 BRAD FRY
KWIK TRIP, INC
PO BOX 2107
LACROSSE, WI 54602
608-783-8020

CONSTRUCTION SEQUENCE

*INSTALL EROSION/SEDIMENT CONTROL MEASURES
*INSTALL STORMWATER MANAGEMENT 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

PROJECT DATA

PROJECT START DATE	APRIL 2015
PROJECT COMPLETION DATE	APRIL 2016
SITE AREA DATA	
TOTAL SITE AREA	271,628 SF
PRE-CONSTRUCTION IMPERVIOUS AREA	102,176 SF
POST-CONSTRUCTION IMPERVIOUS AREA	208,700 SF
APPROX. AREA OF LAND DISTURBANCE	100%
SITE RUNOFF COEFFICIENT	
PRE-CONSTRUCTION	.83
POST-CONSTRUCTION	.92
SOIL DATA	
SURFACE SOIL	Neenah silty clay loam Winneconne silty clay loam
SUB-SURFACE SOIL	--
DEPTH OF GROUND WATER	--FT
DOWN-STREAM TRIBUTARY	Little Lake Butte des Morts

Universal Soil Loss Equation for Construction Sites

for use in the State of Wisconsin

commerce.wi.gov Wisconsin Department of Commerce

Developer: Kwik Trip #297
Project: Menasha WI
Date: 10/21/2014
County: Winnebago

Version 3.0

Land Disturbing Activity	Begin Date	End Date	Period % R	Annual R Factor	Sub Soil Texture	Soil Erodibility K Factor	Slope (%)	Slope Length (feet)	LS Factor	Land Cover C Factor	Soil loss A=(R)x(K)x(LS)xC (tons/acre)	Percent Reduction Required 5.0 tons/acre	7.5 tons/acre
Bare Ground	4/1/2015	9/1/2015	76.0%	110	Silty Clay Loam	0.43	3.5%	677	0.74	1.00	26.8		
Seed and Mulch	9/1/2015	4/1/2016	24.1%	110	Silty Clay Loam	0.43	3.5%	677	0.74	0.12	1.0		
End	4/1/2016	-----	-----	-----	------	-----			-----	-----	-----		
		-----	-----	-----	------	-----			-----	-----	-----		
		-----	-----	-----	------	-----			-----	-----	-----		
		-----	-----	-----	------	-----			-----	-----	-----		
		-----	-----	-----	------	-----			-----	-----	-----		
										TOTAL	27.8	82%	73%

Land Disturbing Activities:

Input	Definition
Bare Ground	activity which leaves the ground devoid of vegetation
Seed and Mulch	application of straw at 1.5 tons/acre with or without seeding
Seeding	temporary or permanent seeding without the use of mulching materials
Sod	installation of sod
End	end of 80 day cover establishment or permanent stabilization (required input)

If additional practices are needed for 1 acre or more disturbed: ("X" all that apply)

X	Mandatory practices per Comm 60(wq)3
	Wet basin per standard
	Seed & mulch within 1 week of disturbance
	Erosion control mat per standard
X	Place "X" in this box if no % reduction is required on "TOTAL" row
X	No additional practices needed to comply with soil loss standards
	Additional practices needed to comply with soil loss standard

Notes:

Designed By:
Date
Checked By:
Date

KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LA-378
PLYMOUTH, MN
LANDSCAPE ARCHITECT
2014 10-20

EROSION CONTROL PLAN

CONVENIENCE STORE 297

- MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	-	-

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-20
SHEET	SWP1

INSITES 14-030

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 SWPP 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 SWPP plan. All notes, photographs, recorded dates, sketches, references, and diagrams will have to be recorded and made available as part of the SWPP 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:

Name: Brad Fry
Company: Kwik Trip Inc.
Address: Kwik Trip, Inc. - Store Engineering
1626 Oak Street, P.O. Box 2107
La Crosse, WI 54601-2107
Telephone: (608) 783-8020

SITE INVESTIGATION, INSTALLATION, IMPLIMENTATION :

1. 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.

2. Install all temporary erosion and sedement 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 clearing, grading, or other land-disturbing activity.

3. Prior to beginning site clearing 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.

4. 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 entrace 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 visably signed as such. Provide shovels, brooms and/or hose with a wash out area so soils can be removed from vehicles on site.

5. Avoid entire removal of trees and surface vegetation all at once whenever possible as this limits the amount of site subsceptable 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.

6. Following initial soil disturbance or redisturbance, 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 minumum 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 dissapate the water energy. Provide pipe outlets with temporary or permanent energy dissipation within 24 hours of connection to a surface water.

7. Receving Waters - It is the contractors responsibility to inspect the site discharge point as well as downstream to the reciving 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:

1. Designate a Concrete Wash-out and truck wash area:
   Make it visible in the field to vehicle operators and note this on the SWPP 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.

2. 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.

3. 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.

4. Machinery: and mechanicalized equipment that leaks waste shall have a protective barrier or containment under the device adequate to contain the waste. Properly dispose of the waste.

5. 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 spored on site to supplement and use in problem areas during all phazes 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 perpedicular 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 are 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 WIMCO, 799 Theis Drive, Shakopee, MN, 55379, Phone (952) 233-3055. or approved equal

b. Silt Sack manufactured by ACF ENVIRONMENTAL, 2831 Cardwell Road, Richmond, VA, 23234, Phone (800) 448-3636. or approved equal

c. InfraSafe Sediment Control Barrier. Install geotextile sack 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, Stacy, 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

Riprap:
Place a 450 mm (18 inch) thick layer of riprap 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 645.3.7) 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 riprap 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 628 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 silt fence, 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 SWPP 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 separtion of the material suspended in the water a biodegradable not 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

1. 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.

2. 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.

3. 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.

4. 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.

5. 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 nonbiodegradable 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.

6. 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 conditions allow access.

7. Contractor shall inspect infiltration areas to ensure that no sediment from ongoing construction activities is accumulating. Remove sedement immediately ensuring subsoils are not compaced by machinery.

8. 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.

9. 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 630.3.3.5. 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 disking 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 appproved 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 exibit 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

KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LA-378
PLYMOUTH, MN
REGISTERED LANDSCAPE ARCHITECT
2014 10-09

EROSION CONTROL DETAILS

CONVENIENCE STORE 297

- MENASHA, WISCONSIN

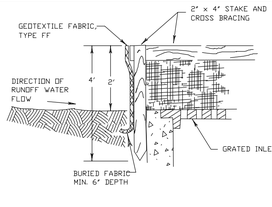
NO.	DATE	DESCRIPTION
-	-	-

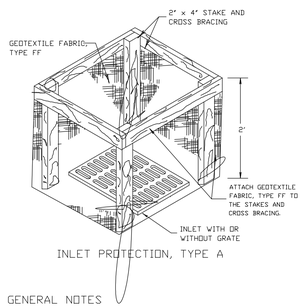
DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-09
SHEET	SWP2

INSITES 14-030

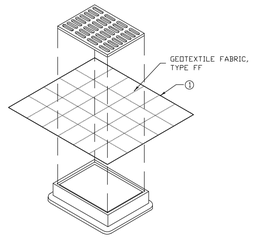
ALL EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED PER WDNR STANDARDS

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

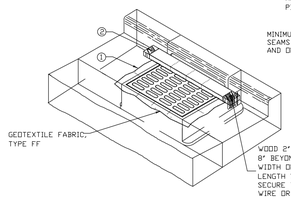




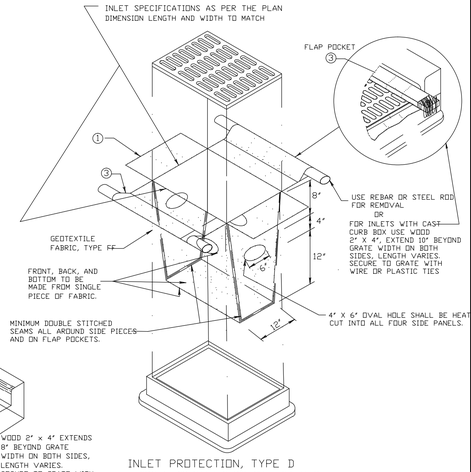
INLET PROTECTION, TYPE A



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



INLET PROTECTION, TYPE C (WITH CURB BOX)



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

GENERAL NOTES

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

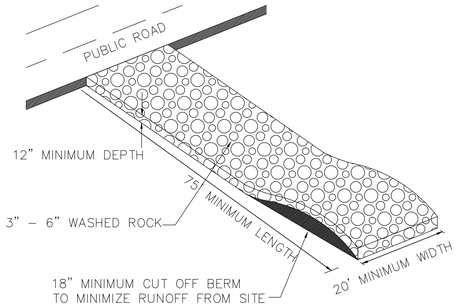
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

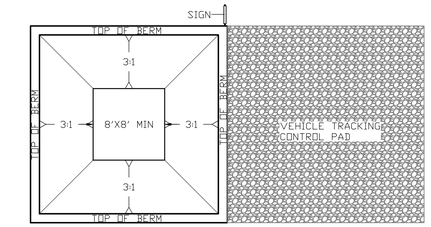
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

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

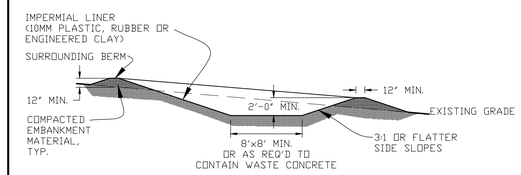
INLET PROTECTION
TYPE A, B, C, AND D



ROCK CONSTRUCTION ENTRANCE



PLAN
1/8"= 1'-0"



