KWIK TRIP STORE #970

OWNER

KWIK TRIP, INC. BRADFORD FRY, P.E. 1626 OAK STREET LA CROSSE, WI 54602 PHONE: 608-793-6414 EMAIL: BFry@kwiktrip.com

CIVIL/SITE ENGINEER

raSmith PM: ROBERT J. HARLEY, P.E. EMAIL: Robert.Harley@rasmith.com

PE: CHRISTOPHER B. WHITE, P.E. EMAIL: Christopher.White@rasmith.com

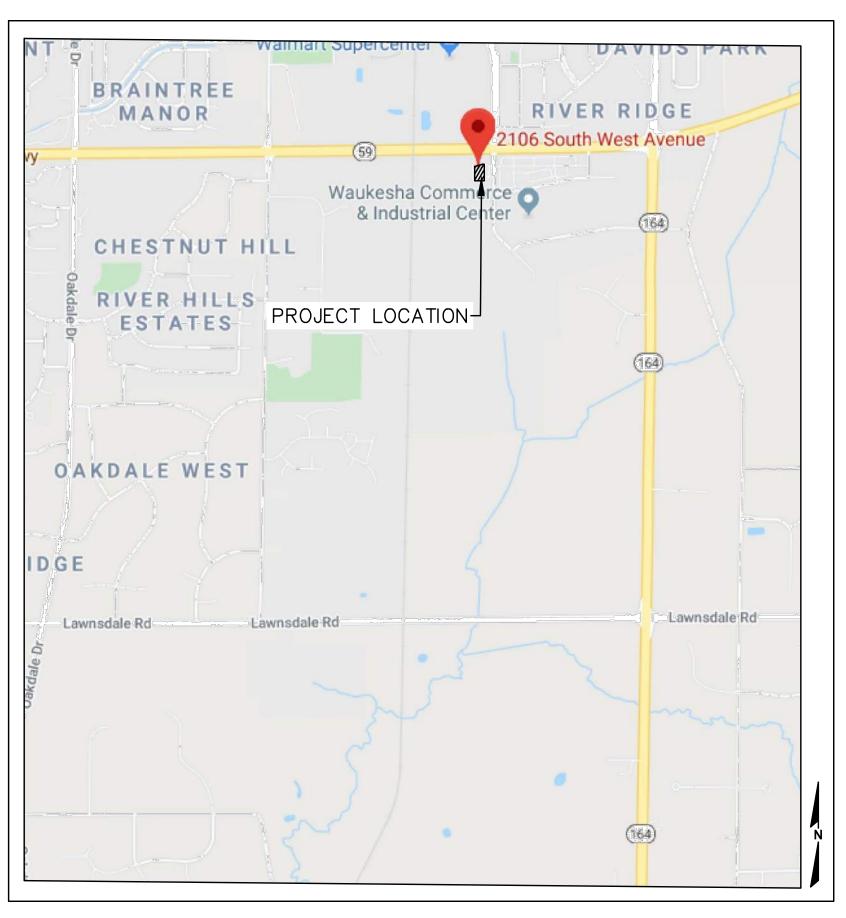
16745 W. BLUEMOUND RD. BROOKFIELD, WI 53005-5938 PHONE: 262-781-1000

SURVEYOR - CSM

raSmith JOHN P. CASUCCI, PLS 16745 W. BLUEMOUND RD. BROOKFIELD, WI 53005-5938 PHONE: 262-781-1000

SURVEYOR - ALTA/ TOPOGRAPHIC SURVEY

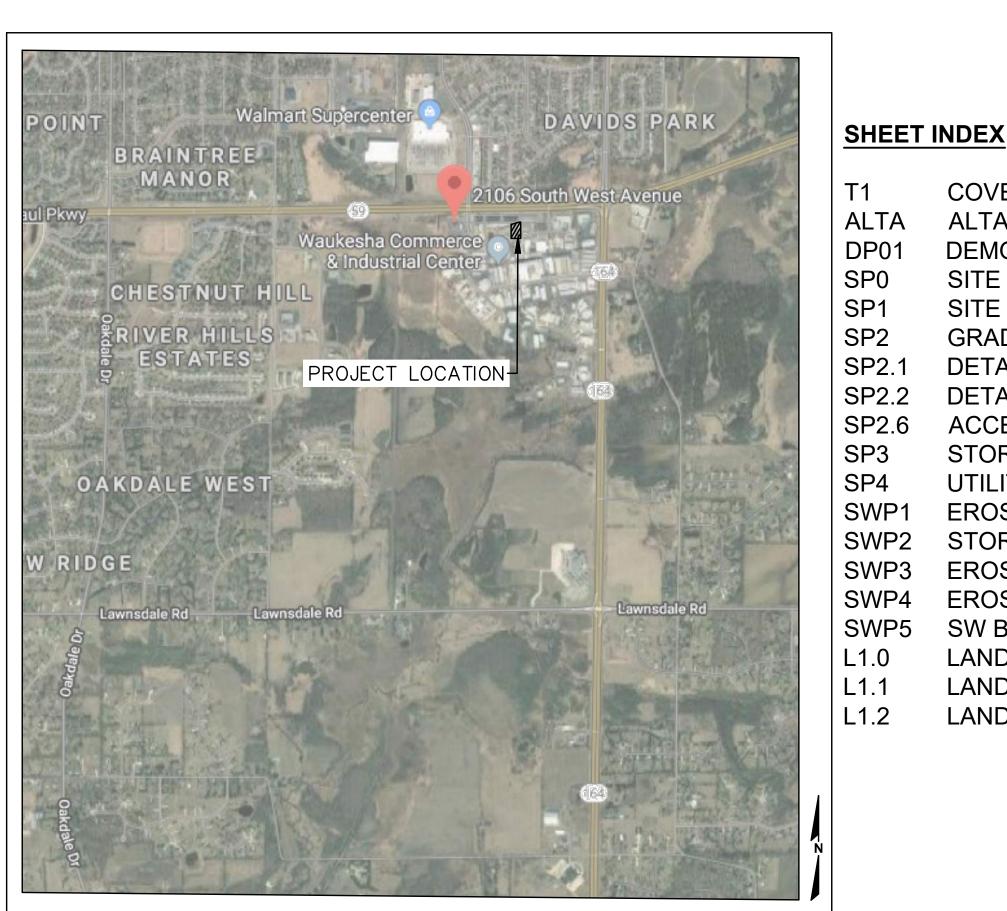
JSD Professional Services, Inc. RIZAL W. ISKANDARSJACH, PLS W238 N1610 BUSSE RD., SUITE 100 WAUKESHA, WI 53188 PHONE: 262-513-0666



SITE LOCATION MAP

ENGINEERING PLANS CITY OF WAUKESHA WAUKESHA COUNTY, WISCONSIN

ALL SITE IMPROVEMENTS AND CONSTRUCTION SHOWN ON THE PLANS SHALL CONFORM TO THE CITY OF WAUKESHA <u>DEVELOPMENT HANDBOOK & INFRASTRUCTURE</u> <u>SPECIFICATIONS</u>, WHERE THE PLANS DO NOT COMPLY, IT SHALL BE THE SOLE RESPONSIBILITY AND EXPENSE OF THE DEVELOPER TO MAKE REVISION TO THE PLANS AN/OR CONSTRUCTED INFRASTRUCTURE TO COMPLY.



T1 ALTA DP0² SP0 SP1 SP2 SP2.1 SP2.2 SP2.6 SP3 SP4 SWP1 SWP2 SWP3 SWP4 SWP5 L1.0 L1.1 L1.2

AERIAL LOCATION MAP

LEGAL DESCRIPTION:

A DIVISION OF PARCEL 1 AND PART OF PARCEL 2 IN CERTIFIED SURVEY MAP NO. 9368, ALL BEING A PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 15. TOWNSHIP 6 NORTH, RANGE 19 EAST, IN THE CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN.

DATUM AND BENCHMARK NOTES, SURVEY PROVIDED BY JSD INC:

- SYSTEM (SOUTH ZONE) BEARING OF NO0'05'55"W.
- HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1927
- 3 VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929

CITY OF WAUKESHA NOTE:





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



16745 W. Bluemound Road [262] 781-1000

COVER SHEET

- ALTA SURVEY (2 SHEETS) DEMOLITION PLAN
- SITE CIRCULATION PLAN
- SITE PLAN
- GRADE PLAN
- DETAILED GRADE PLAN NORTH
- DETAILED GRADE PLAN SOUTH
- ACCESSIBLE PLAN STORM SEWER PLAN
- UTILITY PLAN
- **EROSION CONTROL PLAN**
- STORMWATER POLLUTION PREVENTION PLAN **EROSION CONTROL DETAILS**
- **EROSION CONTROL DETAILS**
- SW BMP DETAILS
- LANDSCAPE PLAN-OVERALL
- LANDSCAPE PLAN-NORTH
- LANDSCAPE PLAN-SOUTH

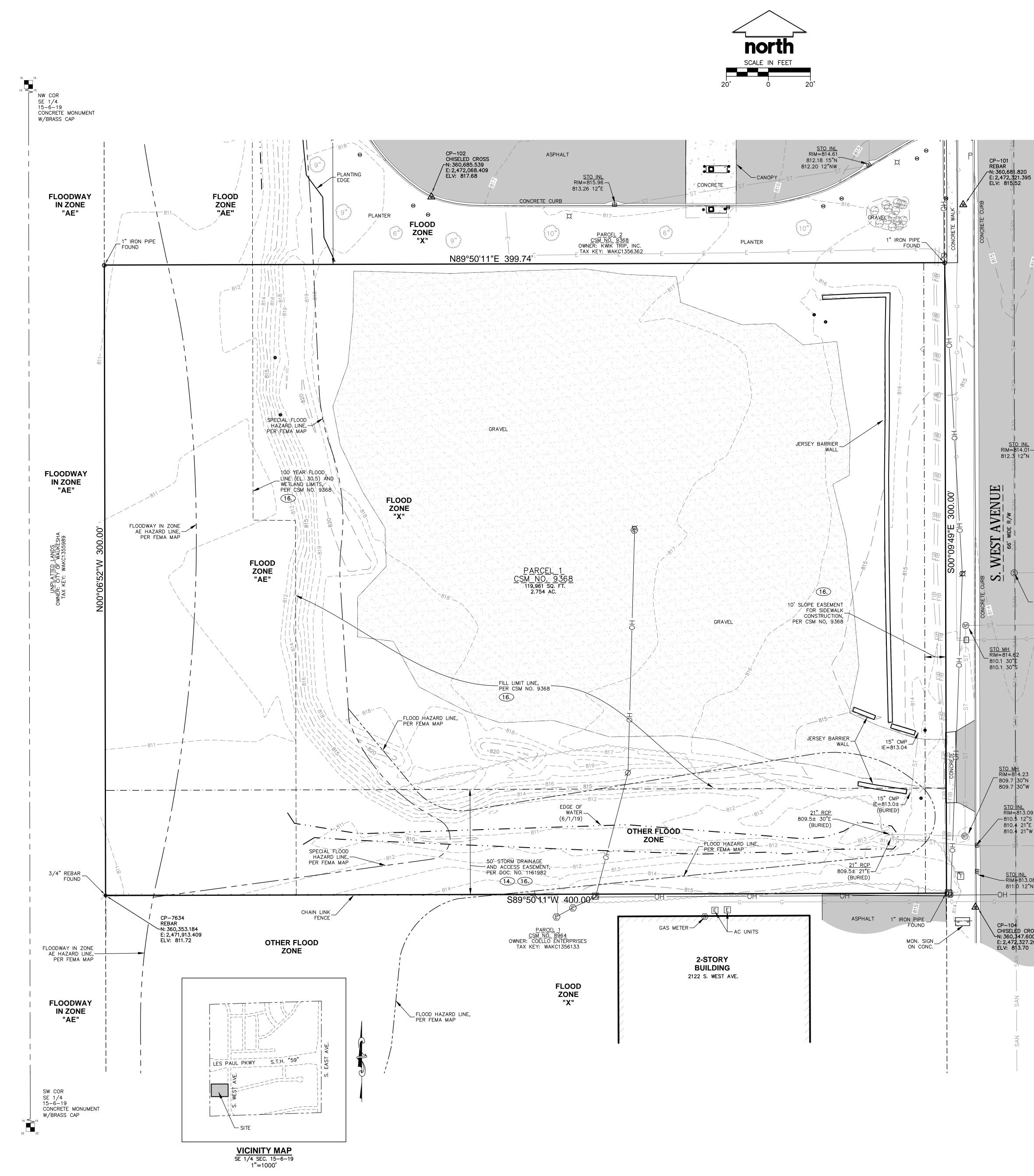
BEARINGS ARE REFERENCED TO THE WEST LINE OF THE SOUTHEAST 1/4 OF SECTION 15 TOWNSHIP 6 NORTH, RANGE 19 EAST, WHICH HAS A WISCONSIN STATE PLANE COORDINATE

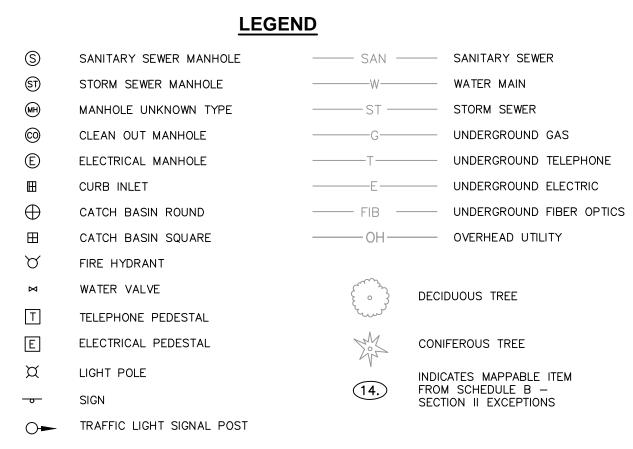
PROJECT CONVERSION FACTOR: GRID/0.99992004 = GROUND

 $\frac{4}{100}$ REFERENCE BENCHMARK: SOUTHWEST CORNER OF THE SOUTHEAST 1/4 OF SECTION 15, TOWNSHIP 6 NORTH, RANGE 19 EAST, CONCRETE MONUMENT W/BRASS CAP, ELEVATION = 810.30

5 BENCHMARK ON SITE: HYDRANT BM-SSE UPPER FLANGE BOLT EL.=817.21

COVER SHEET	CONVENIENCE STORE #970	2106 S. WEST AVENUE WAUKESHA, WI
<u># DATE</u>	DESC	
DRAWN BY		RAS GRAPHIC
SCALE PROJ. NO.		GRAPHIC
DATE		2020-05-04
SHEET		 T1





GENERAL NOTES:

CP-101

REBAR

<u>STO_INL</u> RIM=**8**14.01-

[T]

WEST AVENUE

 \sim

<u>STO_MH</u> RIM=814.62

_810.1_30"E 810.1 30"

<u>STO_MH</u> RIM=814.23

/ 809.7 30"N

809.7 30"W

<u>STO⁽INL</u> RIM=813.09

,—810.5 12"S

810.**4** 21"E

810.**4** 21"W ∶

<u>STOLINL</u> — RIM=813.08

811.0 12"N

CP-104 CHISELED CROSS N: 360,347.600 E: 2,472,327.202

ELV: 813.70

—ОН —

<u>STO INL</u> RIM=813.0

810.9 12"S

810.9 21"W

<u>STO INL</u> -RIM=813.07

811.1 12"N

<u>SAN_MH</u> RIM=814.36

804.12 10"S

803.97 10"N

─804.16 8"E

812.3 12"N

- 1 Bearings are referenced to the West line of the Southeast 1/4 of Section 15 Township 6 North, Range 19 East, which has a Wisconsin State Plane Coordinate System (South Zone) bearing of N00[•]05'55"W.
- Project Conversion Factor: Grid/0.99992004 = Ground
- 2 Horizontal Datum: North American Datum of 1927
- 3 Vertical Datum: National Geodetic Vertical Datum of 1929
- <u>4</u> Reference Benchmark: Southwest corner of the Southeast 1/4 of Section 15, Township 6 North, Range 19 East, Concrete Monument w/Brass Cap, Elevation = 810.30
- 5 This ALTA/NSPS Land Title Survey was prepared and based on First American Title Insurance Company Title Commitment No. NCS-959072-MAD, with an commitment dated of May 08, 2019. TABLE A ITEMS:

- <u>2</u> Observed posted address number: Site vacant no posted address
- $\underline{3}$ At the time of this survey portion of this property is located within Zone X (Areas determined to be outside the 0.2% annual chance floodplain) and Zone AE (Areas subject to inundation by the 1% annual chance flood) per FEMA map panel number 55133C0326G, map effective date: Novenber 5, 2014.
- 4 Gross Land Area:119,961 sq. ft. (2.754 ac.)
- 6 Per City of Waukesha Verification Request Letter dated May 09, 2019: "The property is zoned MM-1 Mixed-Use Manufacturing District." The information on file indicates that an automobile service stations provided that all gas pumps meet the setback requirement for the district and are located not closer than 40 feet from any side lot line is Permitted Principal use of this zoning district.
- Street Yard Setback: 25' Side Yard Setback: 10'
- Rear Yard Setback: 25' Shoreyard setback: 75'
- Maximum structure height: none, 20' for accessory structure
- 9 At the time of this survey, property is vacant and have no designated parking stalls.
- <u>11</u> Underground utility locations shown are based on utility mapping and field location markings by "Digger's Hotline", Ticket No. 20192108508 and 20192108511 with a start date of May 31, 2019. Underground utility information is shown for informational purposes only, and is not guaranteed to be accurate or all inclusive. The Contractor/Owner is responsible for making his own determination as to the type and location of underground utilities as may be necessary to avoid damage thereto. Contractor/Owner shall call "Digger's Hotline" prior to the start of any construction activities.
- <u>16</u> At the time of this survey there was no observed evidence of current earth moving work, building construction or building.
- <u>17</u> At the time of this survey there was no proposed changes in street right of way lines or observed
- evidence of recent street or sidewalk construction or repair. $\underline{18}$ At the time of this survey the property, no wetland markers were observed.

SCHEDULE B - SECTION II EXCEPTIONS

1 to 3, 10 Shown on map, if any.

- 4 to 9, and 17 to 18 Not survey related.
- 11. Limitations on Access set forth in conveyance recorded April 24, 1972 on Reel 3, Image 300 as Document No. 813817. (NOT APPLICABLE)
- 12. Declaration of Conditions, Covenants, Restrictions and Easements recorded January 16, 1980 on Reel 394, Image 386 as Document No. 1118407.
- 13. Utility Easement granted to Wisconsin Electric Power Company recorded February 20, 1980, on Reel 397, Image 1261 as Document No. 1120686. (NOT APPLICABLE)
- (14.) Storm Drainage and Access Easement granted to the City of Waukesha, recorded July 08, 1981, on Reel 459, Image 668 as Document No. 1161982.
- 15. Easement Agreement by and between the City of Waukesha and Bryce P. Styza, recorded May 28, 1996 on Reel 2240, Image 486 as Document No. 2128062. (NOT APPLICABLE)
- (16.) Notes and easements as set forth on Certified Survey Map No. 9368, recorded April 30, 2002 as Document No. 2795368:
- One Hundred (100) year Flood Line and Wetland Limits
- Fill Limit Lines - Fifty (50) foot Storm Drainage & Access Easement
- Ten (10) foot Slope Easement for Sidewalk Construction (SLOPE EASEMENT TO BE TERMINATED ON COMPLETION OF CONSTRUCTION OF SIDEWALK)

LEGAL DESCRIPTION:

(Based on First American Title Insurance Company Title Commitment No. NCS-959072-MAD, with an effective dated of May 08, 2019.)

Parcel 1 of Certified Survey Map No. 9368, recorded April 30, 2002, in Volume 85 of Certified Survey Map on Pages 151 to 154, as Document No. 2795368, being a part of the Southwest 1/4 of of the Southeast 1/4 of Section 15, Town 6 North, Range 19 East, in the City of Waukesha, County of Waukesha, State of Wisconsin. Note: Property Address: S. West Avenue, Waukesha, WI Tax Key No. WAKC 1356361

SURVEYOR'S CERTIFICATE:

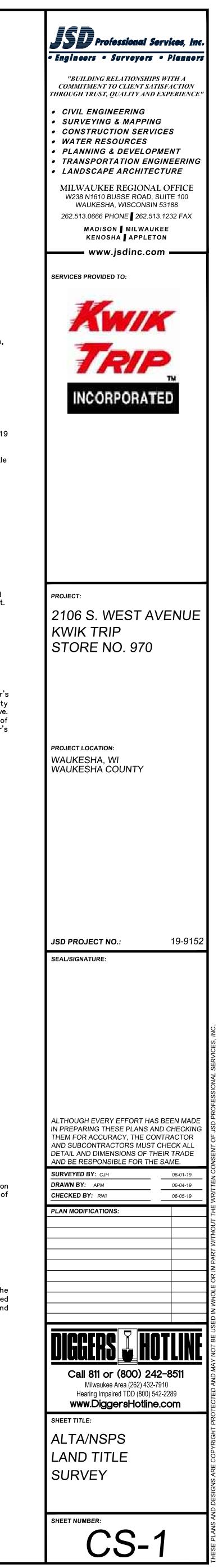
To Kwik Trip, Inc., a Wisconsin corporation and First American Title Insurance Company National Commercial Services:

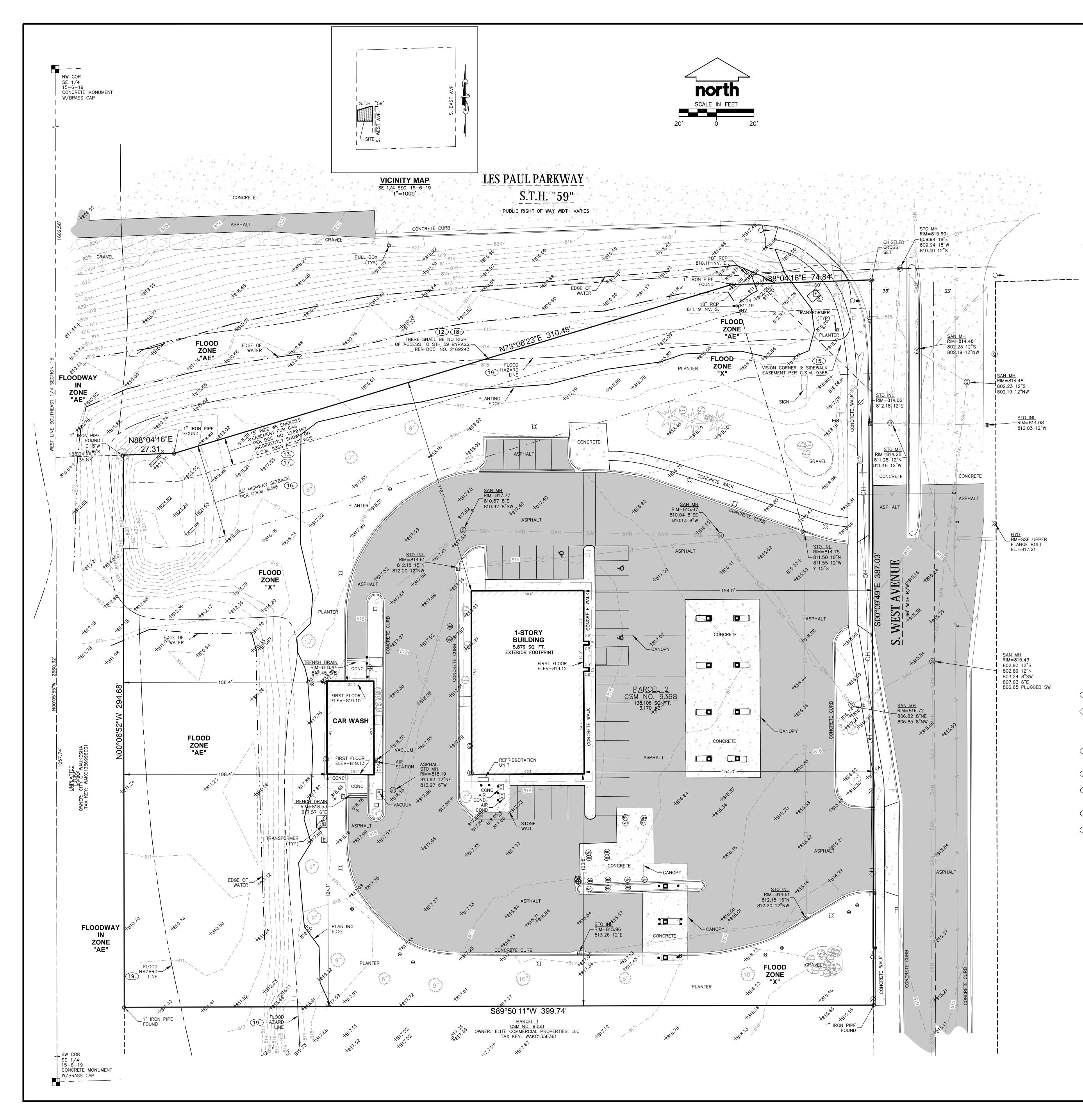
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6, 7a, 7(b)(1), 7(c), 8, 9, 11, 13, 14, 16, 17, 18, 19 and 21 of Table A thereof. The field work was completed on June 1, 2019.











