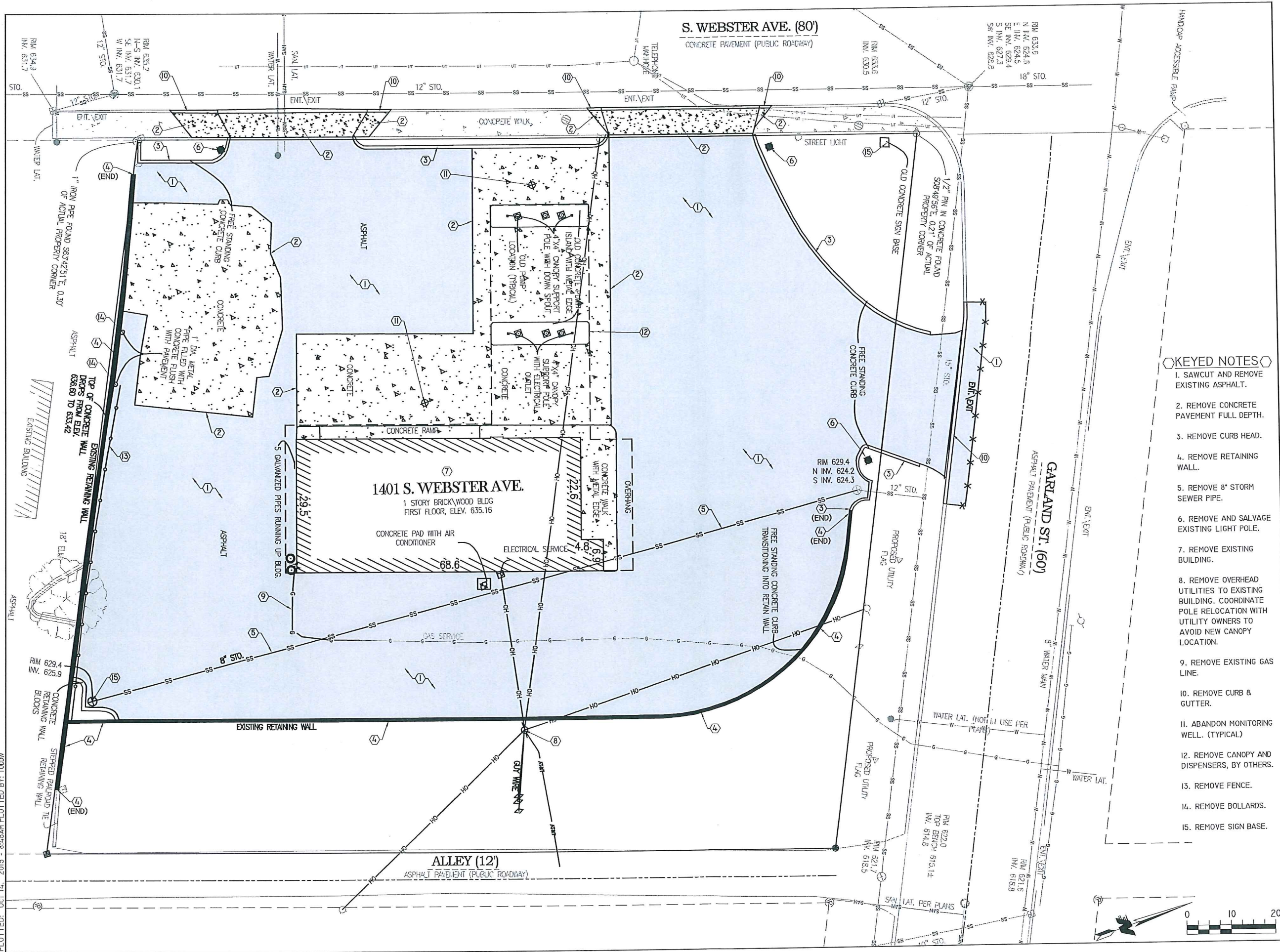


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KEYED NOTES

1. SAWCUT AND REMOVE EXISTING ASPHALT.
2. REMOVE CONCRETE PAVEMENT FULL DEPTH.
3. REMOVE CURB HEAD.
4. REMOVE RETAINING WALL.
5. REMOVE 8" STORM SEWER PIPE.
6. REMOVE AND SALVAGE EXISTING LIGHT POLE.
7. REMOVE EXISTING BUILDING.
8. REMOVE OVERHEAD UTILITIES TO EXISTING BUILDING. COORDINATE POLE RELOCATION WITH UTILITY OWNERS TO AVOID NEW CANOPY LOCATION.
9. REMOVE EXISTING GAS LINE.
10. REMOVE CURB & GUTTER.
11. ABANDON MONITORING WELL. (TYPICAL)
12. REMOVE CANOPY AND DISPENSERS, BY OTHERS.
13. REMOVE FENCE.
14. REMOVE BOLLARDS.
15. REMOVE SIGN BASE.

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DEMO PLAN

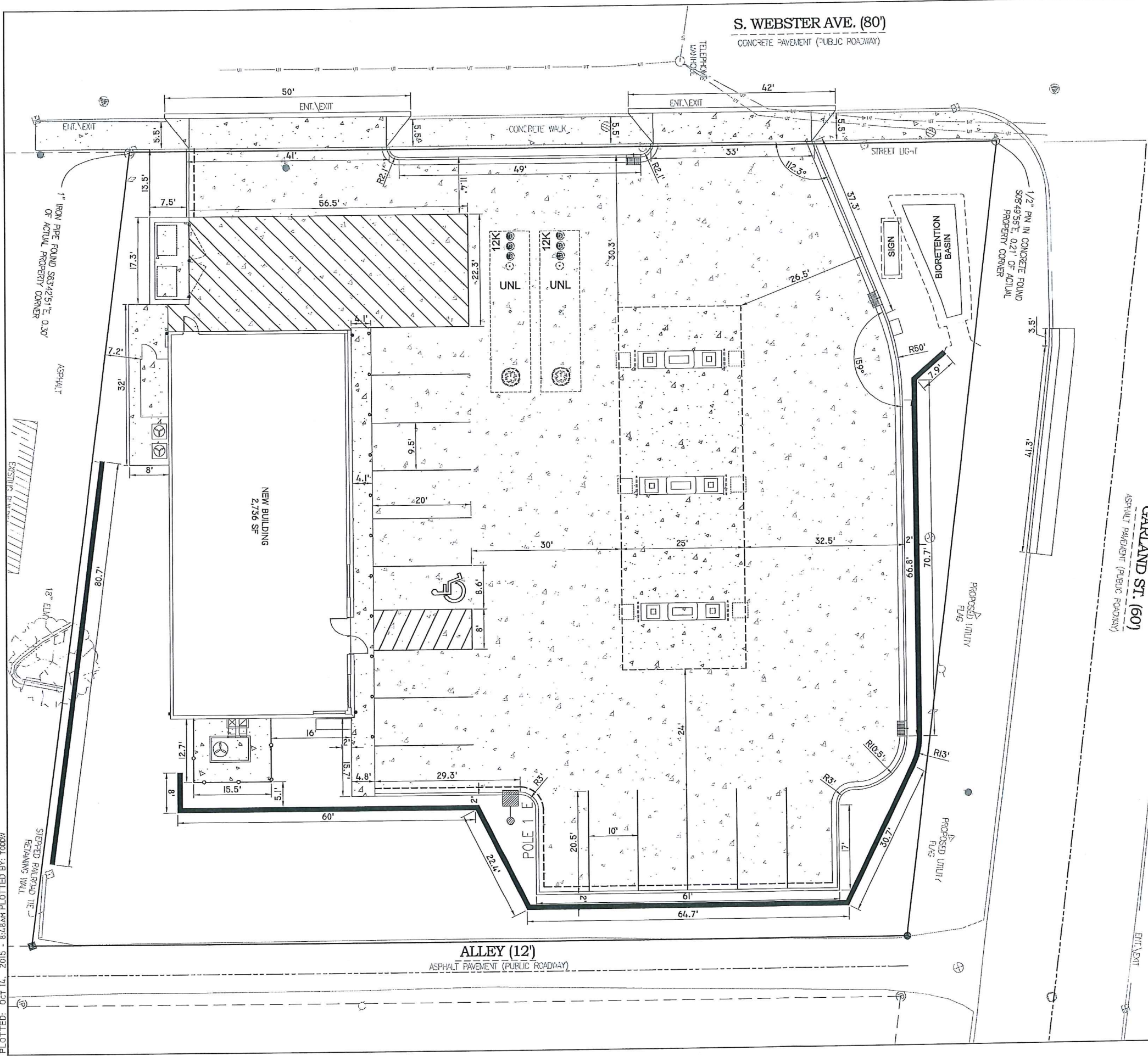
CONVENIENCE STORE

WEBSTER AVENUE
ALLOUEZ, WI

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PLOTTED: OCT 14, 2015 - 8:48AM PLOTTED BY: TODDY



- LAYOUT NOTES:
1. PLAN PREPARED FROM AN ALTA/ACSM LAND TITLE SURVEY BY: CAROW LAND SURVEYING CO., INC. 920-731-4168
 2. CURBS ARE DIMENSIONED TO BACK OF CURB.
 3. CONVENIENCE STORE, AND ISLAND COMPLEXES ARE LOCATED FROM THE NORTHEASTERN MOST PROPERTY CORNER AND ALIGNED PARALLEL/PERPENDICULAR TO THE LINE LABELED N0°23'55.90"W, UNLESS OTHERWISE INDICATED ON THIS PLAN.
 4. UNLESS SHOWN OTHERWISE ON THIS DRAWING, CONTRACTOR SHALL PROVIDE CONTROL JOINTS, CONSTRUCTION JOINTS, AND EXPANSION JOINTS IN SLAB ON GRADE, SIDEWALKS AND DRIVES. CONTROL JOINT MAXIMUM DISTANCE: WALKS- 8' O.C., ALL OTHERS- 15' O.C. SAW CUT CONTROL JOINTS MINIMUM ONE-QUARTER CONCRETE THICKNESS. EXPANSION JOINT MAXIMUM DISTANCE: WALKS- 24' O.C., ALL OTHERS- 40' O.C. DOWEL ALL EXPANSION JOINTS- MAXIMUM 24" O.C.
 5. CONCRETE IN ISLAND COMPLEX SHALL BE SMOOTH FINISHED.
 6. EXTERIOR CONCRETE SURFACES TO BE SEALED. CONCRETE SEALER: APR 15- OCT 31 USE: TK-26UV NOV 1- DEC 31 USE: TK-290
 7. EXPANSION JOINTS SHALL BE DECK-O-FOAMED AND CAULKED WITH SLI

SITE DATA:

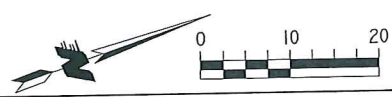
ZONING DISTRICT:	HIGHWAY BUSINESS USE DISTRICT
TOTAL SITE AREA - EXISTING/PROPOSED:	27,781 SF
EX. IMPERVIOUS:	21,093 SF
EX. PERVIOUS:	6,688 SF
PARKING REQUIREMENTS PARKING REQUIRED	SERVICE STATION = 1 STALL PER 2 EMPLOYEES +1
PARKING PROVIDED	21 STALLS
BUILDING HEIGHTS CONVENIENCE STORE CANOPY	20.0' 15.5'
BUILDING SETBACKS 15' FRONT AND SIDE CORNER 6' SIDE AND BACK	
PROPOSED LOT GREEN AREA:	8,058 SF
PROPOSED HARD COVER:	19,723 SF
PAVED AREA:	16,987 SF
BUILDING ROOF AREA:	2,736 SF
WATER FEATURE AREA:	216 SF
CONVENIENCE STORE: (FLOOR AREA) =	2,736 SF
	1,380 SF

UTILITY PROVIDERS

ELECTRIC/ GAS:
WISCONSIN PUBLIC SERVICE- 1-800-450-7260

TELEPHONE:
TIME WARNER- 920-496-2040
TIME WARNER - 920-496-2040

SANITARY/ WATER
CITY OF GREEN BAY 920-448-3480



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SITE PLAN

CONVENIENCE STORE

WEBSTER AVENUE
ALLOUEZ, WI

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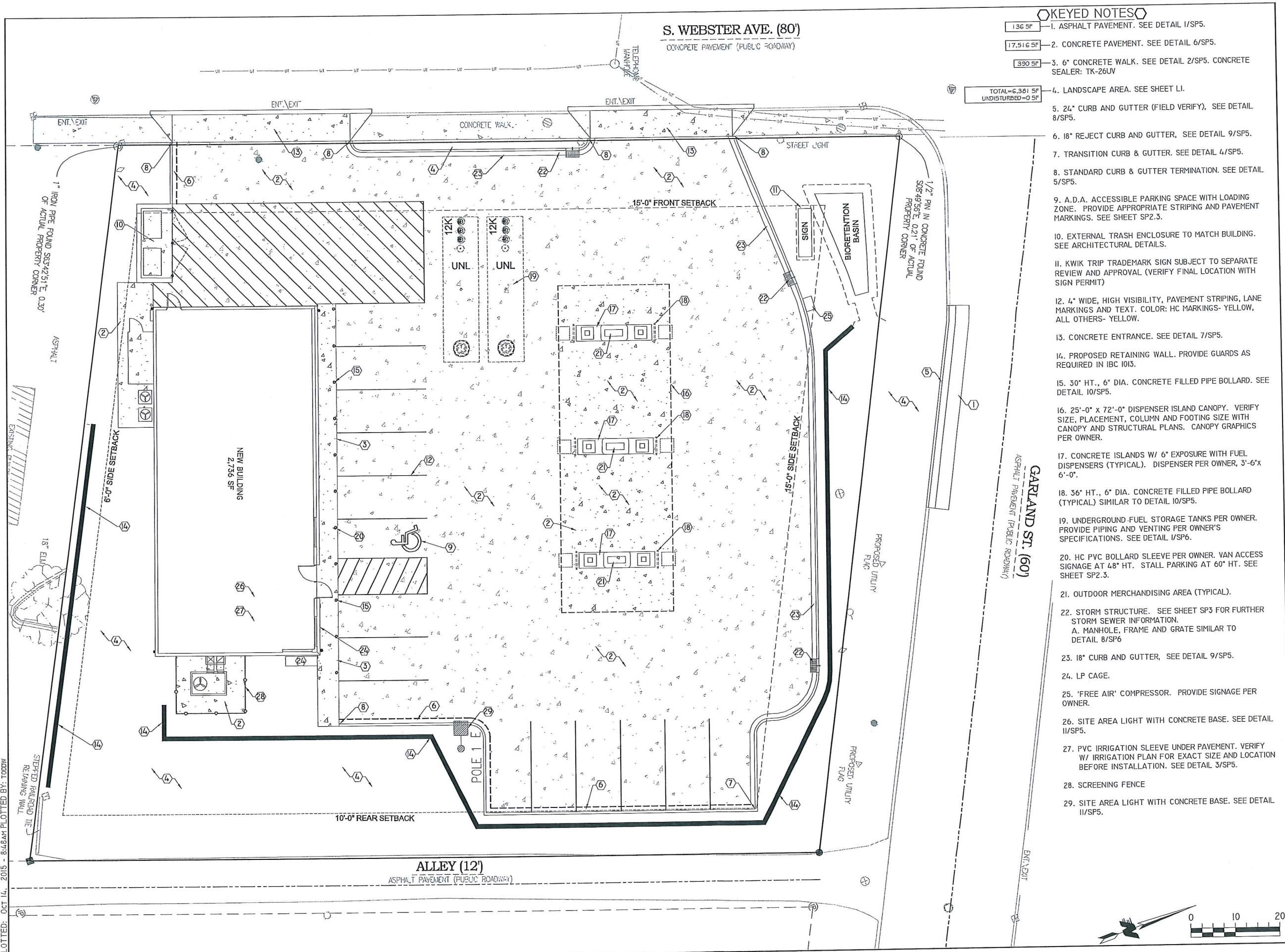
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DATE: 10/14/15 - BID DOCS

SHEET: SP1

DRAWING FILE: P:\7000-7099\7076A KWIK TRIP #174-ALLOUEZ.DWG PLANS\7076A-SF-SITE.DWG LAYOUT: SP1.1
PLOTTED: OCT 14, 2015 1:54:48AM PLOTTED BY: TDDW



KEYED NOTES

- 1. ASPHALT PAVEMENT. SEE DETAIL 1/SP5.
- 2. CONCRETE PAVEMENT. SEE DETAIL 6/SP5.
- 3. 6" CONCRETE WALK. SEE DETAIL 2/SP5. CONCRETE SEALER: TK-26UV
- 4. LANDSCAPE AREA. SEE SHEET LI.
- 5. 24" CURB AND GUTTER (FIELD VERIFY), SEE DETAIL 8/SP5.
- 6. 18" REJECT CURB AND GUTTER, SEE DETAIL 9/SP5.
- 7. TRANSITION CURB & GUTTER. SEE DETAIL 4/SP5.
- 8. STANDARD CURB & GUTTER TERMINATION. SEE DETAIL 5/SP5.
- 9. A.D.A. ACCESSIBLE PARKING SPACE WITH LOADING ZONE. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS. SEE SHEET SP2.3.
- 10. EXTERNAL TRASH ENCLOSURE TO MATCH BUILDING. SEE ARCHITECTURAL DETAILS.
- 11. KWIK TRIP TRADEMARK SIGN SUBJECT TO SEPARATE REVIEW AND APPROVAL (VERIFY FINAL LOCATION WITH SIGN PERMIT)
- 12. 4" WIDE, HIGH VISIBILITY, PAVEMENT STRIPING, LANE MARKINGS AND TEXT. COLOR: HC MARKINGS- YELLOW, ALL OTHERS- YELLOW.
- 13. CONCRETE ENTRANCE. SEE DETAIL 7/SP5.
- 14. PROPOSED RETAINING WALL. PROVIDE GUARDS AS REQUIRED IN IBC 1013.
- 15. 30" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD. SEE DETAIL 10/SP5.
- 16. 25'-0" x 72'-0" DISPENSER ISLAND CANOPY. VERIFY SIZE, PLACEMENT, COLUMN AND FOOTING SIZE WITH CANOPY AND STRUCTURAL PLANS. CANOPY GRAPHICS PER OWNER.
- 17. CONCRETE ISLANDS W/ 6" EXPOSURE WITH FUEL DISPENSERS (TYPICAL). DISPENSER PER OWNER, 3'-6"x 6'-0".
- 18. 36" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD (TYPICAL) SIMILAR TO DETAIL 10/SP5.
- 19. UNDERGROUND FUEL STORAGE TANKS PER OWNER. PROVIDE PIPING AND VENTING PER OWNER'S SPECIFICATIONS. SEE DETAIL 1/SP6.
- 20. HC PVC BOLLARD SLEEVE PER OWNER. VAN ACCESS SIGNAGE AT 48" HT. STALL PARKING AT 60" HT. SEE SHEET SP2.3.
- 21. OUTDOOR MERCHANDISING AREA (TYPICAL).
- 22. STORM STRUCTURE. SEE SHEET SP3 FOR FURTHER STORM SEWER INFORMATION.
A. MANHOLE, FRAME AND GRATE SIMILAR TO DETAIL 8/SP6
- 23. 18" CURB AND GUTTER, SEE DETAIL 9/SP5.
- 24. LP CAGE.
- 25. 'FREE AIR' COMPRESSOR. PROVIDE SIGNAGE PER OWNER.
- 26. SITE AREA LIGHT WITH CONCRETE BASE. SEE DETAIL 11/SP5.
- 27. PVC IRRIGATION SLEEVE UNDER PAVEMENT. VERIFY W/ IRRIGATION PLAN FOR EXACT SIZE AND LOCATION BEFORE INSTALLATION. SEE DETAIL 3/SP5.
- 28. SCREENING FENCE
- 29. SITE AREA LIGHT WITH CONCRETE BASE. SEE DETAIL 11/SP5.

