

NORTH BUSINESS DEVELOPMENT AREA

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.

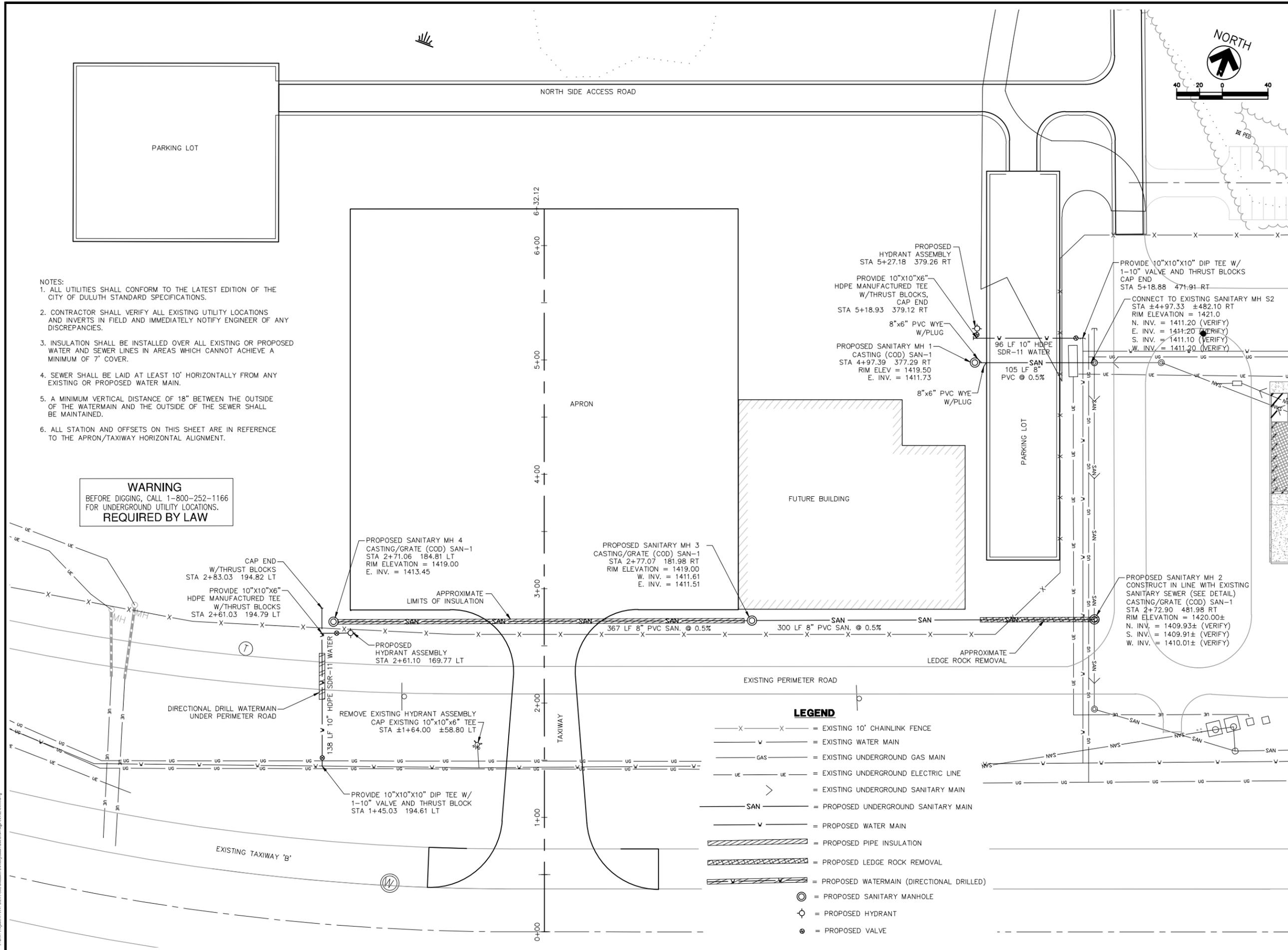
Signature: *Scott T. Stempihar*
Typed Name: SCOTT T. STEMPIHAR
Date 08/18/09 Reg. No. 47565

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 08-18-2009
REVIEWED BY: PJM
DRAWN BY: SCA
DESIGNED BY: STS
AEP PROJECT NUMBER
214-1882-093
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SHEET TITLE
UTILITY PLAN
SHEET NUMBER
C600
BID DOCUMENTS



- NOTES:**
1. ALL UTILITIES SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF DULUTH STANDARD SPECIFICATIONS.
 2. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS AND INVERTS IN FIELD AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.
 3. INSULATION SHALL BE INSTALLED OVER ALL EXISTING OR PROPOSED WATER AND SEWER LINES IN AREAS WHICH CANNOT ACHIEVE A MINIMUM OF 7' COVER.
 4. SEWER SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.
 5. A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF THE SEWER SHALL BE MAINTAINED.
 6. ALL STATION AND OFFSETS ON THIS SHEET ARE IN REFERENCE TO THE APRON/TAXIWAY HORIZONTAL ALIGNMENT.

WARNING
BEFORE DIGGING, CALL 1-800-252-1166
FOR UNDERGROUND UTILITY LOCATIONS.
REQUIRED BY LAW

- LEGEND**
- X — X — = EXISTING 10' CHAINLINK FENCE
 - W — = EXISTING WATER MAIN
 - GAS — = EXISTING UNDERGROUND GAS MAIN
 - UE — UE — = EXISTING UNDERGROUND ELECTRIC LINE
 - > — = EXISTING UNDERGROUND SANITARY MAIN
 - SAN — = PROPOSED UNDERGROUND SANITARY MAIN
 - W — = PROPOSED WATER MAIN
 - ▨ = PROPOSED PIPE INSULATION
 - ▨ = PROPOSED LEDGE ROCK REMOVAL
 - ▨ = PROPOSED WATERMAIN (DIRECTIONAL DRILLED)
 - ⊙ = PROPOSED SANITARY MANHOLE
 - ⊕ = PROPOSED HYDRANT
 - ⊗ = PROPOSED VALVE

Aug 18, 2009 - 3:28pm
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