|  |                      |  | NOT VALID UNLESS SIGNED BY ANOKA COUNTY<br>PERMIT NUMBER |  |  |
|--|----------------------|--|--|--|--|
| Anoka County   | 763-324-             |  | RIGHT OF WAY X   |  |  |
|  | vaypermits@and       | okacountymn.gov  | COMMERCIAL ACCESS  |  |  |
| APPLICATION FOR PERMIT FOR INSTALLATION C<br>ALL APPLICANTS MI   |                      | LACING OBSTRUCTIONS ON THE<br>ED PRIOR TO PERMIT APPROVAL                                      | COUNTY HIGHWAY SYSTEM                                    |  |  |
| APPLICANT NAME Xcel Energy   |                      | CONTACT PERSON George W  | ojcicki  |  |  |
| ADDRESS 414 Nicollet Mall  |                      | CITY Minneapolis, MN 55401   |  |  |  |
| PHONE NUMBER 7736774574  |                      | EMAIL george.r.wojcicki@xce  | lenergy.com  |  |  |
| COMPANY OR INDIVIDUAL PERFORMING W   | ORK Xcel Ener        | 3Y   |  |  |  |
| CONTACT PERSON Zachary Franzoi (Project  | Manager)             | EMAIL zachary.a.franzoi@xce  | lenergy.com  |  |  |
|  |                      | PHONE NUMBER 952-460-023   | 38   |  |  |
| PERMIT WORK TO START 05/12/2025  | SP 6                 | 281-53   |  |  |  |
| PERMIT WORK TO BE COMPLETED 08/31/2  | 2025                 |  |  |  |  |
| DURATION OF JOB 3 months   |                      |  |  |  |  |
| ARE YOU BEING ASKED TO RELOCATE DUE T  | O A COUNTY PR        | OJECT? Yes   |  |  |  |
| ANOKA COUNTY PROJECT NUMBER SP 628   | 1-53                 |  |  |  |  |
|  |                      |  |  |  |  |
| WORK SITE ADDRESS ~6000 20th Ave S   |                      | CITY   | Lino Lakes   |  |  |
| METHOD OF INSTALLATION/CONSTRUCTION  | Excavation           |  |  |  |  |
| NATURE OF WORK Relocation of an existing<br>in the right of way of 20t   |                      | on on Ash St/Co Rd J, as well as<br>o accommodate a new set of i                               |  |  |  |
| SURFACE TO BE DISTURBED SITE PLAN  | AND/OR REFERE        | Y IS ENCROACHED, YOU MUST AT<br>NCE THE MOST CURRENT VERSION<br>MANUAL (3+ DAYS REQUIRES PLANS | OF THE MN TEMPORARY TRAFFIC                              |  |  |
| X DITCH/BLVD   |                      | TCP to be emailed in p   |  |  |  |
| BITUMINOUS   |                      |  |  |  |  |
| CONCRETE   |                      |  |  |  |  |
| NONE IS SIGNING AND ST   | TRIPING REQUIR       | ED? <sub>Yes</sub>   |  |  |  |
| DEPTH FROM SURFACE 6'<br>(60" minimum under county roads)  |                      |  |  |  |  |
| SIZE AND KIND OF PIPE/CABLE 16" steel d  | listribution line    |  |  |  |  |
| NUMBER OF EXCAVATIONS 1  |                      | OF EXCAVATIONS 20x20<br>, width, and depth)  |  |  |  |
| LOCATION OF EXCAVATIONS ALL EXCAVATIONS AF<br>Specific written descriptions of excavations - if shown on attached<br>location. Traffic control plans cannot be approved without specif | RE TO BE PROTECTED A | T ALL TIMES AND THEN BACKFILLED WHEN U<br>I be specific with depth and distance from ce        |  |  |  |
| See plan sheet 2103  |                      |  |  |  |  |

THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY

ACTD reserves the right to make changes to these special conditions. 1 | P a g e



ANOKA COUNTY TRANSPORTATION DIVISION 1440 BUNKER LAKE BLVD NW ANDOVER, MN 55304 PERMIT PHONE: 763-324-3176 highwaypermits@anokacountymn.gov

# **GENERAL INFORMATION**

One permit must be approved for each county road on which work will be performed prior to any work within the right of way by any utility/contractor. Emergency conditions which threaten the safety of the public and require immediate repair are exceptions to this rule. Under those circumstances, the utility/contractor is permitted to begin and/or complete the necessary repairs. The Anoka County Transportation Division (ACTD) shall be notified of emergency repairs as soon as feasible and a written permit is to be completed within two business days of occurrence.

A license-permit bond is generally required of the contractor as part of the registration process, the amount of which will be determined by the nature of the utility work.

A sketch or drawing shall accompany each permit application which will show the location of the proposed work/utility with reference to the county highway center line and right of way line. A complete set of plans is required for all sewer/water projects.

It shall be the responsibility of the applicant to determine which of the special conditions apply to each permit.

ACTD reserves the right to revoke any utility permit and halt work, if, upon inspection of any job site, the special conditions are not met, and/or a hazard exists for the applicant or public safety is threatened. The failure to comply with the terms and conditions of any applicable Federal, State, Regional, and local laws, rules and regulations, including any provision of Anoka County's Right-of-Way Ordinance shall be cause for immediate revocation of a permit.

The applicant shall notify ACTD immediately upon completion of project so that the ACTD can inspect the site to determine if restoration has been satisfactorily completed.

The undersigned hereby accepts the terms and conditions of this permit and the regulations of Anoka County, and agrees to fully comply therewith to the satisfaction of the ACTD. The county of Anoka, its officials, employees, and agents, shall be held harmless, by the applicant/permittee, from any demands, claims, lawsuits, or damages relating to the work described in this permit.

APPLICANT'S SIGNATURE

George Wojcicki

DATE 4/17/2025

DATE

# AUTHORIZATION OF PERMIT

In consideration of the applicant's agreement to comply in all respects with the regulations of the ACTD covering such operations, permission is hereby granted for the work to be done as described in the above application. Said work to be done in accordance with the general conditions listed above and the special conditions required as hereby stated. It is expressly understood that this permit is conditioned upon replacement or restoration of the county highway and its right of way to their original or to a satisfactory condition. It is further understood that this permit is issued subject to the approval of local city or township authorities having joint supervision over said street or highway.

APPROVED BY:

TITLE: Traffic Technician

NOT VALID UNLESS SIGNED BY ANOKA COUNTY

ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

# SPECIAL CONDITIONS

# TRAFFIC CONTROL

cally Respo

1) Detours

Anoka Countv

MINNESOTA

- a) Detailed detour layouts shall be submitted to the traffic engineer for approval.
- b) No detours shall be permitted without prior approval of the Anoka county traffic engineer.
- c) A ten day notice must be given prior to the installation of any detour.
- d) It shall be the responsibility of the applicant to notify Anoka county central communications, local government bodies, and any affected bus companies ten days prior to any road closures/detours.
- e) Immediately upon completion of work and/or detours, all posts, barricades, and signs shall be removed from the right of way.

# 2) Traffic control devices

a) All traffic control devices, barricades, flashers, etc., shall be furnished by the applicant and shall be in accordance with the most recent edition of the Minnesota manual on uniform traffic control devices and temporary traffic control zone layouts – field manual of the same manual.

# CONSTRUCTION REQUIREMENTS

- 1) Open cutting of bituminous or concrete surfaced roads will be allowed only at the discretion of the county engineer.
- 2) Neither supplies nor excavation materials shall be placed on the bituminous or concrete surface at any time.
- 3) No trenches will be allowed to remain open overnight.
- 4) Materials removed from the trench shall be used as backfill insofar as they are suitable. All backfill material shall conform to MNDOT specifications for compaction. The use of heavy equipment on top of trench, slapping with backhoe bucket and/or back casting to achieve compaction is prohibited. Any additional material required to back fill to the original grade shall be furnished by the applicant at no expense to the ACTD. All the base and surface courses damaged during construction operations shall be restored to a condition equal to or better than before operations began. The applicant shall be responsible for and restore any settlement.
- 5) All culverts, ditches, shoulders, and backslopes shall be restored to their original condition unless otherwise directed by the ACTD. Shoulders which have been previously constructed or reconstructed with special materials shall be replaced in kind. Restoration of signs, guardrails, guard posts, etc., are the sole responsibility of the applicant and shall be restored to their original condition.
- 6) All roadway maintenance required within the limits of the utility project that is related to the applicant's activities shall be the sole responsibility of the applicant for one year after completion of the project. Upon completion of the restoration work, the applicant shall request a final inspection by the ACTD. The ACTD's approved completion date shall be the starting date of the applicant's one-year responsibility.

# HORIZONTAL BORING AND JACKING

- 1) All hard surface roadways shall be jacked or bored.
- 2) All crossings of Anoka County maintained roadbeds, shall be made by boring inside a casing or carrier pipe, or by jacking unless otherwise directed by the Anoka County Engineer. The auger shall lead the casing or carrier pipe by at least six inches whenever possible and never lead the carrier pipe by more than one inch.
- 3) The use of pneumatic devices to facilitate the roadbed crossings will be allowed in most cases with prior approval. In the event approval is not granted and applicant uses a pneumatic device to cross a roadbed and encounters an obstruction and/or unstable subbase material which makes forward or reverse motion of pneumatic device impossible, said pneumatic device then becomes part of the roadway subbase and permission to excavate to retrieve device will not be granted.
- 4) If a pneumatic device is used for the work permitted herein, the installation must be kept to a minimum of four feet below the surface of the roadway if the pneumatic device is less than two inches in diameter, and a minimum of five feet below the surface of the roadway if the pneumatic device is two inches in diameter or larger.