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EMAIL: MAIL@REIENGINEERING.COM

SITE PLAN (KEYNOTES)

CONVENIENCE STORE

WEBSTER AVENUE
ALLOUEZ, WI

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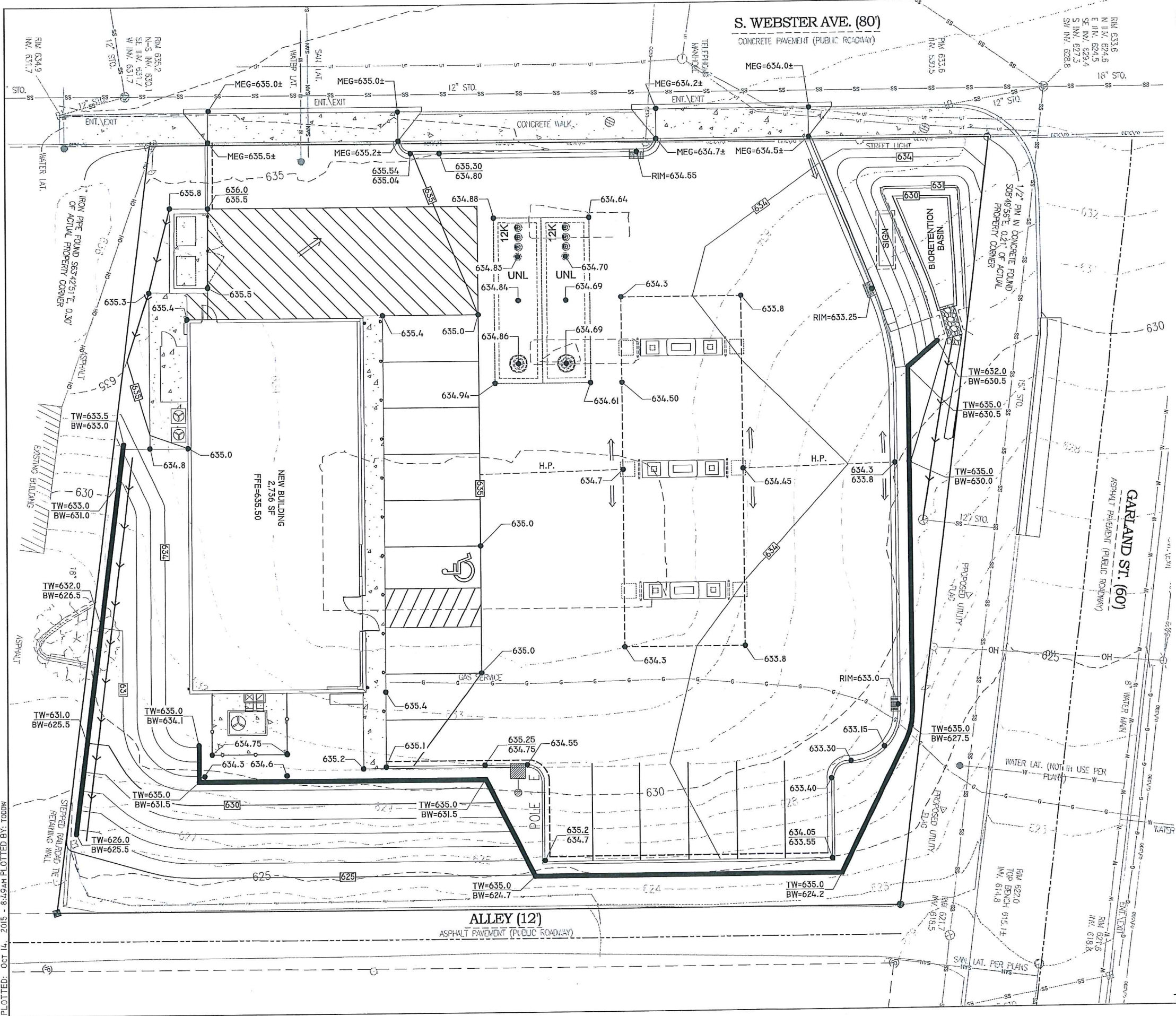
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DATE: 10/14/15 - BID DOCS

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DRAWING FILE: P:\7000-7099\7076A KWIK TRIP #17L-ALLOUEZ.DWG\PLANS\7076A-SP2-GRADING.DWG LAYOUT: SP2
PLOTTED: OCT 14, 2015 - 8:49AM PLOTTED BY: TODD



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

CALL DIGGERS HOTLINE @ 1-800-242-8511 AT
LEAST 3 WORKING DAYS PRIOR TO
EXCAVATING.

CONSTRUCTION NOTE:

COORDINATE WITH OWNER FOR POSSIBLE
CONSTRUCTION FENCING AND GATE
LOCATIONS AND APPROPRIATE SIGNAGE
INSTALLATION.

NOTE:

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

- PLAN PREPARED FROM ALTA/ACSM LAND
TITLE SURVEY BY:
REI ENGINEERING, INC.
715.675.9784

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

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

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

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

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

FINISHED FLOOR ELEV.
PROPOSED KWIK TRIP CONVENIENCE STORE
FINISHED ELEVATION - 1ST FLOOR= 1214.70
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.

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GRADE PLAN
CONVENIENCE STORE

WEBSTER AVENUE
ALLOUEZ, WI

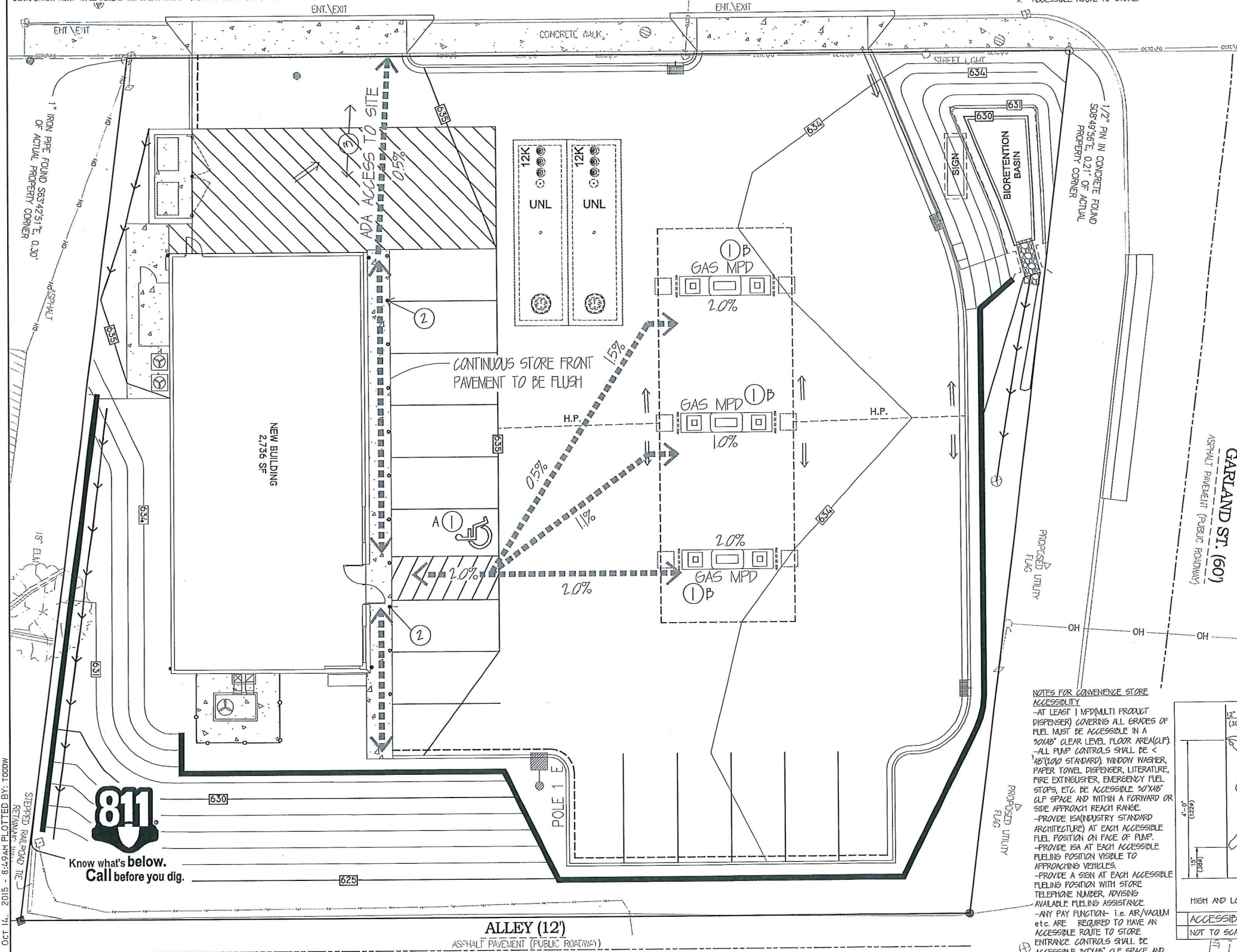
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PLOTTED: OCT 14, 2015 - 8:49AM PLOTTED BY: TODD

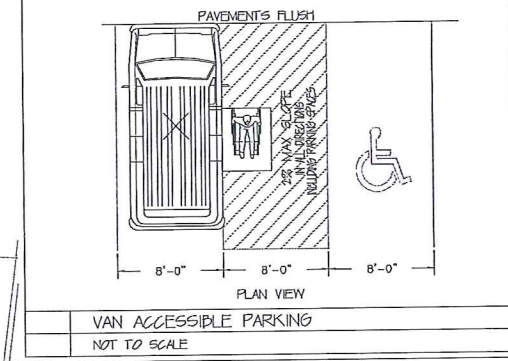
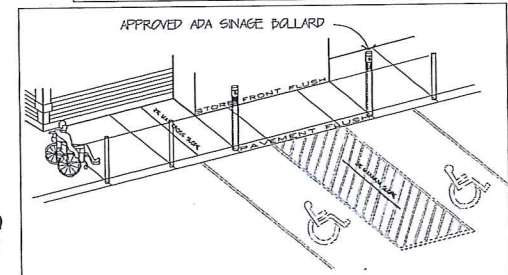
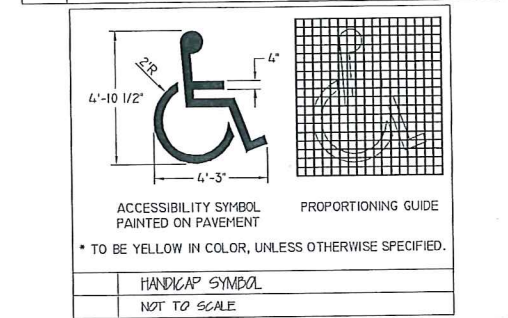
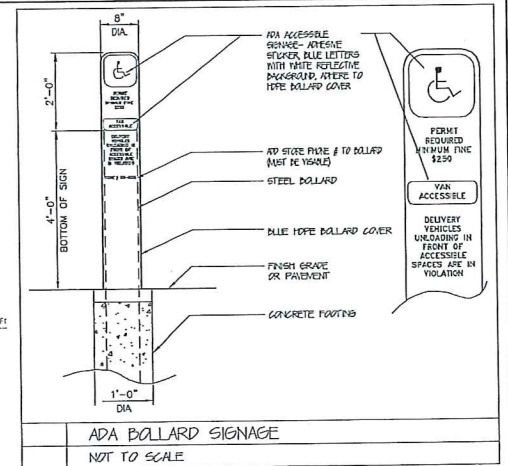
NOTES:
- REFER TO THE DOCUMENT FROM THE DEPARTMENT OF JUSTICE ON "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN". CONTRACTOR SHALL REFER TO CURRENT ADA GUIDELINES AND LOCAL REGULATIONS FOR SITE ACCESSIBILITY. IN ALL CASES THE MINIMUM REQUIREMENTS SHALL BE PROVIDED ON SITE TO ENSURE COMPLIANCE TO ALL REGULATIONS.
- 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 SHALL PROTRUDE INTO THE MINIMUM CLEAR SPACE OF THE ACCESSIBLE ROUTES TO THE STORE ENTRANCE. THIS WILL INCLUDE SEASONAL DISPLAY YARDING AREAS AS WELL AS OTHER OUTDOOR STORAGE UNITS FOR PROPANE AND V.E. ETC.
- PER ADA GUIDELINES- CLEAR WIDTH OF ACCESSIBLE ROUTES SHALL BE 36" AND PERMITTED TO BE REDUCED TO 30" FOR A LENGTH OF 24".
- ACCESSIBLE 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 PRANAGE. MAXIMUM SLOPE FOR THE ACCESSIBLE IS 1:48. NO CURB RAMPS SHALL BE A PART OF THE ACCESSIBLE.
- IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY WITH THE DESIGNATION OF 1 VAN ACCESSIBLE IN EVERY 8 ACCESSIBLE SPACES ON SITE.

S. WEBSTER AVE. (80')
CONCRETE PAVEMENT (PUBLIC ROADWAY)

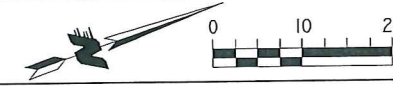
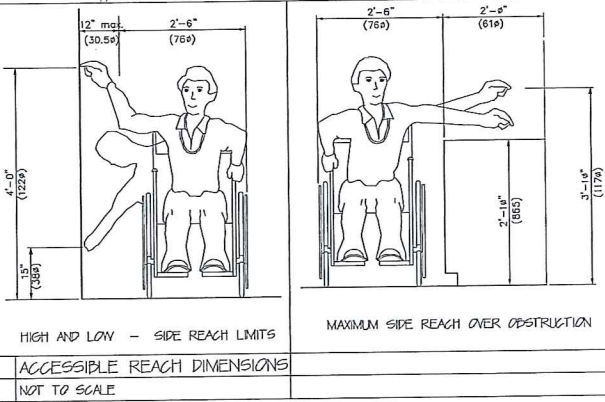


PLAN KEY/NOTES
ACCESSIBLE STALLS
A. STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY YELLOW PAINT.
SPACES PROVIDED
(1) 10'-0" x 10'-0" ACCESSIBLE PARKING WITH SPACES PROVIDED
(2) 8'-0" x 10'-0" LOADING ZONE
B. ACCESSIBLE FUELING POINT AND DISPENSER AND VALET.
VALET AND KEY PAD ON PUMP SHALL CONFORM TO ADA REACH DIMENSIONS AS SHOWN IN DETAIL SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY.

2. PAVEMENTS FLUSH FOR ACCESSIBILITY.
3. ACCESSIBLE ROUTE TO STORE.



NOTES FOR CONVENIENCE STORE ACCESSIBILITY
- AT LEAST 1 MULTIPLE 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" (48" 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 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.