TYPICAL SECTION
1/8"= 1'-0"

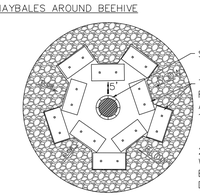
CONCRETE WASHOUT AREA INSTALLATION NOTES

1. SEE EROSION CONTROL PLAN FOR LOCATIONS OF CONCRETE WASHOUT AREA(S). TO BE PLACED A MIN. OF 50' FROM DRAINAGEWAYS, BODIES OF WATER, AND INLETS.)
2. THE CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. VEHICLE TRACKING CONTROL PAD IS REQ'D AT THE ACCESS POINT(S).
4. 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.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

6. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE
7. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
8. WHEN CONCRETE WASHOUT AREA(S) IS REMOVED, THE DISTURBED AREA SHALL BE STABILIZED PER SITE EROSION CONTROL MEASURES.
9. 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



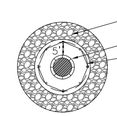
OPTION 1- HAYBALES AROUND BEEHIVE

STORM SEWER CATCHBASIN

TWO 2" X 2" WOOD STAKES OR REINFORCING BARS IN EACH BALE AND IMBEDDED IN THE GROUND 10" MINIMUM

2 ROWS HAY BALES PLACED ON EDGE WITH OVERLAPPING JOINTS. BACK FILL AREA WITH 1 1/2-6" DIA DRAINAGE ROCK.

OPTION 2- SILT FENCE CONTROL AROUND BEEHIVE



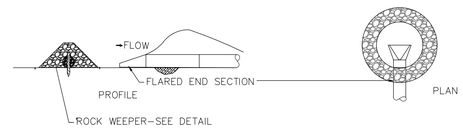
ROCK WEEPER-SEE DETAIL

STORM SEWER CATCHBASIN

SILT FENCE INSTALLED AS PER DETAIL PLATE ERO-1

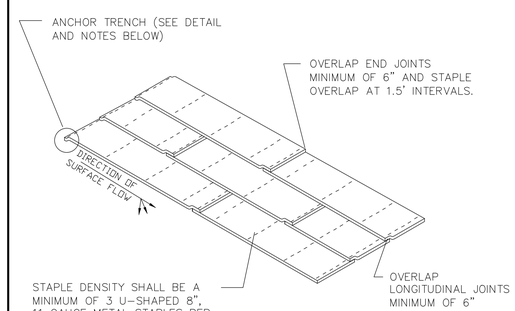
-MINIMUM OF 8 2" X 2" WOOD POSTS OR STEEL POSTS ARE REQUIRED

C. ROCK WEEPER PROTECTION AT FLARED END SECTION/OUTLET PIPE-
SEE ROCK WEEPER DETAIL FOR INSTALLATION
DIKE SHALL BE MIN. 6" HIGHER THAN DIAMETER OF PIPE

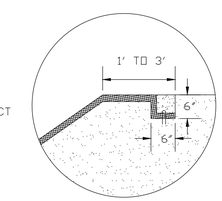


BEE-HIVE CASTING AND FLARED END SECTION
EROSION/SEDIMENT CONTROL

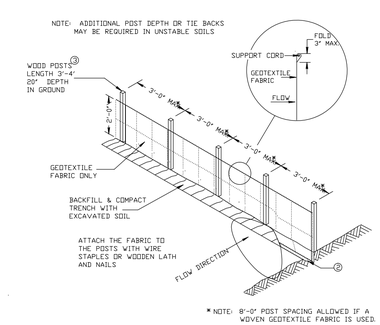
EROSION CONTROL BLANKET(SEEDED AREAS) ON SIDE SLOPES OF 3:1 OR GREATER AND STORM WATER BASINS
BIO-DEGRADABLE, DOUBLE NETTED, LIGHT DUTY(HEAVY DUTY IN DRAINAGE SWALES)
(WisDOT CLASS 1 TYPE B)



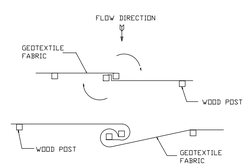
ANCHOR TRENCH
1. DIG 6" X 6" TRENCH
2. LAY BLANKET IN TRENCH
3. STAPLE AT 1.5' INTERVALS
4. BACKFILL WITH NATURAL SOIL AND COMPACT
5. BLANKET LENGTH SHALL NOT EXCEED 100' WITHOUT AN ANCHOR TRENCH



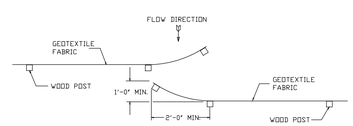
EROSION CONTROL BLANKET INSTALLATION



SILT FENCE

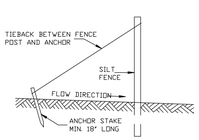


TWIST METHOD

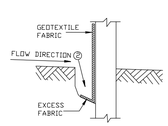


HOOK METHOD ("J"HOOK)

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)



TRENCH DETAIL

GENERAL NOTES

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE AMINIMUM SIZE OF 1" X 1" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

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

SILT FENCE

KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LA-378
PLYMOUTH, MN
REGISTERED LANDSCAPE ARCHITECT
2014 10-09

EROSION CONTROL DETAILS

CONVENIENCE STORE 297

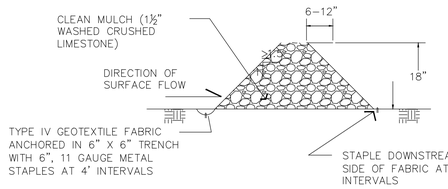
- MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	-	-

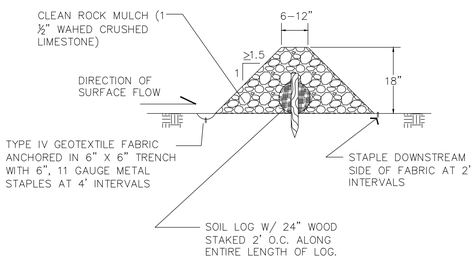
DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-09
SHEET	SWP3

INSITES 14-030

I. ROCK WEEPER @ MINIMAL WATER FLOWS



II. BIO WEEPER @ CONCETRATED 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 residue, 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 combination 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 Revegetive Mats* (*ECRM**) and *Turf-Reinforcement Mats* (*TRM*).

III. Conditions Where Practice Applies

This standard applies where runoff channelizes 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 sizing 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 netting.

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/ft^2 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/ft^2 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/ft^2 or less. Applicable for use in environmentally sensitive areas where plastic netting 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/ft^2 or less.
2. **Type B** – A TRM for use in channels where the calculated (design) shear stress of 2.0 lbs/ft^2 or less.
3. **Type C** – A TRM for use in channels where the calculated (design) shear stress of 3.5 lbs/ft^2 or less.
4. **Type D** – A TRM for use in channels where the calculated (design) shear stress of 5.0 lbs/ft^2 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 entrenched 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 design matrix in the back of 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 stated 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 specification conforming to standard

B. 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.

IX. References

WisDOT "Erosion Control Product Acceptability List" is available online at http://www.dot.wisconsin.gov/business/engrserv/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 Revegetative Mats (*ECRM*) (II): Erosion control revegetative 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).

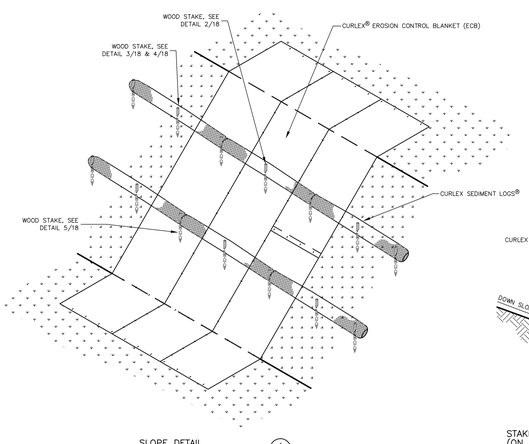
Conservation Practice Standards are reviewed periodically and updated if needed. To obtain the current version of this standard, contact your local NDNR office or the Standards Oversight Council office in Madison. WDNR, WI 12/04

* Words in the standard that are shown in italics are described in X. Definitions. The words are italicized the first time they are used in the text.

