



LEGEND

	PROPOSED	EXISTING	FUTURE
CURB & GUTTER			
STORM SEWER			
SANITARY SEWER			
WATERMAIN			
PROPERTY LINE			
EASEMENT			
SANITARY SERVICE			
WATER SERVICE			



UTILITY CONSTRUCTION NOTES

- THE UTILITY IMPROVEMENTS FOR THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD UTILITIES SPECIFICATIONS" AS PUBLISHED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), EXCEPT AS MODIFIED HEREIN. CONTRACTOR SHALL OBTAIN A COPY OF THESE SPECIFICATIONS.
 - ALL UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY REQUIREMENTS.
 - CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP WATERMAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCES OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE THE LIABILITY OF CONTRACTOR.
 - A MINIMUM VERTICAL SEPARATION OF 18 INCHES AND HORIZONTAL SEPARATION OF 10-FEET BETWEEN OUTSIDE PIPE DIAMETERS IS REQUIRED AT ALL WATERMAIN AND SEWER MAIN CROSSINGS.
 - ALL MATERIALS SHALL BE AS SPECIFIED IN CEAM SPECIFICATIONS EXCEPT AS MODIFIED HEREIN.
 - ALL MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY.
 - ALL SANITARY SEWER TO BE PVC SDR-35 OR PVC SDR-26, UNLESS NOTED OTHERWISE.
 - ALL SANITARY SEWER SERVICES TO BUILDING SHALL BE PVC SDR 26 CONFORMING TO ASTM D2665.
 - ALL WATERMAIN TO BE DUCTILE IRON - CLASS 52, UNLESS NOTED OTHERWISE.
 - ALL WATERMAIN TO HAVE 7.5-FEET OF COVER OVER TOP OF WATERMAIN.
 - PROVIDE THRUST BLOCKING AND MECHANICAL JOINT RESTRAINTS ON ALL WATERMAIN JOINTS PER CITY STANDARDS.
 - FLEX-A-MAT OR APPROVED EQUAL SHALL BE USED AT ALL FLARED END OUTLETS.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
- ALL AREAS OUTSIDE THE PROPERTY BOUNDARIES THAT ARE DISTURBED BY UTILITY CONSTRUCTION SHALL BE RESTORED IN KIND. SODDED AREAS SHALL BE RESTORED WITH 6 INCHES OF TOPSOIL PLACED BENEATH THE SOD.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
- ALL TRENCH COMPACTION TESTING SHALL BE COMPLETED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. EXCAVATION FOR THE PURPOSE OF REMOVING UNSTABLE OR UNSUITABLE SOILS SHALL BE COMPLETED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE UTILITY BACKFILL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED TRENCH COMPACTION TESTS AND GEOTECHNICAL INSPECTIONS WITH THE GEOTECHNICAL ENGINEER.

A GEOTECHNICAL ENGINEERING REPORT HAS BEEN COMPLETED BY:

COMPANY: HAUGO GEOTECHNICAL
 ADDRESS: 13570 GROVE DRIVE #278, MAPLE GROVE, MN 55311
 PHONE: 651-544-4829
 DATED: 6/6/2016

CONTRACTOR SHALL OBTAIN A COPY OF THIS GEOTECHNICAL REPORT.
- CONTRACTOR SHALL SUBMIT A COPY OF SHOP DRAWINGS FOR MANHOLE AND CATCH BASIN STRUCTURES TO THE ENGINEER (ERIC LUTH, ELUTH@SAMBATEK.COM). CONTRACTOR SHALL ALLOW 5 WORKING DAYS FOR SHOP DRAWING REVIEW.
- DO NOT INSTALL ROD EXTENSIONS IN ANY OF THE VALVE BOXES.

Sambatek
 www.sambatek.com
 12800 Whitewater Drive, Suite 300
 Minnetonka, MN 55343
 763.476.6010 telephone
 763.476.8532 facsimile
 Engineering | Surveying | Planning | Environmental

Client
 PAXMAR, LLC.

3495 NORTHDAL BLVD. NW
 SUITE 210
 COON RAPIDS, MN 55448

Project
 MISKE
 MEADOWS
 FOURTH
 ADDITION

Location
 ELK RIVER, MN

Certification
 I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional ENGINEER under the laws of the state of Minnesota.

Eric T. Luth
 Eric T. Luth
 Registration No. 50475 Date: 03/28/2018
 If applicable, contact us for a wet signed copy of this plan which is available upon request at Sambatek's, Minnetonka, MN office.

Summary
 Designed: NRH Drawn: NRH
 Approved: ETL Initial Issue: 03/15/18
 Phase: CONSTRUCTION DOCUMENTS

Revision History

No.	Date	By	Submittal / Revision
03/28/18	MMQ	CONSTRUCTION DOCS	
A	04/18/18	ETL	REVISE EAST TRAIL GRADES

Sheet Title
 OVERALL
 UTILITY PLAN

Sheet No. Revision
 C6.00 A
Project No. 20460.05