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ACCESSIBLE PLAN

CONVENIENCE STORE

WEBSTER AVENUE
ALLOUEZ, WI

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1. COMPLY WITH THE WORK SAFETY PRACTICES SPECIFIED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS. OSHA PROHIBITS ENTRY INTO "CONFINED SPACES," SUCH AS MANHOLES AND INLETS (SEE 29 CFR SECTION 1910.146), WITHOUT UNDERTAKING CERTAIN SPECIFIC PRACTICES AND PROCEDURES. CONSTRUCTION SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR, WHO IS ALSO SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCING OF THE CONSTRUCTION OPERATIONS.
2. EXISTING BOUNDARY, LOCATION, TOPOGRAPHIC, AND UTILITY INFORMATION SHOWN ON THIS PLAN IS FROM A FIELD SURVEY BY REI ENGINEERING, INC. DATED SEPTEMBER 9TH, 2014.
3. PERFORM ALL UTILITY WORK IN ACCORDANCE WITH STATE AND CITY REQUIREMENTS.
4. CONNECT TO EXISTING SANITARY SEWER MH'S BY COREDRILLING. CONNECT TO EXISTING STORM SEWER MH'S BY EITHER SAWCUTTING OR COREDRILLING. USE SAWS OR DRILLS THAT PROVIDE WATER TO THE BLADE. MEET ALL CITY STANDARDS AND SPECIFICATIONS FOR THE CONNECTION. RECONSTRUCT INVERTS AFTER INSTALLATION. USE WATER STOP GASKETS IN ORDER TO PROVIDE WATERTIGHT SEALS WHEN PENETRATING A STRUCTURE WALL WITH A PIPE. TAKE MEASUREMENTS BEFORE BEGINNING CONSTRUCTION TO ENSURE THAT SERVICE CONNECTIONS DO NOT CUT INTO MAINTENANCE ACCESS STRUCTURE JOINTS OR PIPE BARREL JOINTS.
5. PERFORM TRENCH EXCAVATIONS FOR ALL UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF O.S.H.A. 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES." (www.osha.gov)
6. COORDINATE BUILDING UTILITY CONNECTION LOCATIONS AT 5 FT. OUT FROM THE PROPOSED BUILDING WITH THE INTERIOR PLUMBING CONTRACTOR PRIOR TO CONSTRUCTION. VERIFY WATER AND SEWER SERVICE LOCATIONS AND ELEVATIONS WITH THE MECHANICAL ENGINEER PRIOR TO CONSTRUCTION.
7. THE SUBSURFACE UTILITY INFORMATION SHOWN ON THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASSE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
8. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE FROM RECORD INFORMATION. THE ENGINEER DOES NOT GUARANTEE THAT ALL EXISTING UTILITIES ARE SHOWN OR, IF SHOWN, EXIST IN THE LOCATIONS INDICATED ON THE PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE FINAL VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES (INCLUDING WATER AND SEWER LINES AND APPURTENANCES). NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

- 1-800-242-8511 ELSEWHERE IN WISCONSIN FOR EXACT LOCATIONS OF EXISTING UTILITIES AT LEAST 72 HOURS (NOT INCLUDING WEEKENDS AND HOLIDAYS) BEFORE BEGINNING ANY CONSTRUCTION. OBTAIN TICKET NUMBER AND MEET WITH REPRESENTATIVES OF THE VARIOUS UTILITIES AT THE SITE. PROVIDE THE OWNER WITH THE TICKET NUMBER INFORMATION. DIGGER'S HOTLINE IS A FREE SERVICE THAT LOCATES MUNICIPAL AND UTILITY COMPANY LINES, BUT DOES NOT LOCATE PRIVATE UTILITY LINES. USE AN INDEPENDENT LOCATOR SERVICE OR OTHER MEANS IN ORDER TO OBTAIN LOCATIONS OF PRIVATE UTILITY LINES INCLUDING, BUT NOT LIMITED TO, UNDERGROUND ELECTRIC CABLES, TELEPHONE, TV, AND LAWN SPRINKLER LINES.
10. POTHOLE TO VERIFY THE POSITIONS OF EXISTING UNDERGROUND FACILITIES AT A SUFFICIENT NUMBER OF LOCATIONS IN ORDER TO ASSURE THAT NO CONFLICT WITH THE PROPOSED WORK EXISTS AND THAT SUFFICIENT CLEARANCE IS AVAILABLE.
11. WHERE EXISTING GAS, ELECTRIC, CABLE, OR TELEPHONE UTILITIES CONFLICT WITH THE WORK, COORDINATE THE ABANDONMENT, RELOCATION, OFFSET, OR SUPPORT OF THE EXISTING UTILITIES WITH THE APPROPRIATE LOCAL UTILITY COMPANIES. COORDINATE NEW GAS METER AND GAS LINE INSTALLATION, ELECTRIC METER AND ELECTRIC SERVICE INSTALLATION, CABLE SERVICE, AND TELEPHONE SERVICE INSTALLATION WITH THE LOCAL UTILITY COMPANIES.
12. ARRANGE FOR AND SECURE SUITABLE DISPOSAL AREAS OFF-SITE. DISPOSE OF ALL EXCESS SOIL, WASTE MATERIAL, DEBRIS, AND ALL MATERIALS NOT DESIGNATED FOR SALVAGE. WASTE MATERIAL AND DEBRIS INCLUDES TREES, STUMPS, PIER, 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.

16. RESTORE THE PUBLIC RIGHT-OF-WAY. REPLACE ANY CONCRETE CURB AND GUTTER, BITUMINOUS PAVEMENT, SIDEWALK, OR VEGETATIVE COVER DAMAGED BY THE CONSTRUCTION ACTIVITY. RESTORE DAMAGED TURF WITH SOD WITHIN THE PUBLIC RIGHT-OF-WAY. THE WORK AREA SHOWN IS GENERAL AND MAY NEED TO BE ADJUSTED IN THE FIELD.

- THE SLURRY PRODUCED BY THIS PROCESS TO BE TRACKED OUTSIDE OF THE IMMEDIATE WORK AREA OR DISCHARGED INTO THE SEWER SYSTEM.
18. ADJUST ALL CURB STOPS, VALVE BOXES, MAINTENANCE HOLE CASTINGS, CATCHBASIN CASTINGS, CLEANOUT COVERS, AND SIMILAR ITEMS TO FINISHED GRADE.
19. INSTALL ALL PIPE WITH THE ASTM IDENTIFICATION NUMBERS ON THE TOP FOR INSPECTION. COMMENCE PIPE LAYING AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. LAY THE PIPE WITH THE BALL END OR RECEIVING GROOVE END OF THE PIPE POINTING UPGRADE. WHEN CONNECTING TO AN EXISTING PIPE, UNCOVER THE EXISTING PIPE IN ORDER TO ALLOW ANY ADJUSTMENTS IN THE PROPOSED LINE AND GRADE BEFORE LAYING ANY PIPE.
20. OBTAIN AND PAY FOR ALL PERMITS, TESTS, INSPECTIONS, ETC. REQUIRED BY AGENCIES THAT HAVE JURISDICTION OVER THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL BONDS, LETTERS OF CREDIT, OR CASH SURETIES RELATED TO THE WORK. EXECUTE AND INSPECT WORK IN ACCORDANCE WITH ALL LOCAL AND STATE CODES, RULES, ORDINANCES, OR REGULATIONS PERTAINING TO THE PARTICULAR TYPE OF WORK INVOLVED.
21. OBTAIN PERMITS FROM THE CITY FOR WORK IN THE PUBLIC RIGHT-OF-WAY.
22. CONSTRUCT SANITARY SEWER, WATERMAIN, AND STORM SEWER UTILITIES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION, OR THE LATEST REVISED EDITION.
23. TRACER WIRE: LOCATING REQUIREMENTS - A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORD WITH THE PROVISIONS OF THESE CODE SECTIONS AS PER 182.0715(2a) OF THE STATUTES.

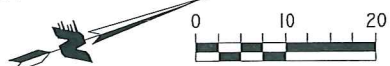
1. DRY UTILITY ROUTING SHOWN IS APPROXIMATE. COORDINATE WITH LOCAL UTILITY.
2. INSTALL INSULATION OVER WATER PIPE AT CROSSING.
3. INSTALL 4" SANITARY SERVICE LATERAL @ 1.00% MINIMUM. HORIZONTAL LENGTHS FROM EXISTING CONNECTION POINT TO PLUG: 28 LF.
4. INSTALL 27 LF OF 2" WATER SERVICE LATERAL.
5. SANITARY SEWER & WATER SERVICE TRENCH.
6. CONNECT TO EXISTING UTILITY STUBS. FIELD VERIFY LOCATION AND DEPTH. MAINTAIN A MINIMUM 3' SEPARATION BETWEEN WATER AND SANITARY SEWER SERVICES.

1. BRING ALL SITE UTILITIES TO 5' OUTSIDE OF THE BUILDING LINE WITH THE EXCEPTION OF THE WATER SERVICE. EXTEND WATER SERVICE INTO THE BUILDING AND UP TO THE FLANGE FOR THE WATER METER.
2. SEPARATION OF WATER AND SEWER: PROVIDE HORIZONTAL AND VERTICAL SEPARATIONS AS REQUIRED BY CODE. SEE DETAIL.
3. WATERMAIN DEPTH: MAINTAIN 7.5 FEET OF COVER OVER THE TOP OF THE WATER LINES TO THE FINISHED GRADE. VERIFY ELEVATION OF PROPOSED AND EXISTING WATER LINES AT ALL UTILITY CROSSINGS. INSTALL THE WATER LINES AT GREATER DEPTHS IN ORDER TO CLEAR STORM SEWERS, SANITARY SEWERS, OR OTHER UTILITIES AS REQUIRED. INCLUDE COSTS TO LOWER WATER LINES IN THE BASE BID.
4. DISINFECTION: DISINFECT ALL COMPLETED WATERMANS IN ACCORDANCE WITH AWWA STANDARD C651. IF THE TABLET OR CONTINUOUS FEED METHODS ARE USED, DISINFECT USING WITH WATER THAT CONTAINS AT LEAST 50 FPM OF AVAILABLE CHLORINE. DO NOT USE THE TABLET METHOD ON SOLVENT-WELDED PLASTIC OR ON SCREWED-JOINT STEEL PIPE BECAUSE OF THE DANGER OF FIRE OR EXPLOSION FROM THE REACTION OF THE JOINT COMPOUNDS WITH THE CALCIUM HYPOCHLORITE. RETAIN THE TREATED WATER IN THE PIPELINE FOR AT LEAST 24 HOURS. MEASURE THE CHLORINE RESIDUAL AT THE END OF THE 24 HOUR PERIOD. THE FREE CHLORINE RESIDUAL MUST BE AT LEAST 10 MG/L MEASURED AT ANY POINT IN THE LINE. MEASUREMENT OF THE CHLORINE CONCENTRATION AT REGULAR INTERVALS SHALL BE IN ACCORDANCE WITH STANDARD METHODS, AWWA M-12, OR USING APPROPRIATE CHLORINE TEST KITS.
5. TESTING: PRESSURE TEST AND PERFORM BACTERIOLOGICAL TESTS ON ALL WATER LINES UNDER THE SUPERVISION OF THE CITY PUBLIC WORKS DEPARTMENT. NOTIFY THE CITY AT LEAST 24 WORKING HOURS PRIOR TO ANY TESTING. PRESSURIZE THE WATERLINE TO 1034-KPA (150-PSI) GAUGE PRESSURE (MEASURED AT THE POINT OF LOWEST ELEVATION) BY MEANS OF A PUMP CONNECTED TO THE PIPE IN A SATISFACTORY MANNER. MAINTAIN THE TEST PRESSURE FOR A MINIMUM OF 2 HOURS. DO NOT ADD WATER TO THE WATERMAIN IN ORDER TO MAINTAIN THE REQUIRED PRESSURE DURING THE WATER MAIN PRESSURE TESTING. THE TEST SECTION OF PIPE IS ACCEPTABLE WITH A PRESSURE DROP OF 14 KPA (2 PSI) OR LESS.
6. USE MUELLER H 10300 OR FORD EH 2 7057, OR APPROVED EQUAL, AT ALL CURB STOP LOCATIONS. STATIONARY ROD IS REQUIRED ON ALL CURB STOPS.
7. POLYVINYL CHLORIDE (PVC) BUILDING WATER SERVICES: ASTM D2241 OR ASTM D1785; PRESSURE RATED FOR WATER.
8. TRACER WIRE: LOCATING REQUIREMENTS - A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORD WITH THE PROVISIONS OF THE WISCONSIN STATUTES 182.075(2r) AND THE WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PS 382.30(1)(X).

- ① - LOWER WATERMAIN TO PROVIDE 18" MINIMUM CLEARANCE BETWEEN SEWER AND WATER AT CROSSING.
- ② - 2" COPPER WATER SERVICE, OR APPROVED EQUAL.



1. PIPE: USE SOLID-CORE, SDR-35, ASTM D3034 (OR APPROVED EQUAL) POLYETHYLENE (PVC) PLASTIC PIPE FOR ALL DESIGNATED PVC SANITARY SEWER SERVICES. JOINTS FOR ALL SANITARY SEWER SHALL HAVE PUSH-ON JOINTS WITH ELASTOMERIC GASKETS. USE OF SOLVENT CEMENT JOINTS IS ALLOWED FOR BUILDING SERVICES. SOLVENT CEMENT JOINTS IN PVC PIPE MUST INCLUDE USE OF A PRIMER WHICH IS OF CONTRASTING COLOR TO THE PIPE AND CEMENT. PIPE WITH SOLVENT CEMENT JOINTS SHALL BE JOINED WITH PVC CEMENT CONFORMING TO ASTM D2564. LAY ALL PVC PIPE ON A CONTINUOUS GRANULAR BED. INSTALLATION MUST COMPLY WITH ASTM D2321.
2. CLEANOUTS: INSTALL CLEANOUTS ON ALL SANITARY SEWER SERVICES. THE DISTANCE BETWEEN CLEANOUTS IN HORIZONTAL PIPING SHALL NOT EXCEED 100 FEET FOR PIPES 4-INCH AND OVER IN SIZE. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPES THEY SERVE OR 6-INCH DIAMETER MINIMUM FOR PIPES 6 INCHES IN DIAMETER OR GREATER. INCLUDE FROST SLEEVES AND CONCRETE FRAME AND PIPE SUPPORT. INSTALL A METER BOX FRAME AND SOLID LID (NEENAH R-1914-A, OR APPROVED EQUAL) OVER ALL CLEANOUTS.
3. TESTING: PRESSURE TEST ALL SANITARY SEWER LINES. TEST ALL FLEXIBLE SANITARY SEWER LINES FOR DEFLECTION AFTER THE SEWER LINE HAS BEEN INSTALLED AND BACKFILL HAS BEEN IN PLACE FOR AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF THE TEST FAILS, MAKE NECESSARY REPAIRS AND RETEST.
4. UNLESS OTHERWISE INDICATED, USE REINFORCED, PRECAST, CONCRETE MAINTENANCE HOLES CONFORMING TO ASTM C478, FURNISHED WITH PRECAST BASES. SANITARY SEWER MAINTENANCE HOLES SHALL BE SUPPLIED WITH PRE-FORMED INVERTS AND FLEXIBLE NEOPRENE SLEEVE CONNECTIONS FOR ALL LATERAL LINES 375 MM (15 INCHES) IN DIAMETER OR LESS, UNLESS OTHERWISE INDICATED. JOINTS FOR ALL PRECAST MAINTENANCE HOLE SECTIONS SHALL HAVE COMPLETED, RUBBER "O"-RING GASKETS IN ACCORDANCE WITH ASTM C923. THE INSIDE BARREL DIAMETER SHALL NOT BE LESS THAN 48 INCHES.
5. INSTALL FLEXIBLE WATER/TIGHT 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-16162 CASTING WITH SELF-SEALING, SOLID, TYPE B LID, OR APPROVED EQUAL, ON ALL SANITARY SEWER MAINTENANCE HOLES. COVERS SHALL BEAR THE "SANITARY SEWER" LABEL.
7. THE MINIMUM DEPTH OF COVER FOR SANITARY SEWER WITHOUT INSULATION IS 5 FEET. INSULATE SANITARY SEWER SERVICES AT LOCATIONS WHERE THE DEPTH OF COVER IS LESS THAN 5 FEET. PROVIDE A MINIMUM INSULATION THICKNESS OF 2 INCHES. THE INSULATION MUST BE AT LEAST 6 FEET WIDE AND CENTERED ON THE PIPE. INSTALL THE INSULATION BOARDS 6 INCHES ABOVE THE TOPS OF THE PIPES ON MECHANICALLY COMPACTED AND LEVELLED FILL BEDDING MATERIAL. USE HIGH DENSITY, CLOSED CELL, RIGID BOARD MATERIAL EQUIVALENT TO DOW STYROFOAM HI-LO PLASTIC FOAM INSULATION.
8. TRACER WIRE: LOCATING REQUIREMENTS - A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORD WITH THE PROVISIONS OF THE WISCONSIN STATUTES 182.0175(2)(a) AND THE WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES 82.3001(h).

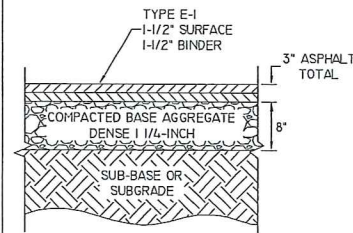


		
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<p>KWIK TRIP, Inc. P.O. BOX 2107 1626 OAK STREET LA CROSSE, WI 54602-2107 PH. (608) 781-8988 FAX (608) 781-8960</p>		
<div style="display: flex; align-items: center;">  <div> <p style="font-size: 2em; font-weight: bold; margin: 0;">REI</p> <p style="font-weight: bold; margin: 0;">CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING</p> <p style="font-weight: bold; margin: 0;">REI Engineering, Inc. 4080 N. 20TH AVENUE WAUSAU, WISCONSIN 54401 PHONE: 715.675.9784 FAX: 715.675.4060 EMAIL: MAIL@REIENGINEERING.COM</p> </div> </div>		

UTILITY PLAN	CONVENIENCE STORE	WEBSTER AVENUE ALLOUEZ, WI
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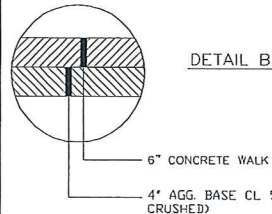
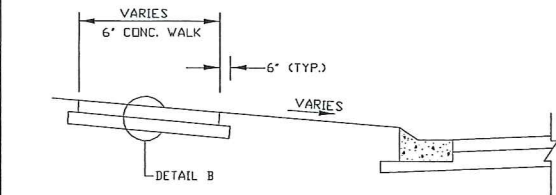
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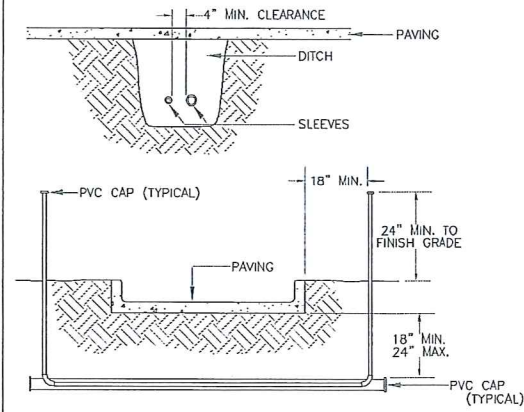
NOTE:
• BASE AGGREGATE TO EXTEND 12' BEYOND BACK OF CURB OR EDGE OF PAVEMENT.
• ASPHALT PATCHING WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE IN KIND WITH EXISTING AND TO THE SATISFACTION OF THE OWNER.