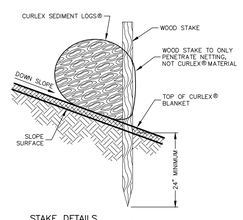
2 WDNR, WI 12/04

WDNR, WI 12/04 3

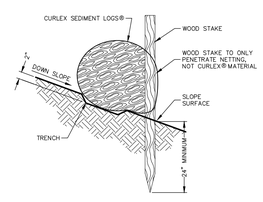
NOTE: SEDIMENT LOGS SHALL BE "CURLEX" BY AMERICAN EXCELSIOR COMPANY www.americanexcelsior.com/erosioncontrol/ OR APPROVED EQUAL



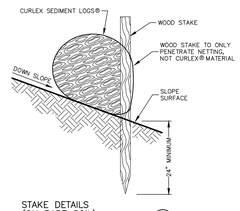
SLOPE DETAIL
NO SCALE 1/18



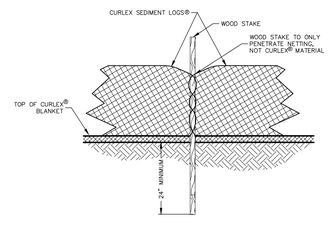
STAKE DETAILS
(ON TOP OF CURLEX® ECB)
NO SCALE 2/18



(OPTIONAL TRENCH
ON BARE SOIL)
NO SCALE 4/18

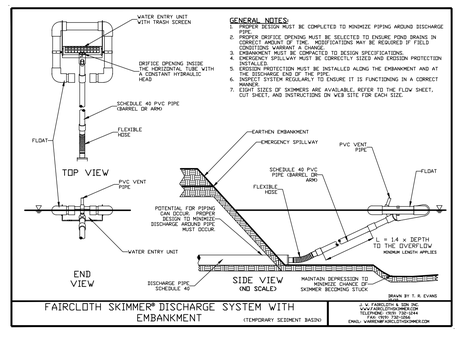


STAKE DETAILS
(ON BARE SOIL)
NO SCALE 3/18

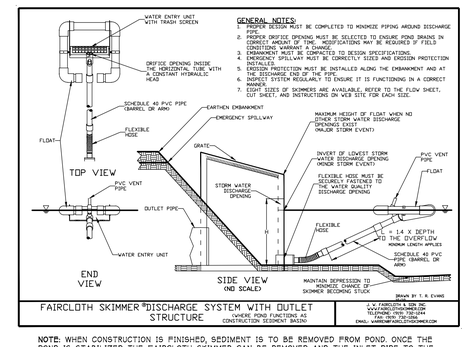


STAKE DETAIL (FRONT VIEW)
NO SCALE 5/18

BIO ROLL INSTALLATION ("LOG WEEPERS")
EROSION CONTROL



FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH EMBANKMENT
(TEMPORARY SEDIMENT BASIN)



FAIRCLOTH SKIMMER ®DISCHARGE SYSTEM WITH OUTLET STRUCTURE
(WHERE POND FUNCTIONS AS CONSTRUCTION SEDIMENT BASIN)

NOTE: WHEN CONSTRUCTION IS FINISHED, SEDIMENT IS TO BE REMOVED FROM POND. ONCE THE POND IS STABILIZED THE FAIRCLOTH SKIMMER CAN BE REMOVED AND THE INLET PIPE TO THE OUTLET STRUCTURE BE MADE FUNCTIONAL PER DETAIL SHEET SP3

FAIRCLOTH SKIMMER DISCHARGE SYSTEM(OR APPROVED EQUAL BY OWNER)
SEDIMENT CONTROL

KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LA-378
PLYMOUTH, MN
REGISTERED LANDSCAPE ARCHITECT
2014 10-09

EROSION CONTROL DETAILS

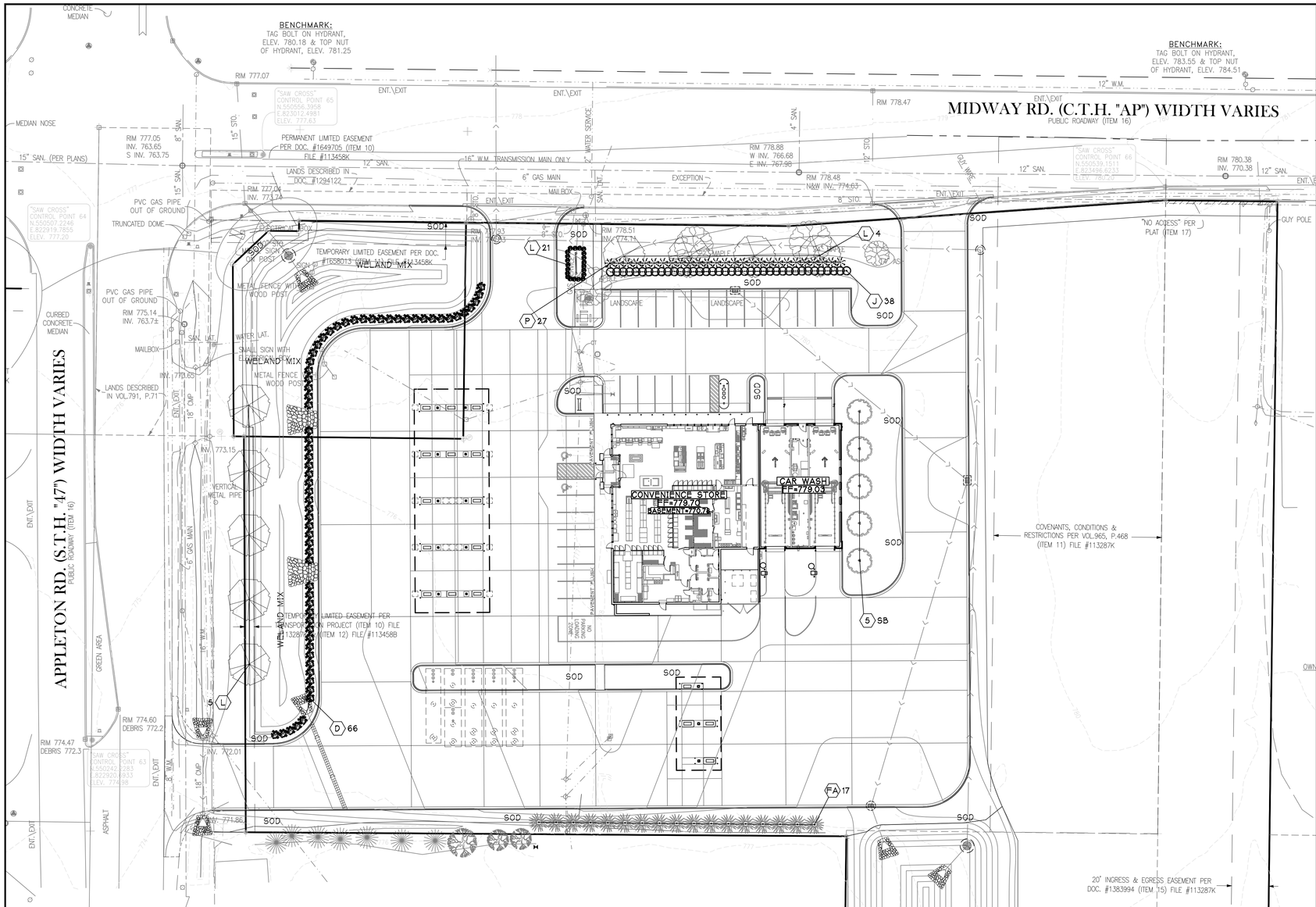
CONVENIENCE STORE 297

- MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
–	–	–

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-09
SHEET	SWP4

INSITES 14-030



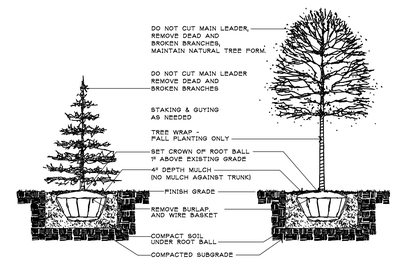
PLANT MATERIAL	QUANTITY	SIZE	ROOT TYPE	COMMON NAME / BOTANICAL NAME	HEIGHT' X WIDTH'
OVERSTORY TREES					
L	9	1.5" CAL.	B&B	BOULEVARD LINDEN / Tilia americana 'Boulevard'	60' x 25'
SB	5	1.5" CAL.	pot	AUTUMN BRILLIANCE SERVICEBERRY / Amelanchier x grandiflora 'Autumn Brilliance'	20' x 15'
P	27	18" CONT	pot	BIG TUNA MUGO PINE / Juniperus chinensis 'var. sargentii Viridis'	6' x 6'
J	38	18" CONT	pot	GOLD LACE JUNIPER / Juniperus chinesis 'Gold Lace'	4' x 6'
AM	21	18" CONT	pot	AUTUMN MAGIC CHOKEBERRY / Aronia melanocarpa 'Autumn Magic'	4' x 3'
FA	17	5' HT	B&B	FAT ALBERT BLUE SPRUCE / Picea pungens 'Fat Albert'	15' x 10'
D	66	2' CONT	pot	ISANTI DOGWOOD / Cornus serica 'Isanti'	5' X 7'

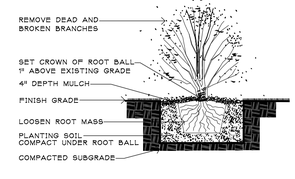
SOD-2,985 SY
WETLAND MIX-2,656 SY

R: RICHARD WALDOCH

NOTES:

- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR PLANTING IN ALL R.O.W.
- LANDSCAPE CONTRACTOR SHALL VERIFY ALL UTILITIES WHICH MAY EFFECT 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)
  1. MIX 1 LB. 5-20-20 COMMERCIAL FERTILIZER PER CU. YD. TOPSOIL
  2. 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 TO INSTALL 'VALLEY VIEW', "BLACK DIAMOND" EDGING AROUND ALL PLANTING BEDS AS SHOWN ON THIS PLAN.
- USE FINELY SHREDDED HARDWOOD BARK MULCH. NO DYED MULCHES. INSTALL 4" DEPTH. NO FILTER FABRIC OR EDGING AROUND ALL TREES OUTSIDE SHRUB BEDS.
- 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 I1. 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.
- LANDSCAPE CONTRACTOR SHALL SOD AND REPAIR IN THE RIGHTAWAY AS IS NEEDED.
- GENERAL CONTRACTOR TO SWEEP PAVEMENT AREAS PRIOR TO TURN OVER TO OWNER.





KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LA-378
PLYMOUTH, MN
LANDSCAPE ARCHITECT
2014 10-20

LANDSCAPE PLAN

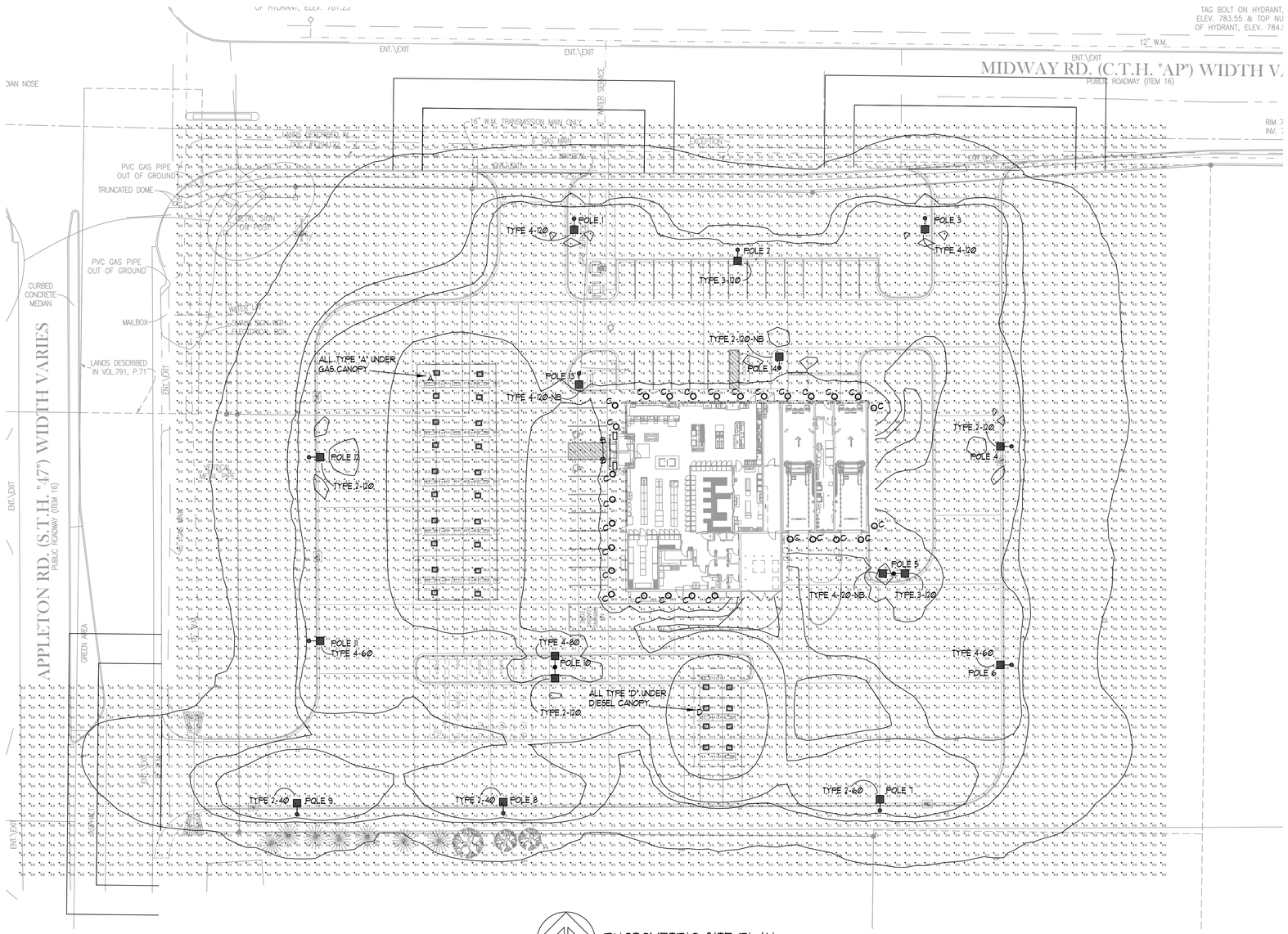
CONVENIENCE STORE 297

- MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	-	-

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-20
SHEET	L1

INSITES 14-030



PHOTOMETRIC SITE PLAN

SCALE: 1" = 30'-0"

FIXTURE QUANTITIES

A	- 2Ø
B	- 2
C	- 28
D	- 8
TYPE 2-4Ø	- 2
TYPE 2-6Ø	- 1
TYPE 2-12Ø	- 2
TYPE 2-12Ø-NB	- 2
TYPE 3-12Ø	- 2
TYPE 4-6Ø	- 2
TYPE 4-8Ø	- 1
TYPE 4-12Ø	- 2
TYPE 4-12Ø-NB	- 2

PROVIDE A TOTAL OF (14) 15' POLES.

CALCULATION STATISTICS

AVERAGE: 2.7fc
MAXIMUM: 47.0fc
MINIMUM: 0.0fc

FIXTURE SYMBOLS:

A & D — RECESSED LED LIGHT MOUNTED UNDER CANOPY

B — LED STRIP LIGHT

C — RECESSED LED DOWNLIGHT

TYPES 2, 3 & 4 — POLE MOUNTED LED FIXTURE

FIXTURE TYPES:

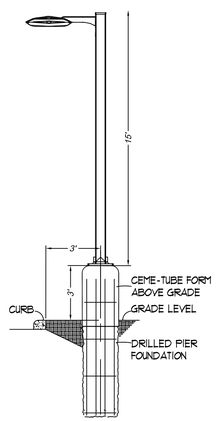
A - CREE LIGHTING: CAN-3Ø4-9L-RS-Ø6-E-UL-WH-7ØØ
MOUNTING HEIGHT - 16'-0"

B - LED STRIP LIGHT
LITHONIA - ZL1-L96-LB84Ø
MOUNTING HEIGHT: SEE ARCHITECTURAL ELEVATIONS

C - RECESSED LED DOWNLIGHT
GOTHAM EVO 4/29-8AR-12Ø-TRW

D - CREE LIGHTING: CAN-228-P6-RM-Ø3-D-UL-BK-7ØØ
MOUNTING HEIGHT - 16'-0"

TYPE 2-4Ø - CREE LIGHTING: ARE-EDG-2MB-DA-Ø4-E-UL-WH-35Ø
TYPE 2-6Ø - CREE LIGHTING: ARE-EDG-2MB-DA-Ø6-E-UL-WH-35Ø
TYPE 2-12Ø - CREE LIGHTING: ARE-EDG-2MB-DA-12-E-UL-WH-35Ø
TYPE 2-12Ø-NB - CREE LIGHTING: ARE-EDG-2M-DA-12-E-UL-WH-35Ø
TYPE 3-12Ø - CREE LIGHTING: ARE-EDG-3MB-DA-12-E-UL-WH-35Ø
TYPE 4-6Ø - CREE LIGHTING: ARE-EDG-4MB-DA-Ø6-E-UL-WH-35Ø
TYPE 4-8Ø - CREE LIGHTING: ARE-EDG-4MB-DA-Ø8-E-UL-WH-35Ø
TYPE 4-12Ø - CREE LIGHTING: ARE-EDG-4MB-DA-12-E-UL-WH-35Ø
TYPE 4-12Ø-NB - CREE LIGHTING: ARE-EDG-4M-DA-12-E-UL-WH-35Ø



LOT LIGHT ELEVATION DETAIL

NOT TO SCALE

C14121
CZARNECKI ENGINEERING INCORPORATED
121 MARLIN COURT, SUITE B - WAUKESHA, WI 53186
VOICE: (262) 513-2030 FAX: (262) 513-2023
WEB PAGE: www.czeng.com