# **BITUMINOUS RESTORATION**

- 1) The locations and dimensions of all openings to be made in the bituminous surface shall be approved by the ACTD prior to any cutting or any surface opening operations.
- 2) All openings in bituminous surfaces shall be cut in a straight line with the sides smooth and vertical. No ragged edges will be permitted. Cutting shall be done with a concrete saw.
- 3) All necessary dust control operations shall be carried out by the applicant at no expense to Anoka County.
- 4) The minimum requirement for subgrade replacement shall be the upper twelve inches of material and shall meet MNDOT specifications for class five placed in six inch layers compacted to one hundred percent of optimum density.
- 5) All manhole casings, gate valves, and other utility structures shall be set one quarter inch below the top of the finished surface.
- 6) Bituminous tack coat materials and application thereof shall conform to MNDOT specification 2357.
- 7) All bituminous surfacing shall be replaced as soon as practicable after the base construction. All bituminous surfacing shall be machine laid. Any exceptions must be approved by the ACTD. Bituminous surfacing shall be replaced to original pavement depth or to a minimum of six inches of bituminous mixture (2360), whichever is greater. Bituminous mixtures must be placed in lifts not exceeding three inches in thickness for base and binder courses and not exceeding two inches for the wear course.
- 8) All surface restoration regardless of size shall conform to existing grades.
- 9) Any unnecessary or negligent damage to bituminous surface in conjunction with the installation and/or repair of a utility shall be cut out and replaced in kind as directed by the ACTD.

Anoka County

Respectful, Innovative, Fiscally Responsible

GW

ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

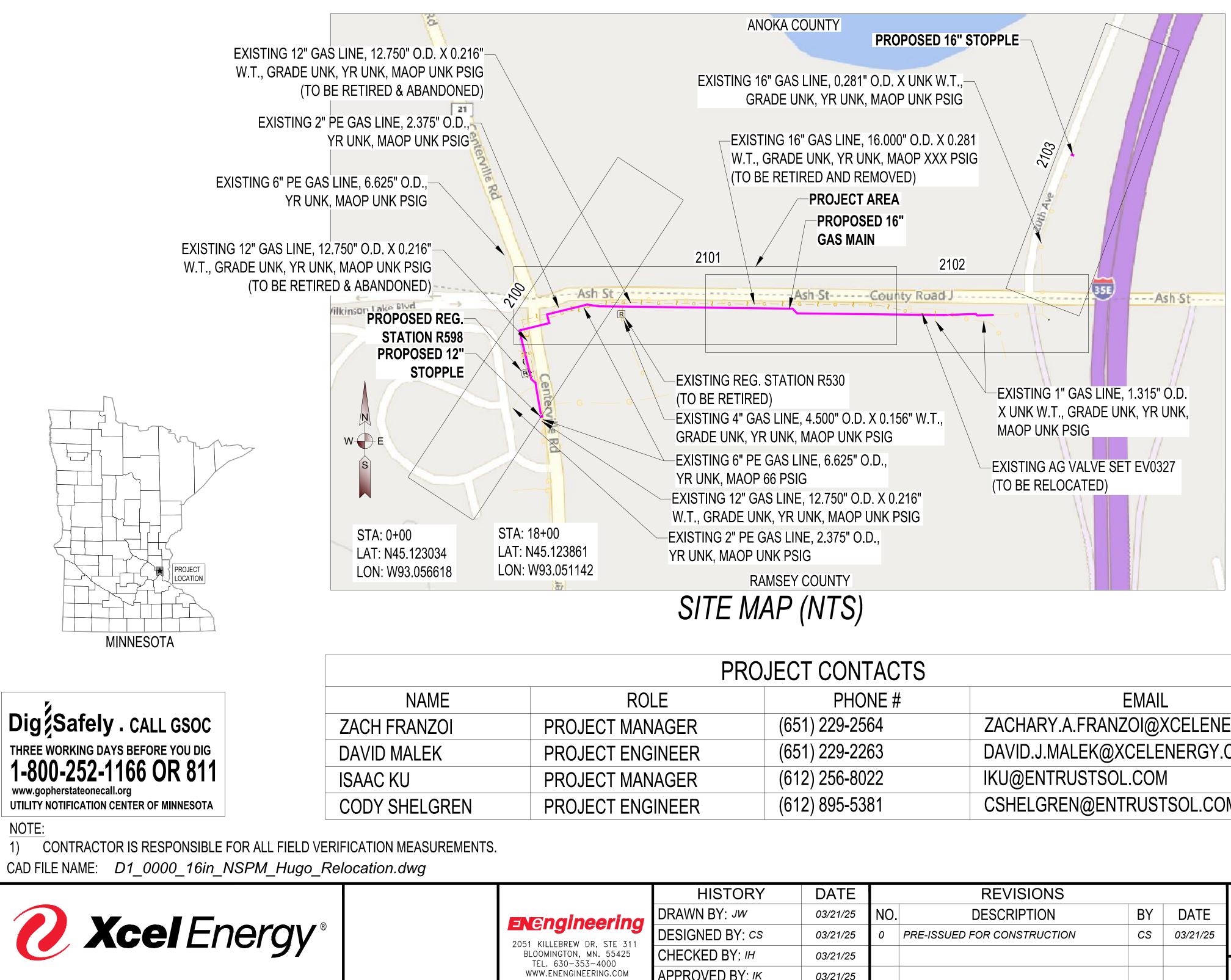
ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

| CON   | ICRETE RESTORATION  |
|-------|---|
| 1)    | Curb and gutter, sidewalks, and driveways shall be restored in accordance with MNDOT specifications 2531 and 2521.  |
| UTIL  | ITY LINES   |
| -     | There shall be only a single pole line on the county right of way on either side of the center line thereof.<br>Exact locations of longitudinal installations on county highways shall be located as directed by the ACTD.  |
| SECT  | TION CORNER MONUMENTS   |
|       | Utility locations shall not interfere with the location of any section, quarter, witness, or right of way monuments. For assistance in locations, contact the Anoka County Surveyor's Office.   |
| 3)    | The applicant shall be responsible for replacement of any existing property irons disturbed during construction.<br>The applicant shall notify the Anoka County Surveyor's Office three working days in advance of any anticipated disturbance of any section, quarter, witness, or right of way monuments. |
| 4)    | Any monument disturbed during the course of construction, shall be reset by the Anoka County Surveyor's Office at the expense of the applicant.   |
| ATTA  | ACHING TO BRIDGES/STRUCTURES  |
| _     | No utility is permitted to be hung from, or otherwise attached to, any bridge or structure without having detailed plans approved<br>by the Anoka County Engineer. These plans are to show approaches to the structure, method of installation, type, and dimension<br>of housing for the utility.          |
| ADD   | ITIONAL PROVISIONS  |
|       | All subcontractors, installers, and crew shall possess a physical or electronic copy of all documents in relation to the approved permit prior to the commencement of work and be kept on site. This includes, but it not limited to the following:<br>a) Approved permit                                   |
| 2)    | b) Any/all traffic control plans and/or layouts<br>Shall notify Anoka County Permits at 763-324-3176 or highwaypermits@anokacountymn.gov  |
| 2)    | a) At least 36 hours prior to the commencement of work  |
|       | b) With time frame of proposed of work  |
|       | c) Anticipated traffic control  |
|       | d) When work is complete - including restorations - to request a final inspection   |
|       | No work during inclement weather or when plows are out in any capacity  |
|       | All traffic control shall be in accordance with the most current version of the MnDOT Temporary Traffic Control Field Manual  |
|       | For staking of right-of way or proposed infrastructure, contact Chris Osterhus at 763-324-3189 a minimum of 48 hours prior to the commencement of work.   |
|       |   |
| ΙΝΙΤΙ |   |

# **16" HUGO RELOCATION PROJECT** WHITE BEAR TOWNSHIP, MINNESOTA PRE-ISSUED FOR CONSTRUCTION



FLOC: GT-00000011018

| FUNCTIONAL LOCAT              | ION - INDEX        |
|-------------------------------|--------------------|
| FUNCTIONAL LOCATION           | DESCRIPTION        |
| GT-00000011018                | 16" STEEL MAINLINE |
| GT-00000011018-STA-RS0000R598 | R598               |

| PRC | JECT CONTACTS  |                                  |
|-----|----------------|----------------------------------|
|     | PHONE #        | EMAIL                            |
| R   | (651) 229-2564 | ZACHARY.A.FRANZOI@XCELENERGY.COM |
| R   | (651) 229-2263 | DAVID.J.MALEK@XCELENERGY.COM     |
| R   | (612) 256-8022 | IKU@ENTRUSTSOL.COM               |
| R   | (612) 895-5381 | CSHELGREN@ENTRUSTSOL.COM         |

| HISTORY          | DATE     |     | REVISIONS                   |    |          | 16                | IN HUG             |
|------------------|----------|-----|-----------------------------|----|----------|-------------------|--------------------|
| DRAWN BY: JW     | 03/21/25 | NO. | DESCRIPTION                 | BY | DATE     |                   | /ER & <sup>-</sup> |
| DESIGNED BY: cs  | 03/21/25 | 0   | PRE-ISSUED FOR CONSTRUCTION | CS | 03/21/25 |                   |                    |
| CHECKED BY: IH   | 03/21/25 |     |                             |    |          |                   |                    |
| APPROVED BY: IK  | 03/21/25 |     |                             |    |          | SERVICE CENTER: W | HITE BEAR LA       |
| IN SERVICE DATE: |          |     |                             |    |          | DIVISION: METRO   | CITY/C             |

| WORK ORDER - INDEX     |                    |  |  |  |  |  |
|------------------------|--------------------|--|--|--|--|--|
| WORK ORDER DESCRIPTION |                    |  |  |  |  |  |
| 111539486              | 16" STEEL MAINLINE |  |  |  |  |  |
| 113583150              | R598               |  |  |  |  |  |
| 113283120              | KJYÖ               |  |  |  |  |  |

# 

| DRAWING NUMBER SERIES - INDEX |                           |  |  |  |  |  |
|-------------------------------|---------------------------|--|--|--|--|--|
| NUMBER SERIES                 | DISCIPLINE                |  |  |  |  |  |
| 0000                          | COVER SHEETS              |  |  |  |  |  |
| 1000                          | P&ID                      |  |  |  |  |  |
| 2000                          | PIPELINE                  |  |  |  |  |  |
| 3000                          | PRESSURE TESTING & TIE-IN |  |  |  |  |  |
| 4000                          | CIVIL & STRUCTURAL        |  |  |  |  |  |
| 6000                          | PIPING                    |  |  |  |  |  |
| 10000                         | ENVIRONMENTAL             |  |  |  |  |  |

# DRAWING DISCLAIMER: FACILITY LOCATIONS AND DEPTHS ARE GENERAL IN NATURE. XCEL ENERGY WILL NOT BE ACCOUNTABLE FOR ACCURACY OF THE INFORMATION PROVIDED ON THESE DRAWINGS.