1 ASPHALT PAVEMENT DETAIL
SP5 NOT TO SCALE



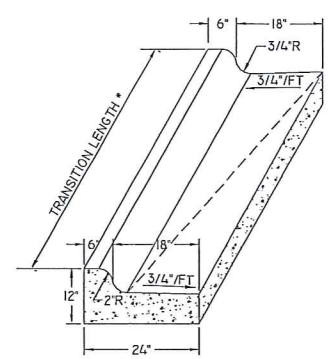
- NOTES:
1. 6" THICK CONCRETE SIDEWALK AT ALL DRIVEWAYS
 2. PLACE PEDESTRIAN CURB RAMPS AT ALL INTERSECTIONS.
 3. PROVIDE EXPANSION JOINT MATERIAL AT MAX. 60 FOOT SPACING.
 4. PROVIDE EXPANSION JOINT MATERIAL ALONG BOTH EDGES OF WALK, WHERE WALK IS CONTAINED BETWEEN FIXED OBJECTS.

2 CONCRETE WALK/ PAD DETAIL
SP5 NOT TO SCALE



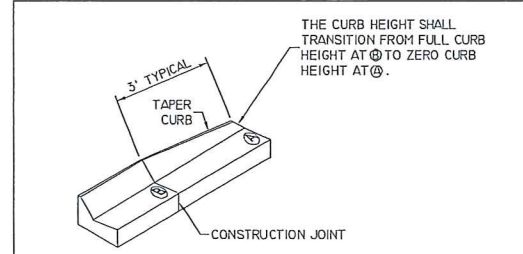
- NOTES:
1. ALL PVC IRRIGATION SLEEVES TO BE SCH 40 PVC PIPE.
 2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
 3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISH GRADE.
 4. MECHANICALLY TAMP TO 95% PROCTOR.

3 TYPICAL SLEEVING
SP5 NOT TO SCALE

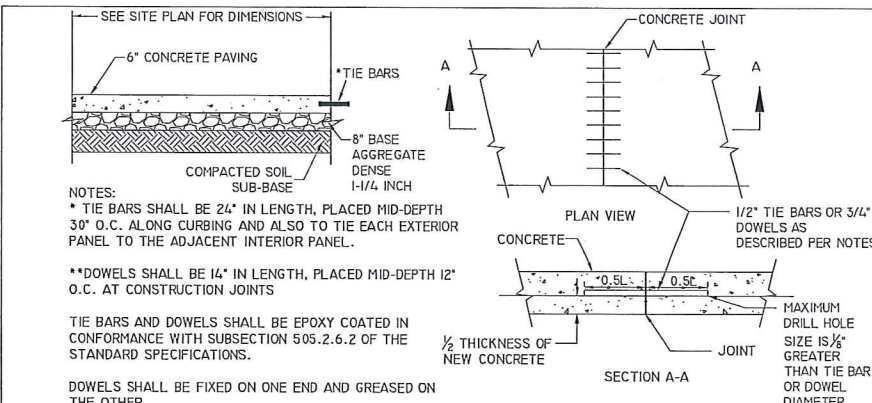


* TRANSITION LENGTH SHALL BE 12 LF ON TANGENTS GREATER THAN 18 LF, OR BETWEEN RADIUS POINTS ON TANGENTS LESS THAN 18 LF, OR BETWEEN RADIUS MID POINTS WHERE TANGENTS ARE LESS THAN 12 LF, OR ACROSS THE RADIUS/RADI WHERE TANGENTS ARE LESS THAN 2 LF.

4 TRANSITION CURB & GUTTER
SP5 NOT TO SCALE

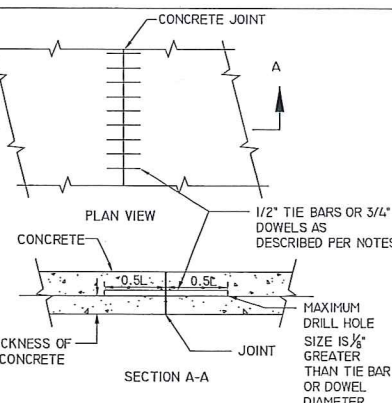


5 STD CURB & GUTTER TERMINI
SP5 NOT TO SCALE



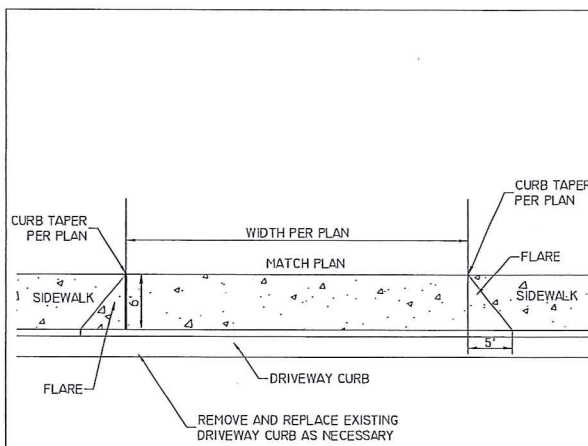
NOTES:
• TIE BARS SHALL BE 24" IN LENGTH, PLACED MID-DEPTH 30" O.C. ALONG CURBING AND ALSO TO TIE EACH EXTERIOR PANEL TO THE ADJACENT INTERIOR PANEL.
• DOWELS SHALL BE 14" IN LENGTH, PLACED MID-DEPTH 12" O.C. AT CONSTRUCTION JOINTS
TIE BARS AND DOWELS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.
DOWELS SHALL BE FIXED ON ONE END AND GREASED ON THE OTHER
CONCRETE PANELS SHALL NOT BE GREATER THAN 15' IN LENGTH IN ANY DIRECTION AND CONTRACTION JOINTS SHALL BE TO A MINIMUM DEPTH OF 1/2 THE CONCRETE DEPTH

6 CONCRETE PAVEMENT DETAIL
SP5 NOT TO SCALE

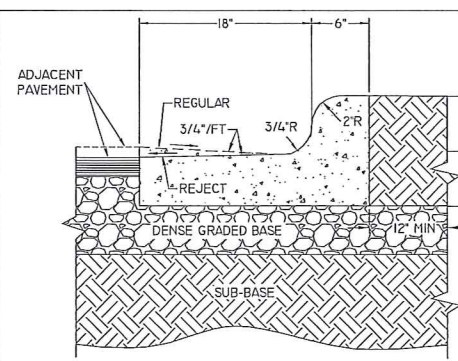


NOTES:
BASE AGGREGATE TO EXTEND 12' BEYOND BACK OF CURB OR EDGE OF PAVEMENT.
CONCRETE PAVEMENT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI AND AN AIR CONTENT OF 6% +/- 1.5%

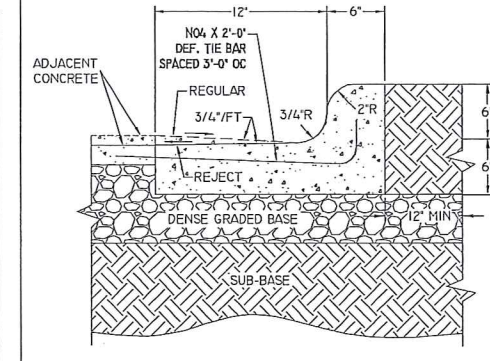
7 CONCRETE APPROACH DETAIL
SP5 NOT TO SCALE



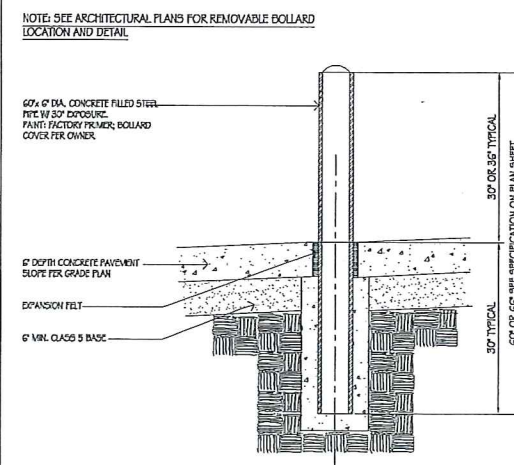
8 24" CURB & GUTTER / 30" REJECT CURB & GUTTER
SP5 NOT TO SCALE



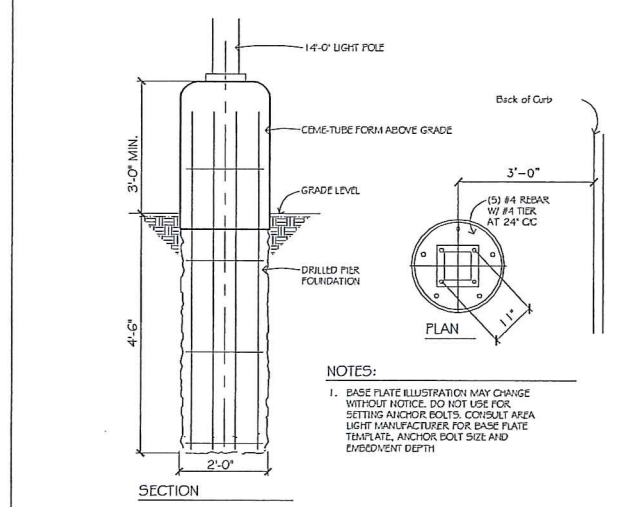
9 18" CURB & GUTTER / 18" REJECT CURB & GUTTER
SP5 NOT TO SCALE



10 6\"/>



10 6" PIPE BOLLARD
SP5 NOT TO SCALE



11 ROUND AREALIGHT FOUNDATION
SP5 NOT TO SCALE

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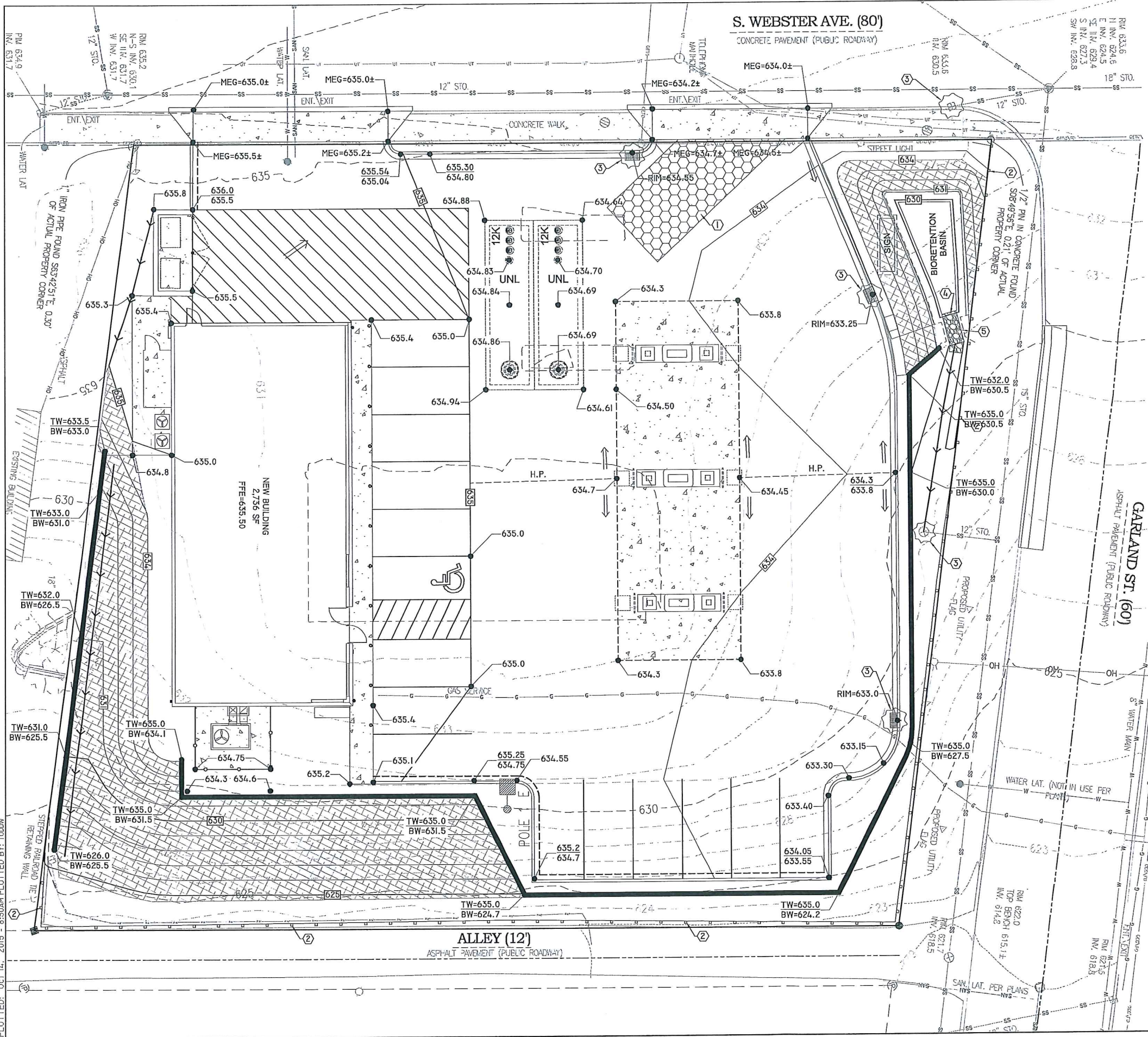
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SITE PLAN DETAILS
CONVENIENCE STORE
WEBSTER AVENUE
ALLOUEZ, WI

#	DATE	DESCRIPTION
1	XX/XX/XX	

DRAWN BY: NAP
SCALE: NOT TO SCALE
PROJ. NO.: 7076A
DATE: 10/14/15 - BID DOCS
SHEET: SP5

DRAWING FILE: P:\7000-7099\7076A Kwik Trip #174-ALLOUEZ\DWG\PLANS\7076A-SWP1-EC.DWG LAYOUT: SWP1
PLOTTED: OCT 14, 2015 - 8:50AM PLOTTED BY: TDDW



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 SODED. SEEDED AREAS MUST EXHIBIT MINIMUM OF 70% SOIL COVERAGE.

-REFER TO THE SWP PLAN NOTES AND DETAIL SHEETS SWP3 FOR MORE INFORMATION.

CONTACT BJORN BERG
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608-791-4343

PROJECT DATA

PROJECT START DATE	APRIL 2016
PROJECT COMPLETION DATE	APRIL 2017
SITE AREA DATA	
DISTURBED AREA	27,781 SF
PRE-CONSTRUCTION IMPERVIOUS AREA	21,693 SF
POST-CONSTRUCTION IMPERVIOUS AREA	19,723 SF
APPROX. AREA OF LAND DISTURBANCE	27,781 SF
SITE RUNOFF COEFFICIENT	93
PRE-CONSTRUCTION	92
POST-CONSTRUCTION	
SOIL DATA	
SURFACE SOIL	PAVED
SUB-SURFACE SOIL	SILTY LOAM
DEPTH OF GROUND WATER	AVG 12.5 FT
DOWN-STREAM TRIBUTARY	GREEN BAY

KEYED NOTES

- TEMPORARY ROCK CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL A/SWP3.
- INSTALL SILT FENCE. SEE DETAIL D/SWP3.
- PROVIDE INLET PROTECTION. REFER TO SWP2 FOR ACCEPTABLE PRODUCTS.
- INSTALL LIGHT RIPRAP ON TYPE R GEOTEXTILE FABRIC. SEE DETAIL B/SWP3.
- CONSTRUCT EMERGENCY OVERFLOW WEIR, WITH LIGHT RIPRAP ON TYPE R GEOTEXTILE FABRIC. SEE DETAIL 7 & 8/SP6.

INSTALL WISDOT URBAN TYPE B EROSION CONTROL BLANKET ON SIDE SLOPES OF 4:1 OR GREATER. SEE DETAIL E/SWP3 FOR INSTALLATION.

NOTES:

(A) CONTRACTOR SHALL ABIDE BY THE WDNR CONSERVATION PRACTICE STANDARDS FOR INSTALLATION AND MAINTENANCE OF EROSION CONTROL.

(B) CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AREAS ON-SITE. SEE DETAIL F/SWP3.

(C) DEWATERING BAGS SHALL BE READILY AVAILABLE AND SHALL BE USED AT ALL TIMES IN THE PROCESS OF DEWATERING.

ESTIMATED PRELIMINARY EROSION CONTROL QUANTITIES (ACTUAL QUANTITIES SUBJECT TO CHANGE)

ITEM	QUANTITY
ROCK CONSTRUCTION ENTRANCE	50 SQ.YD.
INLET PROTECTION	4
EROSION CONTROL BLANKET	365 SQ.YD.
RIP RAP	1.5 CU. YD.
SILT FENCE	350 L.F.
DITCH CHECK	AS NEEDED
BIO ROLL/EROSION LOG	AS NEEDED

NOTES:

1) FOR MAINTENANCE PURPOSES CONTRACTOR SHALL PROVIDE ALL SUFFICIENT QUANTITIES FOR REPAIR AND REPLACEMENT OF EROSION CONTROL DEVICES THROUGHOUT ALL PHASES OF THE PROJECTS CONSTRUCTION.