LEGEND									
S	SANITARY SEWER MANHOLE		— SAN —	SANITARY SEWER					
ST	STORM SEWER MANHOLE		W	WATER MAIN					
MH	MANHOLE UNKNOWN TYPE		ST	STORM SEWER					
0	CLEAN OUT MANHOLE		G	UNDERGROUND GAS					
E	ELECTRICAL MANHOLE		T	UNDERGROUND TELEPHONE					
Ħ	CURB INLET		——E——	UNDERGROUND ELECTRIC					
\oplus	CATCH BASIN ROUND		— FIB —	UNDERGROUND FIBER OPTICS					
⊞	CATCH BASIN SQUARE		— OH —	OVERHEAD UTILITY					
Д	FIRE HYDRANT								
M	WATER VALVE		٤	DECIDUOUS TREE					
Т	TELEPHONE PEDESTAL		لرسا						
Ε	ELECTRICAL PEDESTAL		July 1	CONIFEROUS TREE					
¤	LIGHT POLE			INDICATES MAPPABLE ITEM					
-o-	SIGN		(14.)	FROM SCHEDULE B - SECTION II EXCEPTIONS					
\bigcirc	TRAFFIC LIGHT SIGNAL POST								

GENERAL NOTES:

- 1 Bearings are referenced to the West line of the Southeast 1/4 of Section 15 Township 6 North, Range 19 East, which has a Wisconsin State Plane Coordinate System (South Zone) bearing of N00°05'55"W.
- Project Conversion Factor: Grid/0.99992004 = Ground
- <u>2</u> Horizontal Datum: North American Datum of 1927
- 3 Vertical Datum: National Geodetic Vertical Datum of 1929
- <u>4</u> Reference Benchmark: Southwest corner of the Southeast 1/4 of Section 15, Township 6 North, Range 19 East, Concrete Monument w/Brass Cap, Elevation = 810.30
- 5 This ALTA/NSPS Land Title Survey was prepared and based on First American Title Insurance Company Title Commitment No. NCS-861351-22-MAD, with an effective dated of August 04, 2017. TABLE A ITEMS:

2 Observed posted address number: 2106

- $\underline{3}$ At the time of this survey portion of this property is located within Zone X (Areas determined to be outside the 0.2% annual chance floodplain) and Zone AE (Areas subject to inundation by the 1% annual chance flood) per FEMA map panel number 55133C0326G, map effective date: Novenber 5, 2014.
- 4 Gross Land Area: 138,106 sq. ft. (3.170 ac.)
- 6 Per City of Waukesha Verification Request Letter dated July 25, 2017: "The property is zoned M-2, General Manufacturing District. The information on file indicates the use of this building as a Gas Station & Convenience Store and is a conditional use within this zonina district".
- Street Yard Setback: 25' Side Yard Setback: 10'
- Rear Yard Setback: 25' Shoreyard setback: 75'
- Maximum structure height: none, 20' for accessory structure
- 9 At the time of this survey, property has the following designated parking stalls:

Standard Car Parking Stalls: 24 ADA assigned Car Parking Stalls: 3 + TOTAL PARKING STALLS: 27

- <u>11</u> Underground utility locations shown are based on field location markings by "Digger's Hotline", Ticket No. 20173002904 with a start date of July 27, 2017. Underground utility information is shown for informational purposes only, and is not guaranteed to be accurate or all inclusive. The Contractor/Owner is responsible for making his own determination as to the type and location of underground utilities as may be necessary to avoid damage thereto. Contractor/Owner shall call "Digger's Hotline" prior to the start of any construction activities.
- <u>16</u> At the time of this survey there was no observed evidence of current earth moving work, building construction or buildina.
- <u>17</u> At the time of this survey there was no proposed changes in street right of way lines or observed evidence of recent street or sidewalk construction or repair.
- <u>18</u> At the time of this survey the property, no wetland markers were observed.

SCHEDULE B - SECTION II EXCEPTIONS

1 to 3 & 8 Shown on map, if any.

- 4 to 7, 9 & 20 to 27 Not survey related.
- 10. Access restrictions and limitations to and from C.T.H. "A" as contained in a Conveyance by Individual recorded on April 24, 1972, in Reel 3, Image 300, as Document No. 813817. Does not affect property-expired.
- 11. Restrictions, conditions, covenants, easements, charges and/or assessments contained in a Declaration of Conditions, Covenants, Restrictions and Easements recorded on January 16, 1980, in Reel 394, Image 586, as Document No. 1118407. Affects property—General in nature, cannot be plotted.

(12.) Access restriction to S.T.H. "59" as contained in a Warranty Deed recorded on November 1, 1996, in Reel 2334, Image 267, as Document No. 2169243. (Affects property—No right of access to STH 59 bypass.)

13. Utility Easement recorded on December 8, 1997, in Reel 2557, Image 532, as Document No. 2269497.

- 14. Reservation for slope easement for sidewalk construction, affecting the Northerly 25 feet and East 10 feet of the premises described in Schedule A hereof, and note, as shown on the recorded plat of Certified Survey Map No. 9368 reciting as follows: "Slope easement to be terminated on completion of construction of sidewalk". Does not affect property-not shown, easement expired.
- 15. Reservation for vision corner and sidewalk corner easements affecting the Northeast corner of the premises described in Schedule A hereof, as shown on the recorded plat of Certified Survey Map No. 9368. Affects property-shown
- 16. Fifty foot highway setback line from S.T.H. "59" a/k/a Les Paul Parkway as shown on the recorded plat of Certified Survey Map No. 9368. Affects property—shown 17. Reservation for gas easement affecting the Northerly 30 feet of the premises described in Schedule A hereof, as shown on the recorded plat of Certified Survey Map No. 9368. Affects property as shown—Only
- 15' Affects property as described in Document No. 2269497 18. Access restriction to S.T.H. "59" a/k/a/ Les Paul Parkway as shown on the recorded plat of Certified Survey Map No. 9368. Affects property—shown

(19,)100 year flood line, wetland limit affecting westerly portion of the premises described in Schedule A hereof, as shown on the recorded plat of Certified Survey map No. 9368. Affects property-shown, Flood plane lines as taken from FIRM panel.

LEGAL DESCRIPTION:

(Based on First American Title Insurance Company Title Commitment No. NCS-861351-22-MAD, with an effective dated of August 04, 2017.)

Parcel Two (2) in Certified Survey map No. 9368, being part of the Southwest Quarter of the Southeast Quarter (SW 1/4 SE 1/4) of Section (15), Township Six (6) North, Range Nineteen (19) East, in the City of Waukesha, Waukesha County, Wisconsin and recorded in the Office of the Register of Deeds for Waukesha County on April 30, 2002 in Volume 85 Volume 85 of Certified Survey Maps, pages 151—154 as Document No. 2795368.

Note: Property Address: 2106 S. West Avenue, Waukesha, W Tax Key No. WAKC 1356362

SURVEYOR'S CERTIFICATE:

National Commercial: This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6, 7a, 7(b)(1), 7(c), 8, 9, 11, 13, 14, 16, 17, 18, 19 and 21 of Table A thereof. The field work was completed on August 4, 2017.

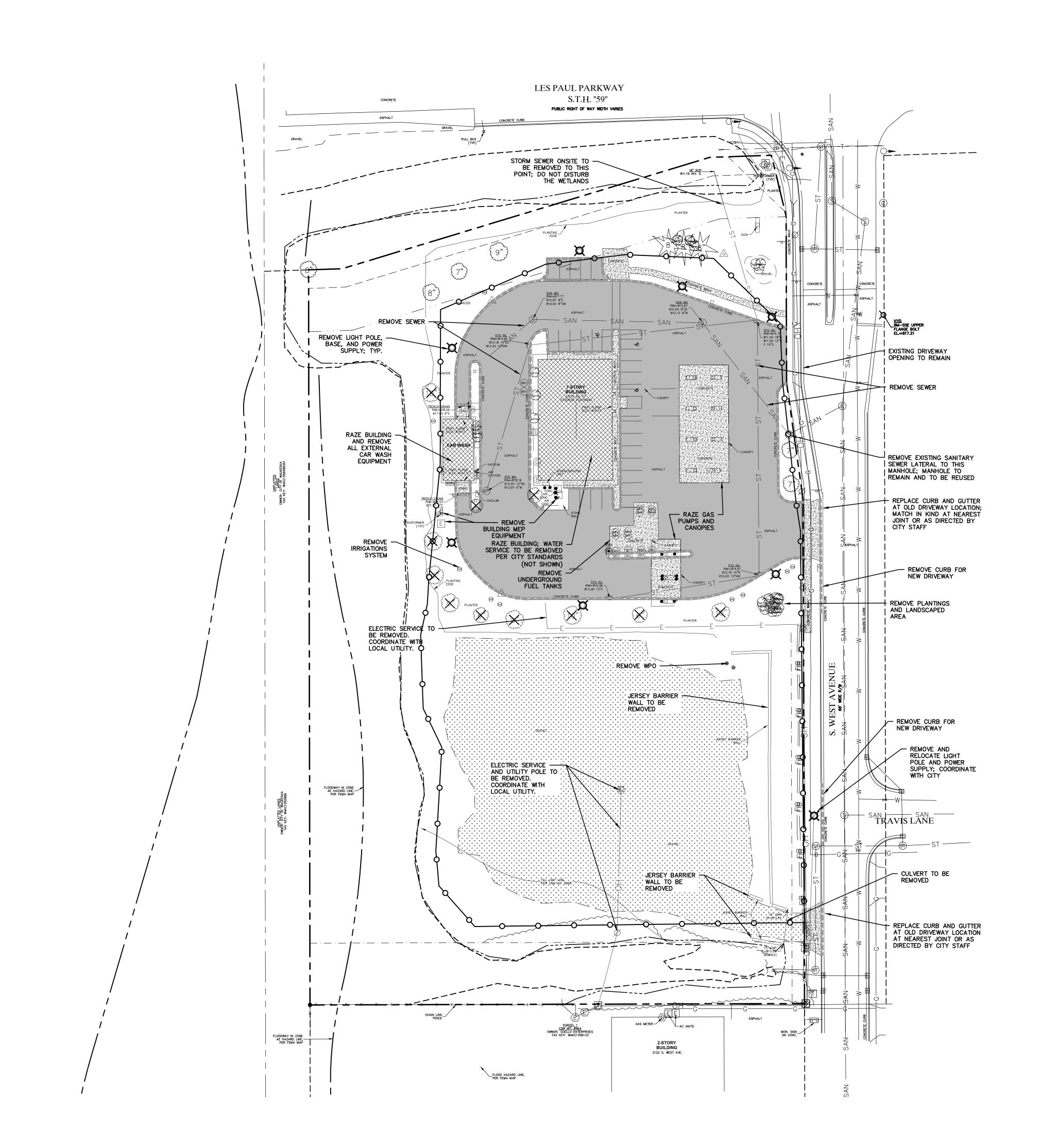
Date of Map: September 20, 2017

Rizal W. Iskandarsjach, P.L.S. Professional Land Surveyor, S-2738 JSD Professional Services, Inc. N22 W22931 Nancys Court, Suite 3 Waukesha, WI 53186

262-513-0666







<u>LEGEND</u>

DEMO CURB & GUTTER -O- TEMPORARY CONSTRUCTION FENCE

•

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₹ Ţ
SCALE: $ '' = 40'$
PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE ½ SCALE- 1"=80".

- - PROPERTY LINE / RIGHT OF WAY

EXISTING LIGHT POLE AND BASE, BOLLARD, ¤ FOUNDATION AND/OR SIGN TO BE REMOVED

 +
 +
 +
 +
 +

 +
 +
 +
 +
 +
 +

 EXISTING GRAVEL TO BE REMOVED
 EXISTING
 EXISTING
 EXISTING

 EXISTING CONCRETE PAVEMENT TO BE REMOVED

EXISTING ASPHALT PAVEMENT TO BE REMOVED EXISTING BUILDING/STRUCTURE, FOUNDATION AND SLAB TO BE REMOVED

INITIAL EROSION CONTROL MEASURES (SILT FENCE, ROCK CONSTRUCTION ENTRANCE, INLET PROTECTION) SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN PROJECT LIMITS.

STABILIZE ALL DISTURBED AREAS AS SOON AS GRADING IS COMPLETE IN AN AREA. ENSURE SEEDING MEASURES, EROSION CONTROL MATTING AND MISCELLANEOUS EROSION CONTROL DEVICES ARE INSTALLLED AS INDICATED ON THE EROSION CONTROL PLANS. PERMANENT SEEDING AND TEMPORARY SEEDING SHALL BE INSTALLED PER THE GENERAL SOIL STABILIZATION SPECIFICATIONS LISTED ON SWPPP SHEET SWP2.

UPON FOLLOWING SPRING SEASON OF CONSTRUCTION. CHECK THE VEGETATIVE COVER IN AREAS WHERE SEEDING WAS PLACED DURING THE FALL OF THE PREVIOUS YEAR. RESEED AREAS WHERE VEGETATION IS NO LONGER ESTABLISHED OR HAS DIED. INSPECT ALL EROSION CONTROL DEVICES AND REPAIR AS NECESSARY. RESUME CONSTRUCTION ACTIVITY: CONTINUE BUILDING CONSTRUCTION, UTILITY INSTALLATION, AND PAVING.

DEMOLITION NOTES TO CONTRACTOR

1. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL SITE AND DEMOLITION PERMITS.

2. THE DEMOLITION CONTRACTOR SHALL PREPARE AND MAINTAIN A PROJECT SAFETY PLAN. ALL SITE SAFETY EQUIPMENT AND MEASURES, INCLUDING FENCING, FIRE PROTECTION, AND THE LIKE ARE THE SOLE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR.

3. THE DEMOLITION CONTRACTOR SHALL DEVELOP, OBTAIN NECESSARY APPROVALS/PERMITS AND MAINTAIN TRAFFIC AND PEDESTRIAN CONTROL PLANS THROUGHOUT ALL PHASES OF DEMOLITION.

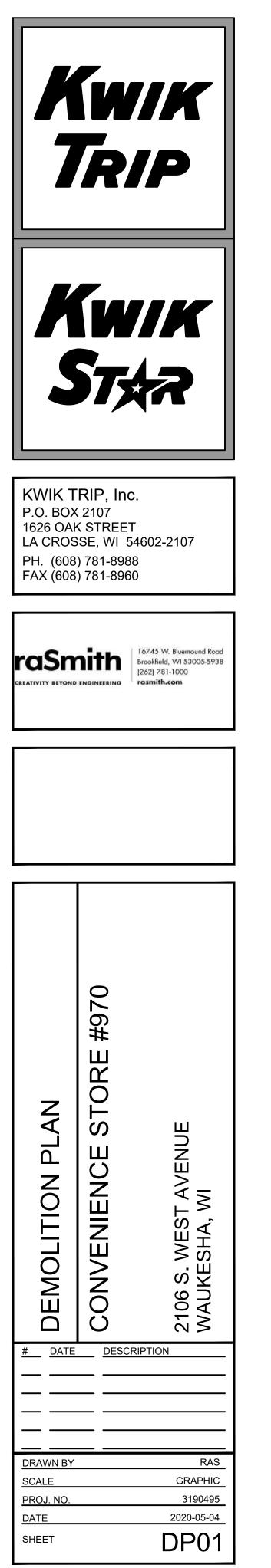
> CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF WAUKESHA EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, WONR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY.

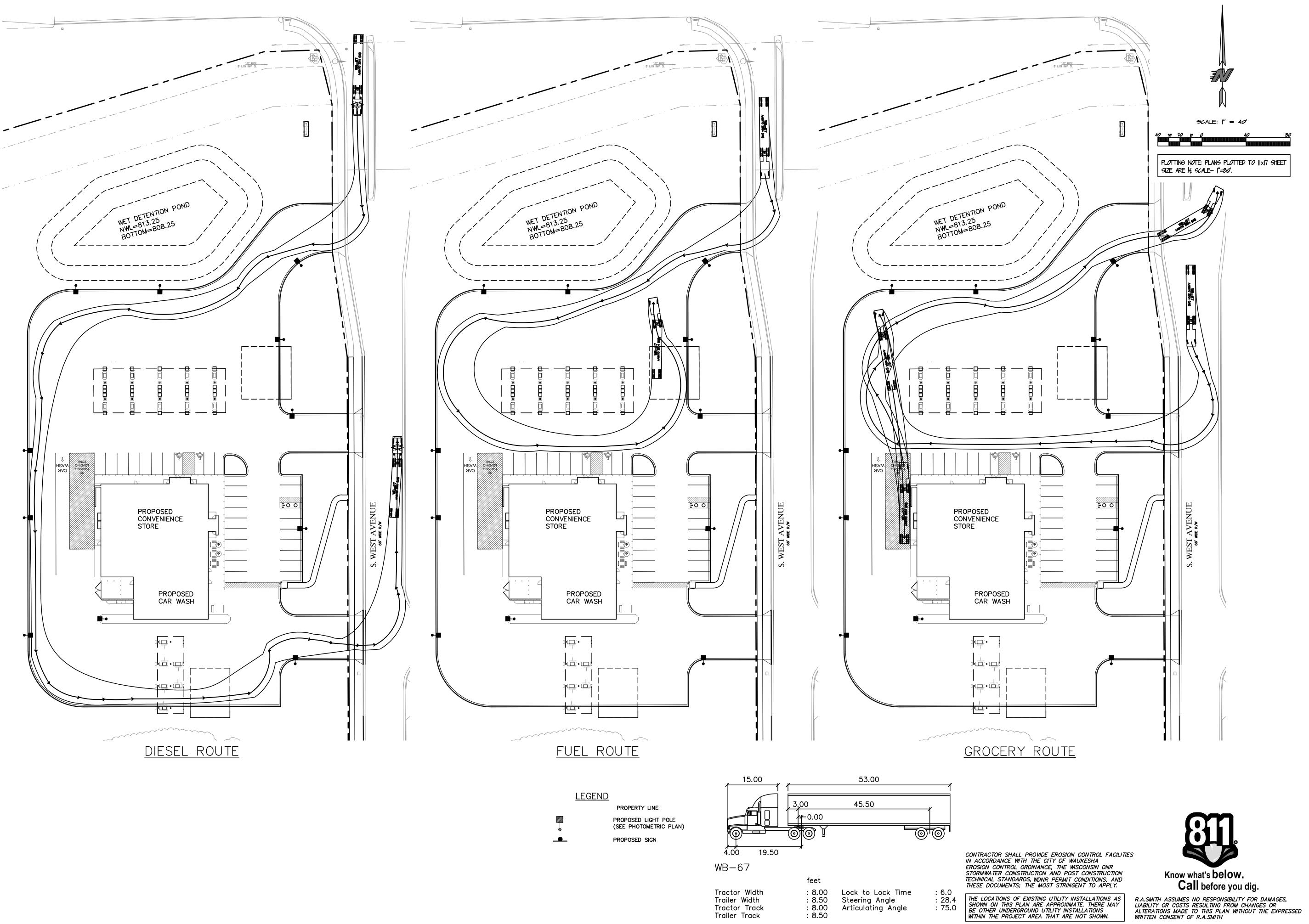
THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.



Know what's below. Call before you dig.

