



# ALTA/NSPS LAND TITLE SURVEY

Known as 1700 & 1720 Pewaukee Road, in the City of Waukesha, Waukesha County, Wisconsin.

Title Commitment No. 18402092W  
Parcel 2 of Certified Survey Map No. 4080, recorded in Volume 32, Pages 101-104, as Document No. 1167731, being part of the Northeast Quarter of Section 34, Township 7, North, Range 19 East, in the City of Waukesha, Waukesha County, Wisconsin EXCEPTING THEREFROM:  
A parcel of land being part of Parcel 2 of Certified Survey Map No. 4080, located in the Northeast Quarter of Section 34, Township 7 North, Range 19 East, in the City of Waukesha, Waukesha County, Wisconsin, more particularly described as follows:  
Commencing at the Southeast corner of Lot 2 of Certified Survey Map No. 4080, said point being the point of beginning; thence along the North line of Gascoigne Drive South 89°40'00" West 7.09 feet; thence North 44°59'36" East 9.99 feet to a point on the West line of C.T.H. J (Pewaukee Road); thence along said West line South 00°10'06" East 7.03 feet to the point of beginning.

Title Commitment No. 18402086W  
Parcel One (1) of Certified Survey Map No. 4080, recorded September 22, 1981 in Volume 32 of Certified Survey Maps on Pages 101-104 as Document No. 1167731, being a part of the Northeast One-quarter (1/4) of Section Thirty-four (34), Township Seven (7) No11h, Range Nineteen (19) East, City of Waukesha, Waukesha County, Wisconsin.

Prepared for: Kwik Trip, Inc.

Survey No. 166850-RMK

A. Basis of Bearings  
Bearings are based on the North line of Gascoigne Road, which is assumed to bear North 90°00'00" West.

B. Title Commitment No. 18402092W  
This survey was prepared based on First American Title Insurance Company title commitment number 18402092W, dated August 8, 2018, which lists the following easements and/or restrictions from schedule B-II:

1-3, 5. Visible evidence shown, if any.

4, 6-7. Not survey related.

C. Title Commitment No. 18402086W  
This survey was prepared based on First American Title Insurance Company title commitment number 18402086W, dated August 8, 2018, which lists the following easements and/or restrictions from schedule B-II:

1-3, 5. Visible evidence shown, if any.

4, 6-7. Not survey related.

8. Agreement for Permission for a Temporary Waste-Water Collection and Holding Tank recorded as Document No. 1286622. Affects site by location - general in nature, cannot be plotted.

9. Utility Easement granted by an instrument recorded as Document No. 4193379. Affects site by location - shown.

D. Flood Note  
According to flood insurance rate map of the City of Waukesha, community panel number 55133C0213G, effective date of November 5, 2014, this site falls in zone X (areas determined to be outside the 0.2% annual chance floodplain)

E. Parking Spaces  
There are 7 regular and 1 handicapped parking spaces marked on this site.

F. Elevations  
Elevations refer to City of Waukesha Datum.  
Starting benchmark: Southeast corner of Northeast 1/4 of Section 34, Township 7 North, Range 19 East, Found concrete monument with brass cap, Elevation = 113.787

G. Municipal Zoning  
Zoning data provided in a Zoning Letter from the City of Waukesha dated 9-7-18.  
Site is zoned M-3, Limited Business District

Zoning setbacks from on-line zoning code for the City of Waukesha:  
(b) SETBACK AND YARDS.  
a. There shall be a minimum street yard setback of forty (40) feet from the right-of-way of all streets.  
b. There shall be a side yard on each side of all buildings of not less than ten (10) feet.  
c. There shall be a rear yard of not less than twenty-five (25) feet.  
e. No building in the M-3 district shall be located closer than one hundred (100) feet from a residential district boundary unless a buffering plan has been prepared by the developer and approved by the Plan Commission.

H. Notes  
There is no proposed changes in street right of way lines, if such information is made available to the surveyor by the controlling jurisdiction observed in the process of conducting the fieldwork.

There is no evidence of recent street or sidewalk construction or repairs observed in the process of conducting the fieldwork.

There is no evidence of wetland flags on the site observed in the process of conducting the fieldwork.

To: Kwik Trip, Inc., a Wisconsin Corporation,  
Land Title Services, Inc.  
First American Title Insurance Company

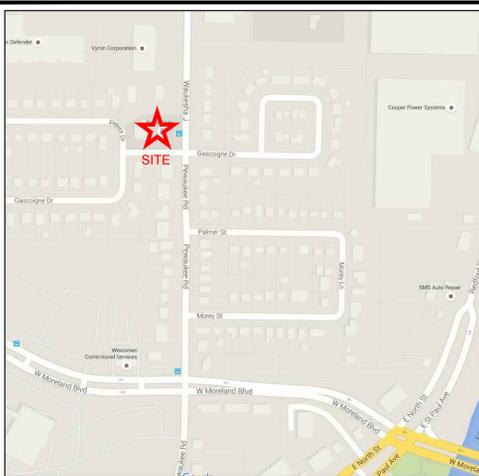
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS and includes items 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 8, 9, 11, 14, 17, 18, 19 and 21 of Table A thereof. The fieldwork was completed on September 12, 2018.