SUGGESTED CONSTRUCTION SEQUENCE

- PROVIDE CONSTRUCTION ACCESS
- INSTALL SILT FENCE
- INSTALL INLET PROTECTION ON EXISTING STORM STRUCTURES
- SITE REMOVALS AND TOPSOIL STRIPPING
- ROUGH GRADING
- INSTALL DIVERSIONS AT ENTRANCES
- CONSTRUCT BUILDING
- SITE UTILITY INSTALLATION
- INSTALL INLET PROTECTION ON NEW STORM STRUCTURES
- FINISH GRADING
- CONSTRUCT BASE COURSE AND PAVEMENT
- INSTALL LAWN LANDSCAPE
- FLUSH STORM SEWER
- REMOVE EROSION CONTROL MEASURES ONLY AFTER ALL PAVEMENTS HAVE BEEN INSTALLED AND ALL SOILS HAVE BEEN STABILIZED

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EROSION CONTROL PLAN

CONVENIENCE STORE

WEBSTER AVENUE
ALLOUEZ, WI

#	DATE	DESCRIPTION
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SCALE

PROJ. NO. 7076A

DATE 10/14/15 - BID DOCS

SHEET SWP1

DRAWING FILE: P:\17000-7099\0706A KWIK TRIP #17L-ALLOUEZ\DWG\PLANS\0706A-SWP2-4-EC-DETAILS.DWG LAYOUT: SWP2
PLOTTED: OCT 14, 2015 - 8:51AM PLOTTED BY: TODD

GENERAL STORMWATER POLLUTION PREVENTION:

APPLY FOR AND OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION ACTIVITY.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP): The SWPPP consists of this summary, Plan Sheets SWP1-4, and the Stormwater Management Plan. Keep a copy of the SWPPP, all changes to it, and inspections and maintenance records at the site during the construction. During the construction process the SWPPP will have to be amended for all changes performed by the contractor. The owner shall be aware of the amendments prior to changes made to the SWPPP plan. All notes, photographs, recorded dates, sketches, references, and diagrams will have to be recorded and made available as part of the SWPPP permit.

INDIVIDUAL(S) PREPARING THE SWPPP FOR THE PROJECT, OVERSEEING IMPLEMENTATION OF THE SWPPP, REVISING AND AMENDING THE SWPPP, AND AT LEAST ONE INDIVIDUAL ON THE PROJECT PERFORMING INSTALLATION, INSPECTION, MAINTENANCE, AND REPAIRS OF BMP'S MUST BE TRAINED. THE TRAINING MUST BE DONE BY A LOCAL, STATE, FEDERAL AGENCIES; PROFESSIONAL ORGANIZATION; OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, OR PERMANENT STORMWATER MANAGEMENT.

RESPONSIBLE PARTIES: THE CONTRACTOR MUST DESIGNATE A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMP'S WHO WILL OVERSEE THE IMPLEMENTATION OF THE SWPPP, AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S BEFORE AND DURING CONSTRUCTION.

THE OWNER IS RESPONSIBLE FOR IDENTIFYING WHO WILL HAVE RESPONSIBILITY FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEMS.

OWNER CONTACT:

NAME: BJORN BERG
COMPANY: KWIK TRIP INC.
ADDRESS: KWIK TRIP, INC. - STORE ENGINEERING
1626 OAK STREET, P.O. Box 2107
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SITE INVESTIGATION, INSTALLATION, IMPLEMENTATION :

- 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 SWPPP.
- INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE, ROCK CONSTRUCTION ENTRANCE(S), EROSION CONTROL BERM'S, ROCK FILTERS, INLET AND CULVERT PROTECTION, ROCK /EARTH BERRIS, 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.
- 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 SIMILAR PRODUCT. STRAW BALES OR FABRIC UNDER THE GRATES ARE NOT ACCEPTABLE FORMS OF INLET PROTECTION. PROTECT NEW STORM SEWER INLETS AS THEY ARE COMPLETED. MAINTAIN STORM SEWER INLET PROTECTION IN PLACE UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLETS ARE STABILIZED.
- BEFORE BEGINNING CONSTRUCTION, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES EXIT THE CONSTRUCTION SITE WHEN AT ALL POSSIBLE CONTRACTOR SHALL DESIGNATE ONLY ONE ACCESS POINT FOR VEHICLES ENTERING AND EXITING THE SITE. THE ROCK ON THE ENTRANCE WILL HAVE TO BE INSPECTED DAILY AND REPLACED OR ROCK SUPPLEMENTED BY THE CONTRACTOR WHEN OVER 50% OF THE VOIDS IN THE ROCK ARE FILLED. A CLEANING STATION SHOULD BE MADE AVAILABLE TO DRIVERS AND VISIBLY SIGNED AS SUCH. PROVIDE SHOVELS, BROOMS AND/OR HOSE WITH A WASH OUT AREA SO SOILS CAN BE REMOVED FROM VEHICLES ON SITE.
- AVOID ENTIRE REMOVAL OF TREES AND SURFACE VEGETATION ALL AT ONCE WHENEVER POSSIBLE AS THIS LIMITS THE AMOUNT OF SITE SUBSEQUENT TO EROSION. SCHEDULE CONSTRUCTION ZONES AND NOTE THIS ON THE SWPP PLAN IN ORDER TO EXPOSE THE SMALLEST PRACTICAL AREA OF SOIL AT ANY GIVEN TIME. UTILIZE VEGETATION REMOVED BY ON SITE GRINDING AND MULCHING AND USING THIS MATERIAL TO PROTECT THE SOIL FROM EROSION.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, COMPLETE PERMANENT OR TEMPORARY STABILIZATION AGAINST EROSION DUE TO RAIN, WIND, AND RUNNING WATER WITHIN 7 CALENDAR DAYS ON ALL DISTURBED OR GRADED AREAS. THIS REQUIREMENT DOES NOT APPLY TO THOSE AREAS THAT ARE CURRENTLY BEING USED FOR MATERIAL STORAGE ON A DAILY BASIS OR FOR THOSE AREAS ON WHICH GRADING, SITE BUILDING, OR OTHER CONSTRUCTION ACTIVITIES ARE ACTIVELY UNDERWAY. PROVIDE TEMPORARY COVER ON ALL STACKED TOPSOIL PILES, AND OTHER AREAS OF STOCKPILED EXCAVATED MATERIAL IN ORDER TO PREVENT SOIL EROSION AND RAPID RUNOFF DURING THE CONSTRUCTION PERIOD. STOCKPILES CAN BE MULCHED, COVERED WITH POLY OR FABRIC, AND OR SEEDED DURING PROLONGED EXPOSURE. PROLONGED PERIODS OF OPEN, BARE EARTH WITHOUT GRASS COVER WILL NOT BE PERMITTED. STABILIZE ALL DISTURBED GREENSPACE AREAS WITH A MINIMUM OF 4" TOPSOIL IMMEDIATELY AFTER FINAL SUBGRADE COMPLETION. SEED AND MULCH, OR SOD AND PROTECT THESE AREAS WITHIN 48 HOURS AFTER COMPLETION OF FINAL GRADING WORK (WEATHER PERMITTING). STABILIZE ALL DISTURBED AREAS TO BE PAVED USING EARLY APPLICATION OF GRAVEL BASE. STABILIZE THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT CONVEYS WATER FROM THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE CONSTRUCTION SITE, WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR WITHIN 200 FEET FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER. STABILIZE TEMPORARY OR PERMANENT DRAINAGE DITCHES WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER. PROTECT OUTFALLS MINIMUM OF 200 FEET DOWN STREAM AND TO THE SIDE OF THE DISCHARGE POINT. ADDITIONAL SETTLING "POTS" ACHIEVED BY FILTER LOGS OR FILTERED STICK BALES STAKED IN THE CHANNEL WILL DISSIPATE THE WATER ENERGY. PROVIDE PIPE OUTLETS WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER.
- RECEIVING WATERS - IT IS THE 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:

- DESIGNATE A CONCRETE WASH-OUT AND TRUCK WASH AREA:
MAKE IT VISIBLE IN THE FIELD TO VEHICLE OPERATORS AND NOTE THIS ON THE SWPP PLAN.

A. WHEN WASHOUTS OCCUR ON THE SITE, CONCRETE WASHOUT WATER MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. LIQUID AND SOLID WASTES MAY NOT TOUCH THE GROUND AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS.

B. ON SITES WHERE CONCRETE WASHOUT AREAS ARE NOT FEASIBLE AS SHOWN ON THE DETAIL SHEET, ABOVE GROUND METHODS AND/OR OFF-SITE METHODS CAN BE UTILIZED AS APPROVED BY OWNER.

C. CONCRETE WASHOUT MAY BE PROVIDED OFF-SITE BY CONCRETE CONTRACTOR OR CONCRETE SUPPLIER, AT AN APPROVED WASHOUT DISPOSAL AREA. CONCRETE SUPPLIER MAY PROVIDE CONCRETE WASHOUT AREAS ON-BOARD THEIR TRANSPORTS FOR DISPOSAL OFF-SITE. CONCRETE CONTRACTOR SHALL VERIFY WITH SUPPLIER IN REGARDS TO PROVIDED CONCRETE WASHOUT AREAS ON AND OFF-SITE, AS NECESSARY.

D. LIMIT EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES TO A DEFINED AREA PREFERABLY BEFORE THE CONSTRUCTION ACCESS/EXIT POINT. WASH VEHICLES ONLY ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. CONTAIN RUNOFF AND PROPERLY DISPOSE OF WASTE. ENGINE DEGREASING IS PROHIBITED.
- SOLID WASTE:** PROPERLY DISPOSE OF COLLECTED SEDIMENT, ASPHALT AND CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DEMOLITION DEBRIS, AND OTHER WASTES IN COMPLIANCE WITH STATE REQUIREMENTS.
- HAZARDOUS MATERIALS:** PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE DEBRIS, CLEANING WASTES, OIL, GASOLINE, PAINT, WASTEWATER, TOXIC MATERIALS, AND HAZARDOUS MATERIALS) OFF-SITE. DO NOT ALLOW WASTE AND UNUSED BUILDING MATERIALS TO BE CARRIED BY RUNOFF INTO A RECEIVING CHANNEL OR STORM SEWER SYSTEM. PROPERLY STORE OIL, GASOLINE, PAINT, AND OTHER HAZARDOUS MATERIALS IN ORDER TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGE. INCLUDE SECONDARY CONTAINMENT. RESTRICT ACCESS TO STORAGE AREAS IN ORDER TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS MATERIALS MUST BE IN COMPLIANCE WITH REGULATIONS.
- MACHINERY:** AND 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.
- EMERGENCY SPILL STATION:** CONTRACTOR SHALL LOCATE AND SIGN AN EMERGENCY SPILL STATION THAT HAS NECESSARY CONTAINMENT OR CLEANUP DEVICES FOR ALL WORKERS TO ACCESS.

EROSION CONTROL :

APPLY NECESSARY MOISTURE TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.

CONTRACTOR SHALL UTILIZE COARSELY GROUND WOOD AND TREE MULCHES TO COVER EXPOSED SOILS. MULCHES SHALL BE SPORED ON SITE TO SUPPLEMENT AND USE IN PROBLEM AREAS DURING ALL PHASES OF THE CONSTRUCTION PROJECT.

CONTRACTOR SHALL USE STAR TACK OR OTHER ORGANIC SUBSTANCES IN SITUATIONS TO PREVENT SOIL FROM ERODING AWAY BY WIND OR RAIN.

WHENEVER POSSIBLE CONTRACTOR SHALL GRADE AREAS OF SOIL TO LIMIT POTENTIAL OF EROSION, TO INCLUDE TRACKING PERPENDICULAR TO FALL LINE OF GRADES AS WELL AS DIVERTING WATER FLOWS FROM PROBLEMATIC AREAS ON THE SITE.

SEEDING, FIBER BLANKETS, POLY/TARPS OR COVER MULCHES, DISKED MULCHES AND COMPOST CAN BE USED TO COVER TEMPORARILY EXPOSED AREAS FROM WIND AND RAIN. OTHER METHODS BY THE CONTRACTOR SHALL BE DOCUMENTED IN THE SWPPP.

SEDIMENT CONTROL:

INLET SEDIMENT CONTROL PROTECTION DEVICES:
THE FOLLOWING ARE APPROVED INLET SEDIMENT CONTROL DEVICES:

- 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 MEENAH 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
- SILT SACK MANUFACTURED BY ACF ENVIRONMENTAL, 2831 CARDWELL ROAD, RICHMOND, VA, 23234, PHONE (800) 448-3636. OR APPROVED EQUAL
- 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) 462-2150. 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, 55301, PHONE (320) 253-3744. OR APPROVED EQUAL
- INFLATABLE DRAIN PLUGS BY INTERSTATE PRODUCTS WWW.INTERSTATEPRODUCTS.COM OR APPROVED EQUAL

RIPRAP:

PLACE A 450 MM (18 INCH) THICK LAYER OF RIPRAP ONTO A 225 MM (9 INCH) THICK LAYER OF GRANULAR FILTER MATERIAL AT LOCATIONS INDICATED ON THE PLAN IN ACCORDANCE WITH WISDOT SPECIFICATION 606. INSTALL TWO LAYERS OF MEDIUM DUTY GEOTEXTILE FABRIC (WIDOT HR SECTION 64.5.3.7) 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 AROUND A MINIMUM OF 3 FEET. FOR PIPE SIZES SMALLER THAN 300 MM (12 INCH) DIAMETER, THE MINIMUM QUANTITY OF RIPRAP AND FILTER BLANKET SHALL BE NO LESS THAN THAT REQUIRED FOR 300 MM (12 INCH) DIAMETER PIPES.

SILT FENCE:

INSTALL AND MAINTAIN PER WIDNR CONSERVATION PRACTICE STANDARD 1056.

INSTALL SILT FENCE ALONG THE CONTOUR (ON A LEVEL HORIZONTAL PLANE) WITH THE ENDS TURNED UP (J-HOOKS) IN ORDER TO HELP HOLD WATER BEHIND THE FENCE. INSTALL THE SILT FENCE ON THE UPHILL SIDE OF THE SUPPORT POSTS. PROVIDE A POST SPACING OF 1.2 M (4 FEET) OR LESS. DRIVE POSTS AT LEAST 0.6 M (2 FEET) INTO THE GROUND. ANCHOR THE SILT FENCE FABRIC IN A TRENCH AT LEAST 152 MM (6 INCHES) DEEP AND 152 MM (6 INCHES) WIDE DUG ON THE UPSLOPE SIDE OF THE SUPPORT POSTS. LAY THE FABRIC IN THE TRENCH AND THEN BACKFILL AND COMPACT WITH A VIBRATORY PLATE COMPACTOR. MAKE ANY SPLICES IN THE FABRIC AT A FENCE POST. AT SPLICES, OVERLAP THE FABRIC AT LEAST 152 MM (6 INCHES), FOLD IT OVER, AND SECURELY FASTEN IT TO THE FENCE POST. SILT FENCE SUPPORTING POSTS SHALL BE 51 MM (2 INCH) SQUARE OR LARGER HARDWOOD, PINE, OR STANDARD T- OR U-SECTION STEEL POSTS. T- OR U-SECTION STEEL POSTS SHALL WEIGH NOT LESS THAN 1.8602 KG PER METER (1.25 LB PER LINEAL FOOT). POSTS SHALL HAVE A MINIMUM LENGTH OF 1524 MM (5 FEET). POSTS SHALL HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC AND PREVENT SLIPPAGE. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF WIDOT STANDARD SPECIFICATION 028 FOR PREASSEMBLED SILT FENCE, FURNISHED IN A CONTINUOUS ROLL IN ORDER TO AVOID SPLICES. GEOTEXTILE FABRIC SHALL BE UNIFORM IN TEXTURE AND APPEARANCE AND HAVE NO DEFECTS, FLAWS, OR TEARS. THE FABRIC SHALL CONTAIN SUFFICIENT ULTRAVIOLET (UV) RAY INHIBITOR AND STABILIZERS TO PROVIDE A MINIMUM TWO-YEAR SERVICE LIFE OUTDOORS. FABRIC COLOR SHALL BE INTERNATIONAL ORANGE. IN HIGH TRAFFIC AREAS CONTRACTOR SHALL REINFORCE SILT FENCE WITH WIRE FENCING AND METAL POSTS. EXTREME CIRCUMSTANCES WILL REQUIRE TEMPORARY CONCRETE MEDIAN SECTIONS TO SUPPORT MATERIAL BACKING OF STOCK PILED SOIL OR FILLED EARTH.

INSTALL SILTFENCE, OR OTHER EFFECTIVE SEDIMENT CONTROLS, AROUND ALL TEMPORARY SOIL STOCKPILES. LOCATE SOIL OR DIRT STOCKPILES CONTAINING MORE THAN 10 CUBIC YARDS OF MATERIAL SUCH THAT THE DOWNSLOPE DRAINAGE LENGTH IS NO LESS THAN 8 M (25 FEET) FROM THE TOE OF THE PILE TO A ROADWAY OR DRAINAGE CHANNEL. IF REMAINING FOR MORE THAN SEVEN DAYS, STABILIZE THE STOCKPILES BY MULCHING, VEGETATIVE COVER, TARPS, OR OTHER MEANS. CONTROL EROSION FROM ALL STOCKPILES BY PLACING SILT FENCE BARRIERS AROUND THE PILES. DURING STREET REPAIR, COVER CONSTRUCTION SOIL OR DIRT STOCKPILES LOCATED CLOSER THAN 8 M (25 FEET) TO A ROADWAY OR DRAINAGE CHANNEL WITH TARPS, AND PROTECT STORM SEWER INLETS WITH SILT SACKS OR STAKED SILTFENCE. DO NOT STOCK PILE SOIL OR MATERIAL NEAR CATCH BASINS OR DRAINAGE WAYS.