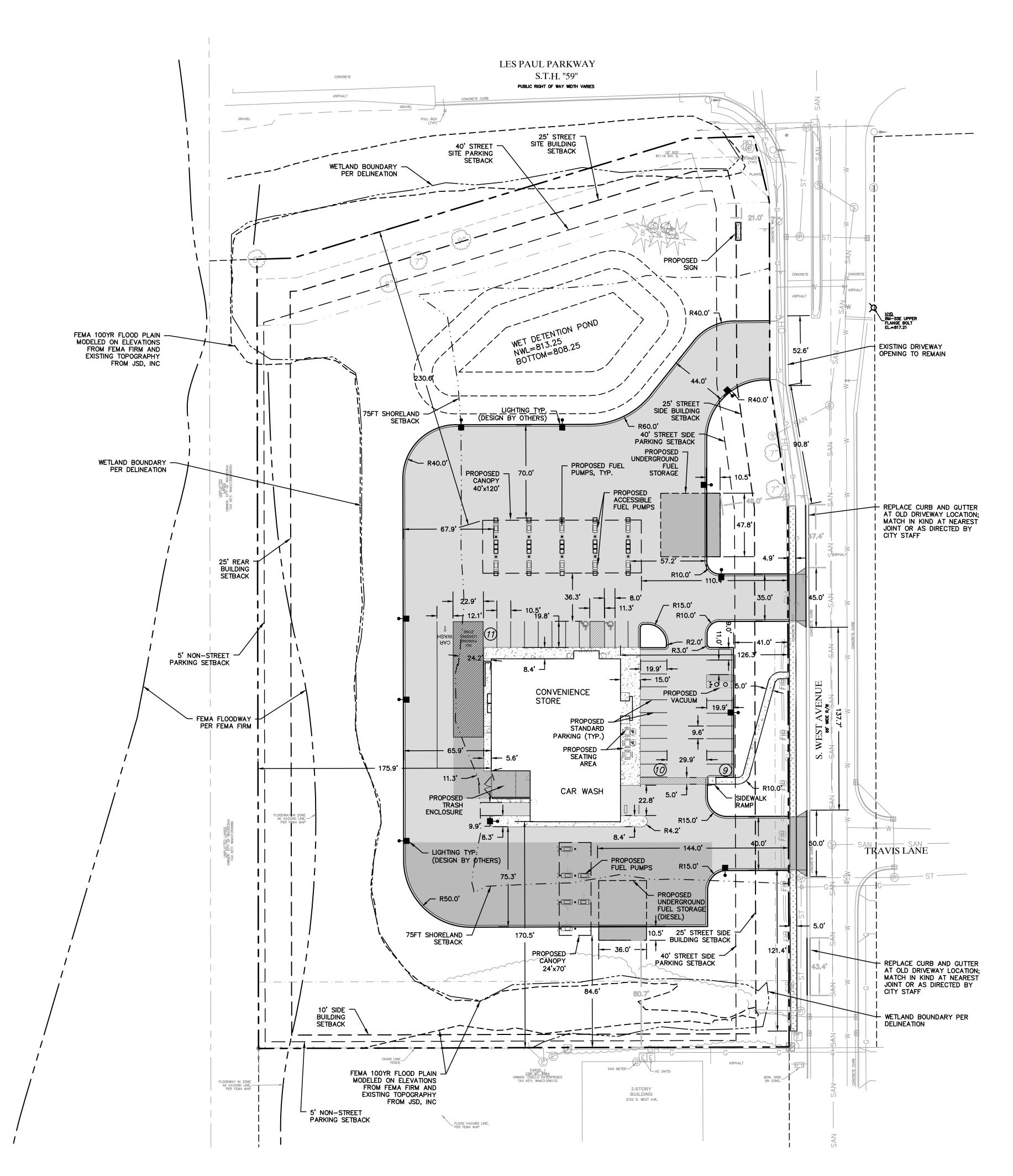
R.A.SMITH ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH





Kwik Trip Kwik Star KWIK TRIP, Inc. P.O. BOX 2107 1626 OAK STREET LA CROSSE, WI 54602-2107 PH. (608) 781-8988 FAX (608) 781-8960 raSmith 16745 W. Bluemound Road Brookfield, WI 53005-5938 [262] 781-1000 IVITY BEYOND ENGINEERING rasmith.com Ο \sim 6# PLAN Ш ORI ATION F Ś 2106 S. WEST AVENUE WAUKESHA, WI Ш CONVENIENC CIRCUL SITE # DATE DESCRIPTION

DRAWN BY RAS GRAPHIC SCALE 3190495 PROJ. NO. 2020-05-04 DATE SP0 SHEET



SITE STATISTICS		
PARCEL AREA	<u>SQFT</u> 254,737	<u>AC</u> 5.85
PROPOSED BUILDING AREA	11,122	0.26
PROPOSED PERVIOUS PROPOSED IMPERVIOUS	155,811 98,926	
KWIK TRIP STANDARD PARKIN	G STATIST	ICS
STANDARD PARKING STALLS		28
ACCESSIBLE STALLS		2
FUELING STALLS		18
ACCESSIBLE FUELING STALLS		2
TOTAL STANDARD PARKING SF	PACES	50
KWIK TRIP DIESEL STATISTICS		
DIESEL FUELING STALLS		3
ZONING INFORMATION		
CURRENT ZONING M-2		
BUILDING SETBACK STREET 25' SIDE 10' REAR 25'		
PARKING SETBACK STREET 40' NON-STREET 5'		

CONSTRUCTION NOTE:

WITH OWNER FOR FENCING AND GATE LOCATIONS AND APPROPRIATE SIGNAGE INSTALLATION. LAYOUT NOTES:

- 1. PLAN PREPARED FROM LDS ALTA/NSPS LAND TITLE SURVEY, DATED JUNE 5, 2019 & SEPTEMBER 20, 2017.
- 2. CURBS ARE DIMENSIONED TO FACE OF CURB.
- 3. 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.
- 4. <u>CONCRETE IN ISLAND COMPLEX AND UNDER CANOPY TO BE ROUGH BROOM FINISHED.</u> <u>SIDEWALKS ADJACENT TO BUILDING SHALL BE SMOOTH BROOM FINISHED.</u>
- 5. EXTERIOR CONCRETE SURFACES TO BE SEALED. CONCRETE SEALER: APR 15- OCT 31 USE: TK-26UV NOV 1- DEC 31 USE: TK-290
- 6. EXPANSION JOINTS SHALL BE DECK-O-FOAMED AND CAULKED WITH SL1

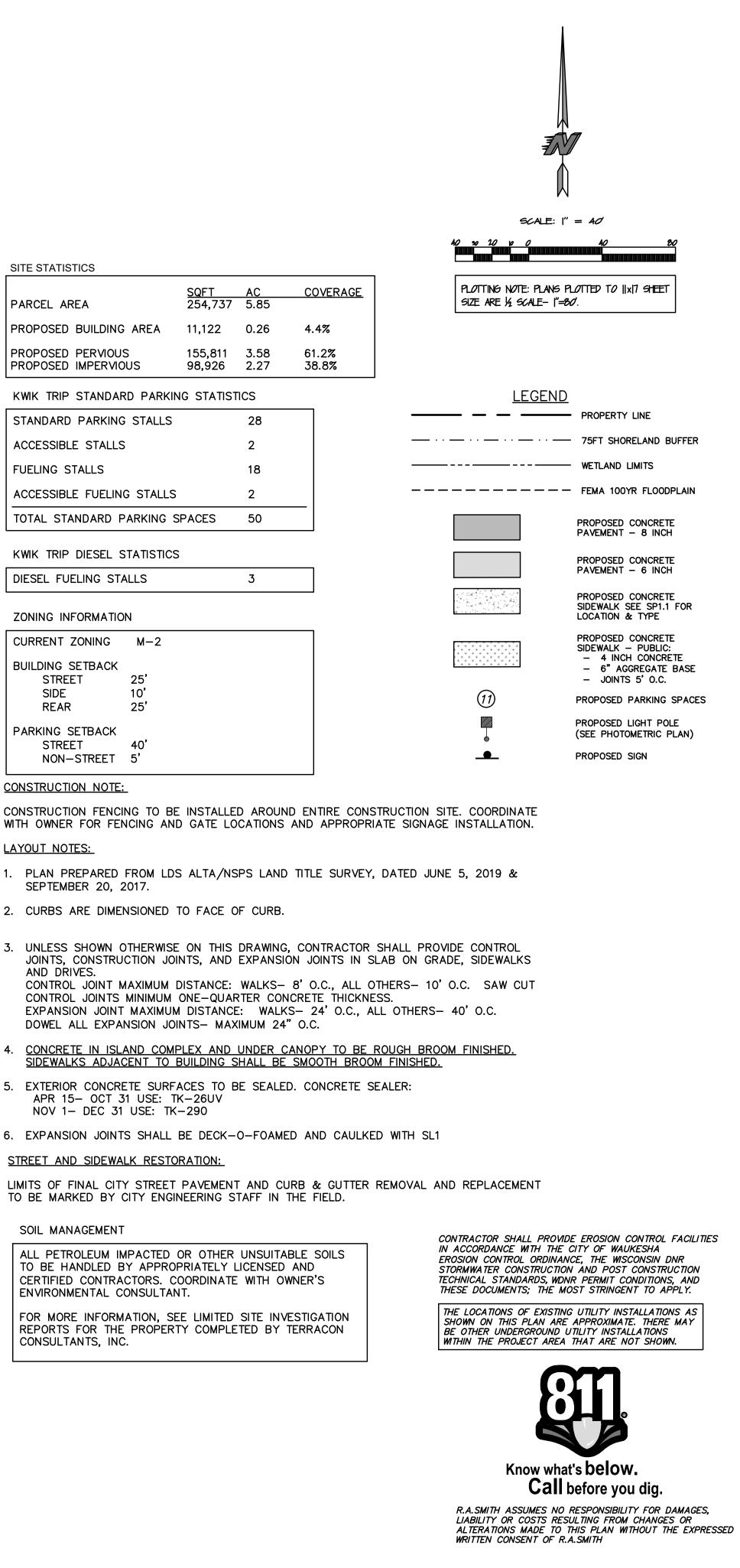
STREET AND SIDEWALK RESTORATION:

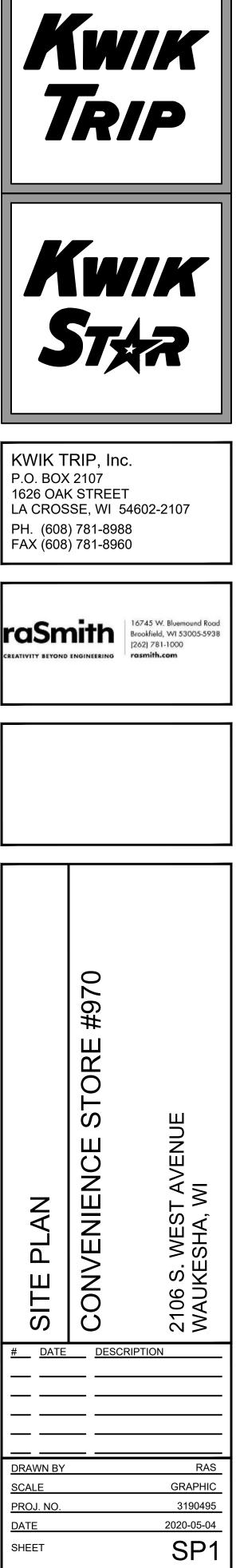
TO BE MARKED BY CITY ENGINEERING STAFF IN THE FIELD.

SOIL MANAGEMENT

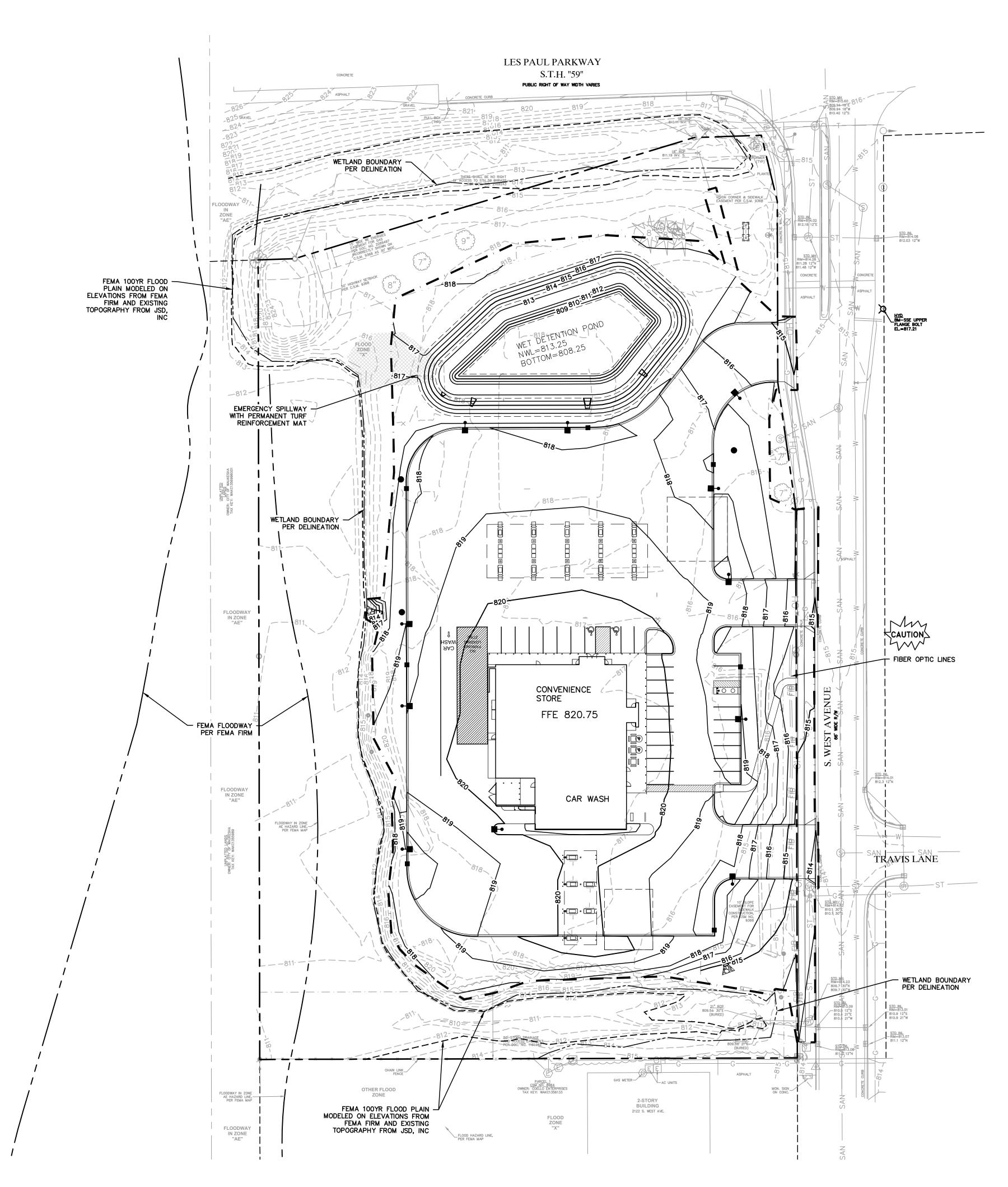
ALL PETROLEUM IMPACTED OR OTHER UNSUITABLE SOILS TO BE HANDLED BY APPROPRIATELY LICENSED AND CERTIFIED CONTRACTORS. COORDINATE WITH OWNER'S ENVIRONMENTAL CONSULTANT.

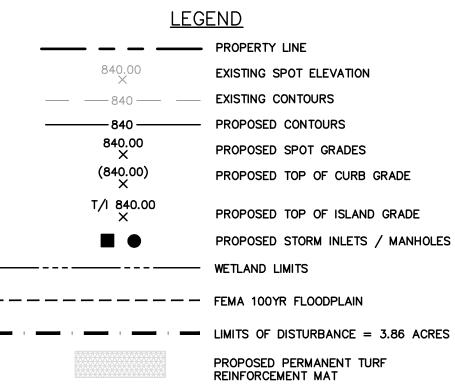
FOR MORE INFORMATION, SEE LIMITED SITE INVESTIGATION REPORTS FOR THE PROPERTY COMPLETED BY TERRACON CONSULTANTS, INC.











<u>NOTE:</u>

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 LDS ALTA/NSPS LAND TITLE SURVEY, DATED JUNE 5, 2019 & SEPTEMBER 20, 2017.

- CONTRACTOR SHALL LOCATE ALL UTILITIES WHICH MAY AFFECT THIS WORK PRIOR TO CONSTRUCTION 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.

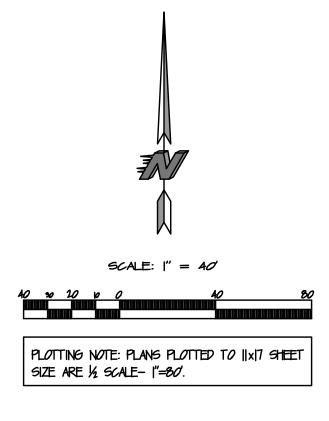
- CONTRACTOR SHALL COORDINATE GRADING AND INSTALLATION OF DRIVES IN R.O.W. WITH APPROPRIATE GOVERNMENT AGENCIES. OBTAIN APPROPRIATE PERMITS FOR GRADING AND DRAINAGE IN ALL R.O.W.

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

FINISHED FLOOR ELEV. PROPOSED KWIK TRIP CONVENIENCE STORE & CARWASH = FINISHED FLOOR ELEVATION = 820.75 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.

WET DETENTION POND $\stackrel{\bigvee}{=}$ ponding elevations 100YR PONDING ELEV. = 815.44 10YR PONDING ELEV. = 814.66 2YR PONDING ELEV. = 814.22 1YR PONDING ELEV. = 814.09



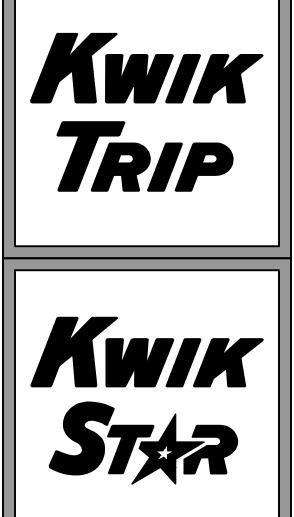


CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF WAUKESHA EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, WDNR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.



R.A.SMITH ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH

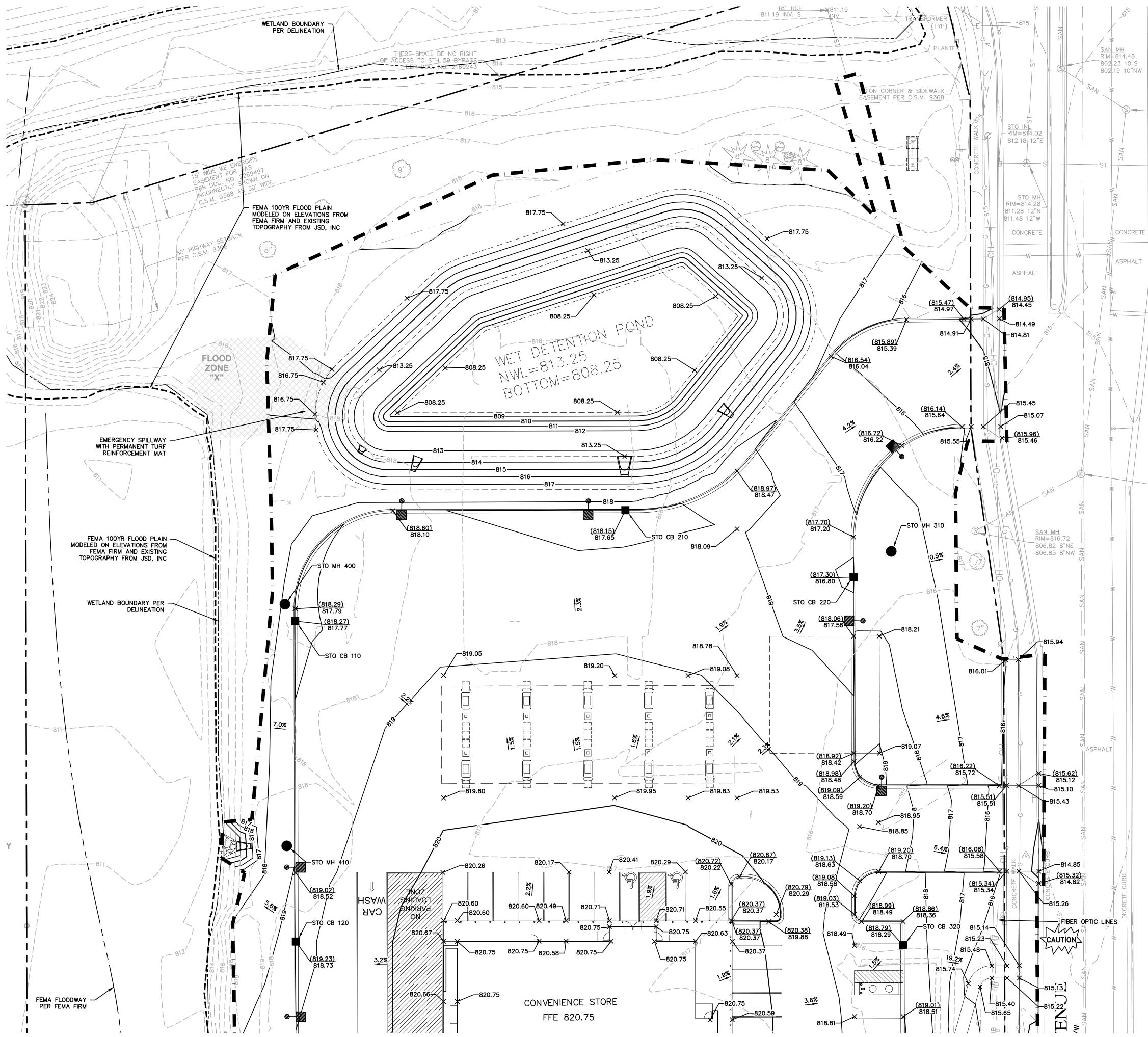


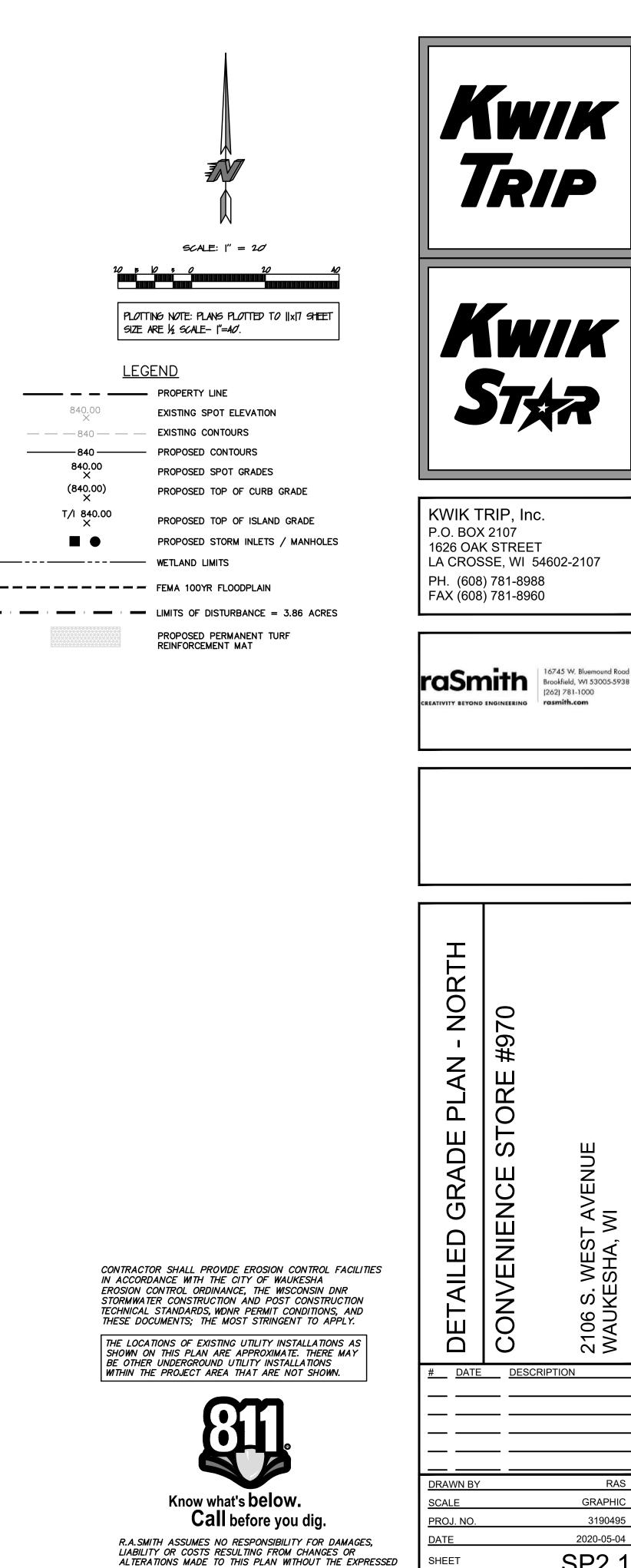
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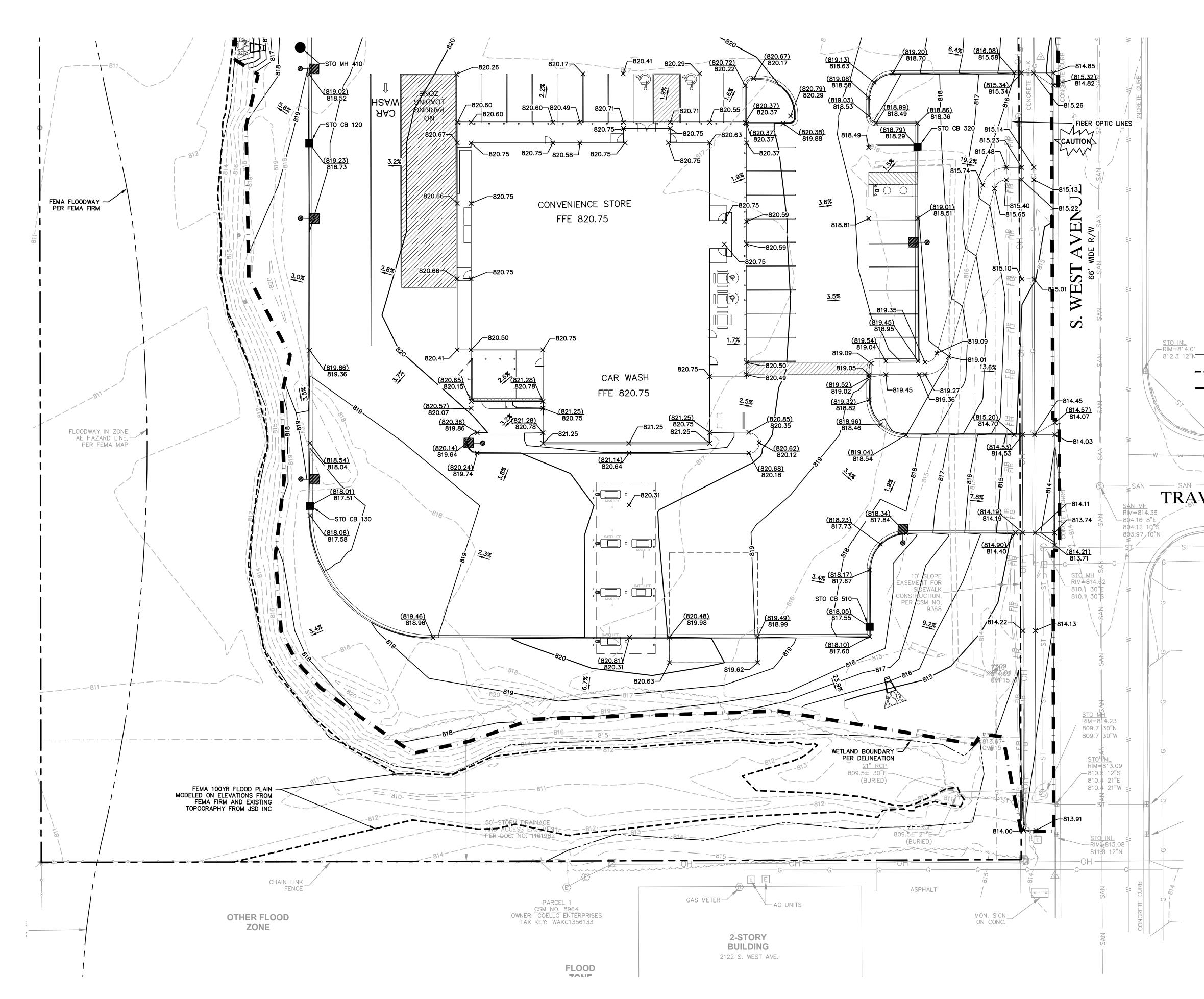
raSmith Brookfield, WI 53005-5938 [262] 781-1000 IVITY BEYOND ENGINEERING rasmith.com