Date of Plat or Map: September 17, 2018

*John P. Casucci*  
John P. Casucci  
Professional Land Surveyor  
Registration Number 2055  
john.casucci@rasmith.com



**raSmith**  
CREATIVITY BEYOND ENGINEERING  
16745 W. Bluemound Road  
Brookfield, WI 53005-5938  
(262) 781-1000  
rasmith.com



VICINITY MAP - NOT TO SCALE

GRAPHIC SCALE  
0 10 20 40  
(IN FEET)

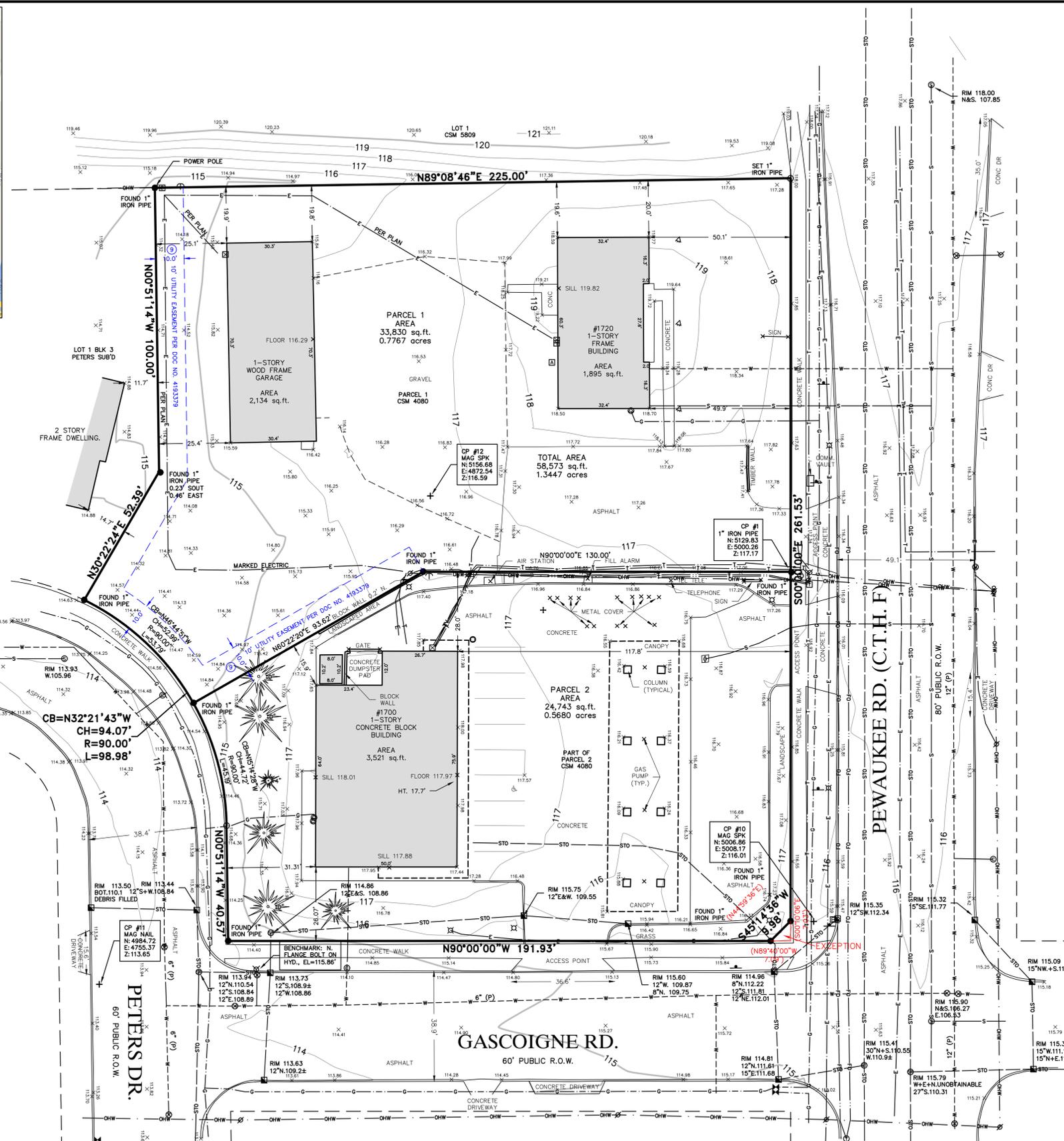
**LEGEND**

- BOLLARD
- ⊕ SOIL BORING/MONITORING WELL
- ⚡ FLAGPOLE
- ✉ MAILBOX
- ➔ SIGN
- ⊠ AIR CONDITIONER
- ⊠ CONTROL BOX
- ⊠ TRAFFIC SIGNAL
- ⊠ RAILROAD CROSSING SIGNAL
- ⊠ CABLE PEDESTAL
- ⊠ POWER POLE
- ⊠ GUY POLE
- ⊠ GUY WIRE
- ⊠ LIGHT POLE
- ⊠ SPOT/YARD/PEDESTAL LIGHT
- ⊠ HANDICAPPED PARKING
- ⊠ ELECTRIC MANHOLE
- ⊠ ELECTRIC PEDESTAL
- ⊠ ELECTRIC METER
- ⊠ ELECTRIC TRANSFORMER
- ⊠ TELEPHONE MANHOLE
- ⊠ TELEPHONE PEDESTAL
- ⊠ UTILITY VAULT
- ⊠ GAS VALVE
- ⊠ GAS METER
- ⊠ GAS WARNING SIGN
- ⊠ STORM MANHOLE
- ⊠ ROUND INLET
- ⊠ SQUARE INLET
- ⊠ STORM SEWER END SECTION
- ⊠ SANITARY MANHOLE
- ⊠ SANITARY CLEANOUT OR SEPTIC VENT
- ⊠ SANITARY INTERCEPTOR MANHOLE
- ⊠ MISCELLANEOUS MANHOLE
- ⊠ WATER VALVE
- ⊠ HYDRANT
- ⊠ WATER SERVICE CURB STOP
- ⊠ WATER MANHOLE
- ⊠ WELL
- ⊠ WATER SURFACE
- ⊠ WETLANDS FLAG
- ⊠ MARSH
- ⊠ CONIFEROUS TREE
- ⊠ DECIDUOUS TREE
- ⊠ SHRUB
- ⊠ EDGE OF TREES
- ⊠ SANITARY SEWER
- ⊠ STORM SEWER
- ⊠ WATERMAIN
- ⊠ MARKED GAS MAIN
- ⊠ MARKED ELECTRIC
- ⊠ OVERHEAD WIRES
- ⊠ BUREAU ELEC. SERV.
- ⊠ MARKED TELEPHONE
- ⊠ MARKED CABLE TV LINE
- ⊠ MARKED FIBER OPTIC
- ⊠ INDICATES EXISTING CONTOUR ELEVATION
- ⊠ INDICATES EXISTING SPOT ELEVATION

DIGGERS HOTLINE

THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.

