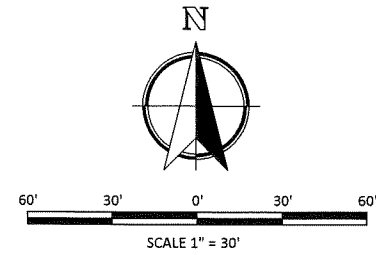
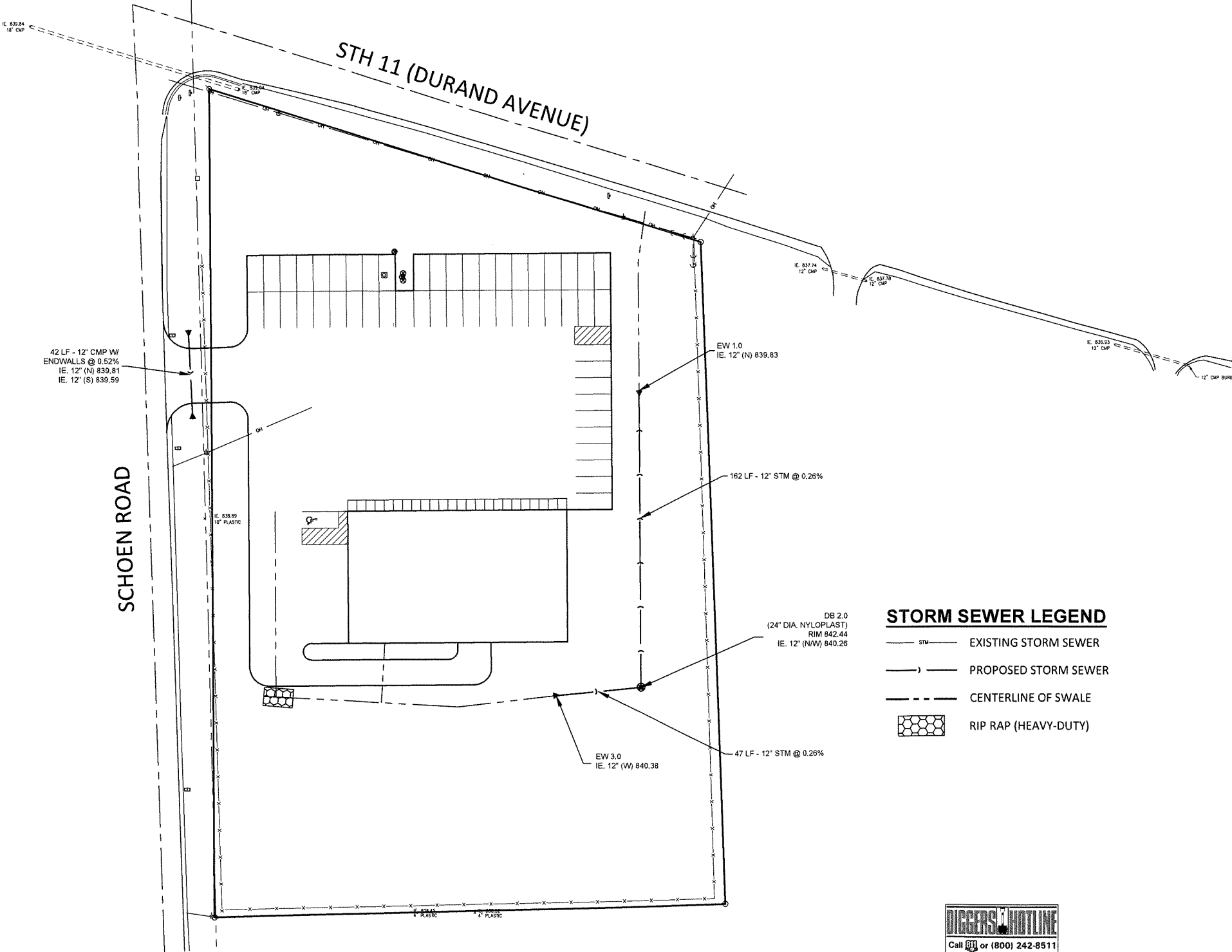






Friday, September 16, 2022 9:46:44 AM



**STORM SEWER SPECIFICATIONS**

MATERIAL FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE STATE OF WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES (SPS) AND CITY OF RACINE SPECIFICATIONS.

STORM SEWER CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN", 6TH EDITION, DECEMBER 22, 2003 WITH ADDENDA NO. 1 AND NO. 2, HEREIN REFERRED TO AS THE "STANDARD SPECIFICATIONS".

\* THE STORM SEWER SYSTEM WAS SIZED ACCORDING TO SPS TABLE 382.36-4 "MAXIMUM CAPACITY OF STORM WATER HORIZONTAL CONVEYANCE PIPING FOR CONCRETE, ASTM C76 AND ASTM C14". ANY MATERIAL APPROVED BY THE CITY OF RACINE AND THE WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES MAY BE USED AT THE SLOPES AND SIZES DESIGNED.