# PROJECT COORDINATE SYSTEM: RAMSEYMN-F

| GO RELOCATION<br>TITLES WITH VI<br>COVER SHEET | drawing<br>0000           |  |
|--|---------------------------|--|
| AKE SC   | ^                         |  |
| COUNTY: WHITE BEAR LAKE                        | RAMSEY TYPE: DISTRIBUTION |  |
|  |                           |  |

| DESCRIPTION - 16" OPEN TRENCH PIPE                       | CARRIER PIPE                  |
|--|-------------------------------|
| METHOD OF INSTALLATION                                   | OPEN TRENCH                   |
| PERMIT REQUIREMENTS                                      | RAMSEY COUNTY/ANOKA COUNTY    |
| AGENCY NOTIFICATION                                      | RAMSEY/ANOKA/NORTH OAKS/WHITE |
| AGENCT NOTIFICATION                                      | BEAR/LINO LAKES               |
| CONSTRUCTION TIMING                                      | 2025                          |
| CONTENTS TO BE HANDLED                                   | NATURAL GAS                   |
| OUTSIDE DIAMETER   | 16.000"                       |
| PIPE MATERIAL  | STEEL                         |
| SPECIFICATION & GRADE                                    | API 5L, GRADE X52             |
| WALL THICKNESS   | 0.375"                        |
| DESIGN PRESSURE  | 1219 PSIG                     |
| TYPE OF JOINT  | WELDED                        |
| COATING  | 14 - 16 MILS FBE              |
| BURY: DEPTH OF CARRIER PIPE UNDER CROSSING BOTTOM        | 0.4 - 10.2 FT.                |
| CATHODIC PROTECTION (TYPE)                               | RECTIFIED                     |
| POST-INSTALLATION (8-HOUR) MIN./MAX TEST PRESSURE (PSIG) | 753 - 853 PSIG                |
| NON-DESTRUCTIVE TESTING                                  | 100% XRAY                     |
|  |                               |

NOTE: 1) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASUREMENTS.

CAD FILE NAME: D1\_0000\_16in\_NSPM\_Hugo\_Relocation.dwg



Image: Constraint of the stateImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of the stateImage: Constraint of the state2051 KILLEBREW DR, STE 311<br/>BLOOMINGTON, MN. 55425<br/>TEL. 630-353-4000<br/>WWW.ENENGINEERING.COMImage: Constraint of

FLOC: GT-00000011018

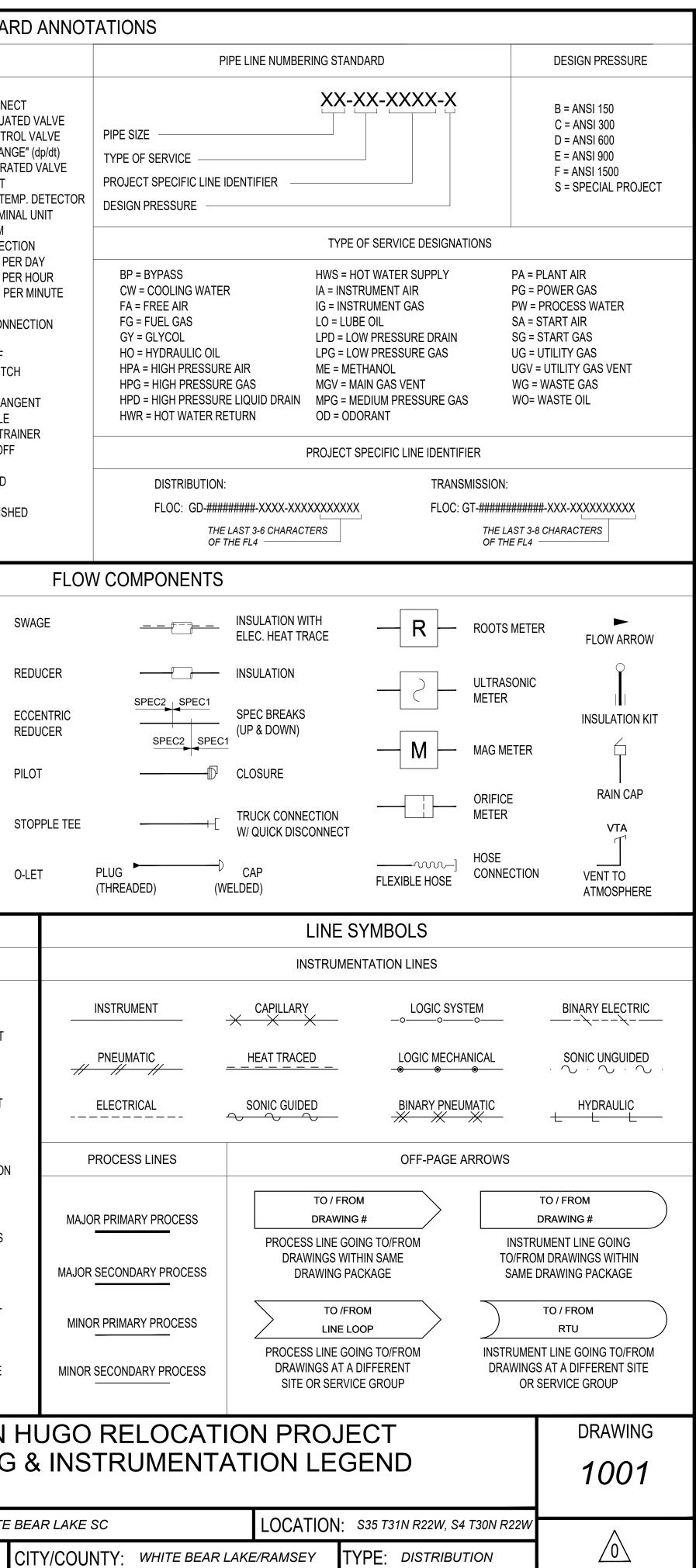
| % SMYS TABLE   |     |       |  |  |  |  |
|--|-----|-------|--|--|--|--|
| DESCRIPTION PRESSURE % SMYS 16.000" O.D. 0.375" WT X52 |     |       |  |  |  |  |
| MOP  | 350 | 14.4% |  |  |  |  |
| MAOP   | 485 | 19.9% |  |  |  |  |
| MIN. TEST PRESSURE                                     | 753 | 30.9% |  |  |  |  |

| HISTORY             | DATE     |     | REVISIONS                   |    |          | 16 IN  | N HUGO REL     | OCATION PRO           | JECT               | DRAWING |
|---------------------|----------|-----|-----------------------------|----|----------|--|----------------|-----------------------|--------------------|---------|
| WN BY: JW           | 03/21/25 | NO. | DESCRIPTION                 | BY | DATE     | PIPELINE SPECIFICATIONS<br>COVER SHEETS                                    |                |                       |                    | 0201    |
| GNED BY: cs         | 03/21/25 | 0   | PRE-ISSUED FOR CONSTRUCTION | CS | 03/21/25 |  |                |                       |                    |         |
| CKED BY: IH         | 03/21/25 |     |                             |    |          |  |                |                       |                    |         |
| ROVED BY: <i>IK</i> | 03/21/25 |     |                             |    |          | SERVICE CENTER: WHITE BEAR LAKE SC LOCATION: \$35 T31N R22W, \$4 T30N R22W |                | $\wedge$              |                    |         |
| ERVICE DATE:        |          |     |                             |    |          | DIVISION: METRO  | CITY/COUNTY: W | HITE BEAR LAKE/RAMSEY | TYPE: DISTRIBUTION |         |