(P) INDICATES PIPE SIZES PER RECORD PLANS. OTHER PIPE SIZES ARE ESTIMATED. NO PIPE SIZES SHOULD BE RELIED UPON WITHOUT FURTHER VERIFICATION.



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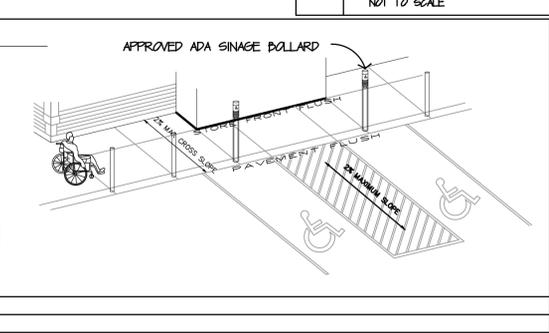
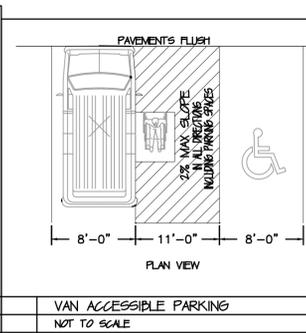
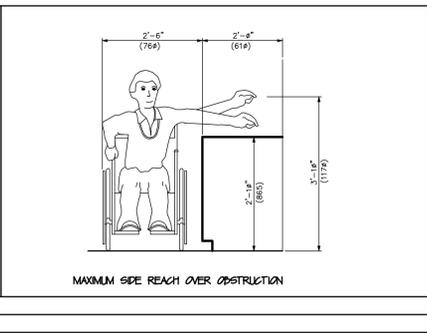
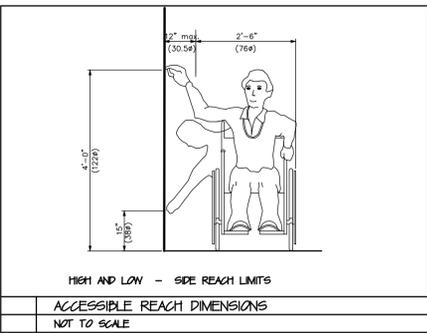
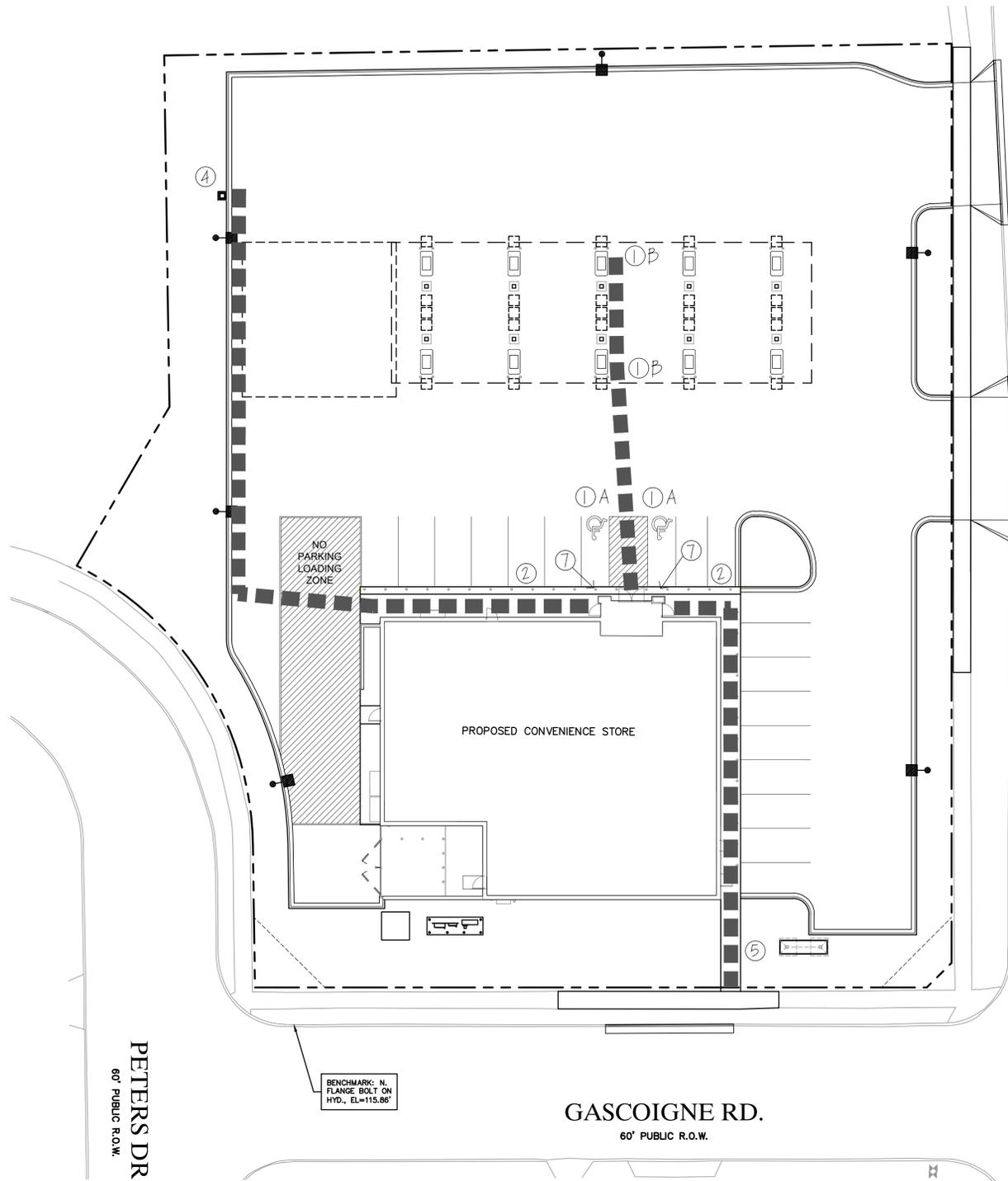
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**PLAN KEYNOTES**