STONE TRACKING PAD (TEMPORARY ROCK CONSTRUCTION ENTRANCE:

INSTALL AND MAINTAIN PER WIDNR CONSERVATION PRACTICE STANDARD 1057. USE 3/4 INCH TO 6" DIAMETER ROCK. PLACE THE AGGREGATE IN A LAYER AT LEAST 300 MM (12 INCHES) THICK ACROSS THE ENTIRE WIDTH OF THE ENTRANCE. EXTEND THE ROCK ENTRANCE AT LEAST 15 M (50 FEET) INTO THE CONSTRUCTION ZONE. USE A WIDOT TYPE R PERMEABLE GEOTEXTILE FABRIC MATERIAL BENEATH THE AGGREGATE IN ORDER TO PREVENT MIGRATION OF SOIL INTO THE ROCK FROM BELOW. MAINTAIN THE ENTRANCE IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED ROADWAYS. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS REQUIRED. CLOSE ENTRANCES NOT PROTECTED BY TEMPORARY ROCK CONSTRUCTION ENTRANCES TO ALL CONSTRUCTION TRAFFIC.

TEMPORARY SEDIMENT BASINS

IN THE CONSTRUCTION PROCESS OR IF NOTED ON THE PLAN THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASIN(S). AS PER GENERAL RULE THE SEDIMENT BASIN SHALL BE SIZED APPROPRIATELY TO A CAPACITY RELATED TO THE DRAINAGE AREA ON A RATIO OF 3,600 CUBIC FEET PER ACRE OF DRAINAGE ZONE ENTERING THE BASIN. BASINS SHALL BE INSPECTED AFTER EVERY RAINFALL EVENT, MATERIAL REMOVED AND STABILIZED. IF CHANGES TO THE BASIN ARE MADE, DOCUMENT AND AMEND THE SWPP PLAN.

DEWATERING:

IF DEWATERING IS REQUIRED AND SUMP PUMPS ARE USED, ALL PUMPED WATER MUST BE DISCHARGED THROUGH AN EROSION CONTROL FACILITY (TEMPORARY SEDIMENTATION BASIN, GRIT CHAMBER, SAND FILTER, UPFLOW CHAMBER, HYDRO-CYCLONE, SWIRL CONCENTRATOR, DEWATERING BAG OR OTHER APPROPRIATE FACILITY) PRIOR TO LEAVING THE CONSTRUCTION SITE. PROPER ENERGY DISSIPATION MUST BE PROVIDED AT THE OUTLET OF THE PUMP SYSTEM. DISCHARGE CLEAR WATER ONLY. TO ACHIEVE BETTER SEPARATION OF THE MATERIAL SUSPENDED IN THE WATER A BIODEGRADABLE NON TOXIC FLOCCULANT AGENT MAY BE REQUIRED.

FOR MORE INFORMATION AND MATERIALS GO TO BY INTERSTATE PRODUCTS WWW.INTERSTATEPRODUCTS.COM

INSPECTIONS-MAINTENANCE-DAILY RECORD-AMEND THE SWPP PLAN

- CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES, STABILIZED AREAS, AND INFILTRATION AREAS ON A DAILY BASIS UNTIL LAND-DISTURBING ACTIVITY HAS CEASED. THEREAFTER, INSPECT AT LEAST ON A WEEKLY BASIS UNTIL VEGETATIVE COVER IS ESTABLISHED. INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES, STABILIZED AREAS, AND INFILTRATION AREAS WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. REMOVE ACCUMULATED SEDIMENT DEPOSITS FROM BEHIND EROSION AND SEDIMENT CONTROL DEVICES AS NEEDED. DO NOT ALLOW SEDIMENT TO ACCUMULATE TO A DEPTH OF MORE THAN ONE-THIRD OF THE HEIGHT OF THE EROSION AND SEDIMENT CONTROL DEVICES. IMMEDIATELY REPLACE DETERIORATED, DAMAGED, ROTTED, OR MISSING EROSION CONTROL DEVICES. DOCUMENT INSPECTIONS AND DATES OF RAINFALL EVENTS. MAINTAIN A WRITTEN LOG OF ALL INSPECTION, MAINTENANCE, AND REPAIR ACTIVITIES RELATED TO EROSION AND SEDIMENT CONTROL FACILITIES. ALL NONFUNCTIONAL BMP'S MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMP'S WITHIN 24 HOURS AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- ALL INSPECTIONS AND MAINTENANCE ACTIVITIES MUST BE RECORDED IN WRITING DAILY IN A DETAILED RECORD (NOTES, PHOTOGRAPHS, SKETCHES, ETC, AND KEPT WITH THE SWPPP BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO ADJACENT PROPERTY, PAVEMENT AREAS, SIDEWALKS, STREETS, AND ALLEYS. REMOVAL SHALL BE ON A DAILY BASIS THROUGHOUT THE DURATION OF THE CONSTRUCTION AND/OR AS DIRECTED BY THE CITY. CLEAN PAVED ROADWAYS BY SHOVELING OR WET-SWEEPING. DO NOT DRY SWEEP. IF NECESSARY, SCRAPE PAVED SURFACES IN ORDER TO LOOSEN COMPACTED SEDIMENT MATERIAL PRIOR TO SWEEPING. HAUL SEDIMENT MATERIAL TO A SUITABLE DISPOSAL AREA. STREET WASHING IS ALLOWED ONLY AFTER SEDIMENT HAS BEEN REMOVED BY SHOVELING OR SWEEPING.
- ALL SOIL HAULED FROM THE SITE SHALL BE ACCOUNTED FOR AND DOCUMENTED IN THE SWPP BY THE CONTRACTOR. ITS FINAL DESTINATION AND HOW THE SOIL HAS BEEN STORED AND STABILIZED.
- CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED (HARD-SURFACED AREAS PAVED AND VEGETATION ESTABLISHED IN GREENSPACE). REPAIR ANY RILLING, GULLY FORMATION, OR WASHOUTS. AFTER FINAL ESTABLISHMENT OF PERMANENT STABILIZATION, REMOVE ALL TEMPORARY SYNTHETIC, STRUCTURAL, AND NONBIODEGRADABLE EROSION AND SEDIMENT CONTROL DEVICES AND ANY ACCUMULATED SEDIMENTS. DISPOSE-OF OFF SITE. RESTORE PERMANENT SEDIMENTATION BASINS TO THEIR DESIGN CONDITION IMMEDIATELY FOLLOWING STABILIZATION OF THE SITE.
- CONTRACTOR SHALL CLEAN SEDIMENTATION BASINS, STORM SEWER CATCHBASINS, DITCHES, AND OTHER DRAINAGE FACILITIES AS REQUIRED IN ORDER TO MAINTAIN THEIR EFFECTIVENESS. TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 OF THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- CONTRACTOR SHALL INSPECT INFILTRATION AREAS TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITIES IS ACCUMULATING. REMOVE SEDIMENT IMMEDIATELY ENSURING SUBSOIL'S ARE NOT COMPACTED BY MACHINERY.
- EVERY VEHICLE SHALL NOT TRACK MATERIAL OFF-SITE. CLEAN THE WHEELS OF CONSTRUCTION VEHICLES IN ORDER TO REMOVE SOILS BEFORE THE VEHICLES LEAVE THE CONSTRUCTION SITE. WASH VEHICLES ONLY ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- CONTRACTOR SHALL REINFORCE EROSION CONTROL FACILITIES IN AREAS WHERE CONCENTRATED FLOWS OCCUR (SUCH AS SWALES, DITCHES, AND AREAS IN FRONT OF CULVERTS AND CATCHBASINS) BY BACKING THEM WITH ROCK BAGS, 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 (4-INCH) DIAMETER WOOD POSTS, OR STANDARD STEEL FENCE POSTS WEIGHING NOT LESS THAN (1.3 LBS) PER LINEAL FOOT, WITH A MINIMUM LENGTH OF (30 INCHES) PLUS BURIAL DEPTH. SPACE POSTS FOR THE REINFORCING FENCE AT INTERVALS OF (10 FEET) OR LESS. DRIVE POSTS FOR THE REINFORCING FENCE AT LEAST (2 FEET) INTO THE GROUND.

GENERAL SOIL STABILIZATION:

(SEE LANDSCAPE PLAN FOR MORE INFORMATION)

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

TO ENSURE STABILIZATION OF SOILS, RESTAKING OF SOD WHERE APPLICABLE, PROPER WATERING AND MULCH MAINTENANCE WILL BE REQUIRED. INSPECT SEEDED OR SODDED AREAS ON A TIMELY DAY-TO-DAY BASIS. IN THE EVENT OF A SEEDING FAILURE, RESEED AND RE-MULCH 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 SEEDDED, USE INTRODUCED SEED MIXTURE EQUIVALENT TO WISDOT #10 OR #20. APPLY SEED MIXTURE PER WISDOT 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 (200 LBS PER ACRE) BY DISKING PRIOR TO SEEDING. IN PROBLEMATIC AREAS IT MAY BE NECESSARY TO USE A LOW PHOSPHORUS ORGANIC FERTILIZER IN CASES WHERE SEEDS MAY NOT GERMINATE. IF THIS IS THE CASE, SEED AND FERTILIZER SHALL BE DISKED INTO THE SURFACE AND MULCHED PROPERLY TO ENSURE GERMINATION AND UPTAKE OF THE PHOSPHORUS BY THE SEED.

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

SPRING- FROM APRIL 1 THROUGH MAY 15.
FALL- FROM AUGUST 15 TO SEPTEMBER 20.
AFTER SEPTEMBER 20, WAIT UNTIL OCTOBER 30 TO PERFORM DORMANT SEEDING. DORMANT SEEDING WILL ONLY BE ALLOWED IF THE MAXIMUM SOIL TEMPERATURE AT A DEPTH OF (1 INCH) DOES NOT EXCEED (40 DEGREES F) IN ORDER TO PREVENT GERMINATION.

IN SEEDDED AREAS WITH SLOPES STEEPER THAN 4:1 AND LENGTHS LESS THAN (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 WISDOT 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 SEEDDED AREAS THAT EXHIBIT MINIMUM OF 70% LAWN VEGETATIVE COVERAGE. IF SILT FENCE HAS TO BE REMOVED TO INSTALL THE IRRIGATION SYSTEM, IT SHALL BE REINSTALLED AT THE END OF EACH WORK DAY OR USE BIO ROLLS TO PROVIDE PROTECTION DURING THE INSTALLATION PROCESS UNTIL LAWN AREAS HAVE SOD AND/OR PLANT BEDS ARE MULCHED.

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

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



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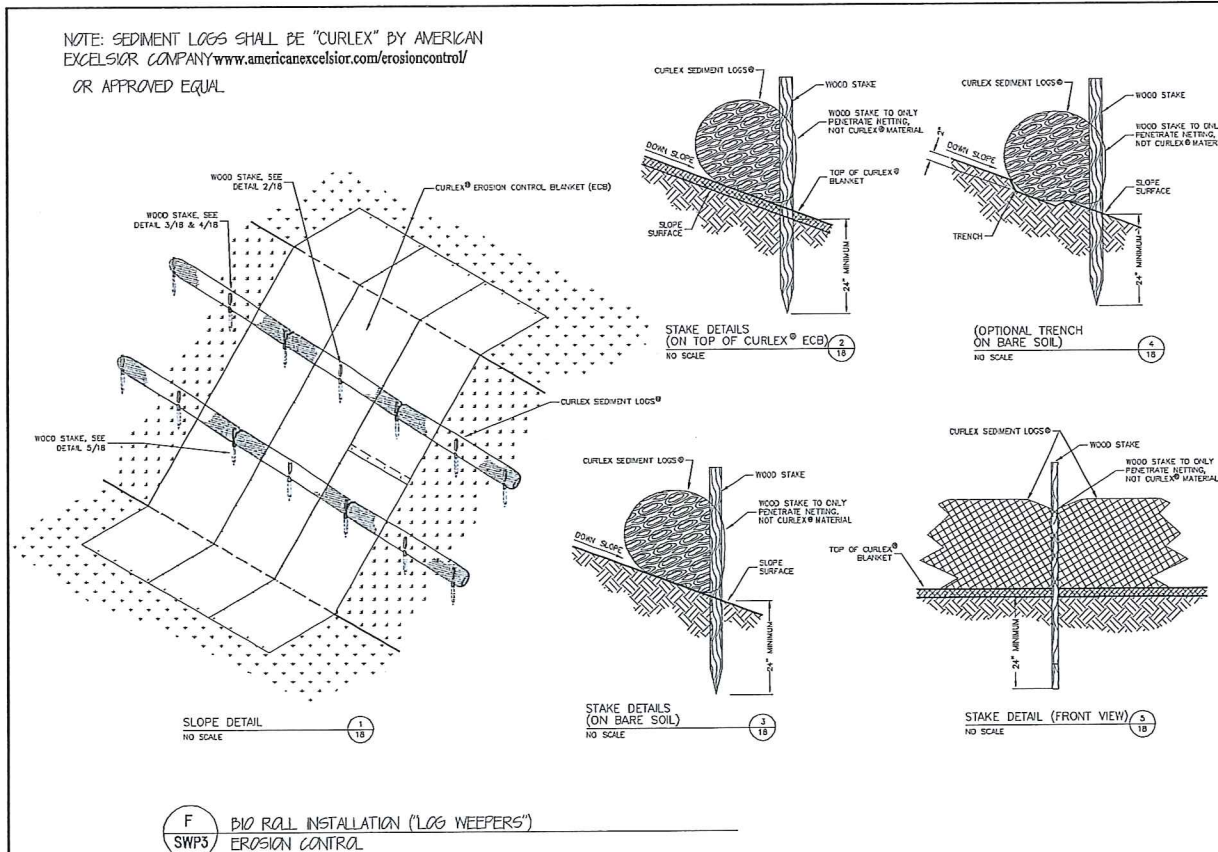
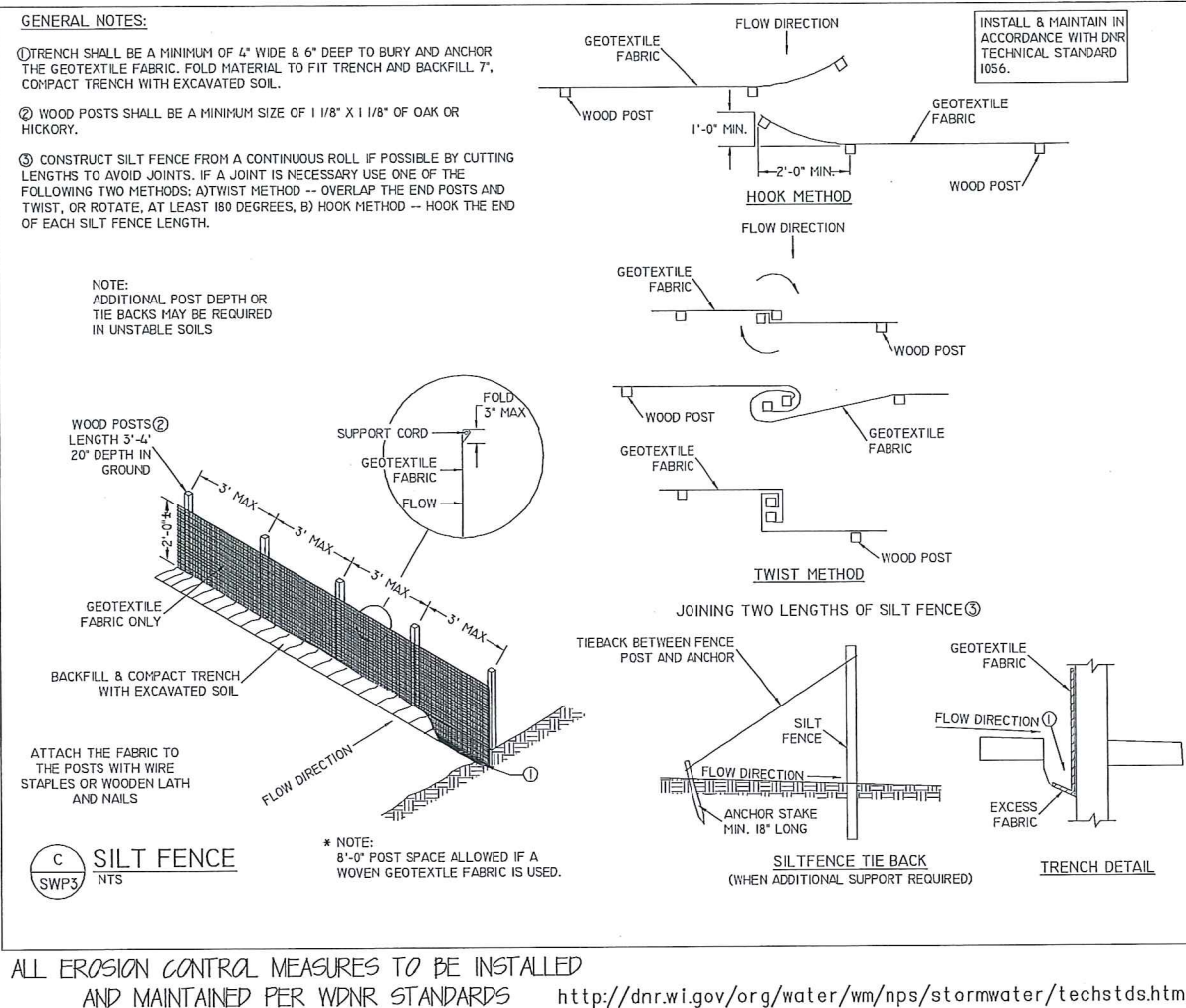
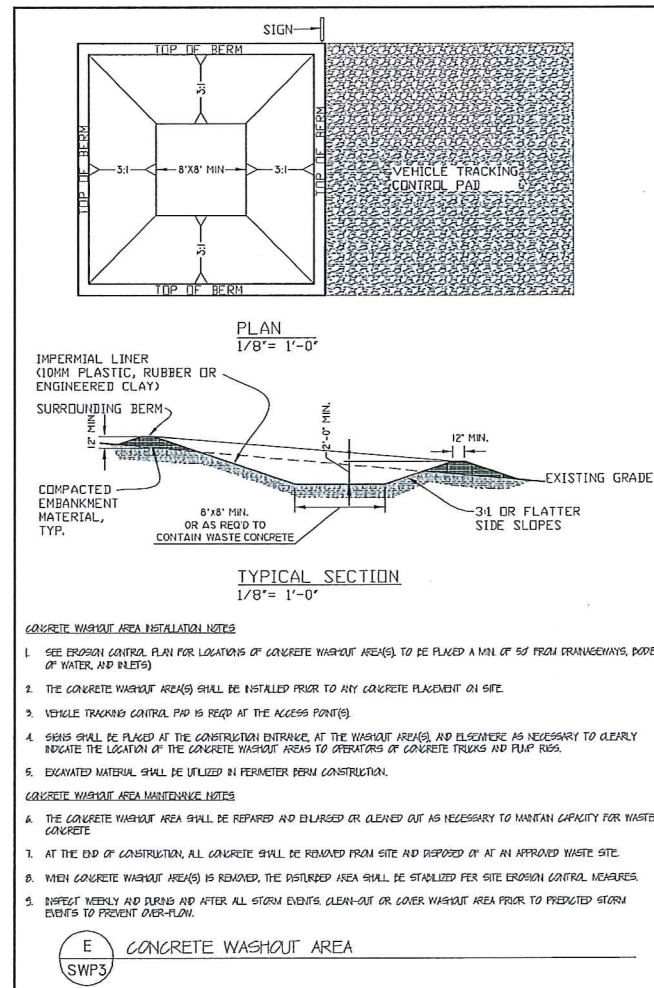
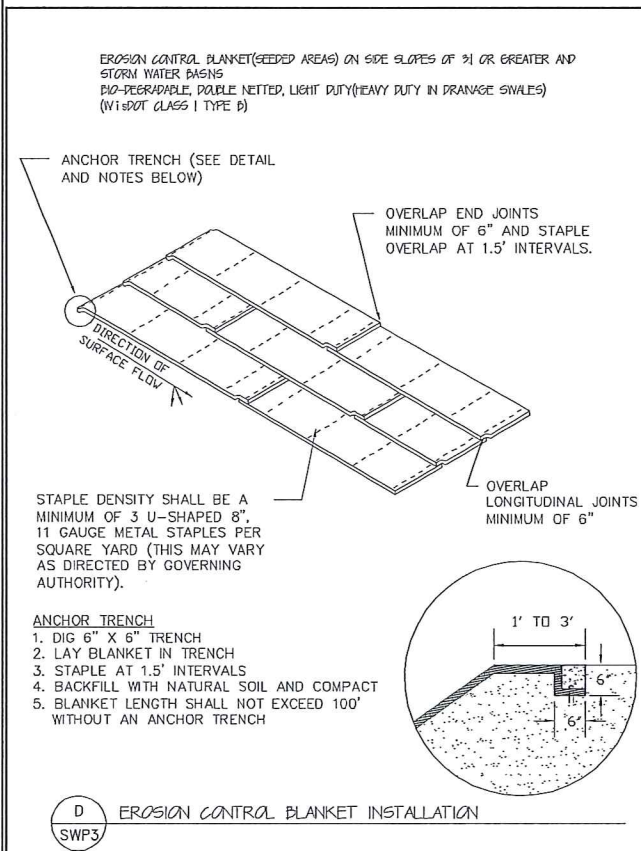
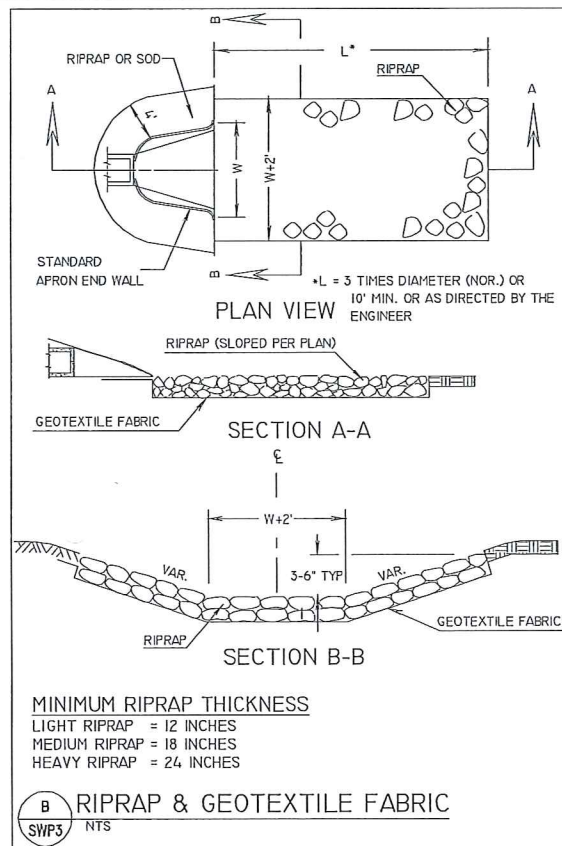
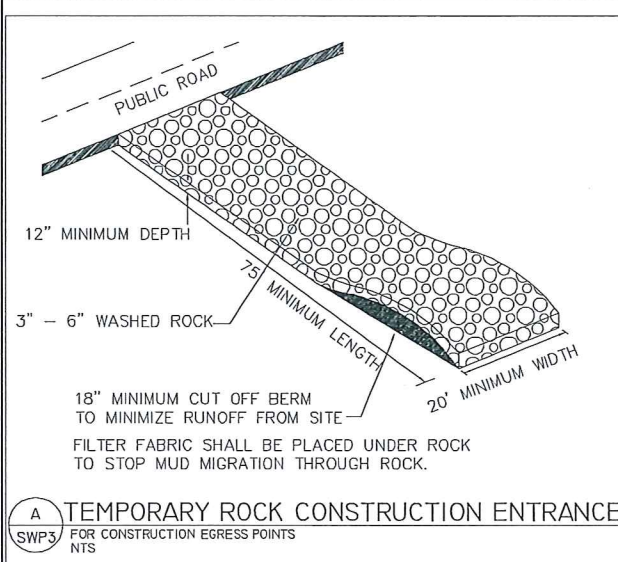
EROSION CONTROL
DETAILS