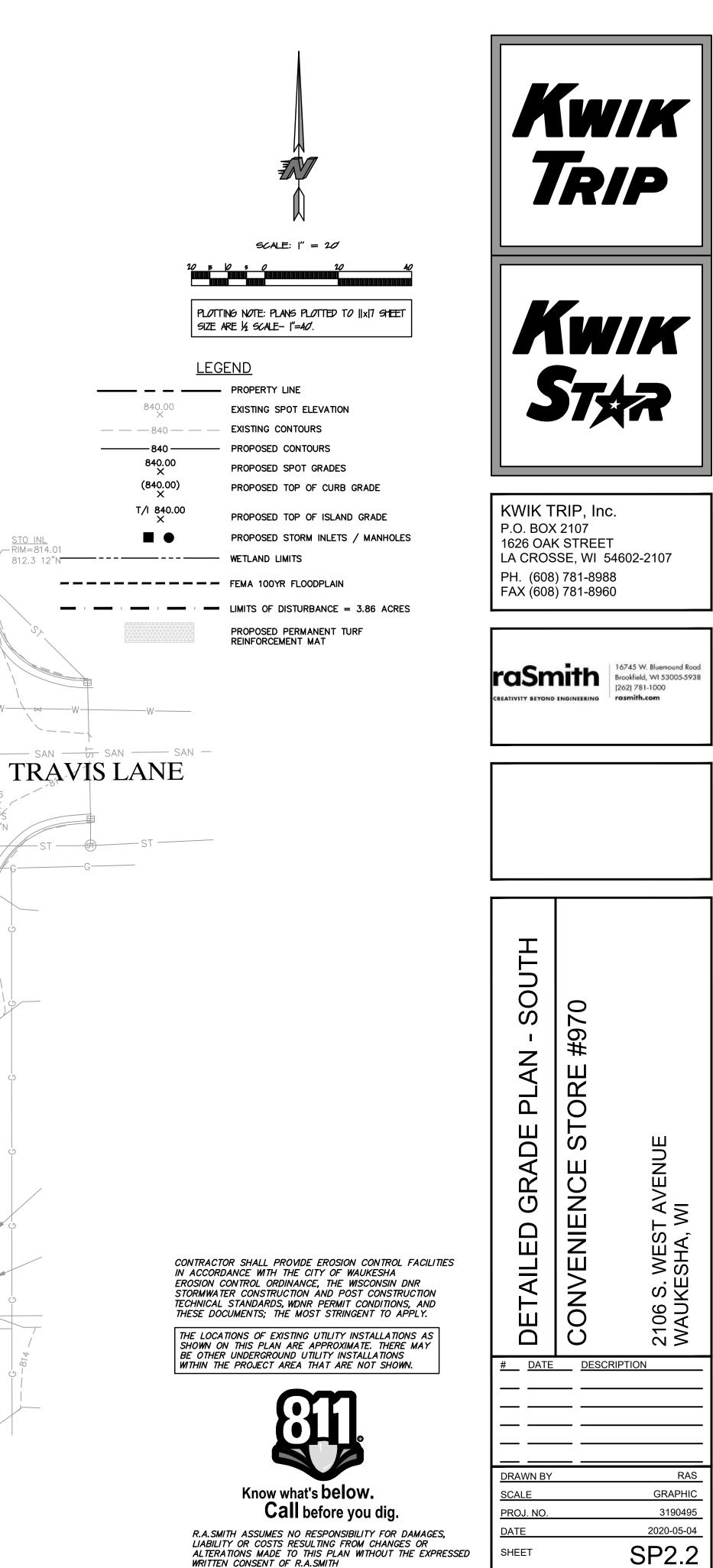




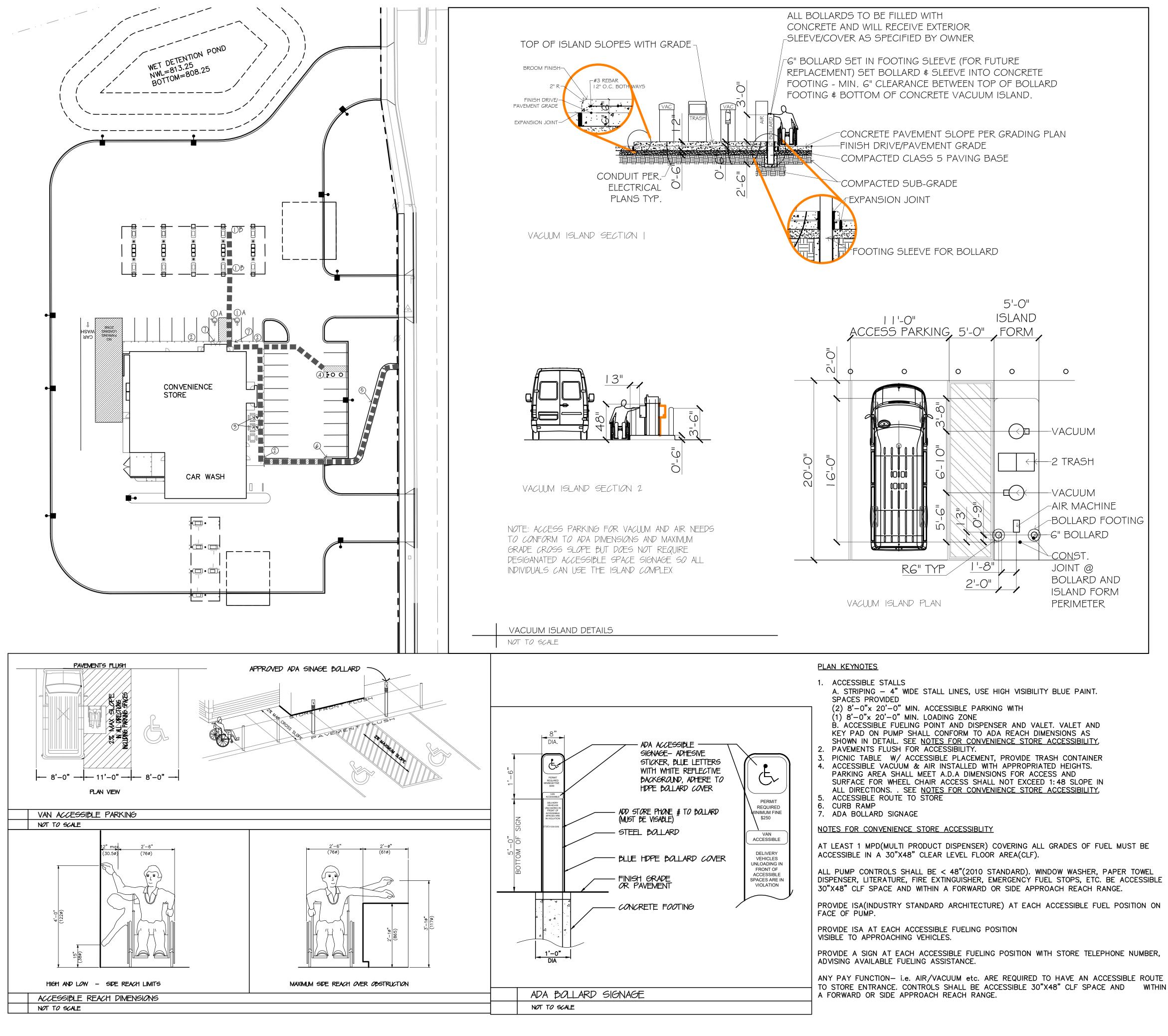
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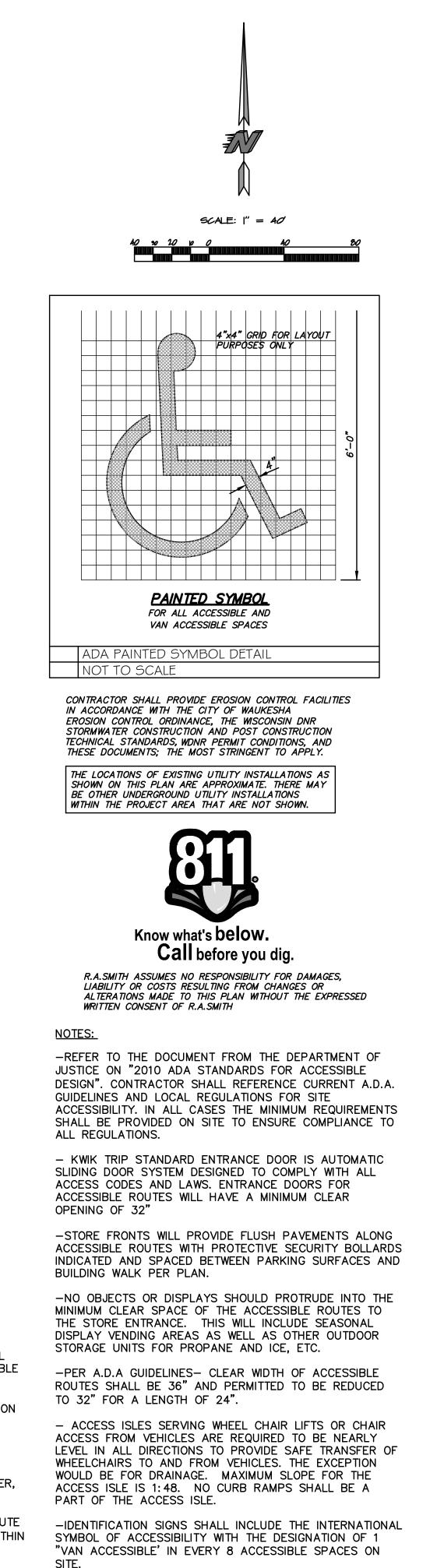
Kwik Star KWIK TRIP, Inc. P.O. BOX 2107 1626 OAK STREET LA CROSSE, WI 54602-2107 PH. (608) 781-8988 FAX (608) 781-8960 raSmith 16745 W. Bluemound Road Brookfield, WI 53005-5938 [262] 781-1000 ATIVITY BEYOND ENGINEERING rasmith.com 0 σ # Ш $\mathbf{\mathcal{L}}$ Ο Ś 2106 S. WEST AVENUE WAUKESHA, WI Ш ONVENIENC Ŭ # DATE DESCRIPTION DRAWN BY RAS GRAPHIC PROJ. NO. 3190495 2020-05-04 **SP2.1** SHEET



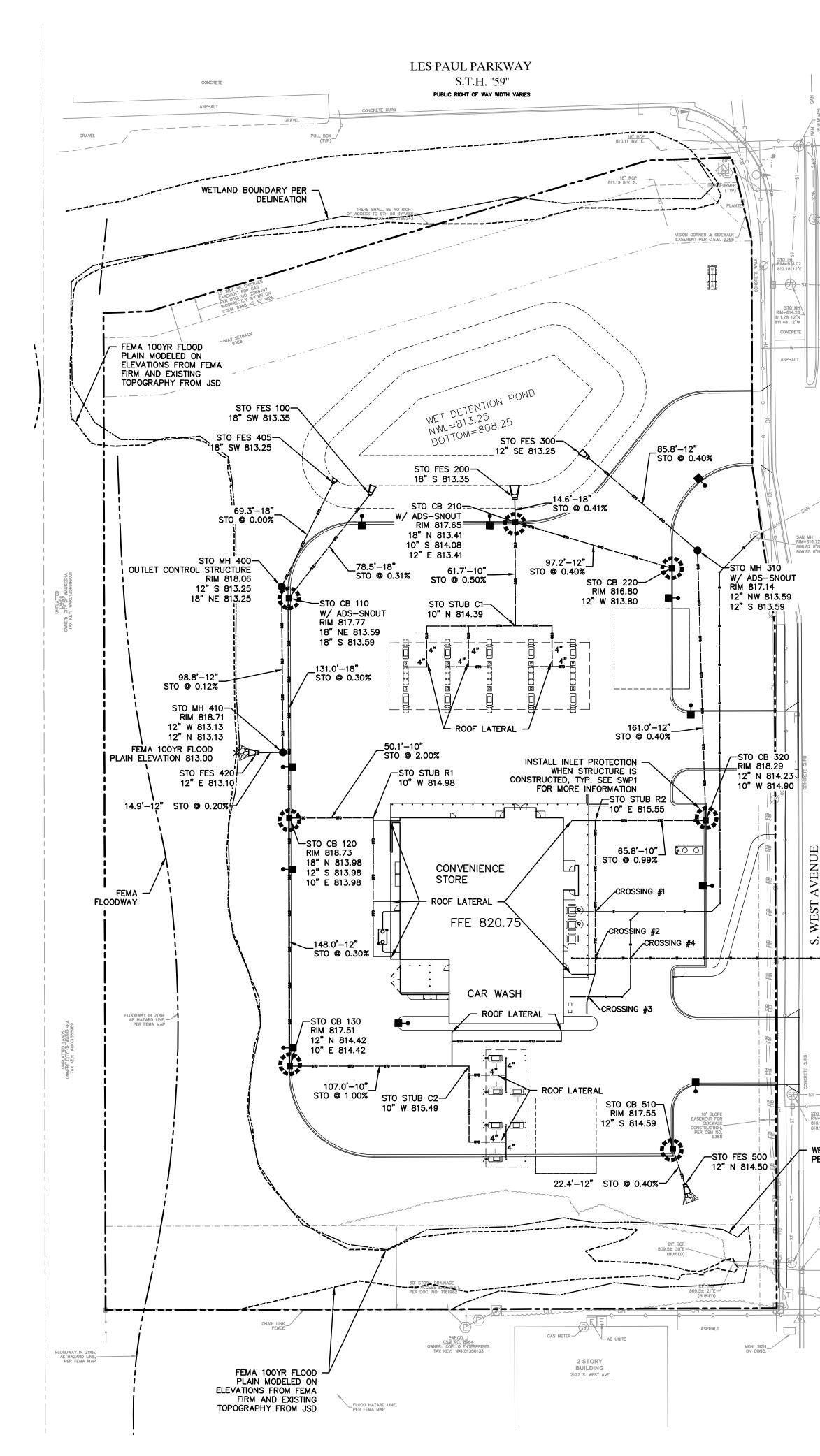


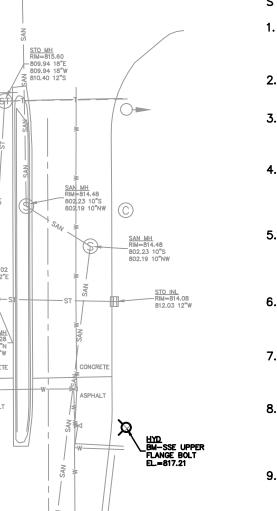
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KWIK TRIP Kwik Star KWIK TRIP, Inc. P.O. BOX 2107 1626 OAK STREET LA CROSSE, WI 54602-2107 PH. (608) 781-8988 FAX (608) 781-8960 16745 W. Bluemound Road raSmith 16745 W. Bluemound Road Brookfield, WI 53005-5938 [262] 781-1000 TIVITY BEYOND ENGINEERING rasmith.com 0 6# Ш Ľ \mathbf{C} AN ⊢ \mathcal{O} Ш T AVENUE WI \mathbf{C} Ž SIB Ш WEST SHA, Z Ш S ONVI 2106 S. V WAUKES Ш \mathbf{O} Ŭ ()DATE DESCRIPTION _ ___ DRAWN BY RAS GRAPHIC SCALE PROJ. NO. 3190495 DATE 2020-05-04 SP2.6 SHEET





RIM=815.45 803.24 8"SW -807.63 6"E 806.65 PLUGGED SW 802.93 10"S 802.89 10"N

AVE Mde R/W

S 3

WETLAND BOUNDARY

PER DELINEATION

<u>STO_MH</u> RIM=814.23 809.7 30"N 809.7 30"W

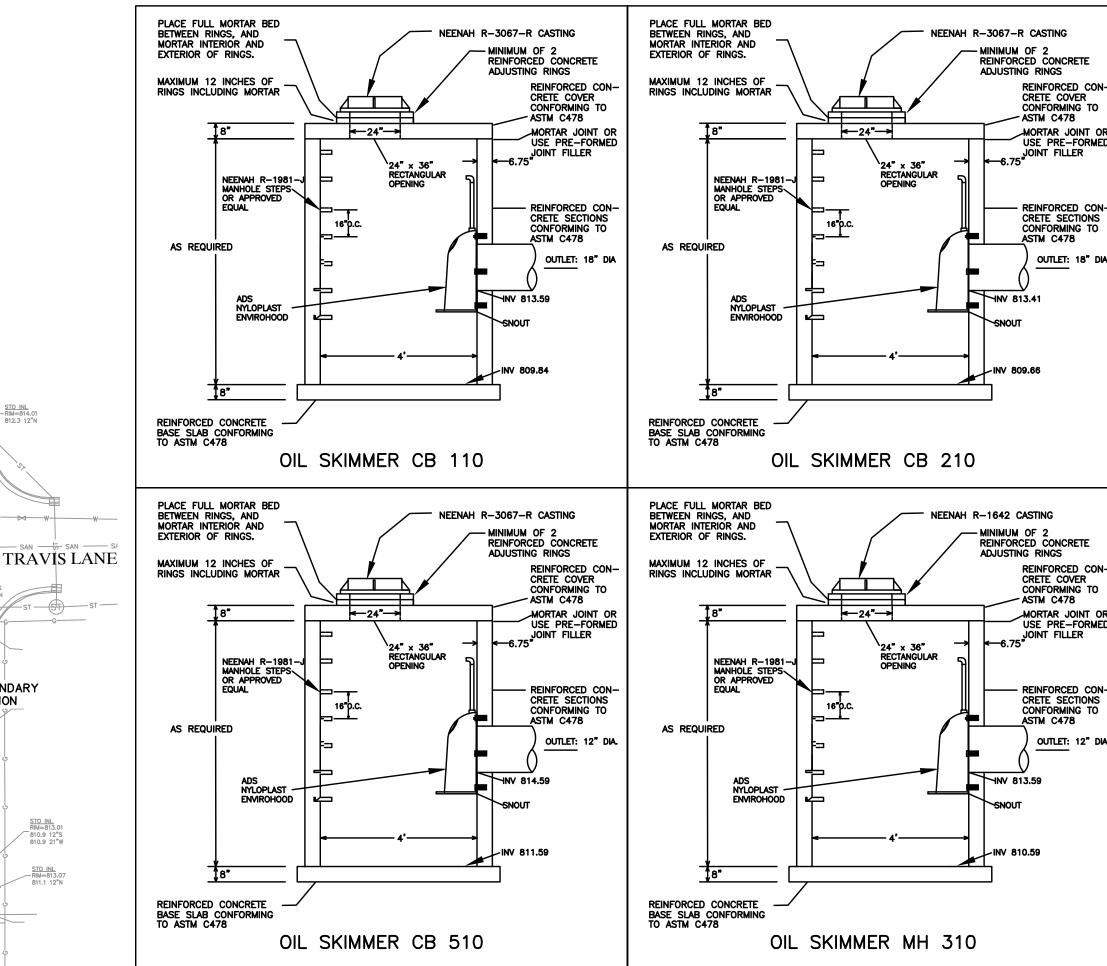
STO^{(I}NL RIM=813.09 810.5 12"S 310.4 21"E 310.4 21"W ≽

STO INL RIM=813.01 810.9 12"S 810.9 21"W

 \geq

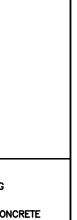
STORM DRAINAGE:

- UNLESS OTHERWISE INDICATED, USE REINFORCED, PRECAST, CONCRETE MAINTENANCE HOLES AND CATCH BASINS 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 CATCH BASINS OR MANHOLES SHALL BE WATERTIGHT. USE RESILIENT RUBBER SEALS, WATERSTOP GASKETS, OR APPROVED EQUAL. CEMENT MORTAR JOINTS ARE NOT ALLOWED.
- 3. INSTALL CATCH BASIN CASTINGS WITH SPECIFIED TOP ELEVATION AT THE FLOW LINE.
- 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.
- 5. <u>PVC PIPE</u>; 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. LAY ALL PVC PIPE ON A CONTINUOUS GRANULAR BED. INSTALLATION MUST COMPLY WITH ASTM D2321.
- 6. 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.
- 7. USE NEENAH R-3067-R CASTING WITH CURB BOX, OR APPROVED EQUAL, ON CB. USE NEENAH R-2501-C CASTING OR APPROVED EQUAL, ON INL. USE NEENAH FOUNDRY CO. R-1642 CASTING WITH SELF-SEALING, SOLID, TYPE B LID, OR APPROVED EQUAL, ON ALL STORM SEWER MAINTENANCE HOLES AND MANHOLES. COVERS SHALL BEAR THE "STORM SEWER" LABEL.
- 8. 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.
- 9. 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.
- 10. CLEANOUTS: INSTALL CLEANOUTS ON ALL ROOF DRAINS. CLEANOUTS SHALL BE INSTALLED AT EVERY T CONNECTION AND BEND. THE DISTANCE BETWEEN CLEANOUTS IN HORIZONTAL PIPING SHALL NOT EXCEED 100 FEET FOR PIPES 10-INCHES AND UNDER IN SIZE. CLEANOUT 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.
- 11. 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
- 12. INSTALL ALL PIPE WITH THE ASTM IDENTIFICATION NUMBERS ON THE TOP FOR INSPECTION. COMMENCE PIPE LAYING AT THE LOWEST PINT IN THE PROPOSED SEWER LINE. LAY THE PIPE WITH THE BELL AND 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.
- 13. TRENCH SECTION SHALL BE CLASS "C" FOR CONCRETE AND CLASS "B" FOR ALL OTHER MATERIALS.