- ACCESSIBLE STALLS
  - STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY BLUE PAINT. SPACES PROVIDED
  - 8'-0" x 20'-0" MIN. ACCESSIBLE PARKING WITH
    - 8'-0" x 20'-0" MIN. LOADING ZONE
  - ACCESSIBLE FUELING POINT AND DISPENSER AND VALET. VALET AND KEY PAD ON PUMP SHALL CONFORM TO ADA REACH DIMENSIONS AS SHOWN IN DETAIL. SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY. PAVEMENTS FLUSH FOR ACCESSIBILITY.
- PICNIC TABLE W/ ACCESSIBLE PLACEMENT, PROVIDE TRASH CONTAINER
- ACCESSIBLE AIR INSTALLED WITH APPROPRIATED HEIGHTS. PARKING AREA SHALL MEET A.D.A DIMENSIONS FOR ACCESS AND SURFACE FOR WHEEL CHAIR ACCESS SHALL NOT EXCEED 1:48 SLOPE IN ALL DIRECTIONS. . SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY.
- ACCESSIBLE ROUTE TO STORE
- CURB RAMP
- ADA BOLLARD SIGNAGE

**NOTES FOR CONVENIENCE STORE ACCESSIBILITY**

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

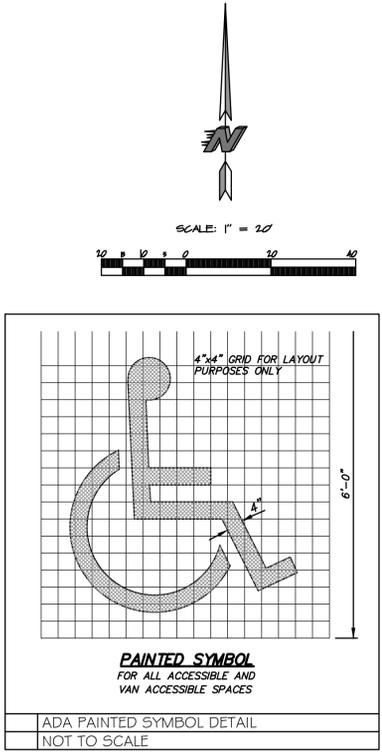
ALL PUMP CONTROLS SHALL BE < 48"(2010 STANDARD). WINDOW WASHER, PAPER TOWEL DISPENSER, LITERATURE, FIRE EXTINGUISHER, EMERGENCY FUEL STOPS, ETC. BE ACCESSIBLE 30"x48" CLF SPACE AND WITHIN A FORWARD OR SIDE APPROACH REACH RANGE.

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

PROVIDE ISA AT EACH ACCESSIBLE FUELING POSITION VISIBLE TO APPROACHING VEHICLES.