STORM SEWER PIPE AND TUBING MATERIALS SHALL CONFORM TO SPS 384.30 OF THE WISCONSIN ADMINISTRATIVE CODE. REINFORCED CONCRETE PIPE (RCP) AND POLYVINYL CHLORIDE (PVC) MATERIALS SHALL BE SELECTED FROM TABLE 384.30-6. CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) PIPE MATERIAL (IF SELECTED) SHALL MEET THE REQUIREMENTS OF AASHTO M-252 FOR 4"-10" DIAMETER SIZES AND AASHTO M294 FOR 12"-48" DIAMETER SIZES.

BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.43.2 OF THE "STANDARD SPECIFICATIONS".

ALL STORM SEWERS INSTALLED IN EXISTING OR PROPOSED PAVED AREAS SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH TABLE 37, CHAPTER 8.43.4 OF THE "STANDARD SPECIFICATIONS". BACKFILL MATERIAL SHALL EXTEND A MINIMUM OF FIVE FEET (5') OUTSIDE OF THE PAVEMENT LIMITS. TRENCHES RUNNING PARALLEL TO AND LESS THAN FIVE FEET (5') FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE COMPACTED GRANULAR BACKFILL.

A 10-GAUGE TRACER WIRE SHALL BE INSTALLED THE ENTIRE LENGTH OF ALL PRIVATE STORM SEWERS, ROOF DRAINS AND STORM BUILDING SEWER LATERALS PER SPS 382.36(7)(d)10. THE TRACER WIRE SHALL BE EXTENDED TO THE SURFACE AT THE BUILDING WALL AND ALL OTHER SYSTEM LIMITS (FOR EACH SYSTEM INSTALLED) AND ENCLOSED IN A RISER BOX WITH "STORM" ON THE COVER.

ALL DRAIN BASINS INSTALLED IN PAVED SURFACES AND ACCEPTING RUNOFF SHALL BE FURNISHED WITH A NYLOPLAST 1299CGPL PEDESTRIAN GRATE. ALL DRAIN BASINS INSTALLED IN LAWN AREAS SHALL BE FURNISHED WITH A NYLOPLAST 1299CGD DOME GRATE OR A 1299CGPL PEDESTRIAN GRATE.

ALL DRAIN BASINS SHALL BE FURNISHED WITH A MINIMUM 12" SUMP.

ALL STORM SEWERS AND DRAIN BASINS SHALL BE CONSTRUCTED WITH WATER AND GAS TIGHT JOINTS IN CONFORMANCE WITH SPS 384.40.

ANY AND ALL EXISTING SIDEWALKS OR PAVEMENTS DISTURBED TO INSTALL UNDERGROUND UTILITIES SHALL BE SAWCUT AT THE NEAREST JOINT AND REPLACED IN KIND PER CITY OF RACINE SPECIFICATIONS.

AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED, EXCESS, WASTE, STOCKPILED AND SPOIL MATERIAL IN ACCORDANCE WITH SECTION 205.3.12 OF THE "STATE SPECIFICATIONS". THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

**STORM WATER MAINTENANCE PLAN**

THE STORM WATER DRAINAGE / WATER QUALITY SYSTEM BEING INSTALLED AS PART OF THIS DEVELOPMENT SHALL BE INSPECTED ON A SEMIANNUAL BASIS.

AS PART OF THE INSPECTION, ANY SILT, SEDIMENT OR DEBRIS BUILT UP IN THE BOTTOM OF THE STRUCTURE SHALL BE REMOVED AND DISPOSED OF.

IF EXCESSIVE AMOUNTS OF SEDIMENT ARE PRESENT, THE MAINTENANCE SCHEDULE SHALL BE ADJUSTED ACCORDINGLY OR A PAVEMENT SWEEPING PROGRAM ESTABLISHED TO MINIMIZE THE SEDIMENT LOADING ENTERING THE STORM WATER DRAINAGE/WATER QUALITY SYSTEM.

THE PROPERTY OWNER IS ULTIMATELY RESPONSIBLE FOR ENSURING THAT THE STORM WATER LEAVING THE SITE IS AS CLEAN AS PRACTICABLE.

**STORM SEWER LEGEND**

- STM — EXISTING STORM SEWER
- — PROPOSED STORM SEWER
- - - - CENTERLINE OF SWALE
- ⊞ RIP RAP (HEAVY-DUTY)

**UTILITY NOTE**

EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE TYPE, LOCATION, SIZE AND ELEVATION OF UNDERGROUND UTILITIES AS THEY DEEM NECESSARY FOR PROPOSED UTILITY CONNECTIONS AND / OR TO AVOID DAMAGE THERETO, CONTRACTOR SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.



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**SERVICE CENTER BUILDING**  
**STORM SEWER DESIGN PLAN**  
 FOR  
**KASTENSON AUTO SERVICE**  
 TOWN OF DOVER, RACINE COUNTY, WISCONSIN

NO.	REVISION	BY	DATE

PROJ. MGR: MRM  
 DRAFTED: CJS  
 DATE: 9-14-2022  
 CHECKED: ALI  
 DATE: 9-16-2022

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