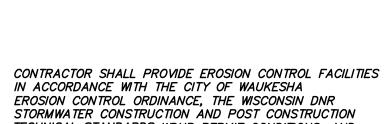


- REINFORCED CON-CRETE SECTIONS CONFORMING TO ASTM C478 OUTLET: 18" DIA



REINFORCED CON-CRETE COVER ONFORMING TO -ASTM C478 MORTAR JOINT OR USE PRE-FORMED JOINT FILLER -6.75"

> CRETE SECTIONS CONFORMING TO ASTM C478 OUTLET: 12" DIA.



SCALE: |'' = AO'

PLOTTING NOTE: PLANG PLOTTED TO 11x17 SHEET

<u>LEGEND</u>

PROPERTY LINE

EXISTING CURB

PROPOSED 18" CURB & GUTTER

PROPOSED STORM SEWER LINE

PROPOSED STORM INLET/ MANHOLE

EXISTING STORM SEWER MANHOLE

EXISTING STORM SEWER INLETS

STORM DRAIN INLET PROTECTION

PROPOSED LIGHT POLE

(SEE PHOTOMETRIC PLAN)

PROPOSED TRANSFORMER

SIZE ARE 1/2 SCALE- 1"=80".

(S·T)

TECHNICAL STANDARDS, WONR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS

SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.



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GENERAL:

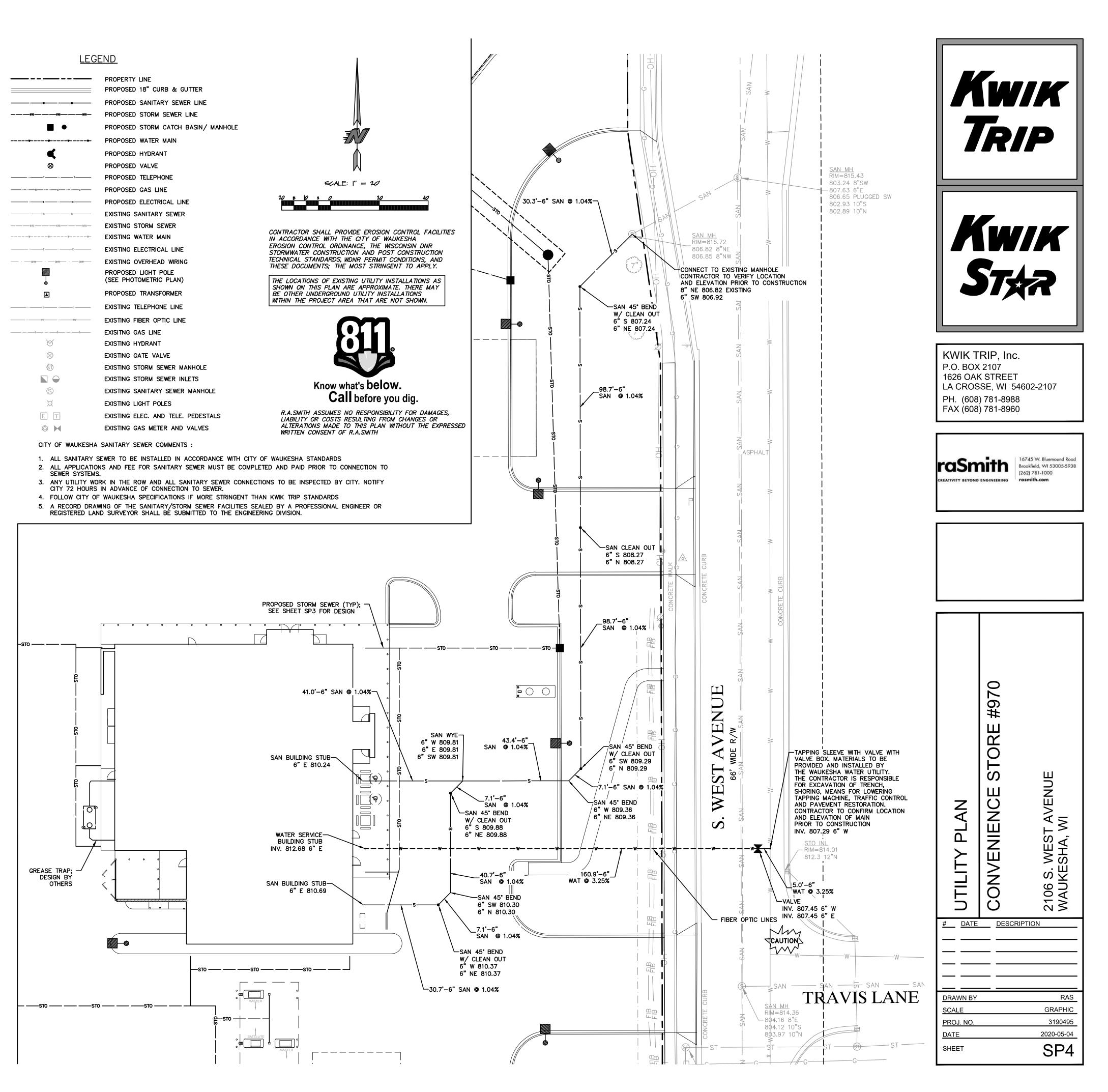
- COMPLY WITH THE WORK SAFETY PRACTICES SPECIFIED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS. OSHA PROHIBITS ENTRY INTO "CONFINED SPACES," SUCH AS MANHOLES AND INLETS (SEE 29 CFR SECTION 1910.146), WITHOUT UNDERTAKING 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.
 PERFORM ALL UTILITY WORK IN ACCORDANCE WITH STATE AND VILLAGE REQUIREMENTS.
- 3. 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. DO NOT ALLOW THE SLURRY PRODUCED BY THIS PROCESS TO BE TRACKED OUTSIDE OF THE IMMEDIATE WORK AREA OR DISCHARGED INTO THE SEWER SYSTEM.
- 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)
 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. 6. 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." 7. 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. 8. 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
- 9. 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.
- 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.
 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.
- 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.
 RELOCATE OVERHEAD POWER, TELEPHONE, AND CABLE LINES AS REQUIRED.
- 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.
 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. 16. ADJUST ALL CURB STOPS, VALVE BOXES, MAINTENANCE HOLE CASTINGS, CATCHBASIN CASTINGS, CLEANOUT COVERS, AND SIMILAR ITEMS TO FINISHED GRADE.
- 17. 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.
 18. 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. 19. OBTAIN PERMITS FROM THE CITY FOR WORK IN THE PUBLIC RIGHT-OF-WAY.
- CONSTRUCT SANITARY SEWER, WATERMAIN, AND STORM SEWER UTILITIES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION, THE LATEST REVISED EDITION, OR CITY OF DELAFIELD SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.
 COORDINATE ALL EXISTING UTILITY ABANDONMENT WITH THE CITY OF WAUKESHA. PERFORM ALL WORK IN ACCORDANCE WITH ALL CITY REQUIREMENTS.
 ALL PROPOSED ON SITE UTILITIES ARE PRIVATE AND WILL BE MAINTAINED ACCORDINGLY.

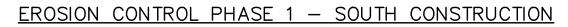
WATER DISTRIBUTION SYSTEM:

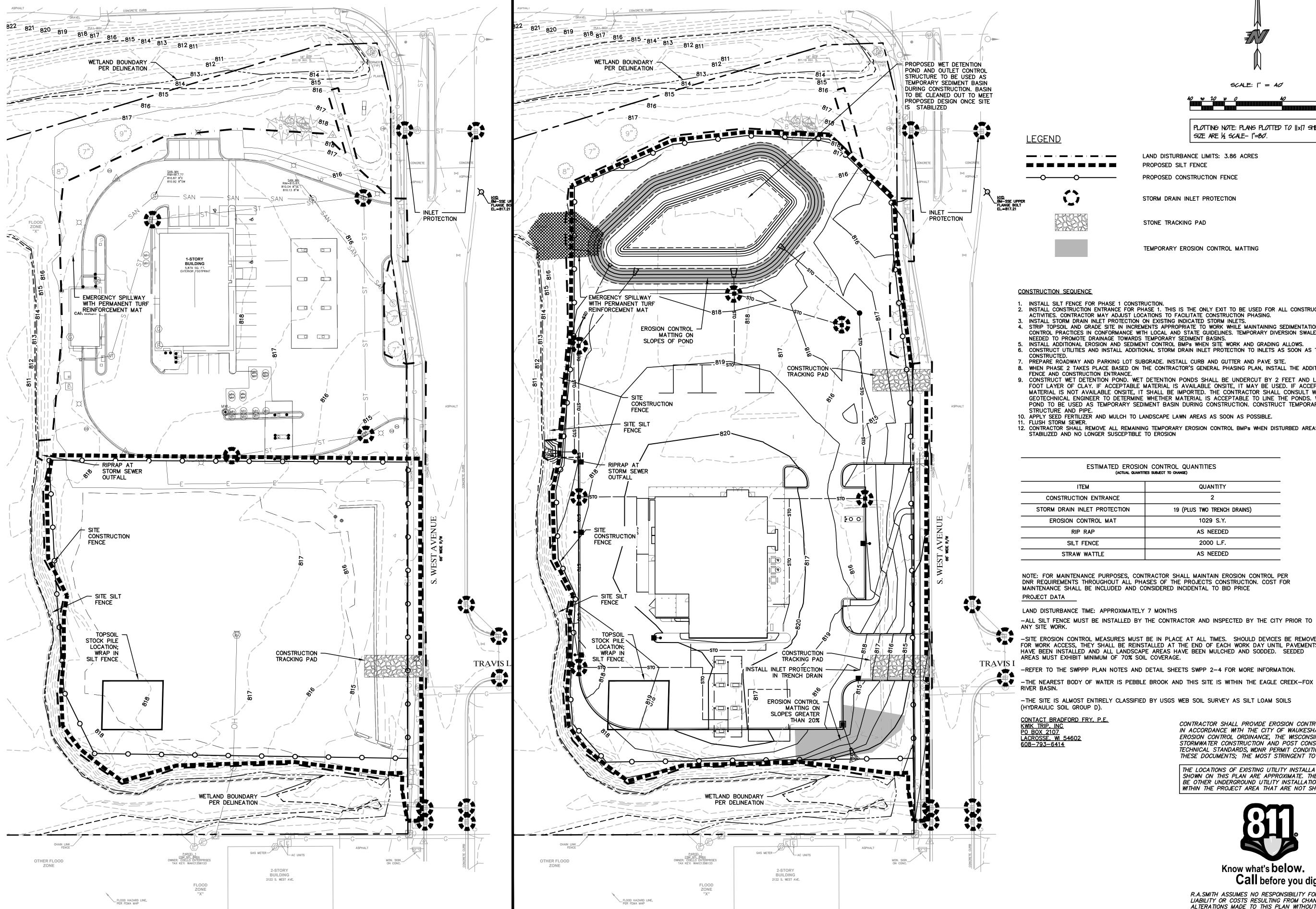
- 1. BRING ALL SITE UTILITIES TO 5' OUTSIDE OF THE BUILDING LINE WITH THE EXCEPTION OF THE WATER SERVICE. EXTEND WATER SERVICE INTO THE BUILDING AND UP TO THE FLANGE FOR THE WATER METER.
- 2. <u>SEPARATION OF WATER AND SEWER</u>: PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 8 FEET BETWEEN ALL WATER AND SANITARY SEWER LINES. PROVIDE A MINIMUM SEPARATION OF 18 INCHES AT ALL WATER LINE AND SANITARY SEWER LINE CROSSINGS.
- 3. WATERMAIN DEPTH; MAINTAIN 6.0 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. <u>DISINFECTION</u>: 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. 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. <u>POLYVINYL CHLORIDE (PVC) WATERMAIN</u>; 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 DSPS 382.30(11)(H).
- 12. TRENCH SECTION SHALL CONFORM TO SECTION 4.3.C, FILE NO. 38 OF THE STANDARD SPECIFICATIONS. SAND OR STONE CHIP BEDDING MATERIAL IS REQUIRED.

SANITARY SEWER:

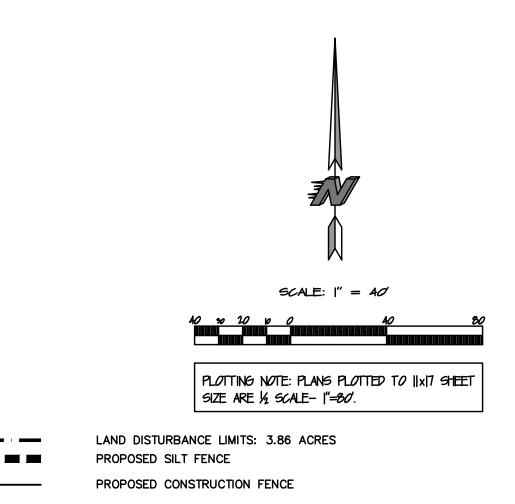
- 1. <u>PIPE</u>: USE SOLID-CORE, SDR-35, ASTM D3034 (OR APPROVED EQUAL) POLYVINYL CHLORIDE (PVC) PLASTIC PIPE FOR ALL DESIGNATED PVC SANITARY SEWER SERVICES. JOINTS FOR ALL SANITARY SEWER SHALL HAVE PUSH-ON JOINTS WITH ELASTOMERIC GASKETS. USE OF SOLVENT CEMENT JOINTS IS ALLOWED FOR BUILDING SERVICES. 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. <u>CLEANOUTS</u>: 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. <u>TESTING</u>: 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. 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 DSPS 382.30(11)(H).
- 8. TRENCH SECTION SHALL BE CLASS "B" BEDDING. CRUSHED STONE CHIPS SHALL BE USED FOR BEDDING MATERIAL. PREFABRICATED WYE CONNECTIONS ARE REQUIRED FOR SANITARY LATERALS







EROSION CONTROL PHASE 2 - NORTH CONSTRUCTION



STORM DRAIN INLET PROTECTION

STONE TRACKING PAD

TEMPORARY EROSION CONTROL MATTING

INSTALL SILT FENCE FOR PHASE 1 CONSTRUCTION.
 INSTALL CONSTRUCTION ENTRANCE FOR PHASE 1. THIS IS THE ONLY EXIT TO BE USED FOR ALL CONSTRUCTION ACTIVITIES. CONTRACTOR MAY ADJUST LOCATIONS TO FACILITATE CONSTRUCTION PHASING.
 INSTALL STORM DRAIN INLET PROTECTION ON EXISTING INDICATED STORM INLETS.
 STRIP TOPSOIL AND GRADE SITE IN INCREMENTS APPROPRIATE TO WORK WHILE MAINTAINING SEDIMENTATION AND EROSION CONTROL PRACTICES IN CONFORMANCE WITH LOCAL AND STATE GUIDELINES. TEMPORARY DIVERSION SWALES MAY BE NEEDED TO PROMOTE DRAINAGE TOWARDS TEMPORARY SEDIMENT BASINS.
 INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL BMPs WHEN SITE WORK AND GRADING ALLOWS.
 CONSTRUCT UTILITIES AND INSTALL ADDITIONAL STORM DRAIN INLET PROTECTION TO INLETS AS SOON AS THEY ARE CONSTRUCTED.

7. PREPARE ROADWAY AND PARKING LOT SUBGRADE. INSTALL CURB AND GUTTER AND PAVE SITE.

8. WHEN PHASE 2 TAKES PLACE BASED ON THE CONTRACTOR'S GENERAL PHASING PLAN, INSTALL THE ADDITIONAL SILT

 CONSTRUCT WET DETENTION POND. WET DETENTION PONDS SHALL BE UNDERCUT BY 2 FEET AND LINED WITH A 2 FOOT LAYER OF CLAY. IF ACCEPTABLE MATERIAL IS AVAILABLE ONSITE, IT MAY BE USED. IF ACCEPTABLE MATERIAL IS NOT AVAILABLE ONSITE, IT SHALL BE IMPORTED. THE CONTRACTOR SHALL CONSULT WITH THE GEOTECHNICAL ENGINEER TO DETERMINE WHETHER MATERIAL IS ACCEPTABLE TO LINE THE PONDS. WET DETENTION POND TO BE USED AS TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION. CONSTRUCT TEMPORARY OUTLET

10. APPLY SEED FERTILIZER AND MULCH TO LANDSCAPE LAWN AREAS AS SOON AS POSSIBLE.

12. CONTRACTOR SHALL REMOVE ALL REMAINING TEMPORARY EROSION CONTROL BMPs WHEN DISTURBED AREAS ARE STABILIZED AND NO LONGER SUSCEPTIBLE TO EROSION

ESTIMATED EROSION CONTROL QUANTITIES (ACTUAL QUANTITIES SUBJECT TO CHANGE)

-	
EM	QUANTITY
N ENTRANCE	2
ILET PROTECTION	19 (PLUS TWO TRENCH DRAINS)
NTROL MAT	1029 S.Y.
RAP	AS NEEDED
FENCE	2000 L.F.
WATTLE	AS NEEDED

NOTE: FOR MAINTENANCE PURPOSES, CONTRACTOR SHALL MAINTAIN EROSION CONTROL PER DNR REQUIREMENTS THROUGHOUT ALL PHASES OF THE PROJECTS CONSTRUCTION. COST FOR MAINTENANCE SHALL BE INCLUDED AND CONSIDERED INCIDENTAL TO BID PRICE

LAND DISTURBANCE TIME: APPROXIMATELY 7 MONTHS

-ALL SILT FENCE MUST BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO

-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 SWPP 2-4 FOR MORE INFORMATION.

-THE SITE IS ALMOST ENTIRELY CLASSIFIED BY USGS WEB SOIL SURVEY AS SILT LOAM SOILS

CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF WAUKESHA EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, WDNR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.



Call before you dig.

R.A.SMITH ASSUMES NO RESPONSIBILITY FOR DAMAGES. LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH





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



16745 W. Bluemound Road [262] 781-1000

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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 SP1-SP4, SWP1-SWP4 AND THE STORMWATER MANAGEMENT CALCULATIONS. KEEP A COPY OF THE SWPPP, ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE SHALL BE SPORED ON SITE TO SUPPLEMENT AND USE IN PROBLEM AREAS DURING ALL PHASES OF THE RECORDS AT THE SITE DURING THE CONSTRUCTION. DURING THE CONSTRUCTION PROCESS THE SWPP WILL HAVE TO BE AMENDED FOR ALL CONSTRUCTION PROJECT. CHANGES PERFORMED BY THE CONTRACTOR. THE OWNER SHALL BE AWARE OF THE AMENDMENTS PRIOR TO CHANGES MADE TO THE SWPP CONTRACTOR SHALL USES STAR TACK OR OTHER ORGANIC SUBSTANCES IN SITUATIONS TO PREVENT SOIL FROM PLAN. ALL NOTES, PHOTOGRAPHS, RECORDED DATES, SKETCHES, REFERENCES, AND DIAGRAMS WILL HAVE TO BE RECORDED AND MADE AVAILABLE AS PART OF THE SWPP PERMIT. ERODING AWAY BY WIND OR RAIN.

INDIVIDUAL(S) PREPARING THE SWPPP FOR THE PROJECT, OVERSEEING IMPLEMENTATION OF THE SWPPP, REVISING AND AMENDING THE SWPPP, WHENEVER POSSIBLE CONTRACTOR SHALL GRADE AREAS OF SOIL TO LIMIT POTENTIAL OF EROSION, TO INCLUDE TRACKING PERPENDICULAR TO FALL LINE OF GRADES AS WELL AS DIVERTING WATER FLOWS FROM PROBLEMATIC AND AT LEAST ONE INDIVIDUAL ON THE PROJECT PERFORMING INSTALLATION. INSPECTION, MAINTENANCE, AND REPAIRS OF BMP'S MUST BE AREAS ON THE SITE. 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.

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 <u>RESPONSIBLE PARTIES</u>: 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, DOCUMENTED IN THE SWPP. AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS BEFORE AND DURING CONSTRUCTION.