KWIK TRIP STORES

KWIK STAR STORES

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 763.383.8440

REGISTERED STATE OF WISCONSIN LANDSCAPE ARCHITECT
ROBERT J. MUELLER
LA-378
PLYMOUTH, MN
2014 10-09

PHOTOMETRIC SITE PLAN

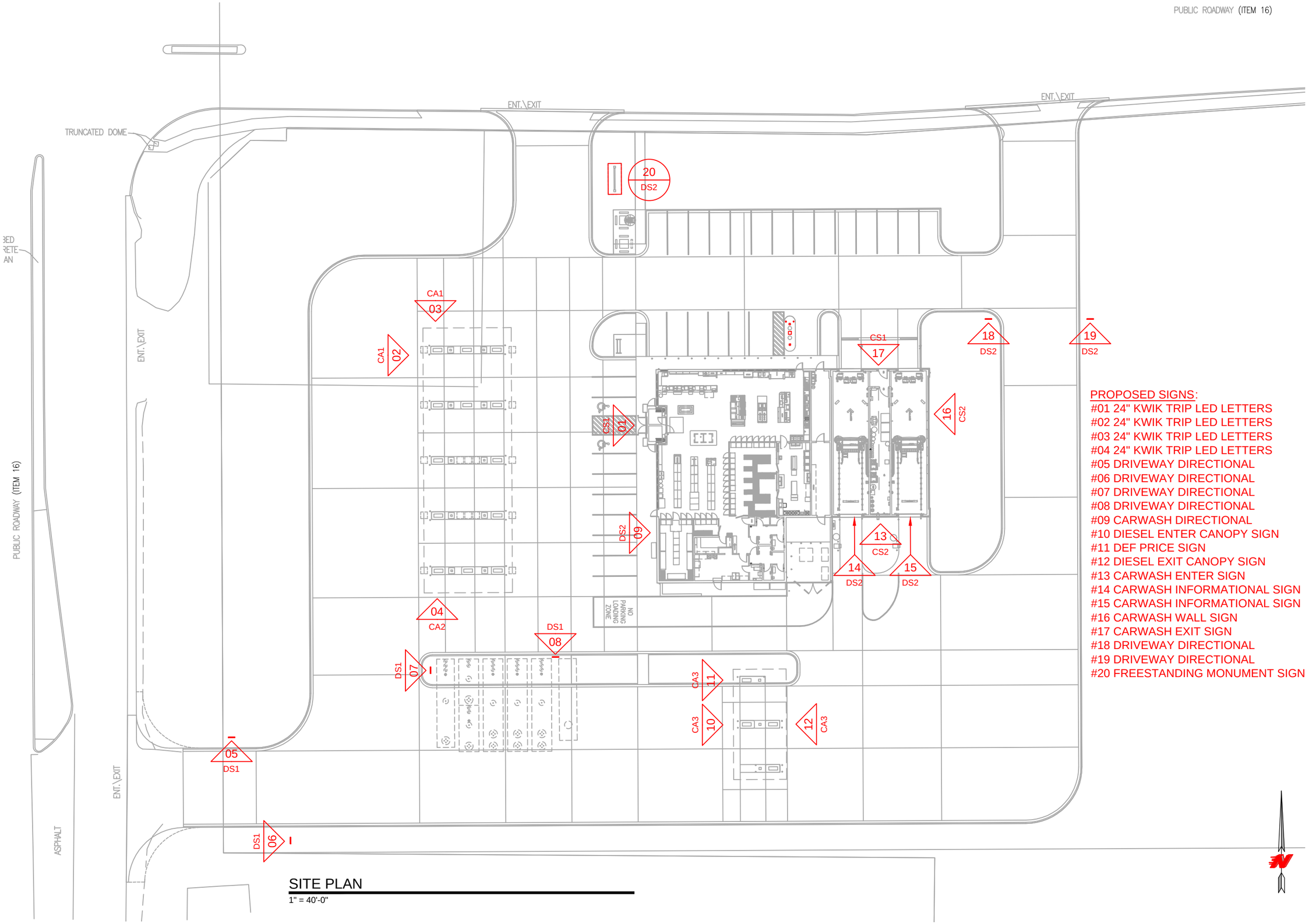
CONVENIENCE STORE 297

MENASHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	-	-

DRAWN BY	CZE
SCALE	GRAPHIC
PROJ. NO.	14297
DATE	2014 10-09
SHEET	E1

INSITES 14-09



PROPOSED SIGNS:
#01 24" KWIK TRIP LED LETTERS
#02 24" KWIK TRIP LED LETTERS
#03 24" KWIK TRIP LED LETTERS
#04 24" KWIK TRIP LED LETTERS
#05 DRIVEWAY DIRECTIONAL
#06 DRIVEWAY DIRECTIONAL
#07 DRIVEWAY DIRECTIONAL
#08 DRIVEWAY DIRECTIONAL
#09 CARWASH DIRECTIONAL
#10 DIESEL ENTER CANOPY SIGN
#11 DEF PRICE SIGN
#12 DIESEL EXIT CANOPY SIGN
#13 CARWASH ENTER SIGN
#14 CARWASH INFORMATIONAL SIGN
#15 CARWASH INFORMATIONAL SIGN
#16 CARWASH WALL SIGN
#17 CARWASH EXIT SIGN
#18 DRIVEWAY DIRECTIONAL
#19 DRIVEWAY DIRECTIONAL
#20 FREESTANDING MONUMENT SIGN

SITE PLAN
1" = 40'-0"

KWIK TRIP STORES

KWIK STAR STORES

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

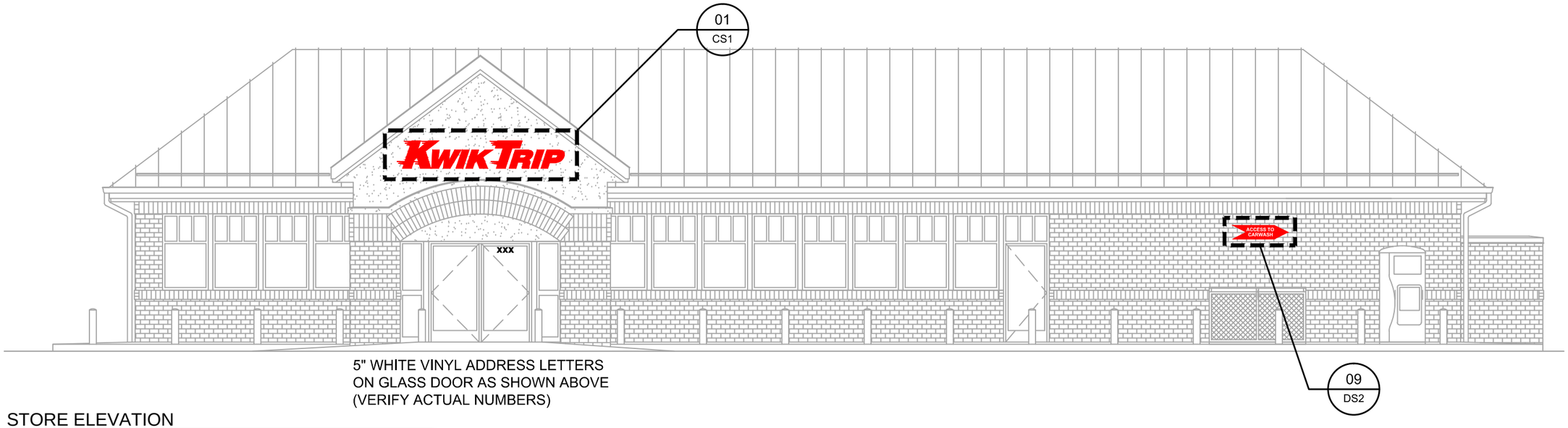
SITE PLAN

CONVENIENCE STORE #297
WITH 2 BAY CARWASH

APLLETON ROAD
MENASHA, WI

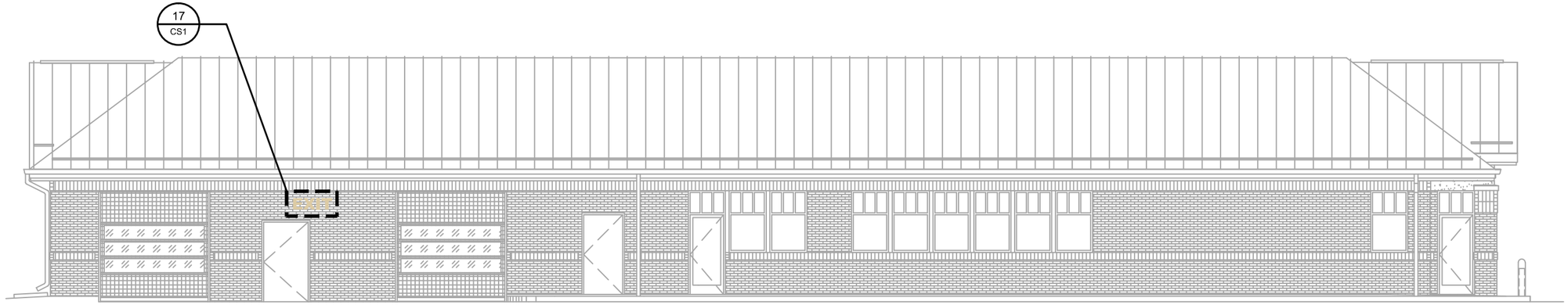
#	DATE	DESCRIPTION

DRAWN BY	B BERG
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2014-11-12
SHEET	SP1



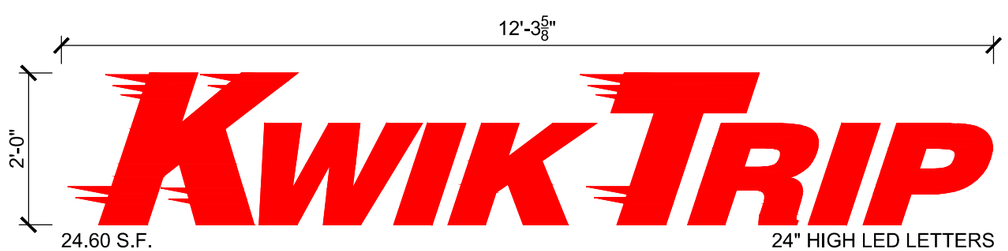
STORE ELEVATION

SCALE: 1/8" = 1'-0"



STORE ELEVATION

SCALE: 3/32" = 1'-0"



LOGO DETAIL - SIGN #01

SCALE: 1/2" = 1'-0"