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

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



**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.**

**NOTES:**

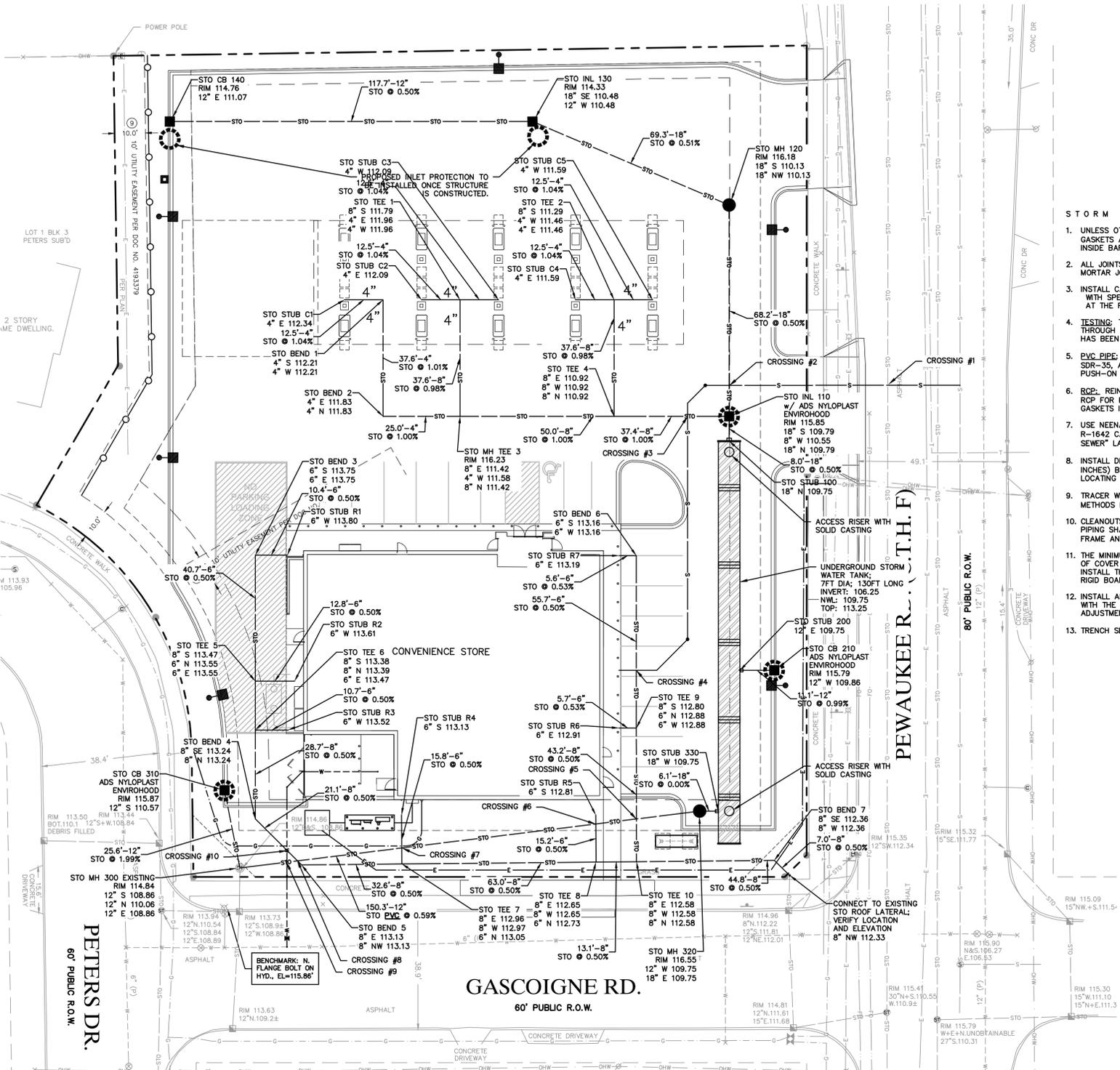
- REFER TO THE DOCUMENT FROM THE DEPARTMENT OF JUSTICE ON "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN", CONTRACTOR SHALL REFERENCE CURRENT A.D.A. GUIDELINES AND LOCAL REGULATIONS FOR SITE ACCESSIBILITY. IN ALL CASES THE MINIMUM REQUIREMENTS SHALL BE PROVIDED ON SITE TO ENSURE COMPLIANCE TO ALL REGULATIONS.
- KWIK TRIP STANDARD ENTRANCE DOOR IS AUTOMATIC SLIDING DOOR SYSTEM DESIGNED TO COMPLY WITH ALL ACCESS CODES AND LAWS. ENTRANCE DOORS FOR ACCESSIBLE ROUTES WILL HAVE A MINIMUM CLEAR OPENING OF 32"
- STORE FRONTS WILL PROVIDE FLUSH PAVEMENTS ALONG ACCESSIBLE ROUTES WITH PROTECTIVE SECURITY BOLLARDS INDICATED AND SPACED BETWEEN PARKING SURFACES AND BUILDING WALK PER PLAN.
- NO OBJECTS OR DISPLAYS SHOULD PROTRUDE INTO THE MINIMUM CLEAR SPACE OF THE ACCESSIBLE ROUTES TO THE STORE ENTRANCE. THIS WILL INCLUDE SEASONAL DISPLAY VENDING AREAS AS WELL AS OTHER OUTDOOR STORAGE UNITS FOR PROPANE AND ICE, ETC.
- PER A.D.A GUIDELINES- CLEAR WIDTH OF ACCESSIBLE ROUTES SHALL BE 36" AND PERMITTED TO BE REDUCED TO 32" FOR A LENGTH OF 24".
- ACCESS ISLES SERVING WHEEL CHAIR LIFTS OR CHAIR ACCESS FROM VEHICLES ARE REQUIRED TO BE NEARLY LEVEL IN ALL DIRECTIONS TO PROVIDE SAFE TRANSFER OF WHEELCHAIRS TO AND FROM VEHICLES. THE EXCEPTION WOULD BE FOR DRAINAGE. MAXIMUM SLOPE FOR THE ACCESS ISLE IS 1:48. NO CURB RAMPS SHALL BE A PART OF THE ACCESS ISLE.
- IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY WITH THE DESIGNATION OF 1 "VAN ACCESSIBLE" IN EVERY 8 ACCESSIBLE SPACES ON SITE.



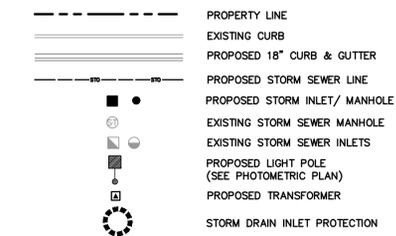
**KWIK TRIP, Inc.**  
 P.O. BOX 2107  
 1626 OAK STREET  
 LA CROSSE, WI 54602-2107  
 PH. (608) 781-8988  
 FAX (608) 781-8960

**raSmith**  
 CREATIVITY BEYOND ENGINEERING  
 16745 W. Bluemound Road  
 Brookfield, WI 53005-5938  
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 rasmith.com