SEDIMENT CONTROL: 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: COMPANY: ADDRESS:	BRADFORD FRY, P.E. KWIK TRIP INC. KWIK TRIP, INC. – STORE ENGINEERING 1626 OAK STREET, P.O. BOX 2107 LA CROSSE, WI 54601–2107
TELEPHONE:	(608) 793-6414

SITE INVESTIGATION, INSTALLATION, IMPLEMENTATION

- 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 SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE, ROCK CONSTRUCTION ENTRANCE(S), EROSION CONTROL BERMS, ROCK FILTERS, SILT SACKS, ROCK /EARTH BERMS, AND SEDIMENTATION BASINS. PROTECT ALL RECEIVING WATERS, CATCH BASINS, DITCHES, INLETS ETC. IN AND AROUND THE SITE. ALL PROTECTIVE AND PREVENTATIVE MEASURES MUST BE IN PLACE AND INSPECTED PRIOR TO BEGINNING SITE 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 ENTRANCE WILL HAVE TO BE INSPECTED DAILY AND REPLACED OR ROCK SUPPLEMENTED BY THE CONTRACTOR WHEN OVER 50% OF THE VOIDS IN THE ROCK ARE FILLED. A CLEANING STATION SHOULD BE MADE AVAILABLE TO DRIVERS AND VISIBLY SIGNED AS SUCH. PROVIDE SHOVELS, BROOMS AND/OR HOSE WITH A WASH OUT AREA SO SOILS CAN BE REMOVED FROM VEHICLES ON SITE.
- 5. AVOID ENTIRE REMOVAL OF TREES AND SURFACE VEGETATION ALL AT ONCE WHENEVER POSSIBLE AS THIS LIMITS THE AMOUNT OF SITE SUSCEPTIBLE TO EROSION. SCHEDULE CONSTRUCTION ZONES AND NOTE THIS ON THE SWPP PLAN IN ORDER TO EXPOSE THE SMALLEST PRACTICAL AREA OF SOIL AT ANY GIVEN TIME. UTILIZE VEGETATION REMOVED BY ON SITE GRINDING AND MULCHING AND USING THIS MATERIAL TO PROTECT THE SOIL FROM EROSION.
- 6. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, COMPLETE PERMANENT OR TEMPORARY STABILIZATION AGAINST EROSION DUE TO RAIN, WIND, AND RUNNING WATER WITHIN 14 CALENDAR DAYS ON ALL DISTURBED OR GRADED AREAS. THIS REQUIREMENT DOES NOT APPLY TO THOSE AREAS THAT ARE CURRENTLY BEING USED FOR MATERIAL STORAGE ON A DAILY BASIS OR FOR THOSE AREAS ON WHICH GRADING. SITE BUILDING. OR OTHER CONSTRUCTION ACTIVITIES ARE ACTIVELY UNDERWAY. PROVIDE TEMPORARY COVER ON ALL STACKED TOPSOIL PILES, AND OTHER AREAS OF STOCKPILED EXCAVATED MATERIAL IN ORDER TO PREVENT SOIL EROSION AND RAPID RUNOFF DURING THE CONSTRUCTION PERIOD. STOCKPILES CAN BE MULCHED.COVERED WITH POLY OR FABRIC. AND OR SEEDED DURING PROLONGED EXPOSURE. PROLONGED PERIODS OF OPEN, BARE EARTH WITHOUT GRASS COVER WILL NOT BE PERMITTED. STABILIZE ALL DISTURBED GREENSPACE AREAS WITH A MINIMUM OF 4" TOPSOIL IMMEDIATELY AFTER FINAL SUBGRADE COMPLETION. SEED AND MULCH. OR SOD AND PROTECT THESE AREAS WITHIN 48 HOURS AFTER COMPLETION OF FINAL GRADING WORK (WEATHER PERMITTING). STABILIZE ALL DISTURBED AREAS TO BE PAVED USING EARLY APPLICATION OF GRAVEL BASE. STABILIZE THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT CONVEYS WATER FROM THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE CONSTRUCTION SITE, WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR WITHIN 200 FEET FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER. STABILIZE TEMPORARY OR PERMANENT DRAINAGE DITCHES WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER. PROTECT OUTFALLS MINIMUM OF 200FEET DOWN STREAM AND TO THE SIDE OF THE DISCHARGE POINT. ADDITIONAL SETTLING "POTS" ACHIEVED BY FILTER LOGS OR FILTERED STICK BALES STAKED IN THE CHANNEL WILL DISSIPATE THE WATER ENERGY. PROVIDE PIPE OUTLETS WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER.
- 7. RECEIVING WATERS IT IS THE CONTRACTORS RESPONSIBILITY TO INSPECT THE SITE DISCHARGE POINT AS WELL AS DOWNSTREAM TO THE RECEIVING BODY OF WATER (POND, LAKE, STREAM, ETC.) ON A REGULAR BASIS INCLUDING AFTER EACH STORM EVENT AND DOCUMENT IF ANY DIFFERENCES OR CHANGES IN NORMAL IN DISCHARGE AND IF MATERIAL IS LEAVING THE CONSTRUCTION SITE. IF SO IT SHALL BE DOCUMENTED AND REMOVED IMMEDIATELY.

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

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 FACILI OR IMPERMEABLE LINER. LIQUID AND SOLID WASTES MAY NOT TOUCH THE GROUND AND THERE MUST NOT BE RUNOFF FROM THE CONCR 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 WASHO 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 SEDII 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, CLEAN WASTES, OIL, GASOLINE, PAINT, WASTEWATER, TOXIC MATERIALS, AND HAZARDOUS MATERIALS) OFF-SITE. DO NOT ALLOW WASTE ANI UNUSED BUILDING MATERIALS TO BE CARRIED BY RUNOFF INTO A RECEIVING CHANNEL OR STORM SEWER SYSTEM. PROPERLY STORE 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 CONTAINME OR CLEANUP DEVICES FOR ALL WORKERS TO ACCESS.

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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

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 SOCK ON THE OUTSIDE OF THE BARRIER IN ORDER TO TRAP ADDITIONAL FINES. STANDARD FRAMES ARE AVAILABLE TO FIT 24" TO 30" DIAMETER AND 2'X3' OPENINGS. DISTRIBUTED BY ROYAL ENTERPRISES AMERICA, 30622 FOREST BOULEVARD, STACY, MN, 55079, PHONE (651) 462–2130. OR APPROVED EQUAL

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, 35301, PHONE (320) 253-3744. OR APPROVED EQUAL

E. INFLATABLE DRAIN PLUGS BY INTERSTATE PRODUCTS WWW.INTERSTATEPRODUCTS.COM OR APPROVED EQUAL

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.

INSTALL AND MAINTAIN PER WIDNR CONSERVATION PRACTICE STANDARD 1056.

TRACKING PAD / CONSTRUCTION ENTRANCE:

INSTALL AND MAINTAIN PER WIDNR CONSERVATION PRACTICE STANDARD 1057. USE BROCK WHITE FODS TRACKOUT CONTROL MAT OR EQUAL PRODUCT. INSTALL AND MAINTAIN PER THE MANUFACTURER'S RECOMMENDATIONS AS TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED ROADWAYS. CLOSE ENTRANCES NOT PROTECTED BY TEMPORARY ROCK CONSTRUCTION ENTRANCES TO ALL CONSTRUCTION TRAFFIC.

TEMPORARY SEDIMENT BASINS

N 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 RELEGATED 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 SEPARATION OF THE MATERIAL SUSPENDED IN THE WATER A BIODEGRADABLE NOT TOXIC FLOCCULENT AGENT MAY BE REQUIRED. FOR MORE INFORMATION AND MATERIALS GO TO BY INTERSTATE PRODUCTS WWW.INTERSTATEPRODUCTS.COM

GEOTEXTILE DEWATERING BAGS SHALL MEET REQUIREMENTS OF DNR TECHNICAL STANDARD 1061. THE FOOTPRINT OF GEOTEXTILE BAGS SHALL BE NO SMALLER THAN 100 SQUARE FEET, AND SHALL BE SECURELY ATTACHED TO THE DISCHARGE PIPE. POLYMERS CAN BE USED TO ENHANCE THE EFFICIENCY OF GEOTEXTILE BAGS. IF USED, POLYMERS SHALL MEET THE CRITERIA WITHIN DNR TECHNICAL STANDARD 1051.

Table 1 – Prescriptive Compliance Area Soil Stabilization

	Prescriptive Days Sail Slope & Channel Daviada of Incerticity Final							
ΤY	Compliance Areas	Bare Soil	Management	Periods of Inactivity	Final Grade			
ETE			General	Planned Inactivity	Permanent Features			
	Soil stockpiles that will exist for more than 7 days	Areas that Do Not Drain to Sediment Basins or Traps	Design and implement approved soil stabilization practices per DNR technical	Stabilize immediately if area will be left inactive for more than 14 days.	Stabilize area immediately after reaching final grade.			
DUT	Utility trench backfills	exposure to no more than 30 days.	standards.	Unplanned Inactivity	Temporary Features			
•	Temporary ditches/swales that will exist for more than 7 days	<u>Areas that Drain to</u> <u>Sediment Basins or Traps</u> Limit the duration of soil	Refer to WisDOT Slope & Channel Matrices for appropriate slope and slope length conditions.	Stabilize area immediately if period of inactivity reaches 14 days.	Stabilize area immediately after establishment of temporary feature or			
MENT	Permanent ditches/swales	exposure to no more than 90 days. However, use the duration from the soil loss	<u>Slopes Steeper than 20%</u> Provide stable diversion of		reaching specified temporary grade.			
	Small areas – Less than 1 acre and less than 1% of site	and sediment discharge calculations for the other areas of the site if less than 90 days.	off-site runoff around the slope. Provide slope interruption					
NG) OIL,	Discrete areas – Less than 1 acre		devices in accordance with Manufactured Perimeter Control & Slope Interruption					
	Storm water practice side slopes		Products Technical Standard 1071 or equivalent methods to reduce uninterrupted slope					
IE	Slopes steeper than 20%		length.					
IENT								

PCA SOIL STABILIZATION WDNR September 2017

SWPP PLAN

- CONTRACTOR.

- BASINS TO THEIR DESIGN CONDITION IMMEDIATELY FOLLOWING STABILIZATION OF THE SITE.
- CONDITIONS ALLOW ACCESS.
- ARE NOT COMPACTED BY MACHINERY.
- SEDIMENT TRAPPING DEVICE.
- 0.6 M (2 FEET) INTO THE GROUND.

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

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.

SPRING- FROM APRIL 1 THROUGH MAY 15. FALL- FROM AUGUST 15 TO SEPTEMBER 20.

IN SEEDED AREAS WITH SLOPES STEEPER THAN 3:1 AND LENGTHS LESS THAN 15 METERS (50 FEET), INSTALL BIODEGRADABLE EROSION CONTROL BLANKETS UNIFORMLY OVER THE SOIL SURFACE BY HAND WITHIN 24 HOURS AFTER SEEDING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. USE WIDOT URBAN TYPE B OR OWNER APPROVED EQUAL.

IN AREAS WHERE IRRIGATION IS TO BE INSTALLED, CONTRACTOR SHALL WORK IN ZONES TO FINISH GRADE AND INSTALL THE SYSTEM IN ZONES. NOTE- EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL SOILS HAVE BEEN STABILIZED WITH SOD OR SEEDED AREAS THAT EXHIBIT MINIMUM OF 70% LAWN VEGETATIVE COVERAGE. IF SILT FENCE HAS TO BE REMOVED TO INSTALL THE IRRIGATION SYSTEM, IT SHALL BE REINSTALLED AT THE END OF EACH WORK DAY OR USE BIO ROLLS TO PROVIDE PROTECTION DURING THE INSTALLATION PROCESS UNTIL LAWN AREAS HAVE SOD AND/OR PLANT BEDS ARE MULCHED.

IN AREAS TO BE SODDED. SILT FENCE CAN BE REMOVED SHORT TERM FOR WORKING, BUT EXPOSED SOIL AREAS SHALL BE SODDED OR EROSION CONTROL MEASURES SHALL BE REINSTALLED AT THE END OF EACH WORK DAY.

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

INSPECTIONS – MAINTENANCE – DAILY RECORD – AMEND THE

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

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 GREEN SPACE). 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

CONTRACTOR SHALL CLEAN SEDIMENTATION BASINS, STORM SEWER CATCH BASINS, 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

CONTRACTOR SHALL INSPECT INFILTRATION AREAS TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITIES IS ACCUMULATING. REMOVE SEDIMENT IMMEDIATELY ENSURING SUBSOILS

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

9. CONTRACTOR SHALL REINFORCE EROSION CONTROL FACILITIES IN AREAS WHERE CONCENTRATED FLOWS OCCUR (SUCH AS SWALES, DITCHES, AND AREAS IN FRONT OF CULVERTS AND CATCH BASINS) 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

ESTABLISHMENT OF LAWN, PRAIRIE/WILDFLOWER AND/OR PLANT BED AREAS WILL BE NOTED ON THE

TO ENSURE ADEQUATE GERMINATION OF THE SEED THE WORK WILL BE PERFORMED AS FOLLOWS:

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.



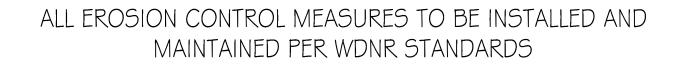


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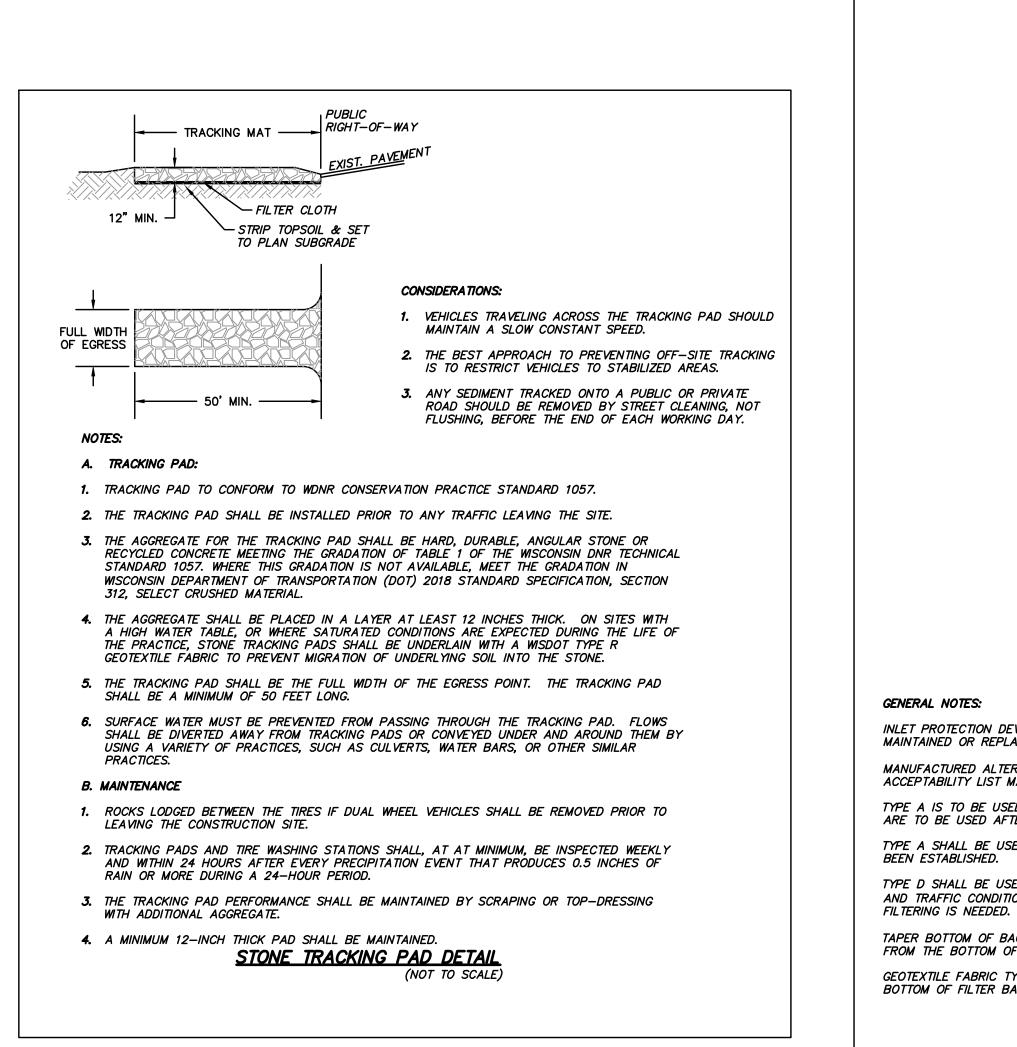


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http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm



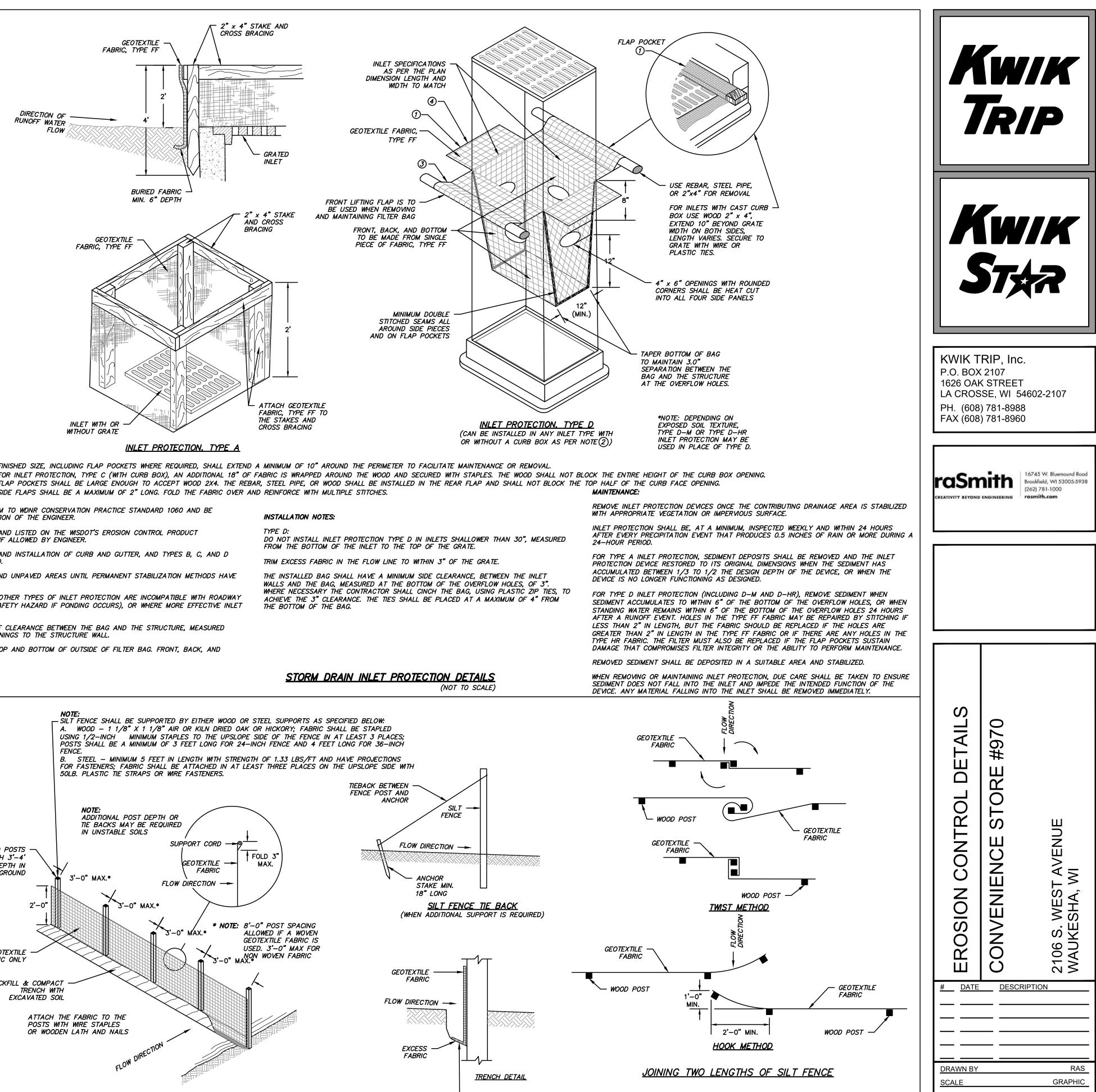
NOTES 1. SILT FENCE INSTALLATION AND MATERIALS SHALL CONFORM TO WONR CONSERVATION STANDARD

2. SILT FENCE SHALL BE PLACED ON THE CONTOUR AND NOT PERPENDICULAR TO THE CONTOUR. THE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE.

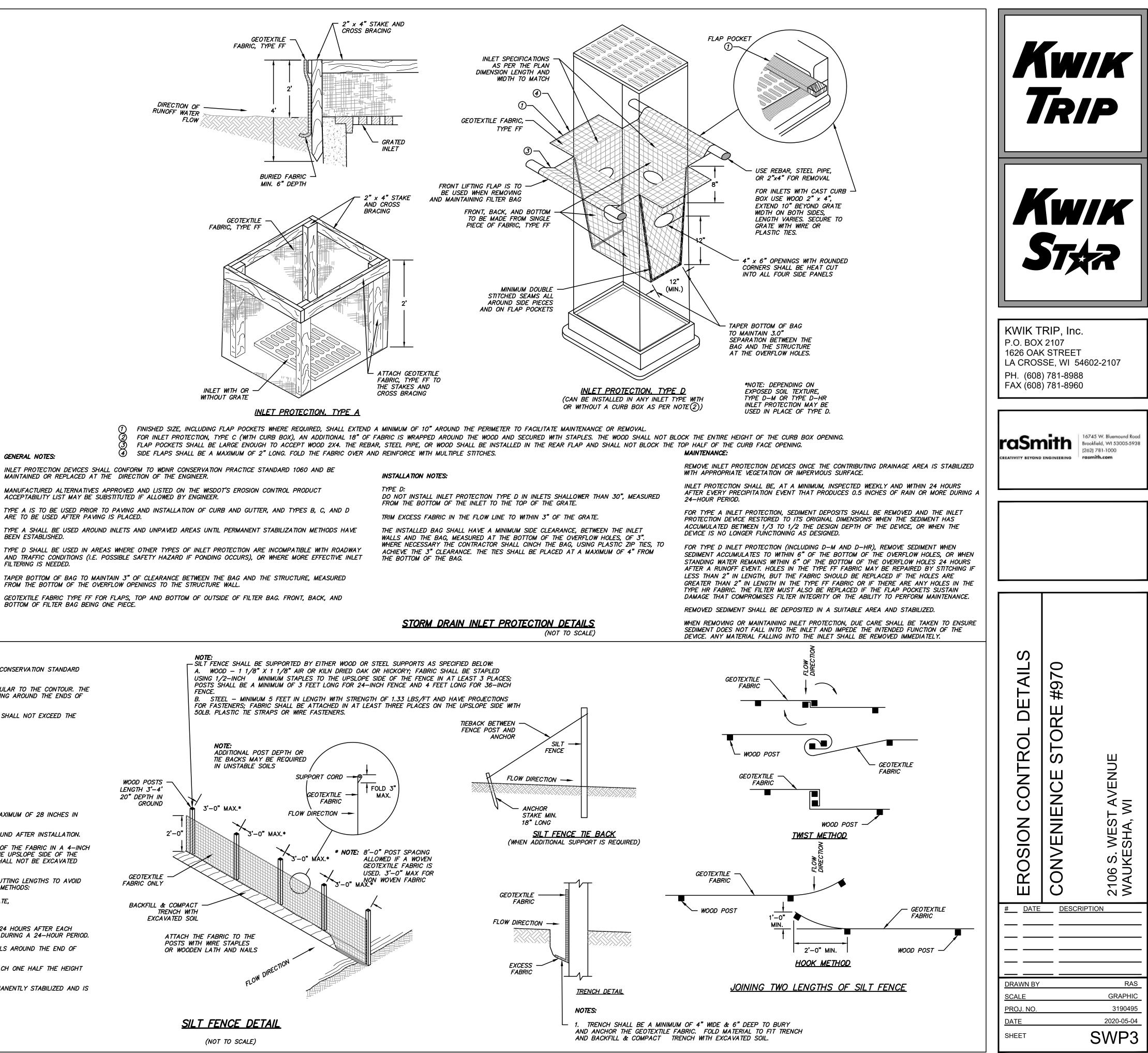
3. WHEN SILT FENCE IS INSTALLED ON A SLOPE, THE PARALLEL SPACING SHALL NOT EXCEED THE REQUIREMENTS IN THE TABLE BELOW:

SLOPE	FENCE SPACING
< 2%	100 FEET
2 TO 5%	75 FEET
5 TO 10%	50 FEET
10 TO 33%	25 FEET
> 33%	20 FEET

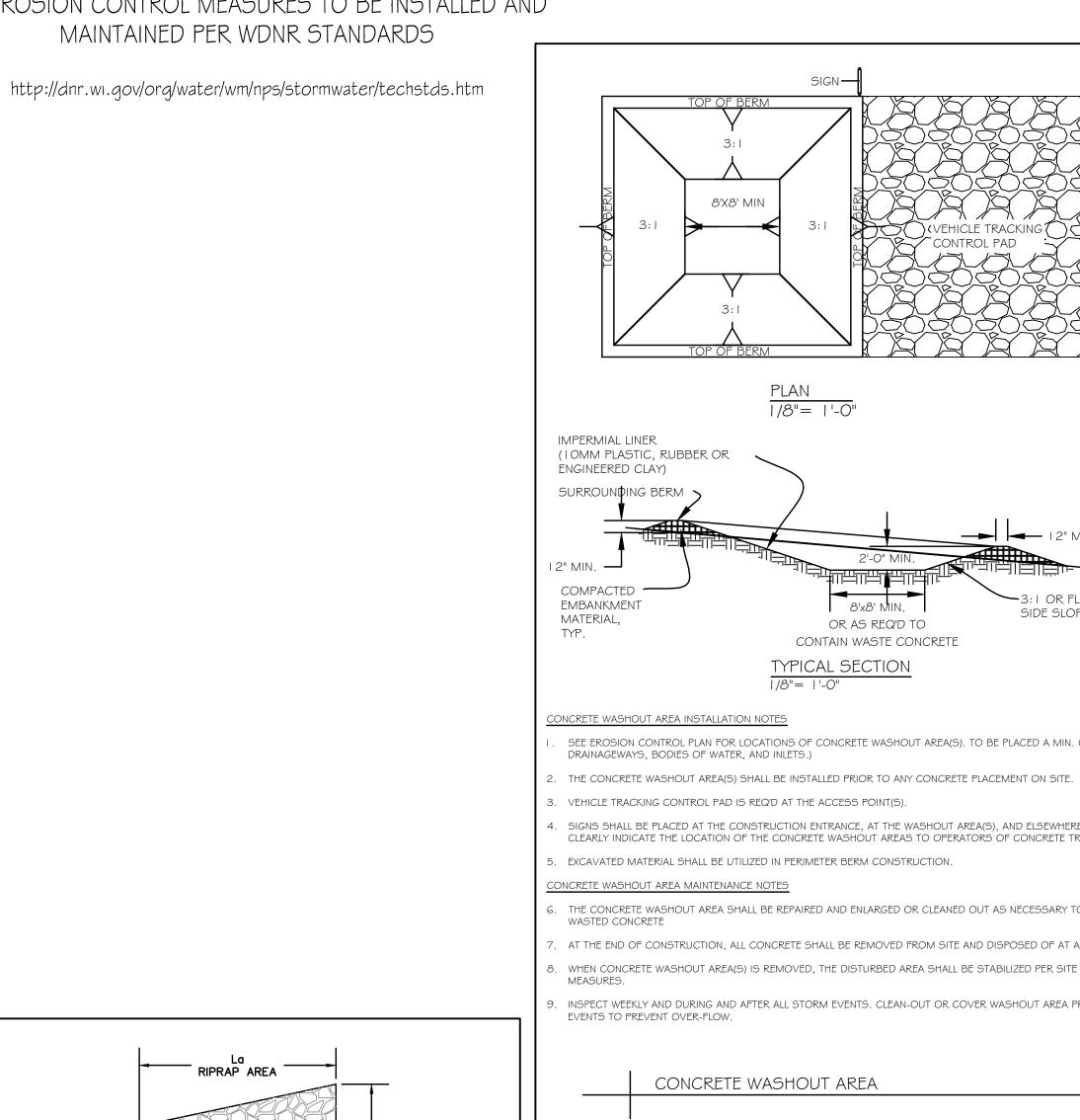
- 4. INSTALLED SILT FENCES SHALL BE MINIMUM 14 INCHES HIGH AND A MAXIMUM OF 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.
- 5. A MINIMUM OF 20 INCHES OF THE POST SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.
- 6. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4-INCH TRENCH WIDE BY 6-INCH DEEP TRENCH, OR 6-INCH V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED WIDER THAN NECESSARY FOR PROPER INSTALLATION.
- 7. 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) TWIST METHOD--OVERLAP THE END POSTS AND TWIST, OR ROTATE,
- AT LEAST 180 DEGREES. B) HOOK METHOD--HOOK THE END OF EACH SILT FENCE LENGTH.
- 8. SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
- 9. DAMAGED OR DECOMPOSED FENCES, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR CORRECTED.
- 10. SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH ONE HALF THE HEIGHT
- OF THE FENCE. 11. SILT FENCES SHALL BE REMOVED ONCE THE DISTURBED AREA IS PERMANENTLY STABILIZED AND IS NO LONGER SUSCEPTIBLE TO EROSION.

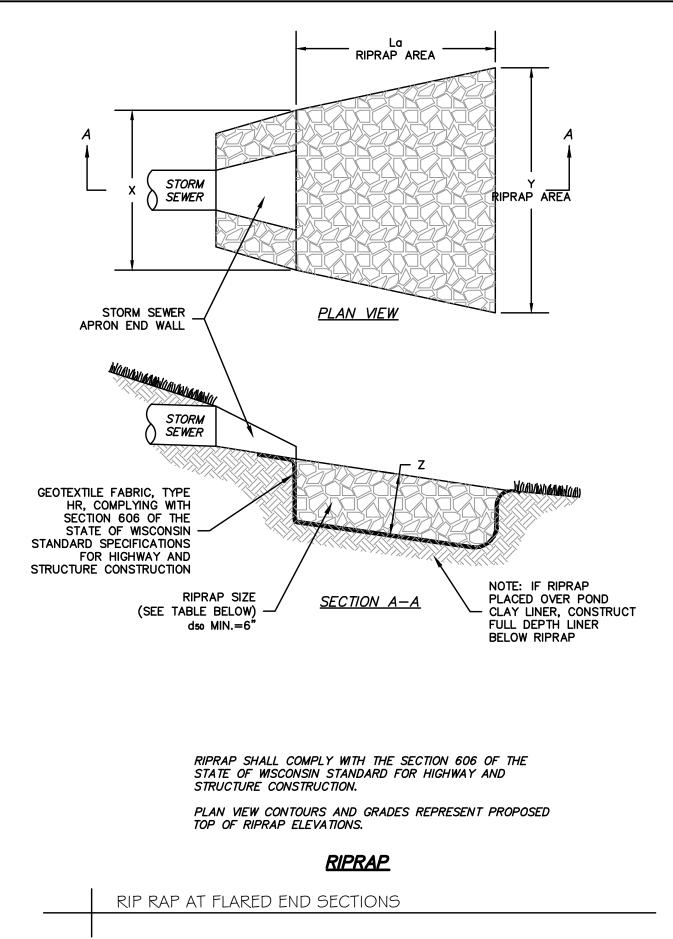


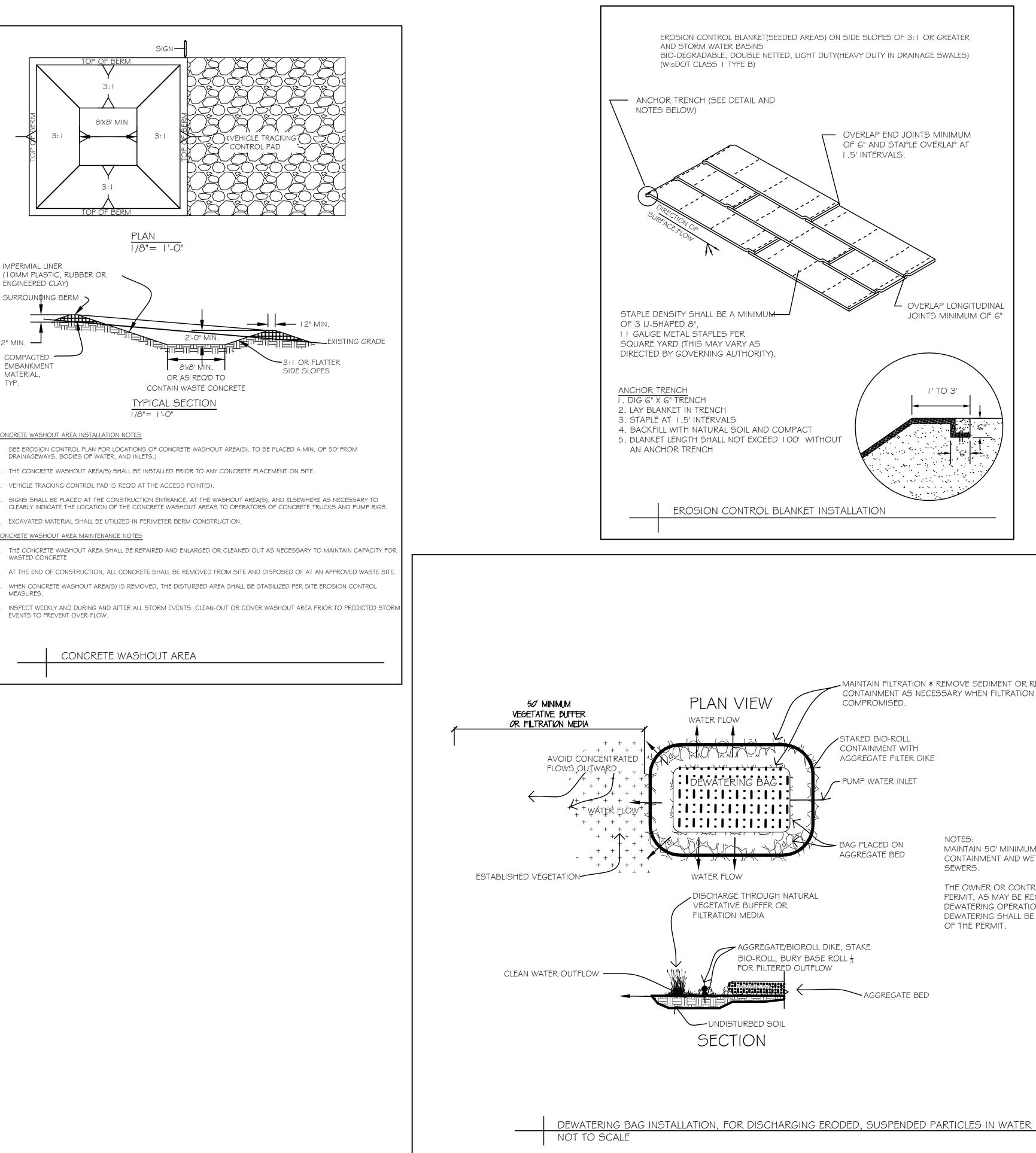
FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.



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







- MAINTAIN FILTRATION ∉ REMOVE SEDIMENT OR RECONSTRUCT CONTAINMENT AS NECESSARY WHEN FILTRATION HAS BEEN

MAINTAIN 50' MINIMUM SEPARATION FROM DISCHARGE CONTAINMENT AND WETLANDS, WATER BODIES, OR STORM

THE OWNER OR CONTRACTOR SHALL OBTAIN DEWATERING PERMIT, AS MAY BE REQUIRED, FROM THE STATE PRIOR TO ANY DEWATERING OPERATIONS DISCHARGING FROM THE SITE. ALL DEWATERING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS



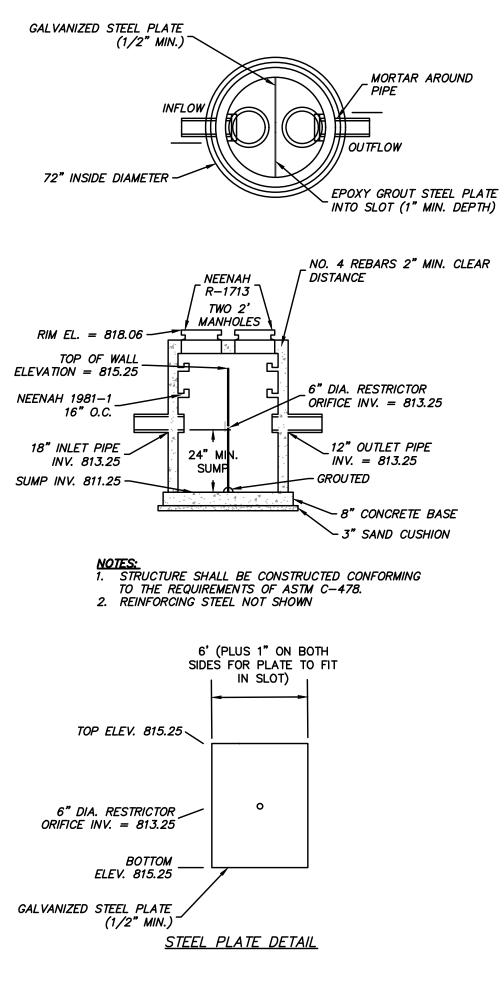


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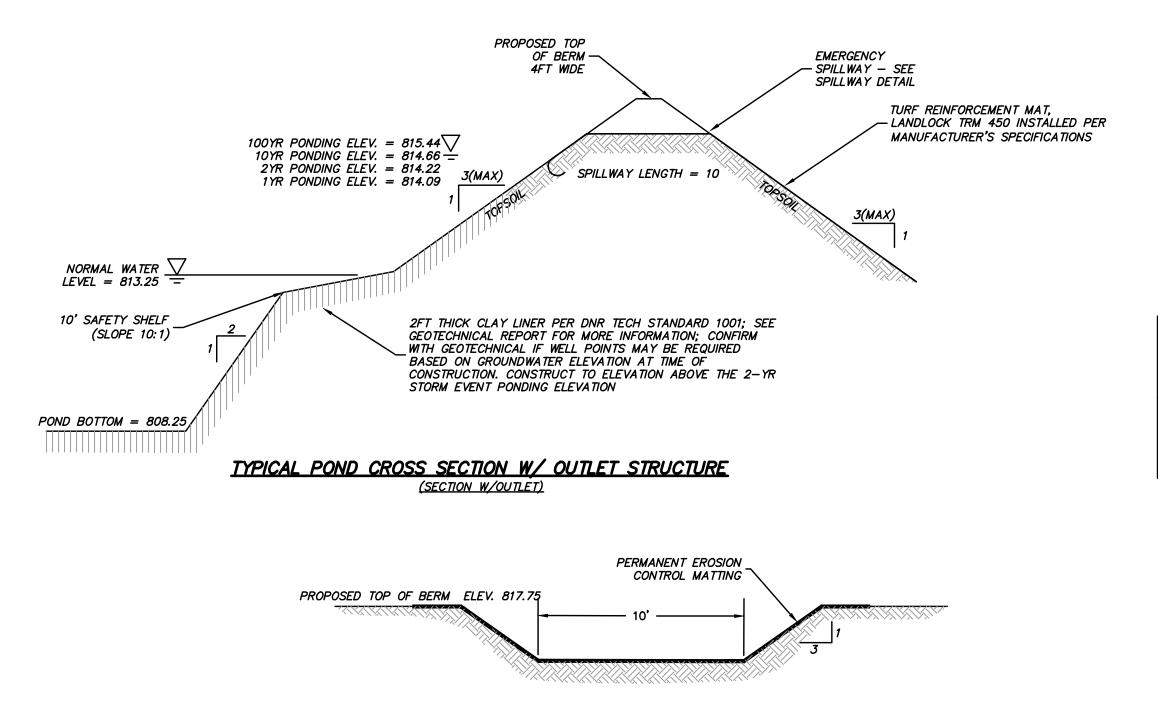


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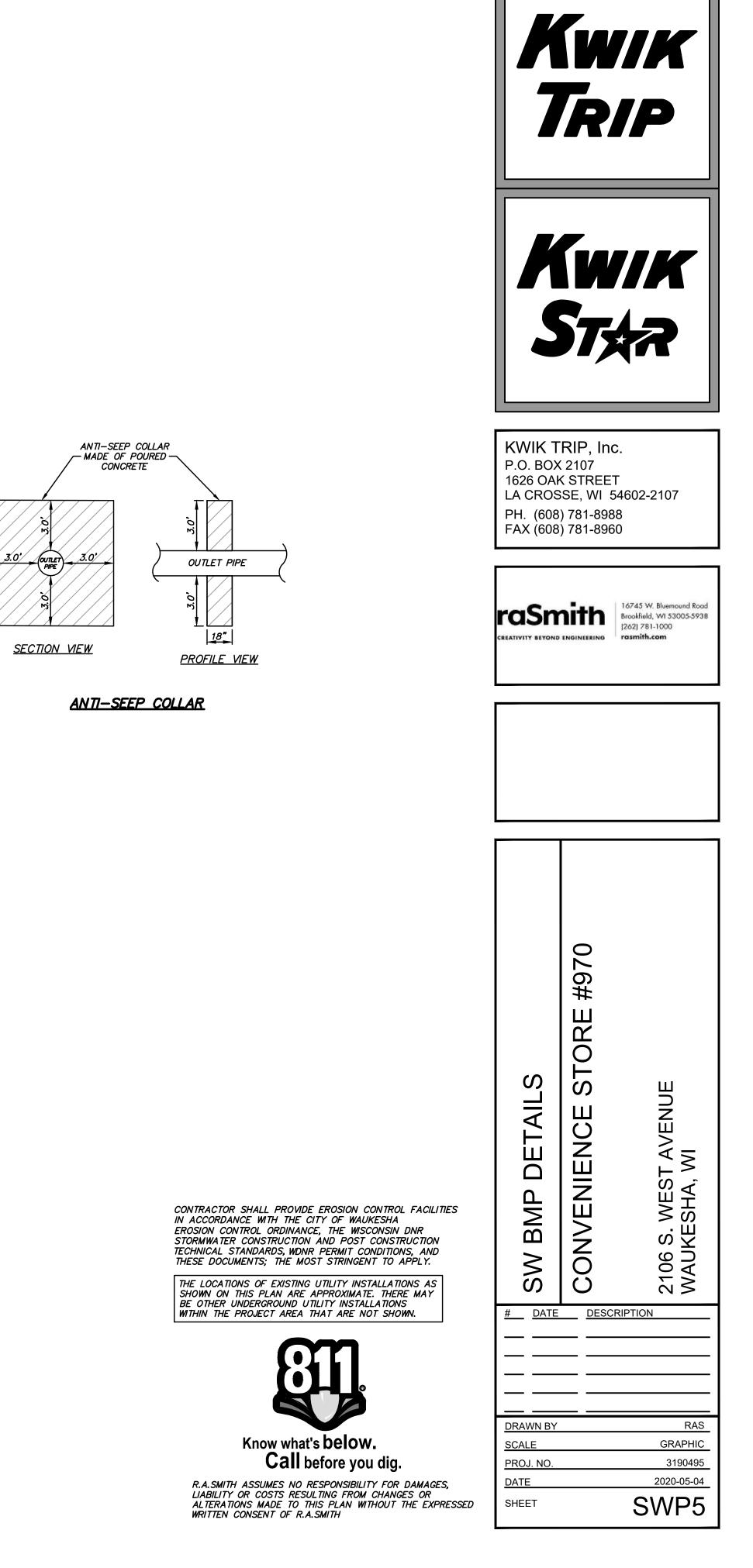
S 0 AIL σ # Ш Ш \square $\mathbf{\mathcal{L}}$ Ο Ο T AVENUE WI M S . NO NC \mathbf{O} ШZ 2106 S. WEST WAUKESHA, V SION ONVE R 0 \mathbf{O} DATE DESCRIPTION DRAWN BY RAS GRAPHIC SCALE PROJ. NO. 3190495 DATE 2020-05-04 SWP4 SHEET

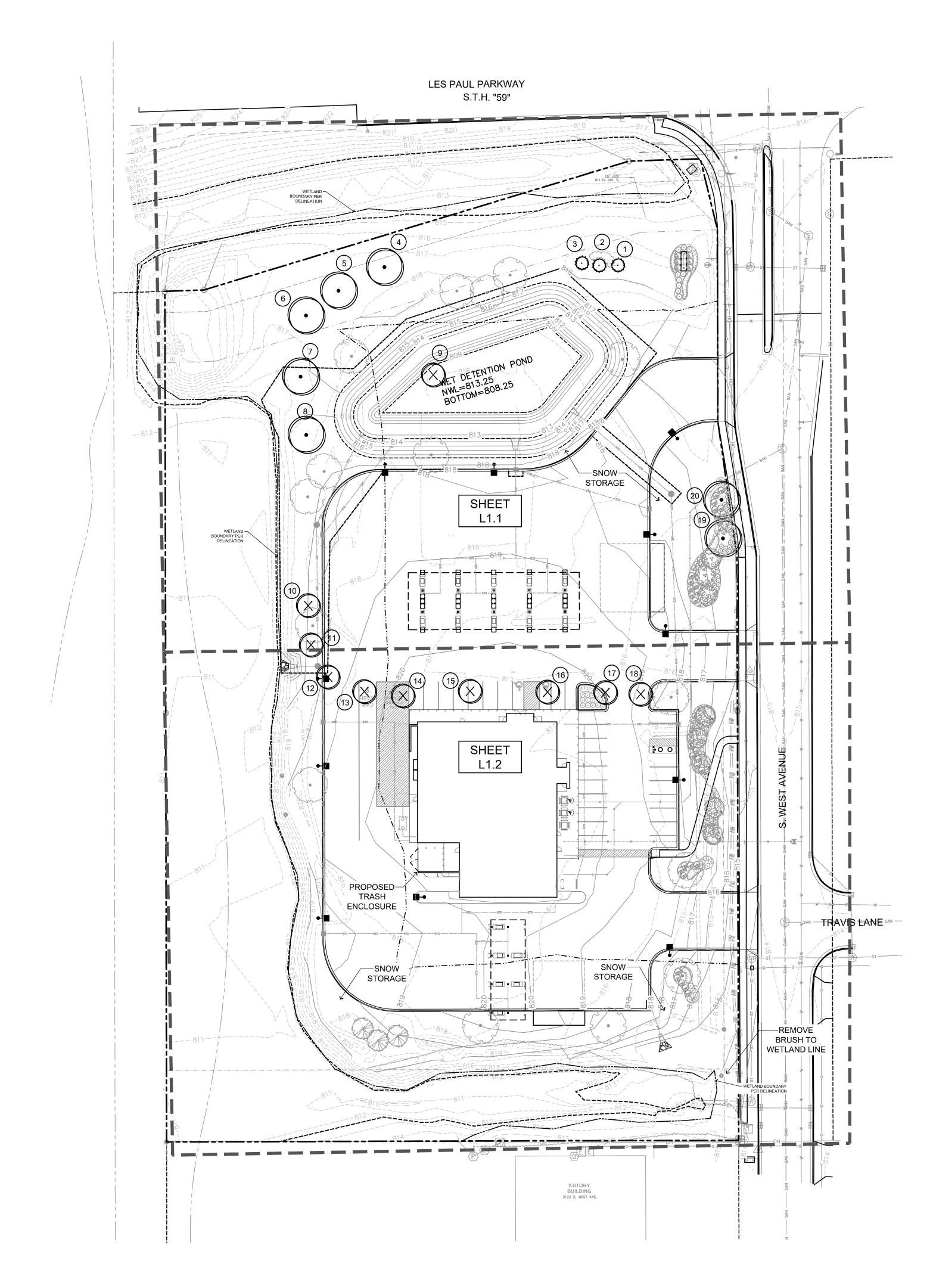




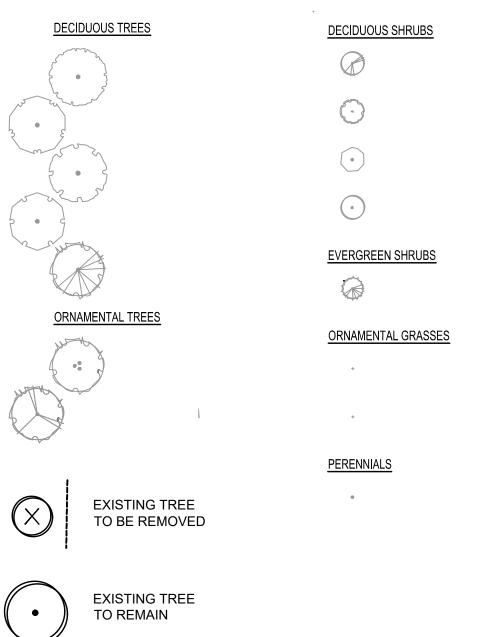


STORM WATER FACILITY SPILLWAY (NOT TO SCALE)