#### INSTRUMENT IDENTIFICATION TABLE ALARMS\* FIRST LETTER MEASURING DEVICES CONTROLLING DEVICES C CV V Z A E W R I T RT IT G RC IC L LL H HH IS Ш MEASURED OR INITIAL VARIABLE FINAL Õ AE ART ARC AIC AAH/AAHH ANALYZER AW AR AI AT AIT AC AV AA AAL/AALL AIS BURNER, COMBUSTION BE BW BRC BIC BC ΒZ BR BT BRT BIT BA BAL/BALL BAH/BAHH BIS BI BG CONDUCTIVITY (ELECTRICAL) CZ CE CR CT CRT CIT CRC CIC CC CA CAL/CALL CAH/CAHH CIS CL DENSITY OR SPEC. GRAV. DE DR DI DT DRT DIT DRC DIC DC DA DAL/DALL DAH/DAHH DIS ERC EIC EC VOLTAGE EE ER EI ΕT ERT EIT EZ EA EAL/EALL EAH/EAHH EIS FLOW FRT FIT FG FRC FIC FC FCV FV FE FR | FI | FT FA FAL/FALL FAH/FAHH FIS USER'S CHOICE HAND INITIATED HIC | HC | HCV | HV CURRENT (ELECTRICAL) IRC IIC IZ | IA IR II IT IRT IIT IAL/IALL IF IAH/IAHH IIS POWER JE JR JI JT JRT JIT JRC JIC JZ JA JAL/JALL JAH/JAHH JIS TIME OR TIME SCHEDULE KR KI KT KRT KIT KRC KIC KC KCV KZ KA KAL/KALL KAH/KAHH KE KIS LEVEL LE | LW | LR | LI LT | LRT | LIT | LG LRC LIC LC LCV LV LA LAL/LALL LAH/LAHH LIS MOISTURE OR HUMIDITY ME MRT MIS MR MI MT MIT MRC MIC MC MV MA MAL/MALL MAH/MAHH USER'S CHOICE USER'S CHOICE PR PI PT PRT PIT PRC | PIC | PC | PCV PA PAL/PALL PRESSURE OR VACUUM PE PV PAH/PAHH PIS QE QA QUANTITY OR EVENT QR QI QT QRT QIT QRC | QIC QZ QAL/QALL QAH/QAHH QIS RADIOACTIVITY RE RW RR RI RT RRT RIT RRC RIC RZ RA RAL/RALL RAH/RAHH RIS RC SE SRT SIT SZ SIS SPEED OR FREQUENCY SR SI ST SRC | SIC | SC | SCV | SV SA SAL/SALL SAH/SAHH TE | TW | TR | TI | TT | TRT | TIT TRC TIC TC TCV TV TEMPERATURE TAL/TALL TAH/TAHH TIS TA MULTI-VARIABLE UV UA VA VIBRATION VE VR VI VT VRT VIT VAH/VAHH VIS WEIGHT OR FORCE WE WR WI WT WRT WIT WRC | WIC | WC | WCV WZ WA WAL/WALL WAH/WAHH WIS SHUTDOWN XV XA XAL/XALL XAH/XAHH EVENT, STATE OR PRESENCE ZR ZI ZT ZRT ZIT ZRC ZIC ZC ZCV ZV ZA ZAL/CLOSE ZAH/OPEN ZIS POSITION ZE \*S, SWI THE FOLLOWING IS A GUIDE FOR ADDING ADDITIONAL INSTRUMENT ABBREVIATIONS (TYPICAL OR PREFERRED USAGE) SAME F **1st POSITION** 2nd POSITION 3rd POSITION 4th POSITION **1st POSITION** 2nd POSITION ANALYSIS ALARM ALARM ORIFICE (RESTRICTION) POINT (TÈXT CONN.) BURNER BOARD PRESSURE OR VACUUM CONTROL. CONTROLLER INTEGRATE (TOTALÍZE) CONDUCTIVITY (ELECTRICAL) CONTROL. CONTROLLER CONTROLLER QUANTITY OR EVENT DENSITY OR SPÈCIFIC GRAVITY DIFFERENTIAL DEVICE RADIOACTIVITY RECORDER ELEMENT ELEMENT SWITCH, SAFETY VOLTAGE (EMF) SPEED OR FREQUENCY FRACTION (RATIO) TRANSMITTER FLOW TEMPERATURE MULTIFUNCTION MULTIVARIABLE GLASS HAND INITIATED HIGH VIBRATION, MECH, ANALYSIS VALVE, DAMPER, LOUVER HIGH INDICATOR, INDICATING INDICATOR INDICATOR WEIGHT OR FORCE CURRENT (ELECTRICAL) W WELL POWER SHUTDOWN, X AXIS SCAN SHUTDOWN TIME TIME RATE OF CHANGE CONTROL STATION EVENT, STATE OR PRESENCE RELAY, Y AXIS LEVEL LIGHT (PILOT) LOW LOW POSITION DRIVE, FINAL CONTROL MIDDLE M | MOISTURE OR HUMIDITY MOMENTARY MIDDLE ELEMENT, Z AXIS VALVES & ACTUATORS XX XXXX PIT XX GATE VALVE PRESSURE-REDUCING DIAPHRAGM / $\bigcirc$ Щ XXXX SPRING-OPPOSED **REGULATOR W/** $\bowtie$ PRESSURE INDICATOR FIELD LOCAL PA PRESSURE TAPPED / MOUNTED FRONT MOU PILOT-OPERATED REMOTE ACTUATED GLOBE VALVE REGULATOR VALVE / EMERGENCY XX / xx` SHUT DOWN VALVE DIRECT OPERATED XXXX $( \square )$ XXXX PLUG VALVE REGULATORS RELIEF VALVE FIELD LOCAL PA Þ MOUNTED FRONT MOL PRESSURE SELF W/ HAND WHEEL ISOLATION VALVE /xx NEEDLE VALVE 123456 (BOX AROUND TAG) ROTARY MOTOR FIELD LOCAL PA MOUNTED FRONT MOU **PROJECT-SPECIFIC SYMBOLS** PINCH VALVE SOLENOID XX XXXX XX XXXXX 3-WAY VALVE SPRING ACTUATED (CAN BE SHOWN AS FIELD LOCAL PA SINGLE-ACTING OR 4-WAY VALVE MOUNTED FRONT MOU DOUBLE-ACTING) NORMALLY-CLOSED VALVES SHOWN BLACKED OUT X X NOTE: `\\xxxx*]/* $\sim$ CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASUREMENTS. MISCELI 1) PILOT LIGHT HEAT TRACE INSTRUMEN CAD FILE NAME: D1\_1000\_16IN\_NSPM\_HUGO\_RELOCATION.dwg DRAWN **Xcel**Energy<sup>®</sup> **ENGINGERING** DESIGN 2051 KILLEBREW DR, STE 311 CHECK BLOOMINGTON, MN. 55425 TEL. 630-353-4000 APPRO WWW.ENENGINEERING.COM

FLOC: GT-00000011018

|   |                                    |                          |                         | <b>C</b> *                             |  |  | MISC                     |   |  | ٨٥٥   |  |                              | STANDAF   | RD ANN(  |
|---|------------------------------------|--------------------------|-------------------------|--|--|--|--------------------------|---|--|---|--|------------------------------|---|----------|
|   |                                    |                          |                         |  | VO   | VOL  | MISC.                    |   |  | ABB   | REVIATIONS   |                              |   |          |
|   | S AS<br>S BS<br>S CS<br>S DS       | CLOSED                   | OPEN                    | Y<br>AY<br>BY<br>CY<br>DY<br>EY        | XSL<br>NMOQLINHS<br>AXSL<br>BXSL<br>CXSL<br>DXSL<br>EXSL |  | SAFETY<br>DEVICE         | ATM = ATMOSPHERE<br>AC = AIR TO CLOSE<br>AFFF = AQUEOUS FILM FORMING<br>AG = ABOVE GROUND / GRADE<br>AO = AIR TO OPEN<br>AS = AIR SUPPLY<br>BD = BLOWDOWN<br>BF = BLIND FLANGE<br>BG = BELOW GROUND / GRADE<br>CBD = CONTINUOUS BLOWDOW<br>CC = CHEMICAL CLEAN          | HP = HIGH PRESSURE<br>HSD = HAND SHUTDOWN<br>HV = HAND VALVE<br>IP = INJECTION POINT<br>IU = INSULATING UNION<br>LAT = LOW ATMOSPHERIC TIDE<br>LC = LOCK CLOSED<br>LD = LIQUID DRAINER |   | TIC RAV = REMOTE A<br>RCV = REMOTE C<br>ROC = "RATE OF<br>ROV = REMOTE C<br>RP = REDUCED P<br>RTD = RESISTAN<br>RTU = REMOTE T<br>S/S = SEAM TO S<br>SC = SAMPLE CO<br>SCFD = STD. CU. |                              | ED VALVE<br>DL VALVE<br>GE" (dp/dt)<br>FED VALVE<br>MP. DETECTC<br>AL UNIT<br>TION<br>R DAY   |          |
| IH FI:<br>H IIS<br>IH JI:<br>IH KI<br>IH LI:<br>IH MI   | HS<br>S IS<br>S JS<br>S KS<br>S LS |                          |                         | FY<br>HY<br>IY<br>JY<br>KY<br>LY<br>MY | FXSL<br>IXSL<br>JXSL<br>KXSL<br>LXSL<br>MXSL             | FXSH<br>IXSH<br>JXSH<br>KXSH<br>LXSH<br>MXSH |                          | CD = CLOSED DRAIN<br>CHO = CHAIN OPERATED<br>CO = CLEAN OUT<br>COMB = COMBUSTIBLE GAS<br>CSC = CAR SEAL CLOSED<br>CSO = CAR SEAL OPEN<br>DC = DRAIN CONNECTION<br>DCS = DISTRIBUTED CONTROL S<br>ESD = EMERGENCY SHUTDOWN<br>ELEV = ELEVATION<br>F/F = FLANGE TO FLANGE | LOR =<br>LP = I<br>MW =<br>N2 = I<br>NC =<br>SYSTEM NLL =<br>NNF =<br>NO =   | LOV = LOCALLY OPERATED VALVE<br>LOR = LOCAL-OFF-REMOTE<br>LP = LOW PRESSURE<br>MW = MANWAY<br>N2 = NITROGEN<br>NC = NORMALLY CLOSED |  |                              | SCFH = STD. CU. FT. PER HOUR<br>SCFM = STD. CU. FT. PER MINUTE<br>SD = SHUTDOWN<br>SO = STEAM OUT CONNECTION<br>SP = SET POINT<br>SR = STRESS RELIEF<br>SS = SELECTOR SWITCH<br>ST = STEAM TRAP<br>T/T = TANGENT TO TANGENT<br>TC = THERMOCOUPLE<br>TS = TEMPORARY STRAINER |          |
| IH PI<br>IH QI<br>IH RI<br>IH SI<br>IH TI   | S QS<br>S RS<br>S SS               |                          |                         | PY<br>QY<br>RY<br>SY<br>TY<br>UY       | PXSL<br>QXSL<br>RXSL<br>SXSL<br>TXSL                     | QXSH<br>RXSH                                 | PSV/PSE<br>TSE           | FC = FAIL CLOSED<br>FL = FAIL LAST<br>FO = FAIL OPEN<br>FP = FULL PORT<br>GPH = GALLONS PER HOUR  | PB =<br>PC =<br>PLC =  | PUSHBU<br>PURGE (<br>= PROGR  |  | T:<br>T<br>CONTROLLER U<br>V | SO = TIGHT SHUT OFF<br>YP = TYPICAL<br>G = UNDERGROUND<br>T = VENT<br>/) = VENDOR FURNISH   |          |
| ih Vi<br>Hh Wi  |                                    |                          |                         | VY<br>WY                               | WXSL   | VXSH<br>WXSH                                 |                          |   |  |   |  |                              |   | FL       |
| IH  | XS                                 |                          |                         | XY                                     |  |  |                          |   |  |   |  | INER / FILTER                |   | SWAGE    |
| EN ZI   | S ZS                               | ZSC                      | ZSO                     | ZY                                     |  |  |                          |   |  |   | JE SIRA  | INER / FILTER                |   | SWAGE    |
|   | S, SWITCH<br>AME FASH              |                          |                         |  |  |  |                          | OPEN S  | PECTACLE   | <u></u>   | FLAN   | GED TEE<br>INER              |   | REDUCER  |
| ION 3rd POSITION 4th POSITION ON) OPEN  |                                    |                          |                         | O SPECTACLE                            |  | Y-STI  | RAINER WITH<br>N VALVE   |   | ECCENTRIC<br>REDUCER   |   |  |                              |   |          |
| )<br>ZE)  | RECO                               | RNER                     |                         |  | RECOR  |  |                          |   | -  | <u>_</u>  | BIFE   | D RING                       | —P I  | PILOT    |
| RECORDER     RECORDER       SAFETY, SWITCH     TRANSMITTER       MULTIFUNCTION     MULTIFUNCTION       UVER     VALVE, DAMPER, LOUVER |                                    |                          |                         | <u> </u>                               | ш.<br>іДі  | BLEE   | D RING<br>VALVE          | <br>  | STOPPLE TEI  |   |  |                              |   |          |
| ROL   |                                    | /<br>, final<br>Rol-elen | <i>I</i> /ENT           |  |  |  |                          | Ì↓ ORIFICE<br>WITH V  | -  | ×   | DRES   | SER                          | (   | O-LET    |
|   |                                    |                          |                         |  |  |  |                          | INSTRUMENTATION   |  |   |  |                              |   |          |
| (   | xx<br>xxxx                         |                          | (                       | XX<br>XXXX                             |  |  | XX<br>XXXX               |   |  |   | FUNCTION   | I SYMBOLS                    |   | _        |
|   | CAL PANEL                          |                          |                         | AL PAN                                 |  |  | NDARY PAI                | ED BACK MOUNTED   | MULTIPLY   |   | f(x)<br>INSPECIFIED<br>PROPORTION  | ><br>HIGH SELECT             | ►<br>HIGH LIMIT   | -        |
| LOC   | XX<br>XXXX<br>AL PANEL<br>T MOUNTE |                          | LOC                     | AL PAN                                 |  |  | NDARY PAI                |   | DIVISION   |   | (t)<br>ME FUNCTION   | LOW SELECT                   | LOW LIMIT   | -        |
| LOC   | XX<br>XXXX<br>CAL PANEL            |                          | LOC                     | XX<br>XXXX<br>AL PAN                   |  |  | XX<br>XXXXX<br>NDARY PAI |   | ROOT EXTRACTIO   | N E   | x"<br>XPONENTIAL   | ✓         VELOCITY LIMITER   |   |          |
|   | T MOUNTE                           | ט <u>-</u>               |                         |  |  | FRU  |                          | ED BACK MOUNTED   | I-O<br>SUMMATION   | PLI   | <u>+</u><br>JS/MINUS BIAS  | MINUS BIAS                   | +<br>PLUS BIAS  | M        |
|   | CAL PANEL                          | Ð                        |                         | AL PAN<br>Moun                         |  |  | NDARY PAI<br>NT MOUNTE   |   | Σ<br>SUMMATION   | [   |  | ド<br>PROPORTIONAL            | 」<br>INTEGRAL   | MAJ      |
| HEAT 1  | TRACED<br>UMENT                    | IN                       | AND<br>ITERLOO<br>"AND" | CK II                                  | OR<br>NTERLC<br>"OR"                                     |  | ()<br>ITERLOCK           | PRPURGERESET  | Σ/n<br>AVERAGE   |   | d <sub>dt</sub><br>DERIVATIVE  | %<br>PROPORTIONAL            | SP<br>AVERAGE   | MIN      |
|   | HIS                                | STO                      | RY                      |  |  | ATE  |                          | REVISIO   | NS   |   |  |                              | 16 IN   |          |
| DRA   | WN B                               |                          |                         |  |  | 21/25  | NO.                      | DESCRIPTIC  |  | BY  | DATE   |                              | PIPING  |          |
| DES   | SIGNED                             | ) BY:                    | CS                      |  | 03/.   | 21/25  | 0 1                      | SSUED FOR PRE-CONSTRU   | CTION  | CS  | 03/21/25   |                              |   |          |
|   |                                    |                          |                         |  |  | 21/25  |                          |   |  |   |  | SERVICE CE                   | NTFR white  | BEAR LAK |
|   |                                    |                          |                         |  | 03/.   | 21/25  |                          |   |  |   |  |                              |   |          |
| IN S  | ERVIC                              | E DA                     |                         |  |  |  |                          |   |  |   |  |                              | , ,   |          |