CONVENIENCE STORE

WEBSTER AVENUE
ALLOUEZ, WI

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PLOTTED: OCT 14, 2015 - 8:51AM PLOTTED BY: TODDW



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EMAIL: MAIL@REIENGINEERING.COM

EROSION CONTROL
DETAILS

CONVENIENCE STORE

WEBSTER AVENUE
ALLOUEZ, WI

#	DATE	DESCRIPTION
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SCALE

NOT TO SCALE

PROJ. NO.

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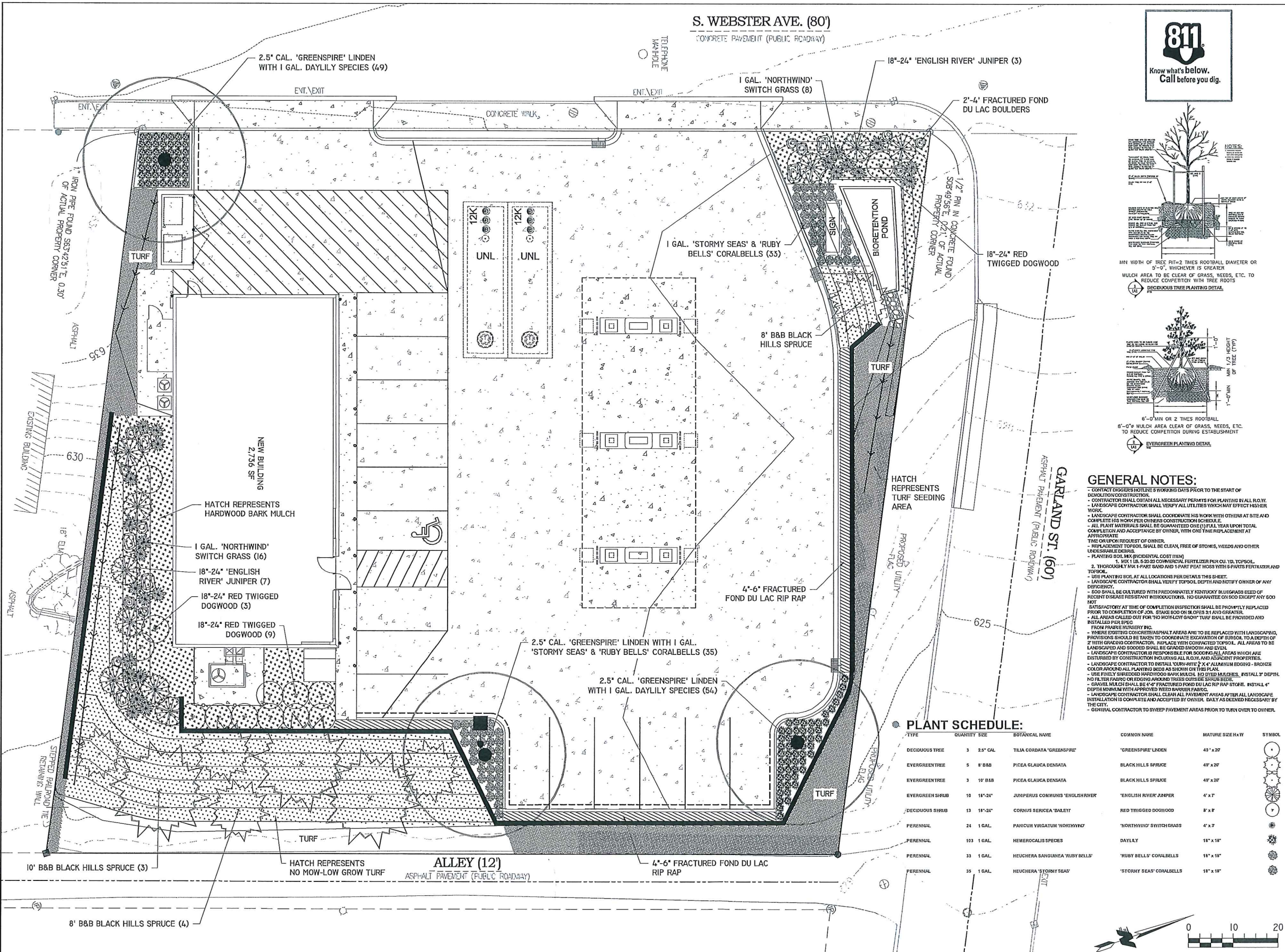
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10/14/15 - BID DOCS

SHEET

SWP3

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GENERAL NOTES:

- CONTACT DISBURS HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR PLANTING IN ALL R.O.W.
- LANDSCAPE CONTRACTOR SHALL VERIFY ALL UTILITIES WHICH MAY EFFECT HISHER WORK.
- LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHERS AT SITE AND COMPLETE HIS WORK PRIOR TO OTHERS CONSTRUCTION SCHEDULE.
- ALL PLANT MATERIALS SHALL BE GUARANTEED ONE (1) FULL YEAR UPON TOTAL COMPLETION AND ACCEPTANCE BY OWNER, WITH ONE TIME REPLACEMENT AT APPROPRIATE TIME OR UPON REQUEST OF OWNER.
- REPLACEMENT TOPSOIL SHALL BE CLEAN, FREE OF STONES, WEEDS AND OTHER UNDESIRABLE DEBRIS.
- PLANTING SOIL MAX (INCIDENTAL COST ITEM)
 - 1. MIX 1 LB. 5-30-20 COMMERCIAL FERTILIZER PER CU. YD. TOPSOIL.
 - 2. THOROUGHLY MIX 1-PART SAND AND 1-PART PEAT MOSS WITH 6-PARTS FERTILIZER AND TOPSOIL.
 - 3. USE PLANTING SOIL AT ALL LOCATIONS PER DETAILS THIS SHEET.
- LANDSCAPE CONTRACTOR SHALL VERIFY TOPSOIL DEPTH AND NOTIFY OWNER OF ANY DEFICIENCY.
- SOIL SHALL BE CULTURED WITH PREDOMINATELY KENTUCKY BLUEGRASS SEED OF RECENT DISEASE RESISTANT INTRODUCTIONS. NO GUARANTEE ON SOO EXCEPT ANY SOO NOT SATISFACTORY AT TIME OF COMPLETION INSPECTION SHALL BE PROMPTLY REPLACED PRIOR TO COMPLETION OF JOB. STAYS SOO ON 18 OVER 3:1 AND GREATER.
- ALL AREAS CALLED OUT FOR "NO MOW/LOW GROW" TURF SHALL BE PROVIDED AND INSTALLED PER SPEC FROM PRAIRIE NURSERY INC.
- WHERE EXISTING CONCRETE/ASPHALT AREAS ARE TO BE REPLACED WITH LANDSCAPING, PROVISIONS SHOULD BE TAKEN TO COORDINATE EXCAVATION OF SUBSOIL TO A DEPTH OF 2" WITH GRADING CONTRACTOR. REPLACE WITH COMPACTED TOPSOIL. ALL AREAS TO BE LANDSCAPED AND SOOED SHALL BE GRADED SMOOTH AND EVEN.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SOOING ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION INCLUDING ALL R.O.W. AND ADJACENT PROPERTIES.
- LANDSCAPE CONTRACTOR TO INSTALL "SURVIVE" 2" X 4" ALUMINUM EDGING - BRONZE COLOR AROUND ALL PLANTING BEDS AS SHOWN ON THIS PLAN.
- USE FINELY SHREDDED HARDWOOD BARK MULCH. NO DYED MULCHES. INSTALL 3" DEPTH. NO FILTER FABRIC OR EXODING AROUND TREES OUTSIDE SHIRUB BEDS.
- GRAVEL MULCH SHALL BE 4"-6" FRACTURED FOND DU LAC RIP RAP STONE. INSTALL 4" DEPTH MINIMUM WITH APPROVED WEED BARRIER FABRIC.
- LANDSCAPE CONTRACTOR SHALL CLEAN ALL PAVEMENT AREAS AFTER ALL LANDSCAPE INSTALLATION IS COMPLETE AND ACCEPTED BY OWNER. DAILY AS DEEMED NECESSARY BY THE CITY.
- GENERAL CONTRACTOR TO SWEEP PAVEMENT AREAS PRIOR TO TURN OVER TO OWNER.

PLANT SCHEDULE:						
TYPE	QUANTITY	SIZE	BOTANICAL NAME	COMMON NAME	MATURE SIZE H x W	SYMBOL
DECIDUOUS TREE	3	2.5" CAL.	TILIA CORDATA 'GREENSPIRE'	'GREENSPIRE' LINDEN	40' x 20'	
EVERGREEN TREE	5	8" B&B	PICEA GLAUCOA DENSATA	BLACK HILLS SPRUCE	40' x 20'	
EVERGREEN TREE	3	10" B&B	PICEA GLAUCOA DENSATA	BLACK HILLS SPRUCE	40' x 20'	
EVERGREEN SHRUB	10	18"-24"	JUNIPERUS COMMUNIS 'ENGLISH RIVER'	'ENGLISH RIVER' JUNIPER	4' x 7'	
DECIDUOUS SHRUB	13	18"-24"	CORNUS SERICEA 'DAILEY'	RED TWIGGED DOGWOOD	8' x 8'	
PERENNIAL	24	1 GAL.	PANICUM VIRGATUM 'NORTHWIND'	'NORTHWIND' SWITCH GRASS	4' x 3'	
PERENNIAL	103	1 GAL.	HEMEROCALLIS SPECIES	DAYLILY	18" x 18"	
PERENNIAL	33	1 GAL.	HEUCHERA SANGUINEA 'RUBY BELLS'	'RUBY BELLS' CORALBELLS	18" x 18"	
PERENNIAL	35	1 GAL.	HEUCHERA 'STORMY SEAS'	'STORMY SEAS' CORALBELLS	18" x 18"	

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715.355.REVI(7384)
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LANDSCAPE PLAN
CONVENIENCE STORE