GENERAL LANDSCAPE NOTES

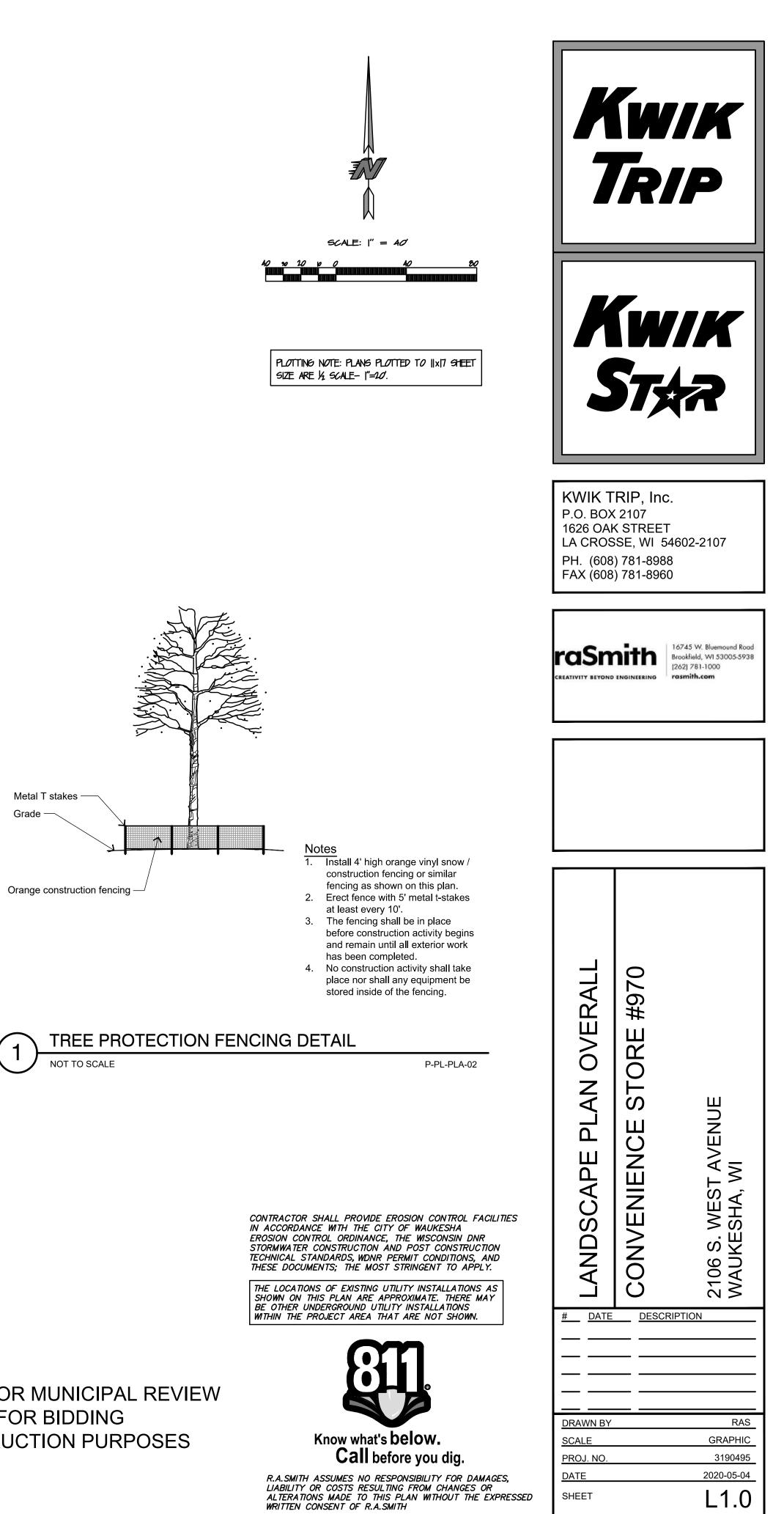
- ALL DETAILS AND SPECIFICATIONS TO BE DETERMINED ON FINAL LANDSCAPE PLANS. - ALL PLANTINGS SHALL COMPLY WITH STANDARDS AS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK - ANSI Z60.1 (LATEST VERSION)
- MULCH: ALL PLANTING BEDS TO RECEIVE 3" DEEP LAYER OF SHREDDED HARDWOOD BARK MULCH.
- TURF SEED: DURABLE, PREMIUM COMMERCIAL BLEND.

EXISTING TREE INVENTORY

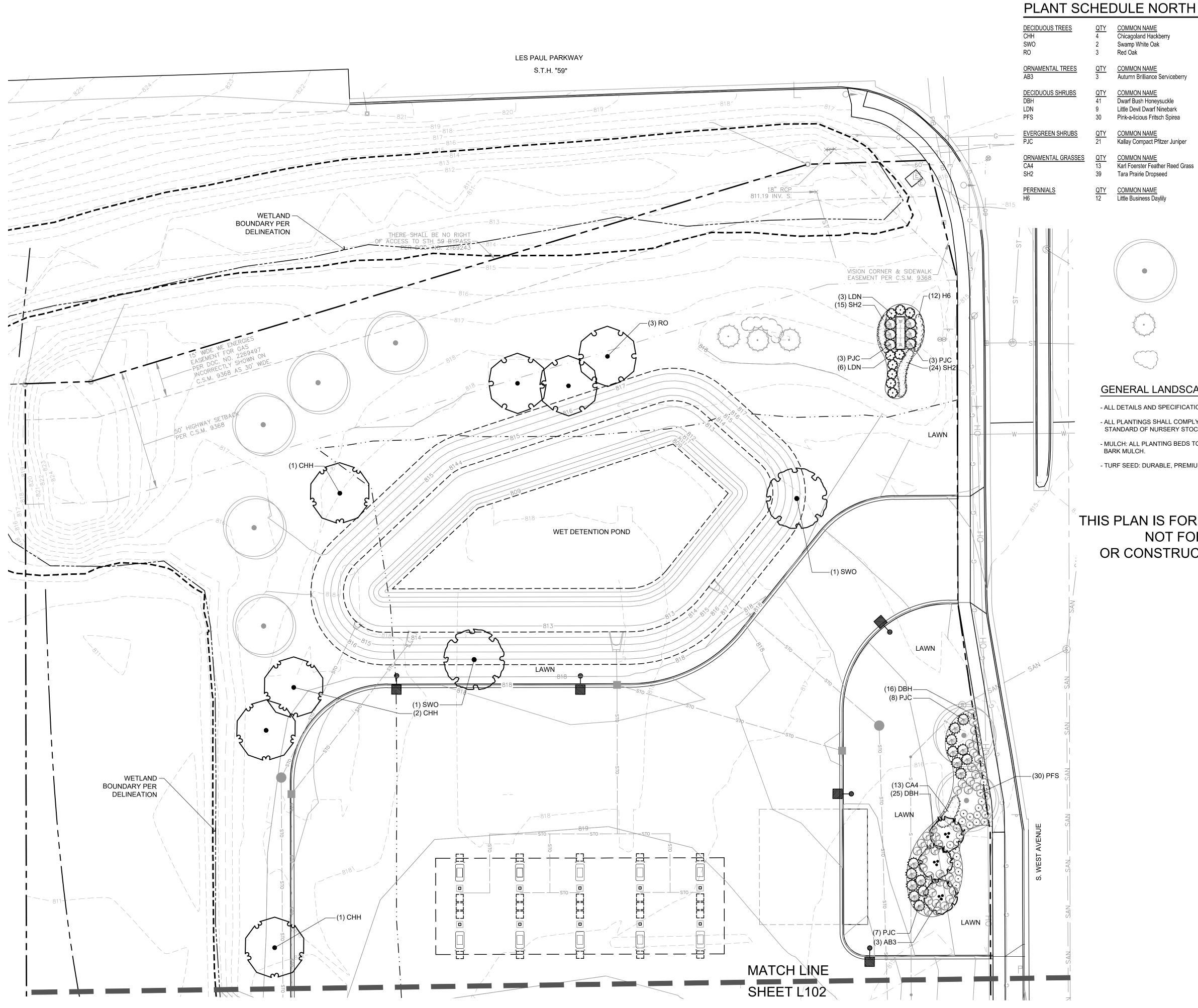
Kwik Trip 97 Existing Tre	′0 Waukesha, W es	1	
Key	Size DBH / HT	Tree	
1	8" / 30-40'	Norway Spruce	Remain
2	8" / 30-40'	Norway Spruce	Remain
3	8" / 30-40'	Norway Spruce	Remain
4	9"	Flowering Pear	Remain
5	7"	Flowering Pear	Remain
6	8"	Oak	Remain
7	10"	Oak	Remain
8	10"	Oak	Remain
9	2"	Maple	Remove
10	9"	Oak	Remove
11	9"	Oak	Remove
12	9"	Oak	Remove
13	6"	Flowering Pear	Remove
14	9"	Flowering Pear	Remove
15	10"	Flowering Pear	Remove
16	6"	Japanese Tree Lilac	Remove
17	10"	Locust	Remove
18	10"	Locust	Remove
19	7"	Locust	Remain
20	7"	Locust	Remain

THIS PLAN IS FOR MUNICIPAL REVIEW NOT FOR BIDDING OR CONSTRUCTION PURPOSES

Metal T stakes —







<u>ON NAME</u>	BOTANICAL NAME	<u>SIZE</u>	<u>ROOT</u>	<u>REMARKS</u>
oland Hackberry	Celtis occidentalis `Chicagoland`	2 1/2" CAL	B&B	Full, matching heads
o White Oak	Quercus bicolor	2 1/2" CAL	B&B	Full, matching heads
ak	Quercus rubra	2 1/2" CAL	B&B	Full, matching heads
<u>ON NAME</u>	BOTANICAL NAME	<u>SIZE</u>	<u>ROOT</u>	REMARKS
n Brilliance Serviceberry	Amelanchier x grandiflora `Autumn Brilliance`	6` - 7` HT	B&B	Clump, min. 3 stems
<u>ON NAME</u>	<u>BOTANICAL NAME</u>	<u>SIZE</u>	ROOT	<u>REMARKS</u>
Bush Honeysuckle	Diervilla lonicera	18" HT	CONT.	
evil Dwarf Ninebark	Physocarpus opulifolius `Little Devil` TM	24" HT	CONT.	
licious Fritsch Spirea	Spiraea fritschiana `J.N. Select A`	18" HT	CONT.	
<u>ON NAME</u>	BOTANICAL NAME	<u>SIZE</u>	ROOT	REMARKS
Compact Pfitzer Juniper	Juniperus chinensis `Kallays Compact`	18"SPD	CONT.	
<u>ON NAME</u>	<u>BOTANICAL NAME</u>	<u>SIZE</u>	<u>ROOT</u>	REMARKS
erster Feather Reed Grass	Calamagrostis x acutiflora `Karl Foerster`	1 GAL	POT	24" Spacing
rairie Dropseed	Sporobolus heterolepis `Tara`	1 GAL	POT	18" Spacing
<u>ON NAME</u>	<u>BOTANICAL NAME</u>	<u>SIZE</u>	<u>ROOT</u>	REMARKS
usiness Daylily	Hemerocallis x `Little Business`	4 1/2"	POT	24" Spacing

EXISTING DECIDUOUS TREE TO REMAIN

EXISTING EVERGREEN TREE TO REMAIN

EXISTING SHRUBS TO REMAIN

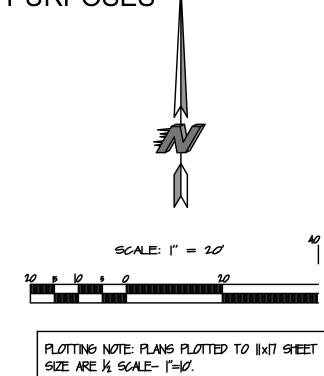
GENERAL LANDSCAPE NOTES

- ALL DETAILS AND SPECIFICATIONS TO BE DETERMINED ON FINAL LANDSCAPE PLANS. - ALL PLANTINGS SHALL COMPLY WITH STANDARDS AS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK - ANSI Z60.1 (LATEST VERSION)

- MULCH: ALL PLANTING BEDS TO RECEIVE 3" DEEP LAYER OF SHREDDED HARDWOOD

- TURF SEED: DURABLE, PREMIUM COMMERCIAL BLEND.

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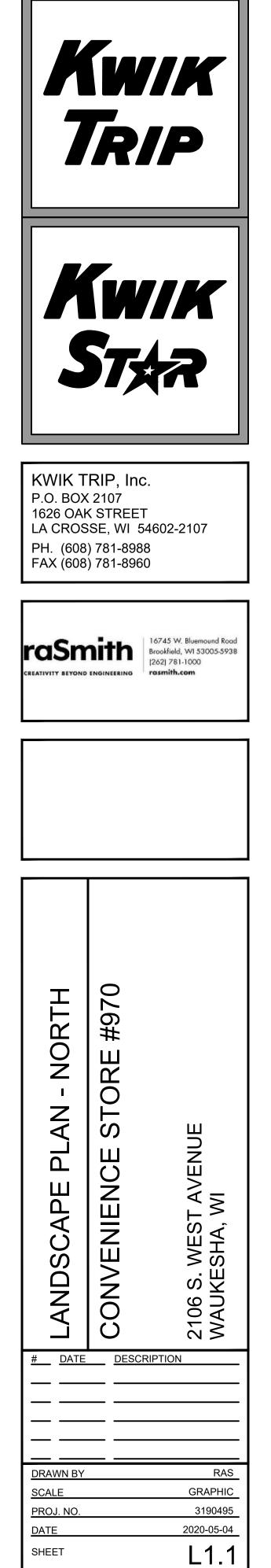


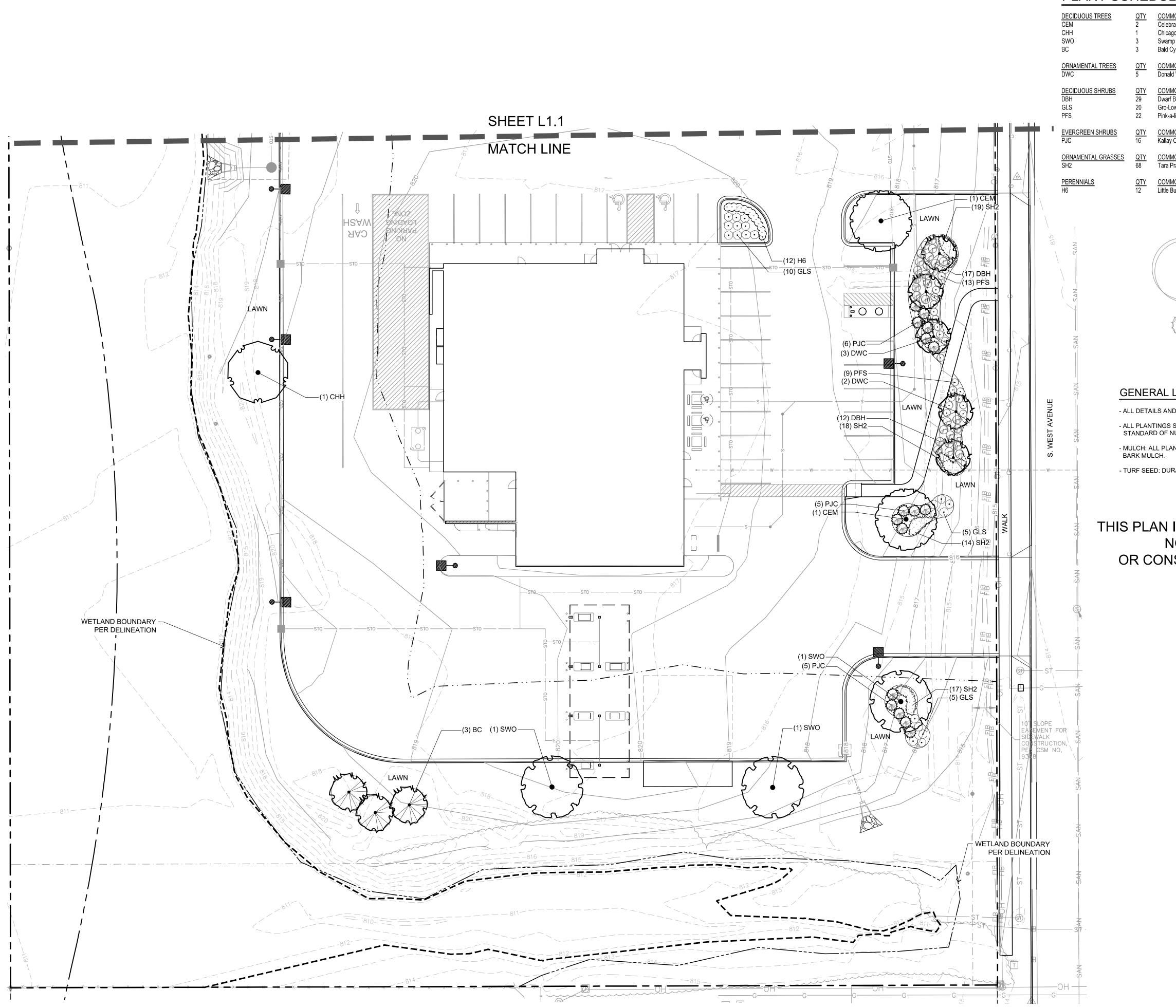
CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF WAUKESHA EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, WDNR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.



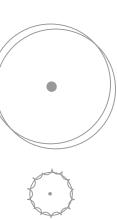
R.A.SMITH ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH





PLANT SCHEDULE SOUTH

	-			
<u>COMMON NAME</u> Celebration Maple Chicagoland Hackberry Swamp White Oak Bald Cypress	BOTANICAL NAME Acer freemanii `Celebration` Celtis occidentalis `Chicagoland` Quercus bicolor Taxodium distichum	<u>SIZE</u> 2 1/2" CAL 2 1/2" CAL 2 1/2" CAL 6` - 7` HT	<u>ROOT</u> B&B B&B B&B B&B	REMARKS Full, matching heads Full, matching heads Full, matching heads
COMMON NAME	BOTANICAL NAME	<u>SIZE</u>	<u>ROOT</u>	<u>REMARKS</u>
Donald Wyman Crab Apple	Malus x `Donald Wyman`	2 1/2" CAL	B&B	Full, matching heads
<u>COMMON NAME</u>	BOTANICAL NAME	<u>SIZE</u>	ROOT	<u>REMARKS</u>
Dwarf Bush Honeysuckle	Diervilla Ionicera	18" HT	CONT	
Gro-Low Fragrant Sumac	Rhus aromatica `Gro-Low`	18" HT	CONT	
Pink-a-licious Fritsch Spirea	Spiraea fritschiana `J.N. Select A`	18" HT	CONT	
COMMON NAME	BOTANICAL NAME	<u>SIZE</u>	ROOT	REMARKS
Kallay Compact Pfitzer Juniper	Juniperus chinensis `Kallays Compact`	18"SPD	CONT.	
COMMON NAME	BOTANICAL NAME	<u>SIZE</u>	<u>ROOT</u>	<u>REMARKS</u>
Tara Prairie Dropseed	Sporobolus heterolepis `Tara`	1 GAL	POT	18" Spacing
COMMON NAME	BOTANICAL NAME	<u>SIZE</u>	ROOT	REMARKS
Little Business Daylily	Hemerocallis x `Little Business`	4 1/2"	POT	24" Spacing



EXISTING DECIDUOUS TREE TO REMAIN

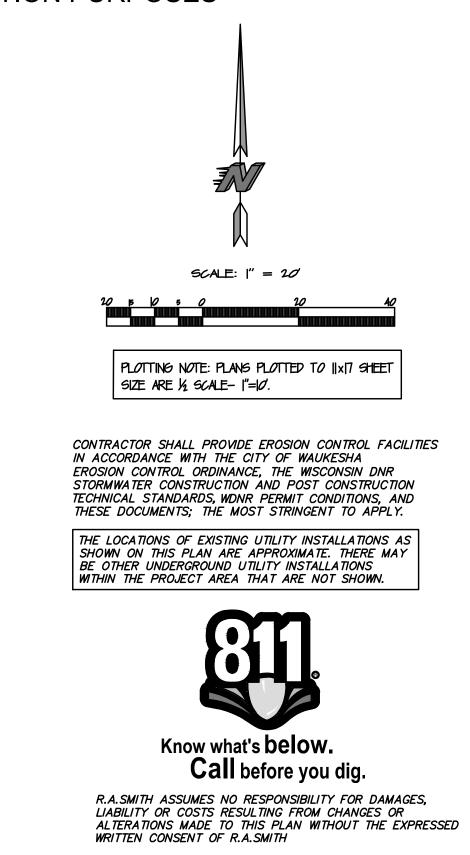
EXISTING EVERGREEN TREE TO REMAIN

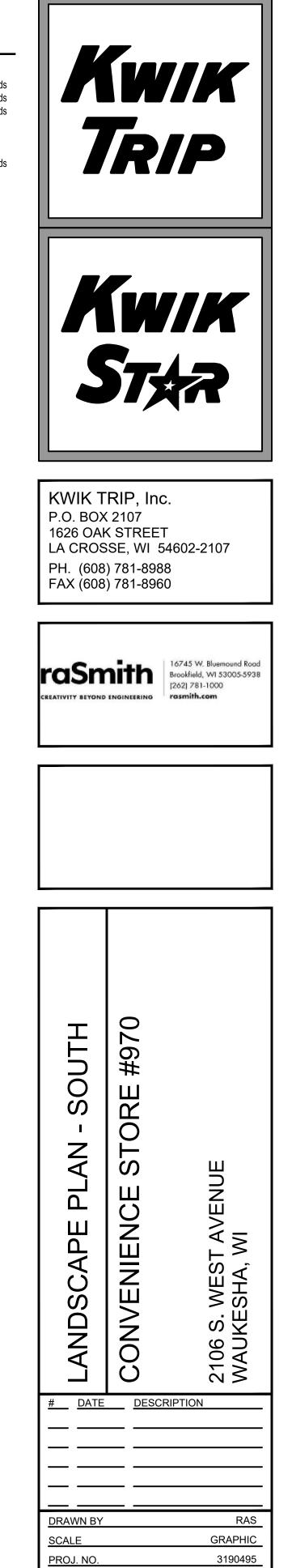
GENERAL LANDSCAPE NOTES

ALL DETAILS AND SPECIFICATIONS TO BE DETERMINED ON FINAL LANDSCAPE PLANS.
ALL PLANTINGS SHALL COMPLY WITH STANDARDS AS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK - ANSI Z60.1 (LATEST VERSION)
MULCH: ALL PLANTING BEDS TO RECEIVE 3" DEEP LAYER OF SHREDDED HARDWOOD

- TURF SEED: DURABLE, PREMIUM COMMERCIAL BLEND.

THIS PLAN IS FOR MUNICIPAL REVIEW NOT FOR BIDDING OR CONSTRUCTION PURPOSES





DATE

SHEET

2020-05-04

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