# STANDARD ANNOTATIONS

PLANT SYSTEM DESIGNATION NUMBERS

THE PLANT SYSTEM CAN BE IDENTIFIED BY THE FIRST DIGIT IN THE NUMBER. LISTED ARE THE NUMBERS 1 THROUGH 9 AND THEIR CORRESPONDING PLANT SYSTEMS:

1. MAIN GAS

- 2. PROCESS: ANY PROCESS THAT AFFECTS THE QUALITY OF THE MAIN GAS. (AMINE, PROPANE, METHANOL, GLYCOL, HEAT MEDIUM, ETC..)
- 3. PRODUCT: ANY ITEM PRODUCED FROM THE MAIN GAS STREAM EXCEPT FOR NATURAL GAS. (PROPANE, HELIUM, CO2, ETC..)
- 4. DRAINS & VENTS
- 5. UTILITY GAS: (START, FUEL, INSTRUMENT, ETC..)
- 6. AIR: (MAIN, FREE, START, POWER, ETC..)
- 7. OIL: (LUBRICANT)
- 8. WATER: (COOLING, DOMESTIC, DRAINS, INJECTION, ETC..)
- 9. EXTERNAL SYSTEM: SYSTEMS THAT ARE NOT DIRECTLY RELATED TO THE PURPOSE OF THE PLANT BUT ARE NECESSARY FOR THE PLANT OPERATION. (HALON, ODORANT, GENERATOR, ETC..)

| EQUIPMENT DE   | SIGNATIONS  | EQUIPMENT NUMBERING STANDARD |  |  |  |  |
|--|---|------------------------------|--|--|--|--|
| A = CONTROL PANEL<br>B = PULSATION BOTTLE<br>C = COMPRESSOR<br>D = DRIVER<br>E = EXCHANGER (COOLER)<br>F = FILTER<br>G = GENERATOR<br>H = HEATER (FIRED) | FL = FLARE<br>J = JOINT (EXPANSION)<br>L = LUBRICATOR<br>P = PUMP<br>R = REBOILER<br>S = SILENCER (MUFFLER)<br>TK = TANK<br>V = VESSEL<br>Y = DRYER | EQUIPMENT DESIGNATION CODE   |  |  |  |  |

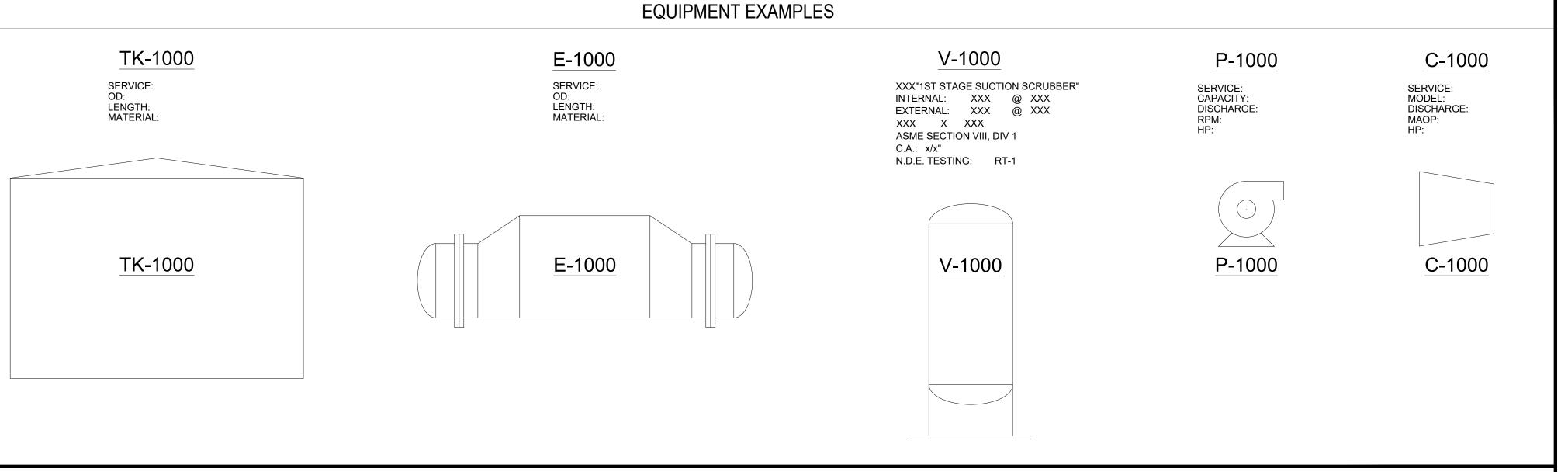
NOTE:

1) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASUREMENTS. CAD FILE NAME: D1\_1000\_16IN\_NSPM\_HUGO\_RELOCATION.dwg



| <b>EN</b> Engineering                       | DRAV  |
|---|-------|
| 2051 KILLEBREW DR, STE 311                  | DESI  |
| BLOOMINGTON, MN. 55425<br>TEL. 630-353-4000 | CHEC  |
| WWW.ENENGINEERING.COM                       | APPR  |
|   | IN SE |

