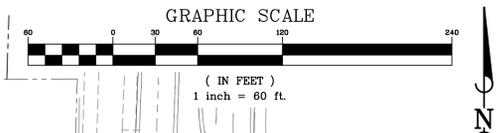


**UTILITY CROSSINGS**

1 ST OVER WM B/P ST = 917.4 T/P WM = 915.4	2 ST OVER WM B/P ST = 913.2 T/P WM = 911.2	3 WM OVER ST B/P WM = 912.3 T/P ST = 910.3	4 WM OVER ST B/P WM = 914.0 T/P ST = 906.2	5 WM OVER ST B/P WM = 917.0 T/P ST = 913.3
6 ST OVER WM B/P ST = 915.7 T/P WM = 913.7	7 ST OVER WM B/P ST = 917.48 T/P WM = 915.48	8 ST OVER WM B/P ST = 914.4 T/P WM = 912.4	9 ST OVER SAN B/P ST = 918.1 T/P SAN = 915.8	10 SAN OVER WM B/P SAN = 913.95 T/P WM = 911.95
11 ST OVER SAN B/P ST = 910.8 T/P SAN = 910.1	12 ST OVER WM B/P ST = 910.0 T/P WM = 906.9	13 ST OVER SAN B/P ST = 910.4 T/P SAN = 909.3	14 SAN OVER WM B/P SAN = 908.1 T/P WM = 906.6	

\* WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL REQUIREMENTS. (SEE DETAIL SHEET)  
\*\* CRITICAL CROSSING



DATE	REVISIONS
8-15-15	REVISED BUILDING FOOTPRINT
12-18-14	REVISED PER MANHARD REVIEW
11-5-14	REVISED PER PLAN COMMISSION COMMENTS
10-9-14	REVISED PER CSM
9-29-14	REVISED PER MANHARD REVIEW
8-13-14	REVISED PER CITY COMMENTS

**Manhard CONSULTING LTD.**  
800 Woodlawn Parkway, Vernon Hills, IL 60061  
Civil Engineers • Surveyors • Water-Resource Engineers • Water & Wastewater Engineers  
Construction Managers • Environmental Scientists • Landscape Architects • Planners

- UTILITY NOTES**
- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
  - CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
  - SANITARY SEWER PIPE SHALL BE AS FOLLOWS:  
8" PVC SDR35 PER ASTM D 3034, FOR PIPES LESS THAN 12' DEEP  
8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 12' DEEP  
6" PVC SCHEDULE 40  
DUCTILE IRON PIPE PER AWWA C150
  - WATER LINES SHALL BE AS FOLLOWS:  
6" AND LARGER PVC C-900 PER ASTM D 2241  
CLASS 200 UNDER COUNTY ROADS, OTHERWISE CLASS 150  
DUCTILE IRON PIPE PER AWWA C150 FOR ALL PUBLIC PIPES  
PER ASTM D1784 AND D2241.  
SMALLER THAN 6" EITHER COPPER TUBE TYPE "L" (SOFT) PER ANSI B16.22 OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241.  
DUCTILE IRON PIPE PER AWWA C150 FOR ALL PUBLIC PIPES
  - MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
  - ALL WATERMAIN JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
  - ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
  - CONTRACTOR SHALL MAINTAIN A MINIMUM OF 5'-6" COVER ON ALL WATER LINES.
  - IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
  - ALL LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
  - TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
  - ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
  - EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
  - REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
  - CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
  - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
  - CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
  - CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
  - UTILITIES SHOWN AS EXISTING IN PUBLIC R.O.W. (WATER, SEWER, STORM) AND THE ROADWAYS THEMSELVES ARE NOT CONSTRUCTED AS OF THIS DATE. THIS INFRASTRUCTURE IS PROPOSED TO BE BUILT AS SHOWN (BY OTHERS) BUT MAY NOT ALL BE COMPLETED AT TIME OF WAL-MARTS CONSTRUCTION.
  - REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
  - ALL UNDERGROUND IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN WISCONSIN AND THE FACILITIES DEVELOPMENT MANUAL, DEPARTMENT OF TRANSPORTATION, STATE OF WISCONSIN, LATEST EDITION, THE STANDARD SPECIFICATIONS, DEPARTMENT OF TRANSPORTATION, STATE OF WISCONSIN, LATEST EDITION. THE SUPPLEMENTARY SPECIFICATIONS, DEPARTMENT OF TRANSPORTATION, STATE OF WISCONSIN, LATEST EDITION, IN THE EVENT OF CONFLICTING GUIDELINES, THE MORE RESTRICTIVE SHALL GOVERN.
  - CONTRACTOR SHALL CORE AND BOOT ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
  - ALL UTILITY DIMENSIONS ARE TO CENTERLINE OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
  - EXTERNAL CHIMNEY SEALS ARE REQUIRED ON PROPOSED AND ADJUSTED EXISTING SANITARY MANHOLES.
  - BUILDING DIMENSIONS AND ADJACENT UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
  - THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE (1-800-242-8511) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
  - ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES IF SHOWN ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE BASED UPON FINAL REVIEW AND APPROVAL BY RESPECTIVE UTILITY COMPANIES AND OWNER. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS FOR ALL UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
  - CONTRACTOR SHALL EXCAVATE AND VERIFY ALL EXISTING SEWER OR WATER MAIN LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
  - ALL SANITARY AND STORM SEWER LENGTHS SHOWN ARE CENTER OF MANHOLE TO CENTER OF MANHOLE OR STORM MANHOLE TO FES.
  - PROVIDE CONCRETE COLLAR AT ALL NEW STORM STRUCTURE IN PAVEMENT, NOT ADJACENT TO CURB. SEE CONCRETE COLLAR DETAIL ON DETAIL SHEET 27.
  - SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
  - ALL STORM MANHOLES IN PAVEMENT SHALL BE OPEN LID UNLESS OTHERWISE NOTED.
  - INSTALL FIBROGLASS PLUS CATCH BASIN FILTER INSERT AS MANUFACTURED BY KRISTAR ENTERPRISES, INC. OR EQUIVALENT ON ALL STORM STRUCTURES WITH OPEN GRATES. FILTER SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS AND SPECIFICATIONS.

**ALERT TO CONTRACTOR**

ALL WAL-MART GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

**CALL DIGGERS HOTLINE**

1-800-242-8511  
TOLL FREE  
WIS STATUTE 192.0175(1974)  
REQUIRES MIN. 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE  
1-800-242-8511

**PROPOSED WAL-MART SUPERCENTER NO. 1176-06**  
CITY OF STOUGHTON, DANE COUNTY, WISCONSIN  
OVERALL UTILITY PLAN

PROJ. MGR.: JTR  
PROJ. ASSOC.: RJS  
DRAWN BY: DDK  
DATE: 5-29-14  
SCALE: 1"=60'

SHEET  
**19 OF 39**  
WALSTW 130435