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|-----------------|----------------------------------|-------------|
| ACCESSIBLE PLAN | CONVENIENCE STORE #527           |             |
|                 | 1700 PEWAUKEE RD<br>WAUKESHA, WI |             |
| #               | DATE                             | DESCRIPTION |
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| DRAWN BY        | RAS                              |             |
| SCALE           | GRAPHIC                          |             |
| PROJ. NO.       | 3190494                          |             |
| DATE            | 2020-05-18                       |             |
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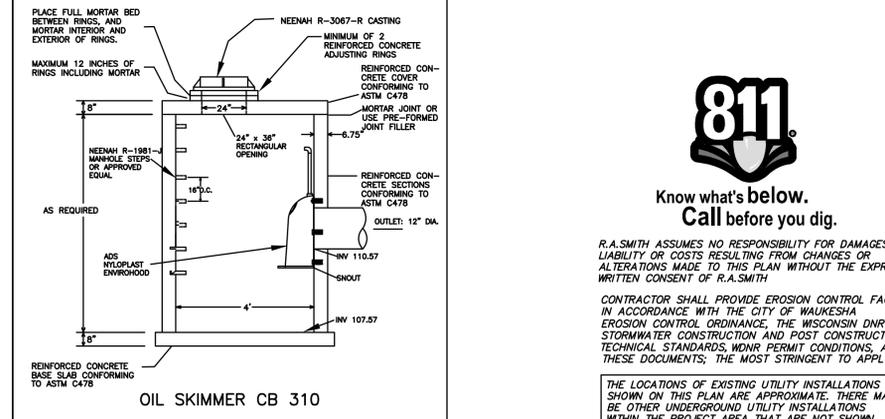
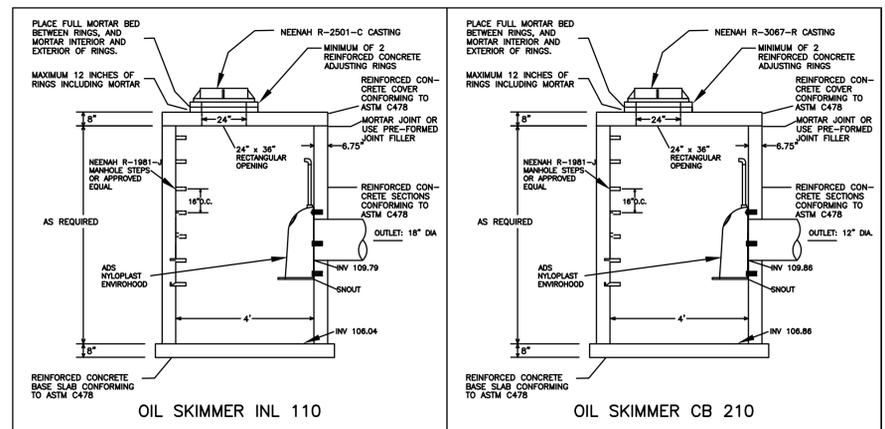


**LEGEND**



**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.
- 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.
- 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.
- 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. LAY ALL PVC PIPE ON A CONTINUOUS GRANULAR BED. INSTALLATION MUST COMPLY WITH ASTM D2321.
- 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.
- 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.
- 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.
- 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 ACCORDANCE WITH THE PROVISIONS OF THESE CODE SECTIONS AS PER 182.0715(2R) OF THE STATUTES.
- 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.
- 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 BOARD 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.
- 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 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.
- TRENCH SECTION SHALL BE CLASS "C" FOR CONCRETE AND CLASS "B" FOR ALL OTHER MATERIALS.



| CROSSING I.D. | BOTTOM OF TOP PIPE | TOP OF BOTTOM PIPE | SEPARATION (FT) |
|---------------|--------------------|--------------------|-----------------|
| 1             | STO RCP 30"        | 111.28 SAN PVC 6"  | 107.94 3.34     |
| 2             | STO RCP 18"        | 109.63 SAN PVC 6"  | 108.64 0.99     |
| 3             | STO PVC 8"         | 110.66 SAN PVC 6"  | 108.85 1.82     |
| 4             | STO PVC 6"         | 112.95 SAN PVC 6"  | 109.82 3.13     |
| 5             | STO PVC 8"         | 112.63 STO PVC 12" | 110.66 1.97     |
| 6             | STO PVC 6"         | 112.78 STO PVC 12" | 110.58 2.20     |
| 7             | STO PVC 6"         | 113.06 STO PVC 12" | 110.21 2.86     |
| 8             | STO PVC 6"         | 113.12 STO PVC 12" | 110.00 3.12     |
| 9             | STO PVC 12"        | 108.92 WAT PVC 6"  | 107.38 1.54     |
| 10            | STO PVC 8"         | 113.15 WAT PVC 6"  | 107.67 5.48     |



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.

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

raSmith  
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16745 W. Blumond Road  
Brookfield, WI 53005-5938  
(262) 781-1000  
raSmith.com

STORM SEWER PLAN  
CONVENIENCE STORE #527  
1700 PEWAUKEE RD  
WAUKESHA, WI

| # | DATE | DESCRIPTION |
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DRAWN BY: RAS  
SCALE: GRAPHIC  
PROJ. NO.: 3190494  
DATE: 2020-05-18  
SHEET: SP3

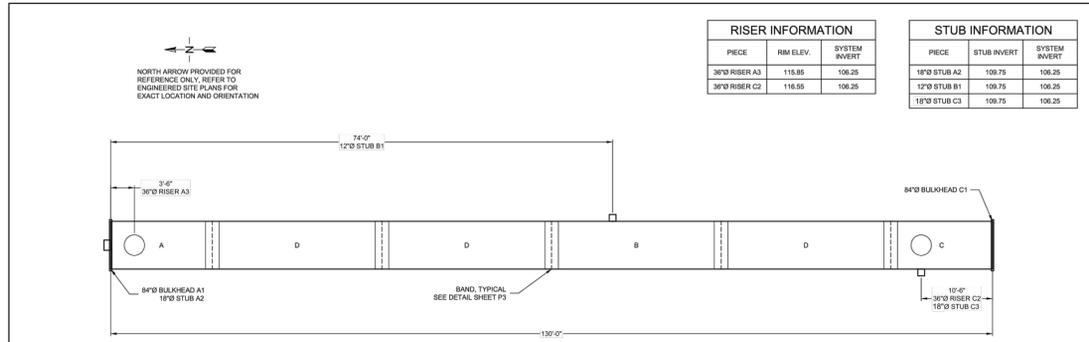












THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (4) PAGES INCLUDING THE FOLLOWING:

- PIPE STORAGE = 5,003 CF
- MAINLINE PIPE GAGE = 16
- WALL TYPE = SOLID
- DIAMETER = 84"
- FINISH = ALT2
- CORRUIGATION = 5x1

**ASSEMBLY**  
SCALE: 1" = 10'  
PIPE STORAGE: 5,003 CF  
LOADING: H20  
PIPE INV. = 106.25'

**NOTES**

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE.
- ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELIABLE FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A999.
- ALL RISERS AND STUBS ARE 22" x 12" CORRUGATION AND 18 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE AS REQUIRED, BY CONTRACTOR.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAIL PROVIDES NORMAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL ACCESS CASTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT SUPPLIED BY CONTECH.