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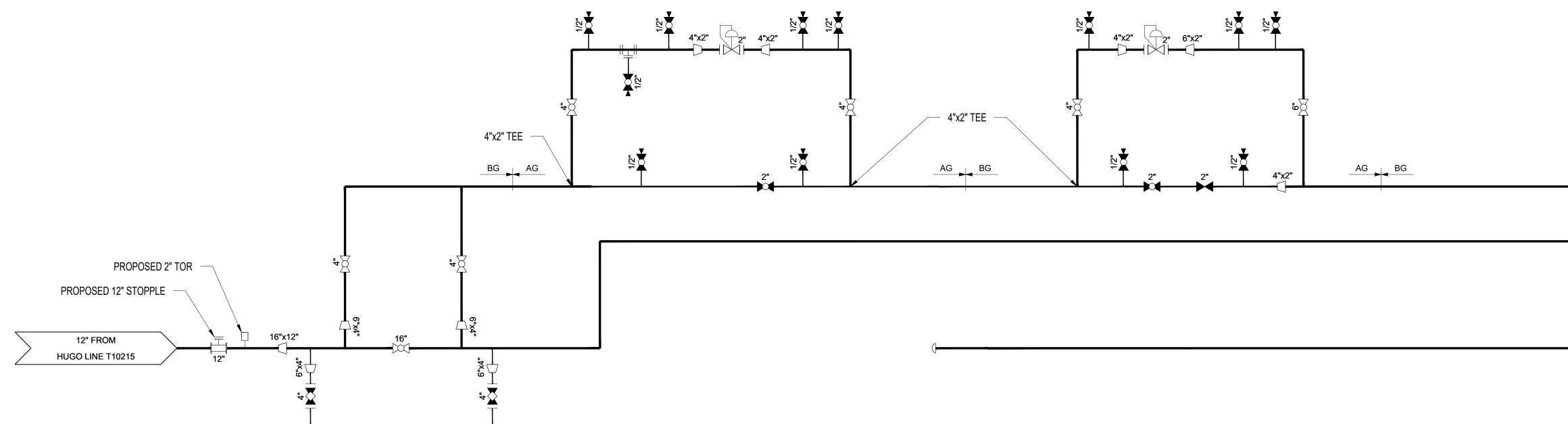
PROJECT-SPECIFIC EQUIPMENT

| HISTORY            | DATE     | REVISIONS                     |    |          | 16 IN                           | HUGO RELOCATIO               | N PROJECT                               |   |  |  |
|--------------------|----------|-------------------------------|----|----------|---------------------------------|------------------------------|---|---|--|--|
| VN BY: <i>MW</i>   | 03/21/25 | NO. DESCRIPTION               | BY | DATE     | PIPING & INSTRUMENTATION LEGEND |                              |   |   |  |  |
| GNED BY: cs        | 03/21/25 | 0 ISSUED FOR PRE-CONSTRUCTION | CS | 03/21/25 |                                 |                              |   |   |  |  |
| CKED BY: <i>IH</i> | 03/21/25 |                               |    |          |                                 |                              |   | - |  |  |
| ROVED BY: IK       | 03/21/25 |                               |    |          | SERVICE CENTER: WHITE           | BEAR LAKE SC                 | LOCATION: \$35 T31N R22W, \$4 T30N R22W | / |  |  |
| RVICE DATE:        |          |                               |    |          | DIVISION: METRO                 | CITY/COUNTY: WHITE BEAR LAKE | E/RAMSEY TYPE: DISTRIBUTION             |   |  |  |

DRAWING

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# NOTE:

1) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASUREMENTS. CAD FILE NAME: D1\_1000\_16IN\_NSPM\_HUGO\_RELOCATION.dwg



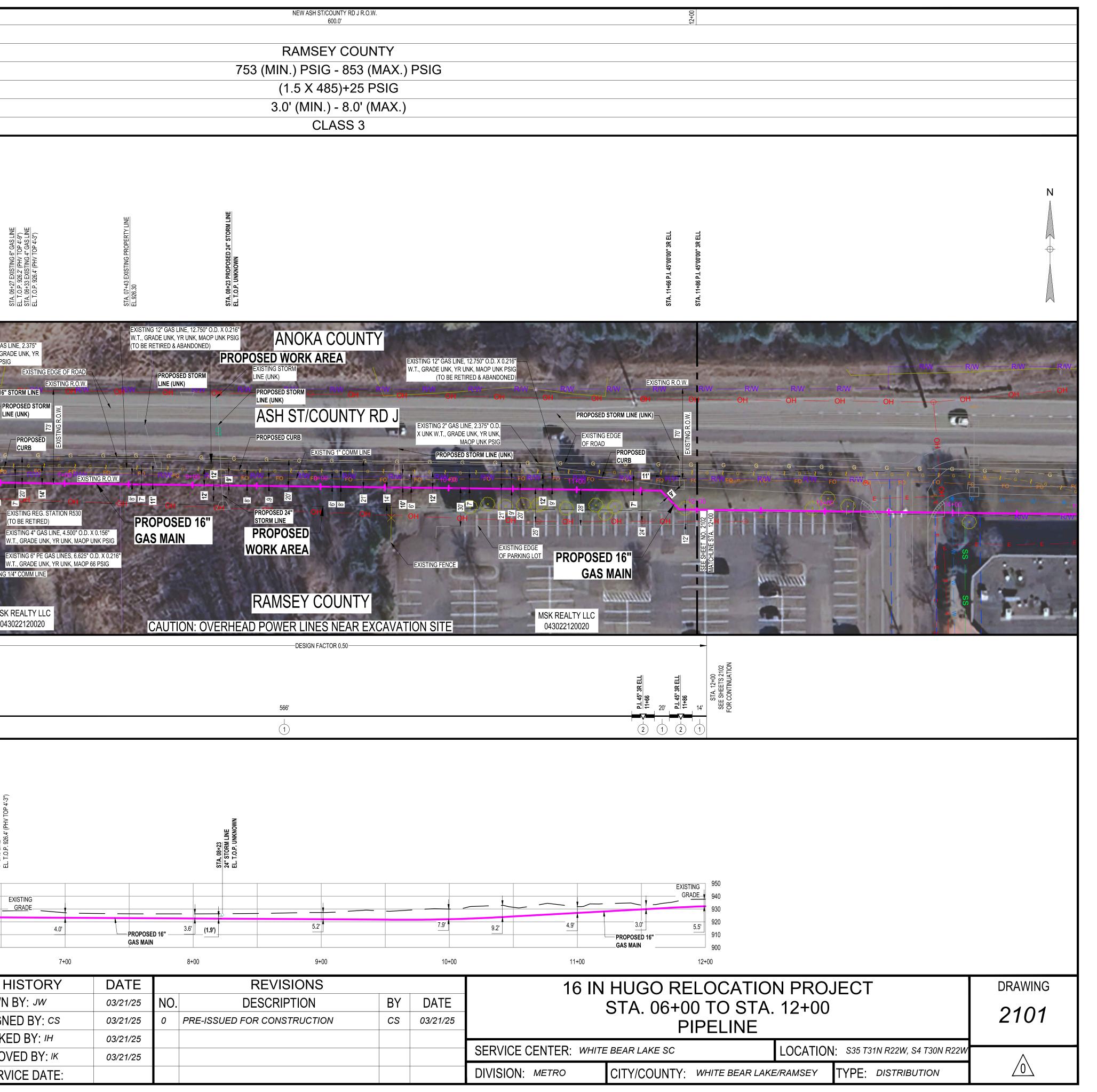
| <b>ENEngineering</b>                        | DRAWN   |
|---|---------|
| 2051 KILLEBREW DR, STE 311                  | DESIGN  |
| BLOOMINGTON, MN. 55425<br>TEL. 630-353-4000 | CHECK   |
| WWW.ENENGINEERING.COM                       | APPRO   |
|   | IN SER\ |