KWIK TRIP STORES

KWIK STAR STORES

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

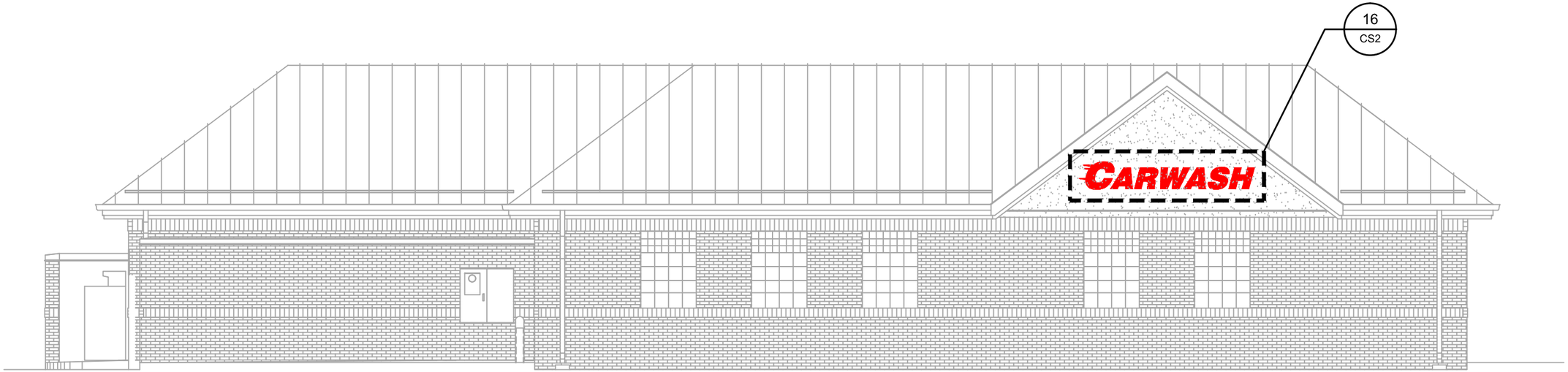
CONVENIENCE STORE SIGNAGE

CONVENIENCE STORE #297
WITH 2 BAY CARWASH

APLLETON ROAD
MENASHA, WI

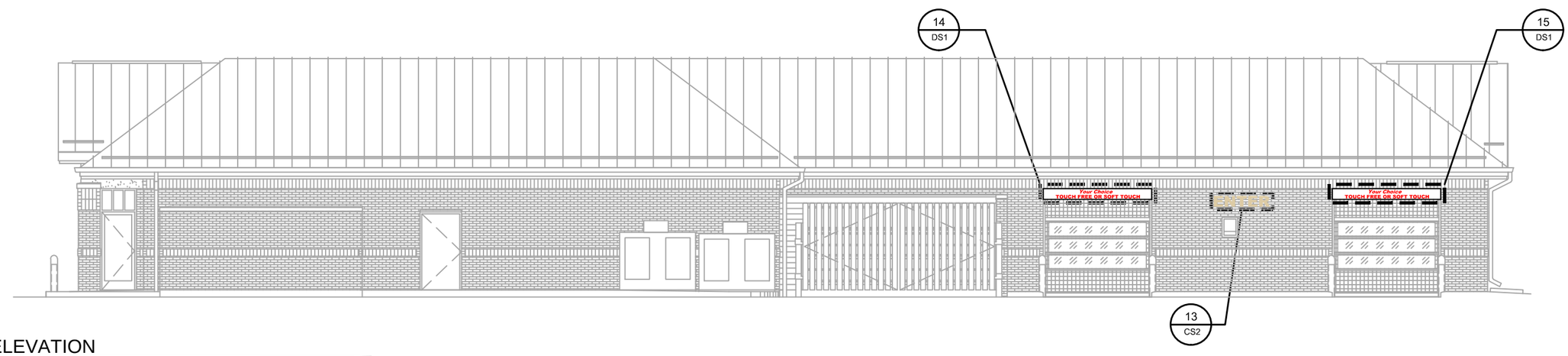
#	DATE	DESCRIPTION

DRAWN BY	B BERG
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2014-11-12
SHEET	CS1



STORE ELEVATION

SCALE: 1/8" = 1'-0"



STORE ELEVATION

SCALE: 3/32" = 1'-0"

LOGO DETAIL - SIGN #16

SCALE: 1/2" = 1'-0"

KWIK TRIP STORES

KWIK STAR STORES

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

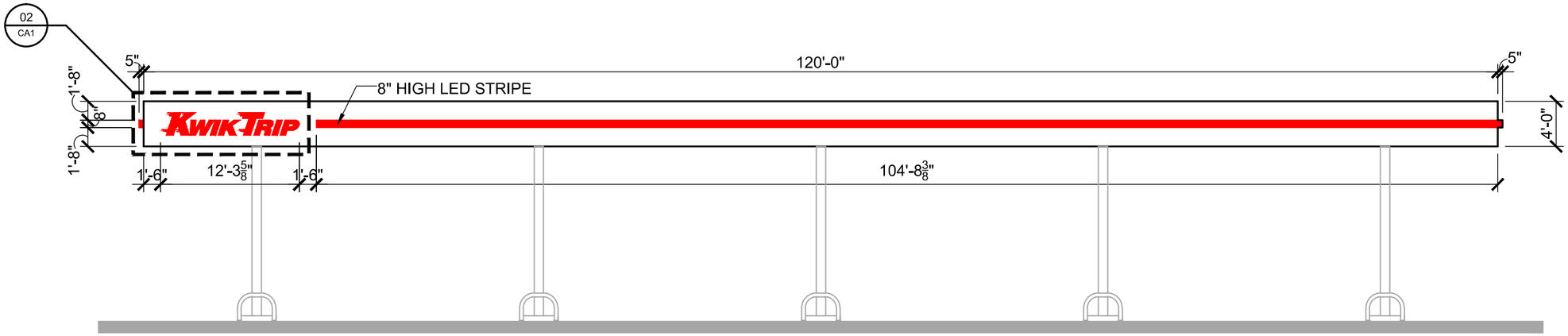
CONVENIENCE STORE SIGNAGE

CONVENIENCE STORE #297
WITH 2 BAY CARWASH

APPLETON ROAD
MENASHA, WI

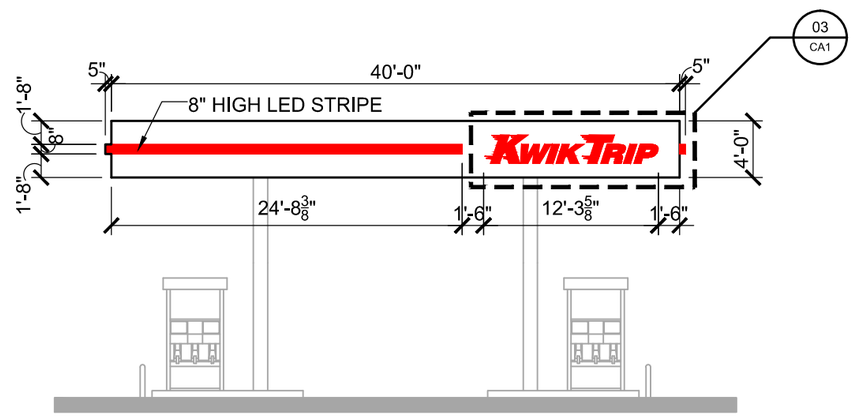
#	DATE	DESCRIPTION

DRAWN BY	B BERG
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2014-11-12
SHEET	CS2



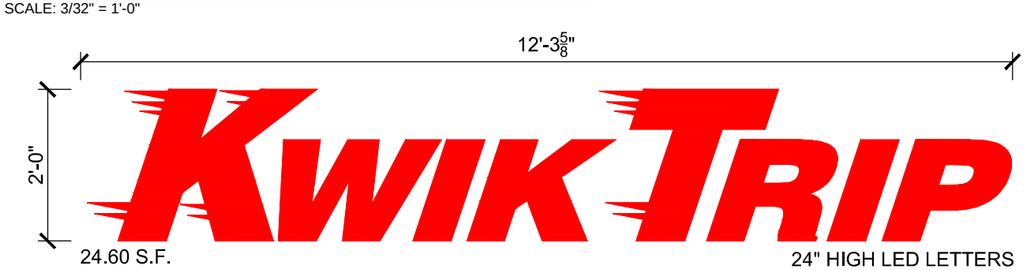
CANOPY ELEVATION

SCALE: 3/32" = 1'-0"



CANOPY ELEVATION

SCALE: 3/32" = 1'-0"



LOGO DETAIL - SIGNS #02 & #03

SCALE: 1/2" = 1'-0"