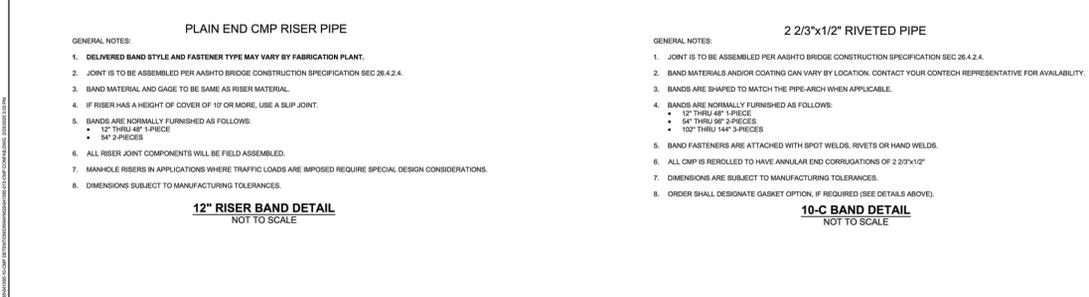
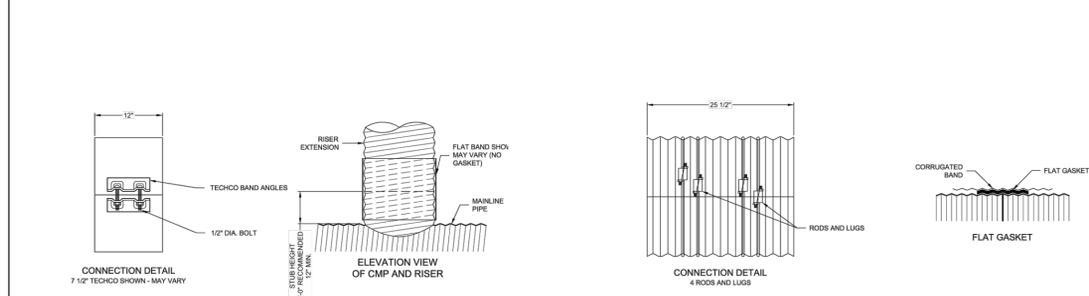
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**CONTECH CMP DETENTION SYSTEMS**  
CONTECH PROPOSAL

84"Ø UNDERGROUND DETENTION SYSTEM - 641385-010  
KWIK TRIP #527  
PEWAUKEE, WI  
SITE DESIGNATION: UNDERGROUND STORM WATER TANK

|             |         |          |            |
|-------------|---------|----------|------------|
| PROJECT NO. | 641385  | DATE     | 07/25/2020 |
| DESIGNER    | NDG     | APPROVED | NDG        |
| CHECKER     | NDG     | DATE     | 07/25/2020 |
| SCALE       | P1 OF 4 |          |            |

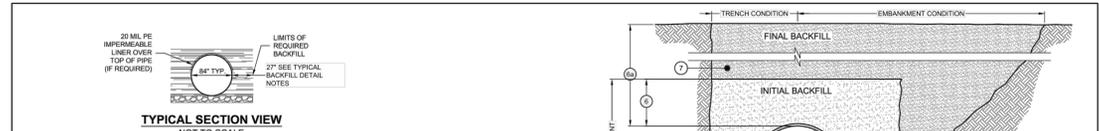


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| SCALE       | P3 OF 4 |          |            |



**BACKFILL REQUIREMENTS FOLLOW THE GUIDELINES OF AASHTO LRFD BRIDGE DESIGN (SEC 13) AND CONSTRUCTION (SEC 26)**

- MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE MINIMUM TRENCH WIDTH (12.6.6.1):  
PIPE < 12" - D + 18"  
PIPE > 12" - 1.5D + 12"
- MINIMUM EMBANKMENT WIDTH (IN FEET) FOR INITIAL FILL ENVELOPE (12.6.6.2):  
PIPE < 24" - 3.0D  
PIPE < 24" - 144" - D + 10"  
PIPE > 144" - D + 10"
- THE FOUNDATION UNDER THE PIPE AND SIDE BACKFILL SHALL BE ADEQUATE TO SUPPORT THE LOADS ACTING UPON IT (26.5.2).
- ENGINEER TO DETERMINE IF BEDDING IS REQUIRED. BEDDING MATERIAL SHALL BE A RELATIVELY LOOSE MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE AND A MINIMUM OF TWICE THE CORRUGATION DEPTH IN THICKNESS, WITH THE MAXIMUM PARTICLE SIZE OF ONE-HALF OF THE CORRUGATION DEPTH (26.5.3, 26.5.3).
- CORRUGATED STEEL PIPE (CSP / HEL-COR).
- HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION (26.5.4).
- INITIAL BACKFILL FOR PIPE EMBEDMENT TO MEET AASHTO A-1, A-2 OR A-3 CLASSIFICATION, OR APPROVED EQUAL, COMPACTED TO 90% STANDARD PROCTOR (P 99). MAXIMUM PARTICLE SIZE NOT TO EXCEED 9 (12.4.1.2). ALL LIFTS PLACED IN A CONTROLLED MANNER. IT IS RECOMMENDED THAT LIFTS NOT EXCEED AN UNCOMPACTED LIFT HEIGHT TO PREVENT UNEVEN LOADING, AND THE LESSER OF 1/3 THE DIAMETER OR 24" AS THE MAXIMUM DIFFERENTIAL, SIDE-TO-SIDE (26.5.4).
- TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT (12.6.5.3).
- FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD (26.5.1).