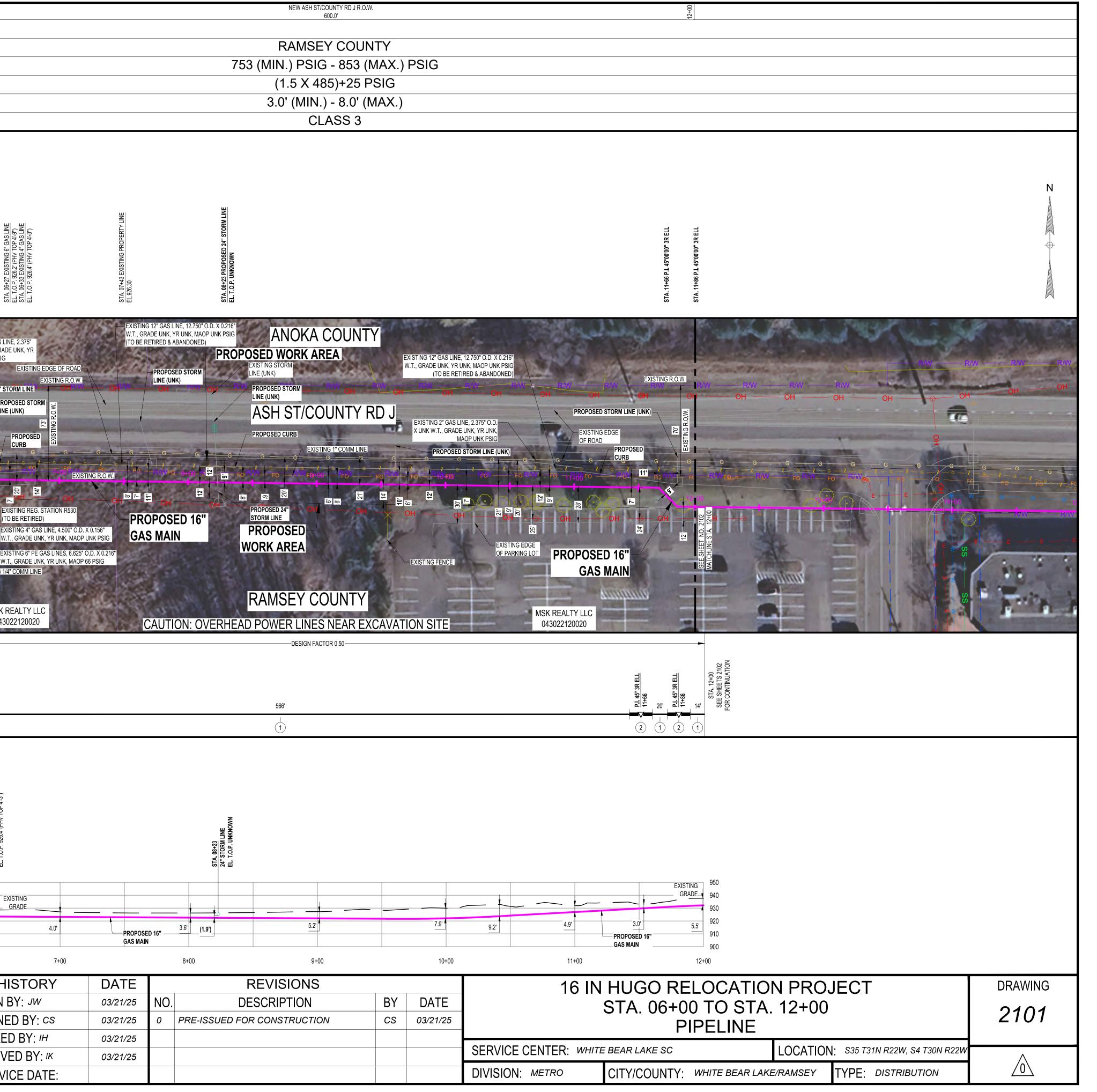
FLOC: GT-00000011018

| 2"<br>2"            |          | 4"x2" TEE<br>G |                    | 2"      | 2" | تى<br>4"x2" | AG BG           |                      | 6"             |             |                        |               | 6" TO          |    |
|---------------------|----------|----------------|--------------------|---------|----|-------------|-----------------|----------------------|----------------|-------------|------------------------|---------------|----------------|----|
| 2"                  |          |                | N                  |         |    |             |                 |                      |                |             |                        | $\rightarrow$ | LINE LOOP      |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               | 16" TO         |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        | Нис           | GO LINE T10215 |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     | 4        |                |                    |         |    |             |                 |                      |                |             |                        |               | 12"            |    |
|                     | ()       |                |                    |         |    |             |                 |                      |                |             |                        |               | RETIRED        |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
|                     |          |                |                    |         |    |             |                 |                      |                |             |                        |               |                |    |
| HISTORY             | DATE     |                | RE//               | ISIONS  |    |             |                 |                      |                |             | ГОТ                    |               | DRAW           |    |
| VN BY: <i>MW</i>    | 03/21/25 | NO.            |                    | RIPTION | BY | DATE        |                 | 16 IN HUGO RE        |                |             |                        |               |                |    |
| GNED BY: CS         | 03/21/25 |                | ISSUED FOR PRE-COI |         | CS | 03/21/25    |                 | PING & INSTRU        |                |             | GRAIVI                 |               | 150            | )0 |
| CKED BY: IH         | 03/21/25 |                |                    |         |    |             |                 |                      | FD/P&ID        |             |                        |               |                |    |
| ROVED BY: <i>IK</i> | 03/21/25 |                |                    |         |    |             |                 | : WHITE BEAR LAKE SC |                | · · · · · · | S35 T31N R22W, S4      |               |                |    |
| RVICE DATE:         |          |                |                    |         |    |             | DIVISION: METRO | CITY/COUNTY:         | WHITE BEAR LAK | E/RAMSEY    | TYPE: <i>DISTRIBUT</i> | ION           | <u>/0\</u>     | 7  |

| OV   | VNERSHIP  |                  | 00+9  |   |
|--|---|------------------|---|---|
| EN   | NVIRONMENTAL  |                  |   |   |
| JL   | IRISDICTION   |                  |   |   |
|  | ST PRESSURE MIN/MAX   |                  |   |   |
|  | EST PRESSURE FACTOR   |                  |   |   |
|  | EPTH OF COVER<br>LASS LOCATION  |                  |   |   |
| STATIONING   |   |                  |   | STA. 06+06 EXISTING CURB<br>EL. 931.0'<br><b>STA. 06+07 PROPOSED CURB</b>   |
| ALIGNMENT (SCALE: 1" = 40')                            | LEGEND         16" HP GAS MAIN         PERMANENT USE AREA         TEMPORARY USE AREA         G       GAS PIPELINE         PET       PETROLEUM PIPELINE         E       BURIED POWER         OH       OH POWER LINE         FO       FIBER OPTIC LINE         T       TELEPHONE LINE         SS       SANITARY SEWER LINE         ST       STORM SEWER LINE         V       WATER LINE         C/L ROAD       RO.W.         HWOH       RALROAD         X       FENCE         WATERWAY       PROPERTY LINE         SECTION LINE       TOWNSHIP/RANGE LINE         TOWNSHIP/RANGE LINE       INTERSTATE HIGHWAY         SH       STATE HIGHWAY         SH       STATE HIGHWAY         WB POTENTIAL       IMPACT AREA |                  | P P P P P P P P P P P P P P P P P P P   | PROPOSED 16<br>EXISTING 2" PE GAS<br>O.D. X UNK W.T., GP<br>UNK, MAOP UNK PS<br>PROPOSED 16<br>EXISTING<br>EXISTING |
| <b>PIPELINE DATA</b>                                   | PIPELINE SCHEMATIC         BORE PIPE         SEGMENTABLE FITTING         PIPELINE WEIGHTS         METER STATION          CATHODIC TEST STATION         MAINLINE VALVE         A       REG. STATION         A       ANODE  |                  | STA. 06+00<br>SEE SHEET 2100<br>FOR CONTINUATION  |   |
| HORIZONTAL SCALE: 1" = 40'<br>VERTICAL SCALE: 1" = 40' | NOTES:<br>1) VERTICAL CLEARANCE SHOWN IN PARENTHESIS ARE ASSUMED AN<br>TYPICAL INSTALLATION DEPTHS FOR UNKNOWN FACILITIES.<br>2) CONTRACTOR SHALL FIELD VERIFY DEPTHS OF EXISTING UTILITIES<br>CONSTRUCTION.<br>3) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEA:  | PRIOR TO         |   | STA. 06+27<br>6" GAS LINE<br>EL. T.O.P. 926.2' (PHV TOP 4'-9")<br>STA. 06+33<br>4" GAS LINE<br>4" GAS LINE          |
| PROFILE  |   | ) oloootion duur | 950<br>940<br>930<br>920<br>910<br>900  |   |
| ⊢  | AD FILE NAME: D1_2100_16in_NSPM_Hugo_R  |                  | 6+00<br>ENERGINEERING<br>2051 KILLEBREW DR, STE 311<br>BLOOMINGTON, MN. 55425<br>TEL. 630-353-4000<br>WWW.ENENGINEERING.COM | DRAWN<br>DESIGN<br>CHECK<br>APPRO   |