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

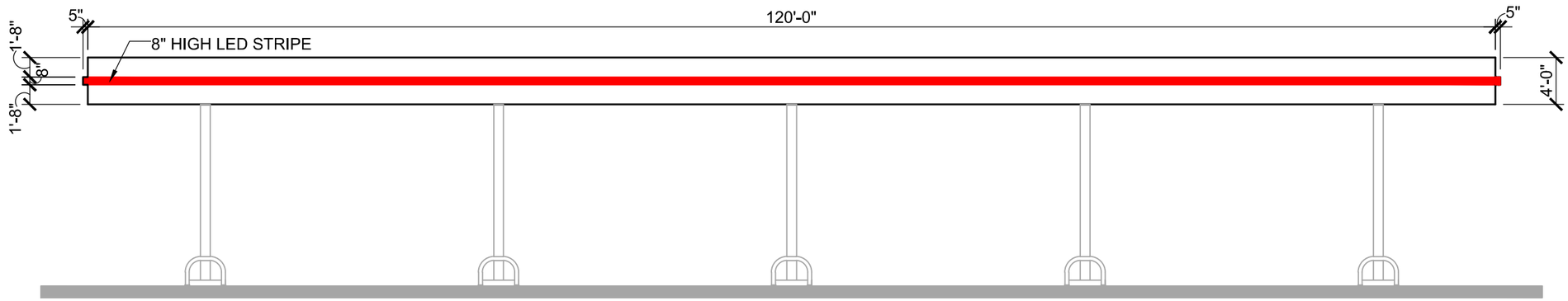
CANOPY SIGNAGE

CONVENIENCE STORE #297
WITH 2 BAY CARWASH

APLLETON ROAD
MENASHA, WI

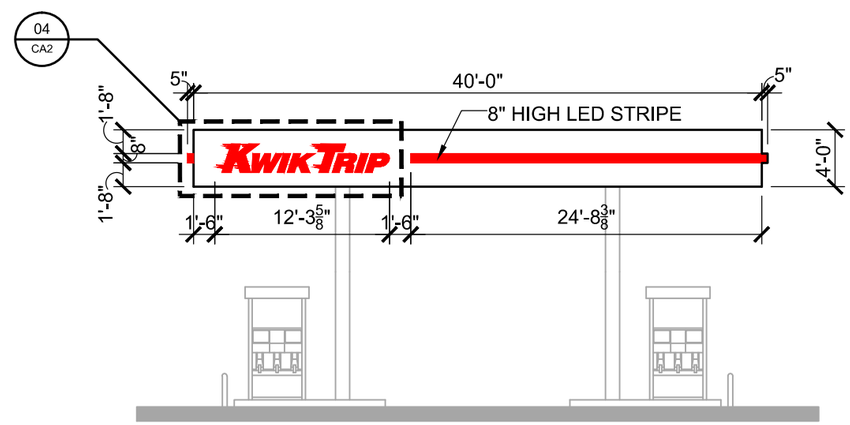
#	DATE	DESCRIPTION

DRAWN BY	B BERG
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2014-11-12
SHEET	CA1



CANOPY ELEVATION

SCALE: 3/32" = 1'-0"



CANOPY ELEVATION

SCALE: 3/32" = 1'-0"

LOGO DETAIL - SIGN #04

SCALE: 1/2" = 1'-0"

KWIK TRIP STORES

KWIK STAR STORES

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

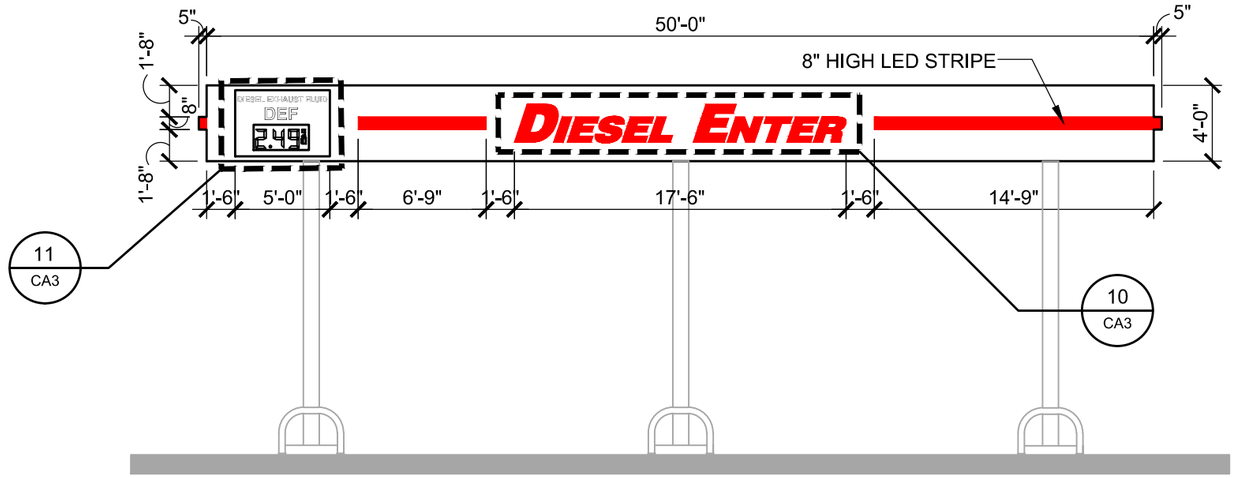
CANOPY SIGNAGE

CONVENIENCE STORE #297
WITH 2 BAY CARWASH

APLLETON ROAD
MENASHA, WI

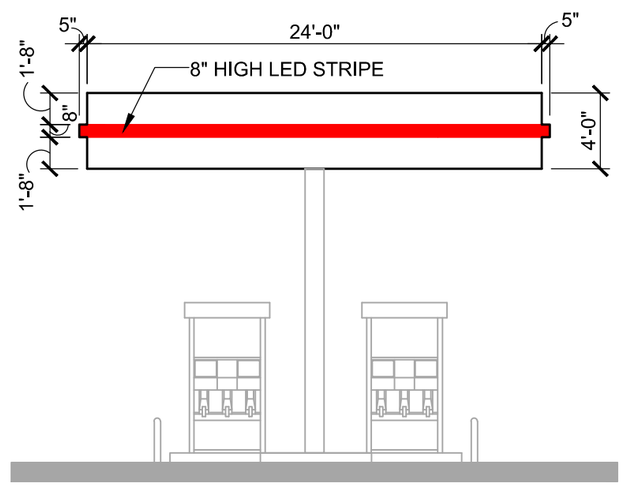
#	DATE	DESCRIPTION

DRAWN BY	B BERG
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2014-11-12
SHEET	CA2



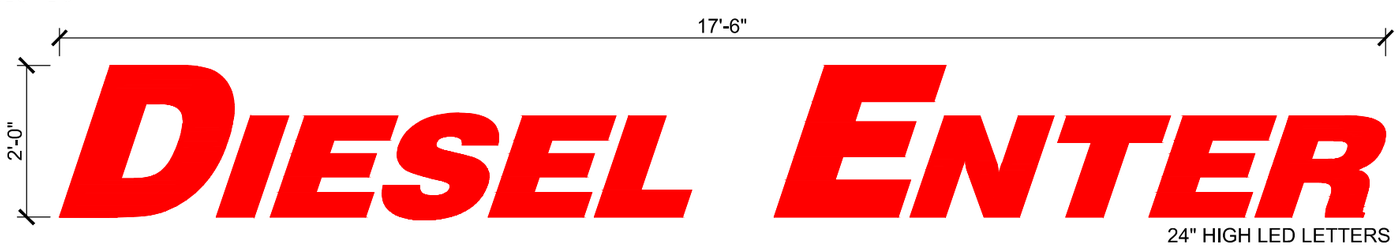
CANOPY ELEVATION

SCALE: 1/8" = 1'-0"



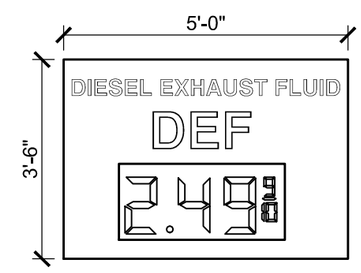
CANOPY ELEVATION

SCALE: 1/8" = 1'-0"



LOGO DETAIL - SIGN #10

SCALE: 1/2" = 1'-0"



DEF DETAIL - SIGN #11

SCALE: 1/2" = 1'-0"

KWIK TRIP STORES

KWIK STAR STORES

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

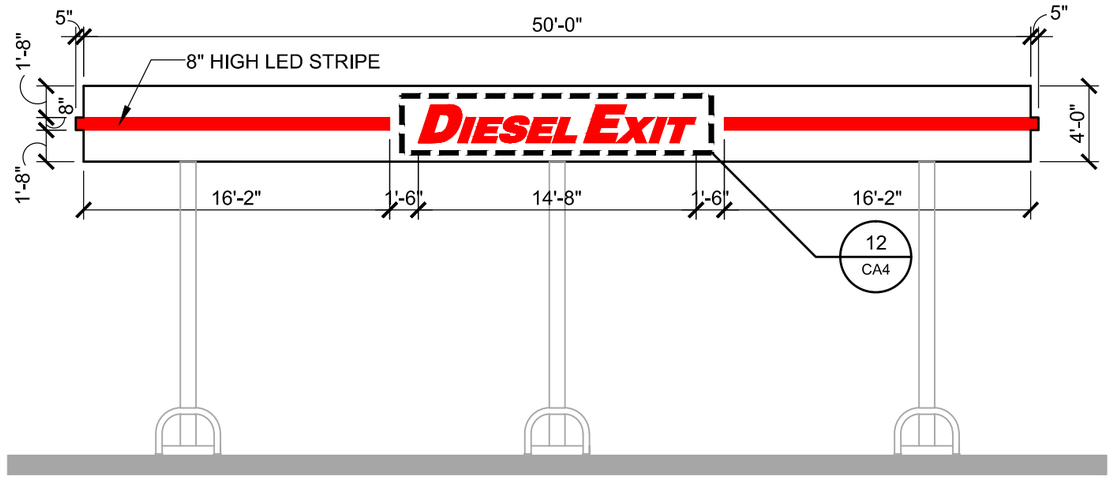
CANOPY SIGNAGE

CONVENIENCE STORE #297
WITH 2 BAY CARWASH

APPLETON ROAD
MENASHA, WI

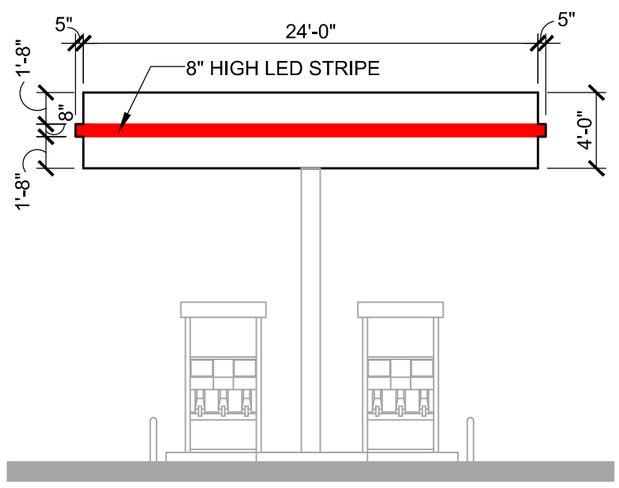
#	DATE	DESCRIPTION

DRAWN BY	B BERG
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2014-11-12
SHEET	CA3