**NOTES:**

- ENGINEER TO DETERMINE IF GEOTEXTILE SHOULD BE USED TO PREVENT SOIL MIGRATION INTO VARYING SOIL TYPES (PROJECT ENGINEER).
- FOR MULTIPLE BARREL INSTALLATIONS THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE PIPE DIA. 2 BUT NO LESS THAN 12" OR 36" FOR PIPE DIAMETERS 12" AND LARGER.
- CONTACT YOUR CONTECH REPRESENTATIVE FOR NON-STANDARD SPACING (TABLE C12.6.7-1).

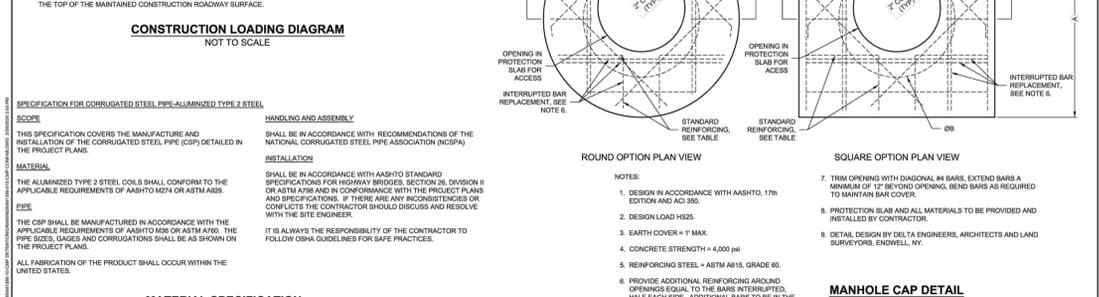
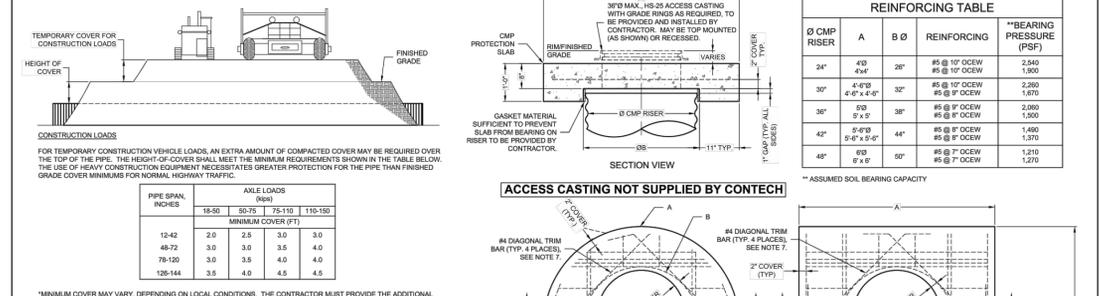
**TYPICAL BACKFILL DETAIL**  
NOT TO SCALE

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200 Ridge Road, Hudson, NJ 07030  
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| SCALE       | P2 OF 4 |          |            |

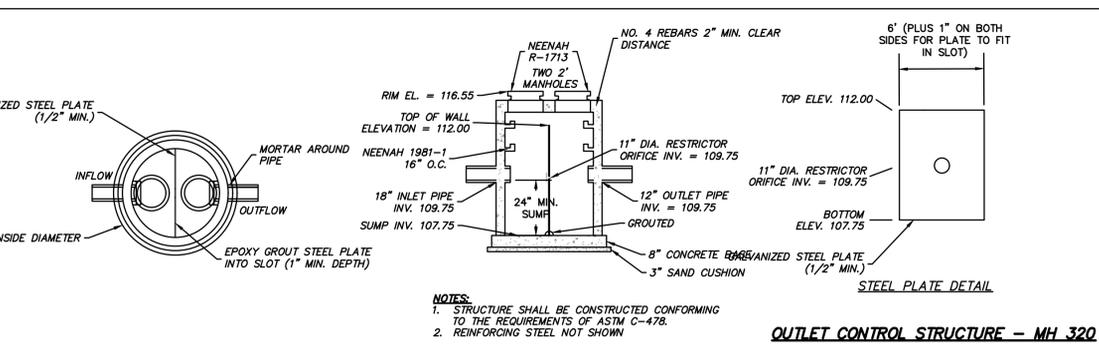


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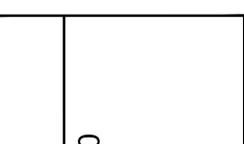
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| SCALE       | P4 OF 4 |          |            |



KWIK TRIP, Inc.  
P.O. BOX 2107  
1628 OAK STREET  
LA CROSSE, WI 54602-2107  
PH. (608) 781-8988  
FAX (608) 781-8960

**raSmith**  
CREATIVITY BEYOND ENGINEERING

16745 W. Blumound Road  
Brookfield, WI 53005-5938  
(262) 781-1000  
rasmith.com



SW BMP DETAILS  
CONVENIENCE STORE #970  
2106 S. WEST AVENUE  
WAUKESHA, WI

| # | DATE | DESCRIPTION |
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SCALE: GRAPHIC  
PROJ. NO.: 3190495  
DATE: 2020-05-04  
SHEET: SWP5