WEBSTER AVENUE
ALLOUEZ, WI

#	DATE	DESCRIPTION
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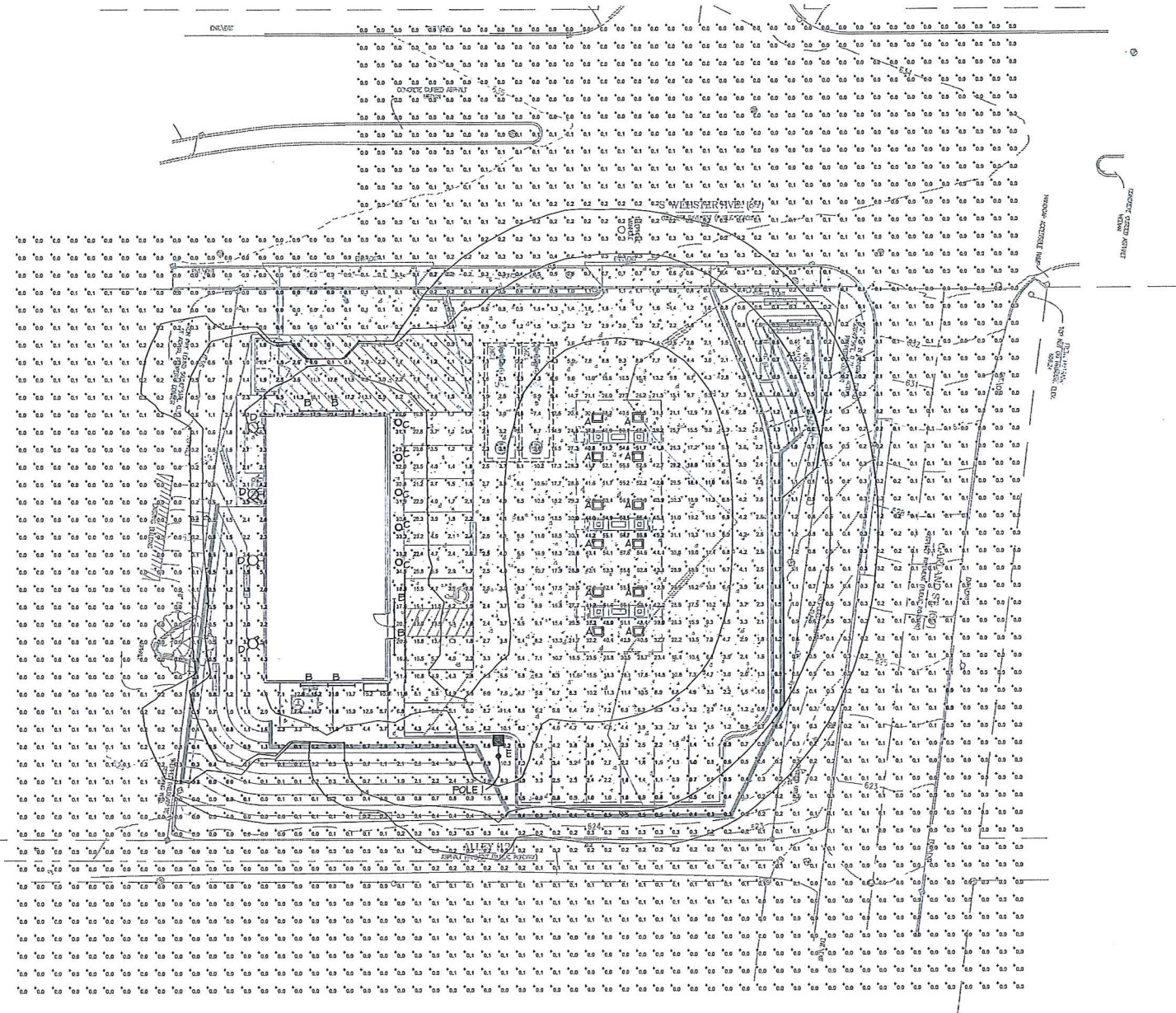
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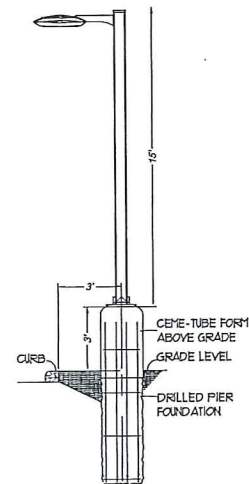
PROJ. NO. 7076A

DATE 09/28/15 - CONSTRUCTION DOCS

SHEET L1



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



LOT LIGHT ELEVATION DETAIL
NOT TO SCALE

FIXTURE QUANTITIES

- A - 2
- B - 6
- C - 4
- D - 1

PROVIDE A TOTAL OF (1) 15' POLES.

CALCULATION STATISTICS

AVERAGE: 2.9fc
MAXIMUM: 58.1fc
MINIMUM: 0.0fc

FIXTURE TYPES:

- A - LSI LIGHTING: CRUS-SC-LED-66-CU-UE-WHT
MOUNTING HEIGHT - 16'-0"
- B - LED STRIPLIGHT
LITHONIA - ZLL-156-LB840
MOUNTED IN GABLE HEIGHT: SEE ARCHITECTURAL ELEVATIONS
- C - RECESSED LED DOWNLIGHT
GOITAM EVO-4U23-BAR-120-TW
- D - RAB LIGHTING: SLIM2Y
WALL MOUNTED LED FIXTURE
WALL MOUNT AT 9'-0" AFF TO TOP OF FIXTURE.
- E - LSI LIGHTING: MLC9-3-LED-66-CU-UE-WHT
POLE MOUNTED AT A TOTAL HEIGHT OF 15'-0"

FIXTURE SYMBOLS:

- A RECESSED LED LIGHT MOUNTED UNDER CANOPY
- B LED STRIP LIGHT
- C RECESSED LED DOWNLIGHT
- D WALL MOUNTED LED
- E POLE MOUNTED LED FIXTURE

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PHOTOMETRIC SITE PLAN

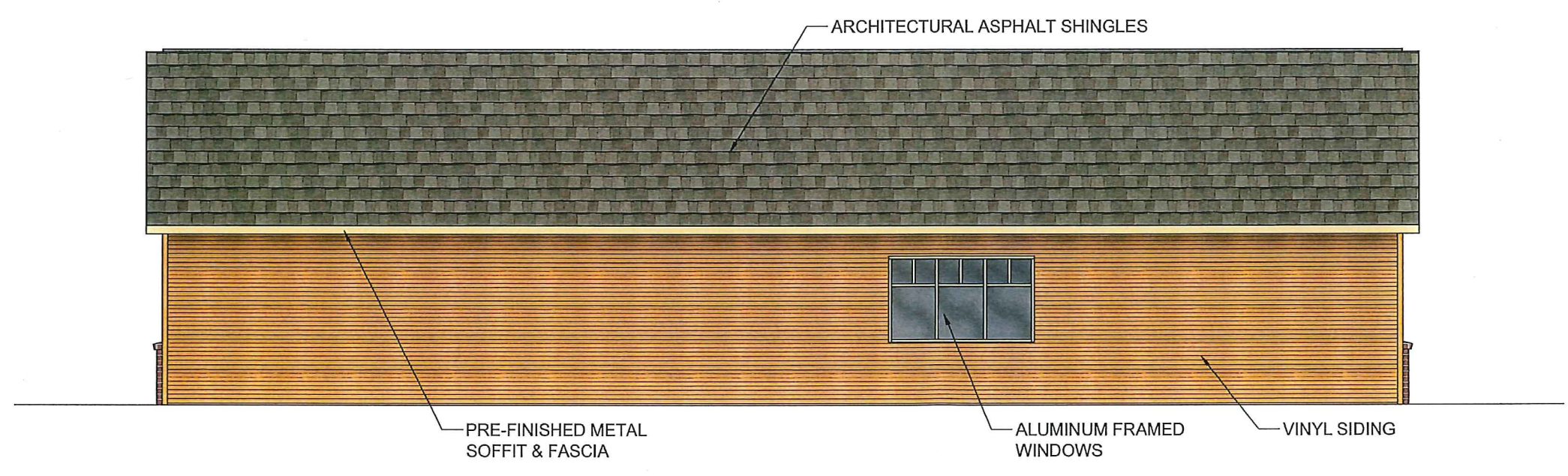
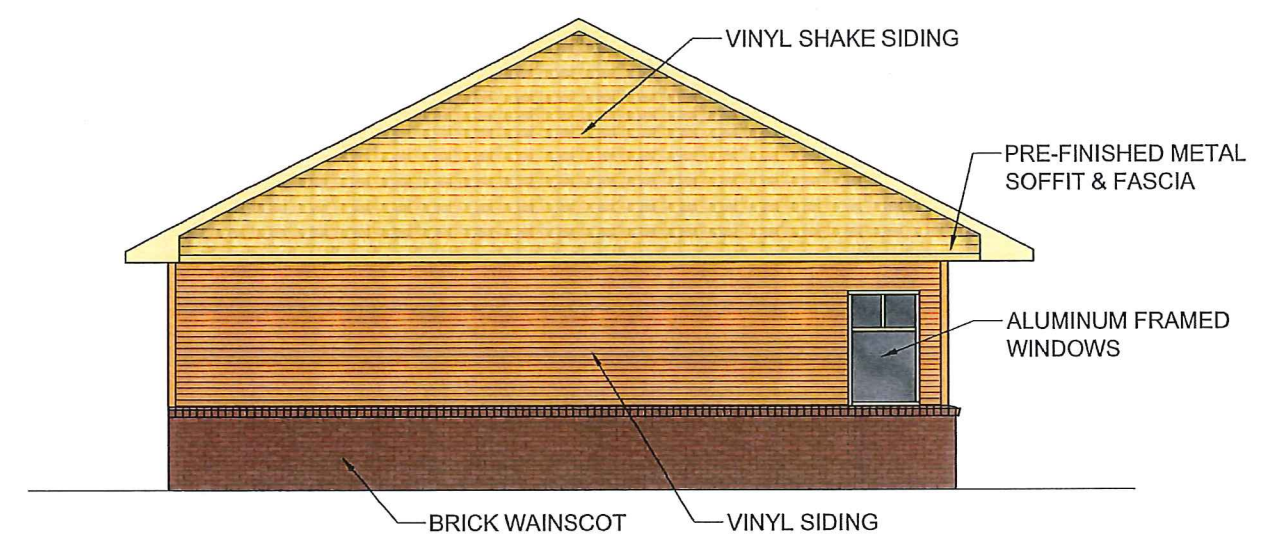
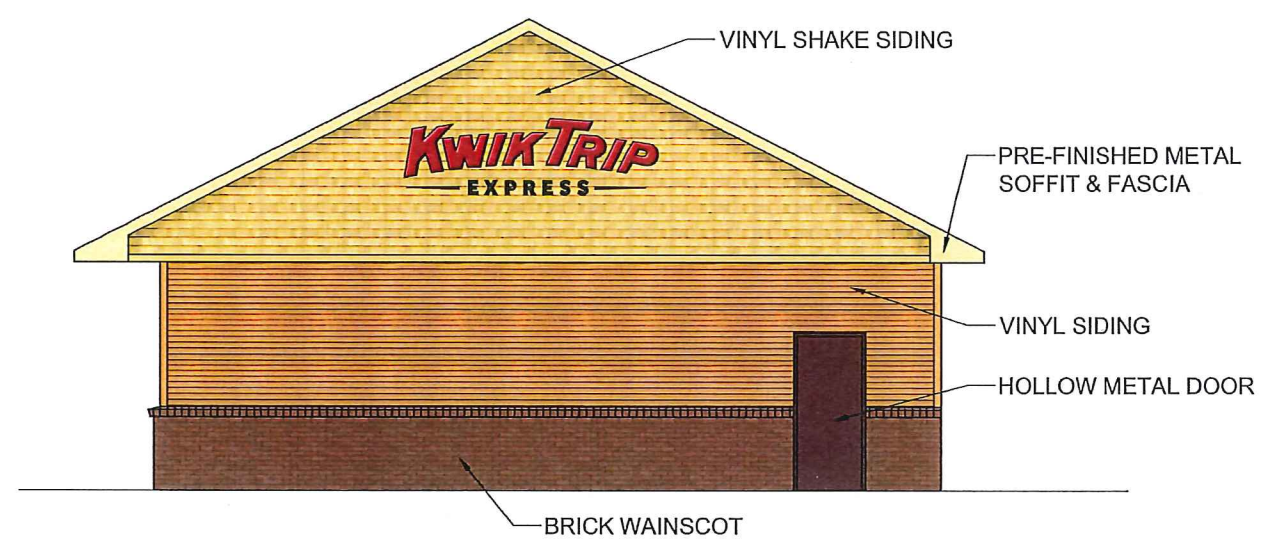
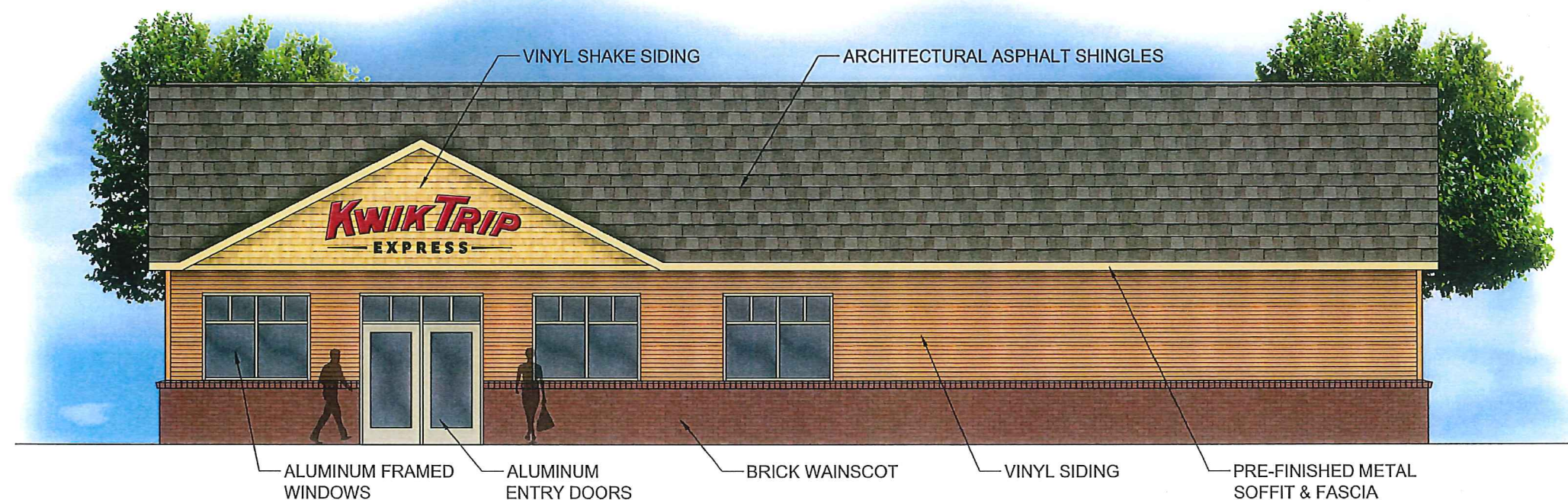
CONVENIENCE STORE 174


WEBSTER AVENUE
ALLOUÉZ WISCONSIN

NO	DATE	DESCRIPTION
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10	11/11/10	ISSUED FOR PERMIT


DRAWN BY	CZE
SCALE	GRAPHIC
PROJECT NO	1016A
DATE	03/25/10
SHEET	E1

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INCORPORATED
101 HAVEN COURT, SUITE B - WAUKESHA, WI 53090
VOICE: (262) 531-1000 FAX: (262) 531-1003
WEB PAGE: www.cze.com





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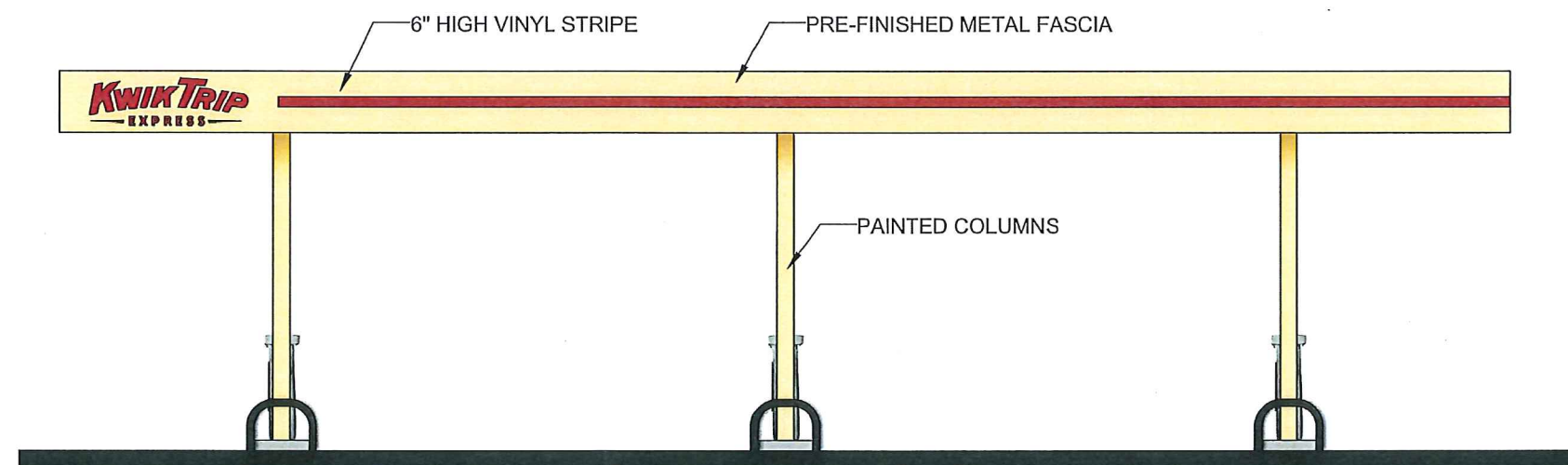
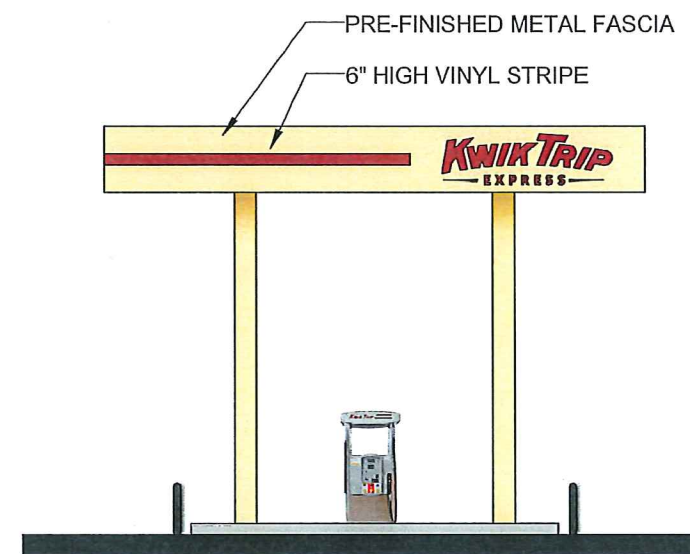
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SHEET NAME CONVENIENCE STORE #132	WEBSTER & GARLAND ALLOUEZ, WI
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#	DATE	DESCRIPTION

DRAWN BY	B. BERG
SCALE	1/8" = 1'-0"
PROJ. NO.	0001
DATE	2015-10-07
SHEET	A201



STORES

#	DATE	DESCRIPTION

DRAWN BY	B. BERG
SCALE	1/8" = 1'-0"
PROJ. NO.	0001
DATE	2015-10-07
SHEET	A201