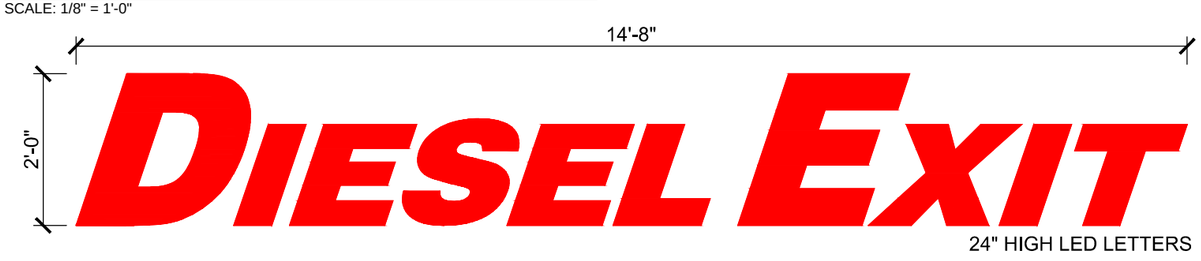
CANOPY ELEVATION

SCALE: 1/8" = 1'-0"



CANOPY ELEVATION

SCALE: 1/8" = 1'-0"



LOGO DETAIL - SIGN #12

SCALE: 1/2" = 1'-0"

KWIK TRIP STORES

KWIK STAR STORES

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

CANOPY SIGNAGE

CONVENIENCE STORE #297
WITH 2 BAY CARWASH

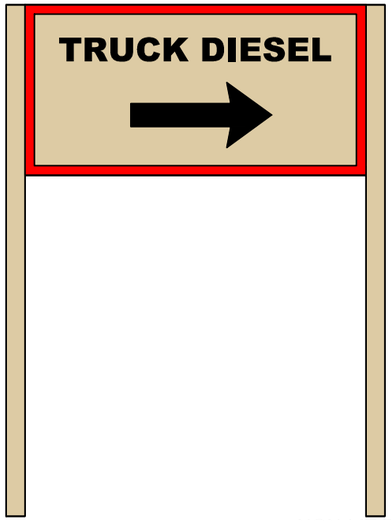
APPLETON ROAD
MENASHA, WI

#	DATE	DESCRIPTION

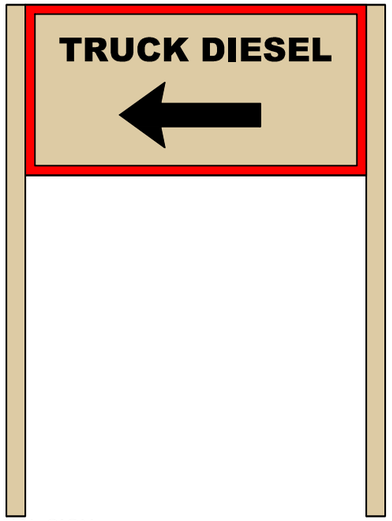
DRAWN BY	B BERG
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2014-11-12
SHEET	CA4

DOUBLE SIDED DIRECTIONAL SIGN

SOUTH SIDE



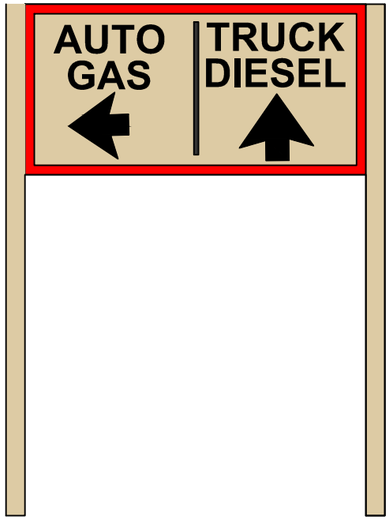
NORTH SIDE



NON-LIT DIRECTIONAL SIGN
RED & BLACK VINYL ON LIGHT BEIGE ALUMINUM
1'-6"H X 3'-0"W X 4'-6"T= 4.50 SQ FT

DIRECTIONAL SIGN #05

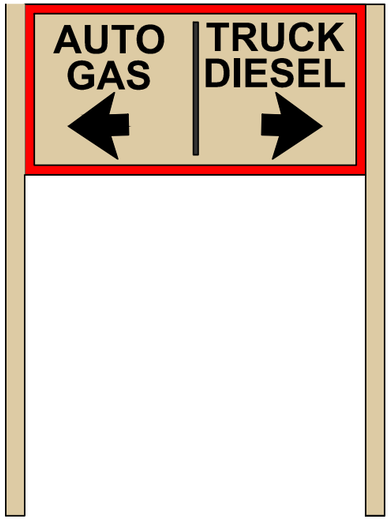
SCALE: 3/4" = 1'-0"



NON-LIT DIRECTIONAL SIGN
RED & BLACK VINYL ON LIGHT BEIGE ALUMINUM
1'-6"H X 3'-0"W X 4'-6"T= 4.50 SQ FT

DIRECTIONAL SIGN #06

SCALE: 3/4" = 1'-0"

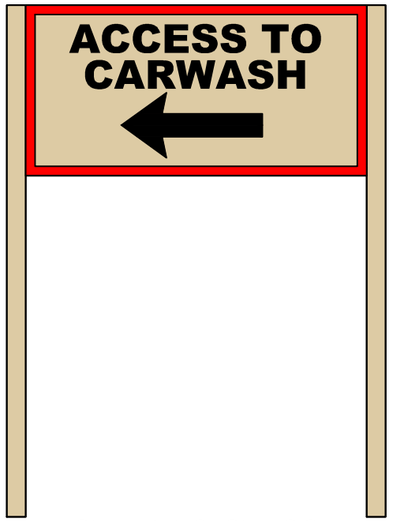


NON-LIT DIRECTIONAL SIGN
RED & BLACK VINYL ON LIGHT BEIGE ALUMINUM
1'-6"H X 3'-0"W X 4'-6"T= 4.50 SQ FT

DIRECTIONAL SIGN #07

SCALE: 3/4" = 1'-0"

SINGLE SIDED DIRECTIONAL SIGN



NON-LIT DIRECTIONAL SIGN
RED & BLACK VINYL ON LIGHT BEIGE ALUMINUM
1'-6"H X 3'-0"W X 4'-6"T= 4.50 SQ FT

DIRECTIONAL SIGN #08

SCALE: 3/4" = 1'-0"

KWIK TRIP STORES

KWIK STAR STORES

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

DIRECTIONAL SIGNAGE

CONVENIENCE STORE #297
WITH 2 BAY CARWASH

APLLETON ROAD
MENASHA, WI

#	DATE	DESCRIPTION

DRAWN BY	B BERG
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2014-11-12
SHEET	DS1

NON-LIT DIRECTIONAL SIGN
WHITE VINYL ON RED ALUMINUM
1'-0"H X 4'-0"W = 4.0 SQ FT

DIRECTIONAL SIGN #09

SCALE: 3/4" = 1'-0"

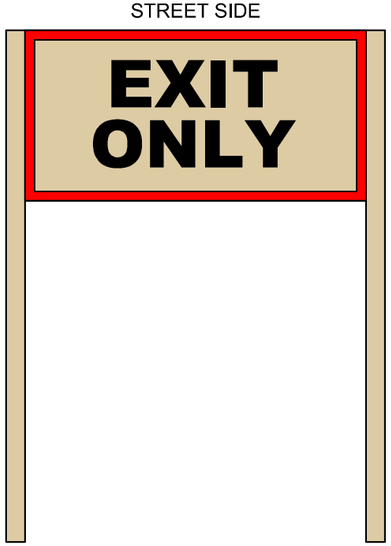
NON-LIT INFORMATIONAL SIGN
RED VINYL ON WHITE ALUMINUM
1'-0"H X 10'-0"W = 10.0 SQ FT

DIRECTIONAL SIGNS #14 & #15

SCALE: 3/4" = 1'-0"

DOUBLE SIDED DIRECTIONAL SIGN

STREET SIDE



STORE SIDE

NON-LIT DIRECTIONAL SIGN
RED & BLACK VINYL ON LIGHT BEIGE ALUMINUM
1'-6"H X 3'-0"W X 4'-6"T= 4.50 SQ FT

DIRECTIONAL SIGN #18 & #19

SCALE: 3/4" = 1'-0"

#20 KWIK TRIP FREESTANDING MONUMENT SIGN

SEE ATTACHMENT FROM LA CROSSE SIGN CO

KWIK TRIP STORES

KWIK STAR STORES

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

DIRECTIONAL SIGNAGE

CONVENIENCE STORE #297
WITH 2 BAY CARWASH

APLLETON ROAD
MENASHA, WI

#	DATE	DESCRIPTION

DRAWN BY	B BERG
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2014-11-12
SHEET	DS2