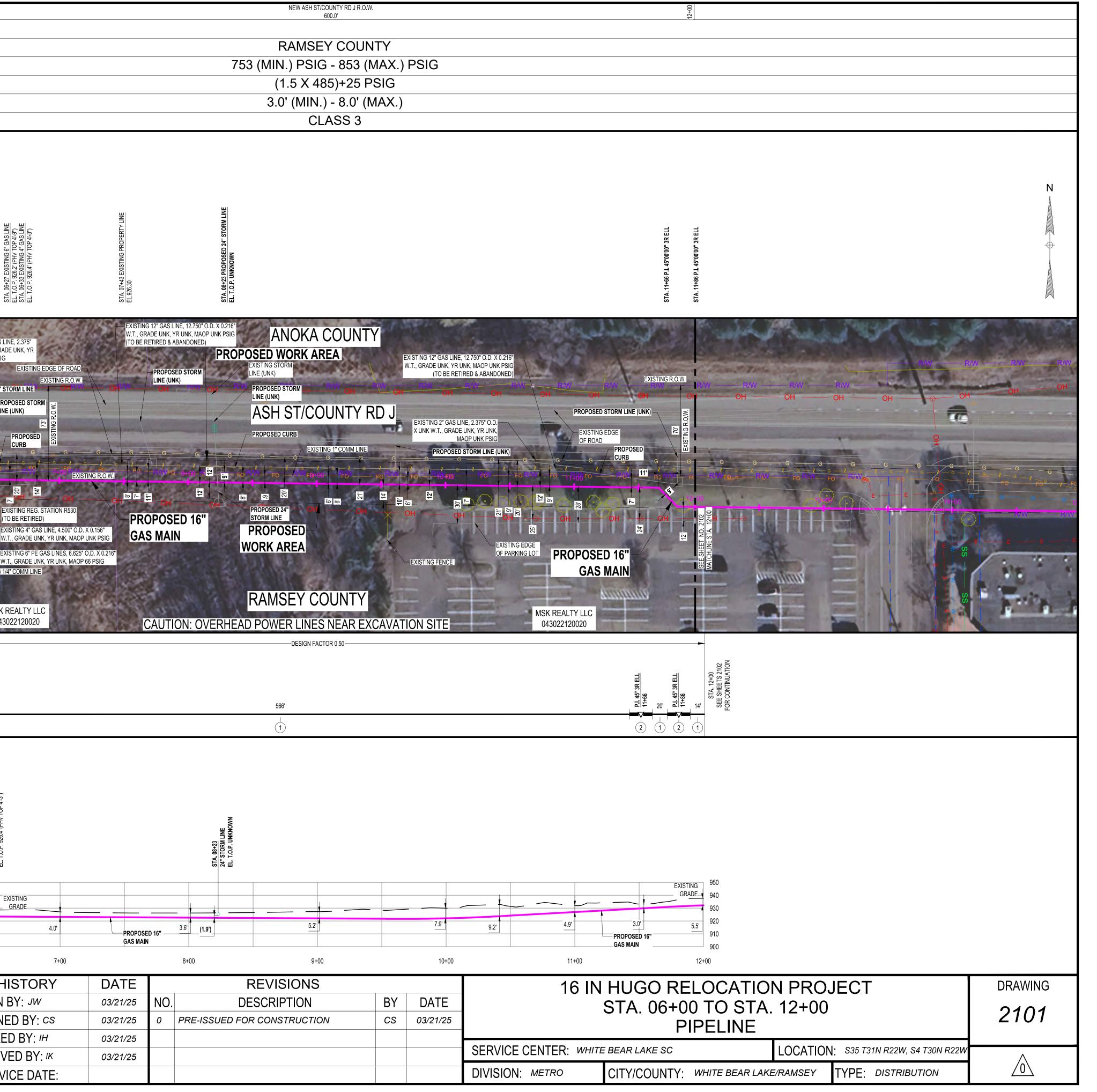
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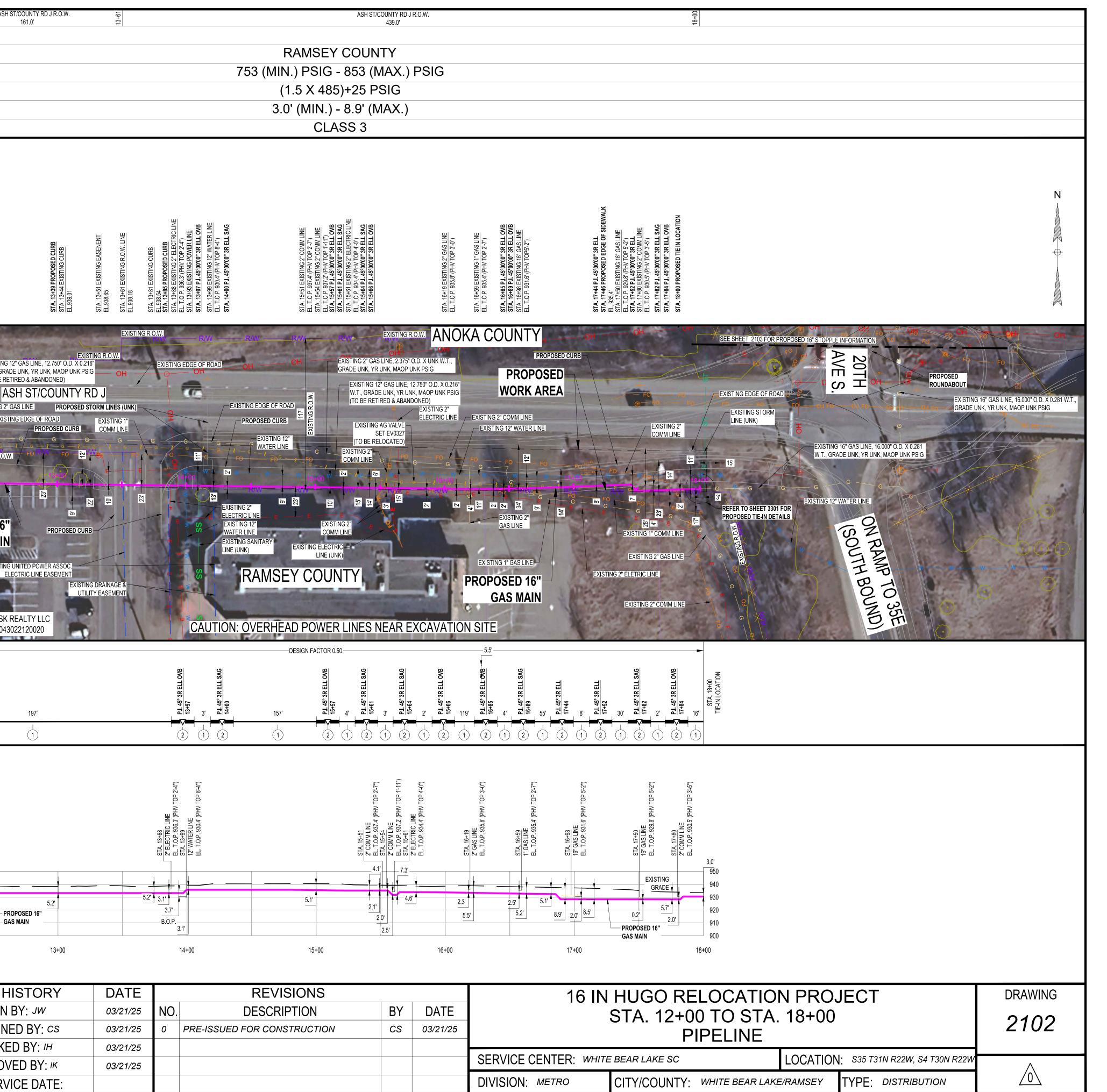
| -DESIGN | FACTOR | 0.50- |
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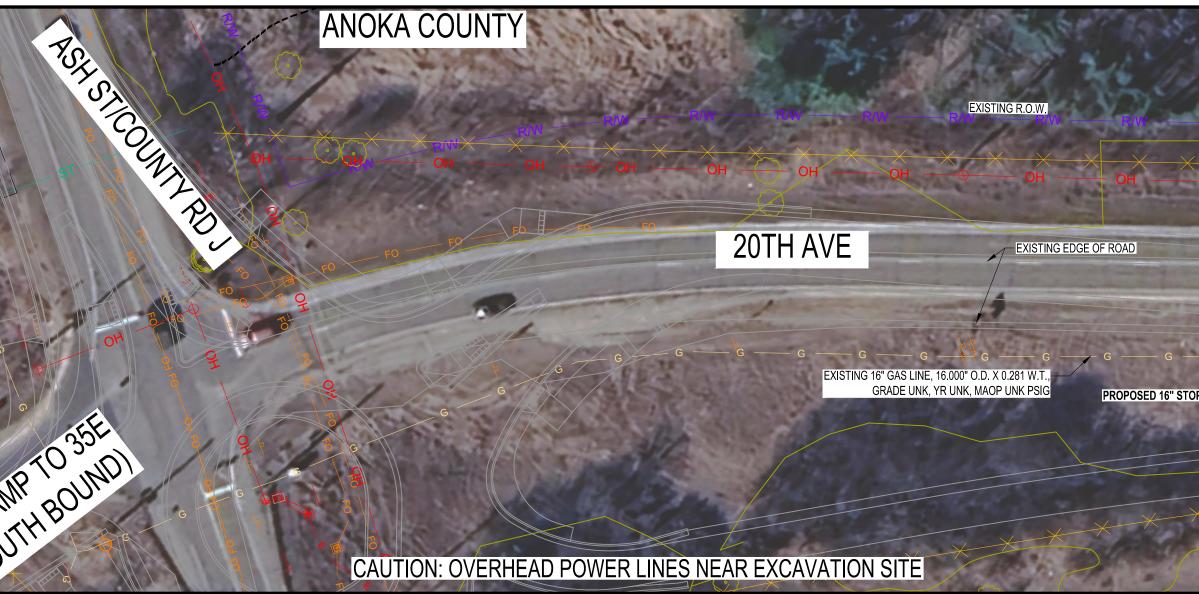
|   |                        | 00,21,20 | Ŭ | • | 00,21,20 |                       |          |
|---|------------------------|----------|---|---|----------|-----------------------|----------|
|   | CHECKED BY: IH         | 03/21/25 |   |   |          |                       |          |
| _ | APPROVED BY: <i>IK</i> | 03/21/25 |   |   |          | SERVICE CENTER: WHITE | E BEAR L |
|   | N SERVICE DATE:        |          |   |   |          | DIVISION: METRO       | CITY/    |
|   |                        |          |   |   |          |                       |          |

| OWNERSHIP  |                         | 12+00   | NEW ASH ST/COUNTY RD J R.O.W.<br>161.0'   | 13+61   |  |   | ASH ST/COUNTY RD J R.O.W.<br>439.0'  |  |   |
|--|-------------------------|---|---|---|--|---|--|--|---|
| ENVIRONMENTAL  |                         |   |   |   |  |   |  |  |   |
| JURISDICTION   |                         |   |   |   |  | RAMSEY  |  |  |   |
| TEST PRESSURE MIN/MAX  |                         |   |   |   | 7  | 53 (MIN.) PSIG -  | 853 (MAX.) PSIG  |  |   |
| TEST PRESSURE FACTOR   |                         |   |   |   |  | (1.5 X 485)   |  |  |   |
| DEPTH OF COVER   |                         |   |   |   |  | 3.0' (MIN.) -   | · · ·  |  |   |
| CLASS LOCATION   |                         |   |   |   |  | CLAS  | SS 3   |  |   |
| STATIONING   |                         |   | <b>STA. 13+39 PROPOSED CURB</b><br>STA. 13+44 EXISTING CURB<br>EL.939.01  | STA. 13+51 EXISTING EASENENT<br>EL.938.65<br>STA. 13+61 EXISTING R.O.W. LINE<br>EL.938.18<br>STA. 13+64 EVISTING CUIDE  | EL. 938.54<br>EL. 938.54<br>STA. 13+85 PROPOSED CURB<br>STA. 13+88 EXISTING 2" ELECTRIC LINE<br>EL. T.O.P. 936.3' (PHV TOP 2'-4")<br>STA. 13+93 EXISTING POWER LINE<br>STA. 13+97 P.I. 45°00'00" 3R ELL OVB<br>STA. 13+99 EXISTING 12" WATER LINE<br>EL. T.O.P. 930.4' (PHV TOP 8'-4")<br>STA. 14+00 P.I. 45°00'00" 3R ELL SAG | STA. 15+51 EXISTING 2" COMM LINE<br>EL. T.O.P. 937.4' (PHV TOP 2'-7")<br>STA. 15+54 EXISTING 2" COMM LINE<br>EL. T.O.P. 937.2' (PHV TOP 1'-11")<br>STA. 15+57 P.I. 45°00'00" 3R ELL OVB<br>STA. 15+61 P.I. 45°00'00" 3R ELL SAG | I5+61 EXISTING 2" ELE<br>O.P. 934.4' (PHV TOP 4<br>I5+66 P.I. 45°00'00" 3R<br>I5+66 P.I. 45°00'00" 3R<br>I5+66 P.I. 45°00'00" 3R<br>I5+66 P.I. 45°00'00" 3R<br>O.P. 935.8' (PHV TOP 3  | STA. 16+59 EXISTING 1" GAS LINE<br>EL. T.O.P. 935.4' (PHV TOP 2'-7")<br>EL. T.O.P. 935.4' (PHV TOP 2'-7")<br>STA. 16+85 P.I. 45°00'00" 3R ELL OVB<br>STA. 16+98 EXISTING 16" GAS LINE<br>EL. T.O.P. 931.6' (PHV TOP5'-2")  | <b>STA. 17+44 P.I. 45°00'00" 3R ELL</b><br><b>STA. 17+46 PROPOSED EDGE OF SIDEWALK</b><br>EL. 935.4'<br>STA. 17+50 EXISTING 16" GAS LINE<br>EL. T.O.P. 929.8' (PHV TOP 5'-2") |
| UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UTTON<br>UT |                         | CH<br>CH<br>CH<br>CH<br>CH<br>CH<br>CH<br>CH<br>CH<br>CH<br>CH<br>CH<br>CH<br>C | EXISTING 12" GAS LINE, 12.750" O.D. X O<br>W.T., GRADE UNK, YR UNK, MAOP UNK<br>(TO BE RETIRED & ABANDONED)<br>ASH ST/COUNTY<br>EXISTING 2" GAS LINE<br>PROPOSED CURB<br>CEXISTING R.O.W.<br>PROPOSED CURB<br>COSED 16"<br>COSED 16"<br>CASS MAIN<br>EXISTING UNITED POWER ASSOC.<br>ELECTRIC LINE EASEMENT | KISTING R.O.W.<br>216"<br>PSIG OH<br>RDJ<br>D STORM LINES (UNK)<br>EXISTING 1"<br>COMM LINE<br>G G<br>G G<br>G G<br>C M<br>EXISTING 1"<br>COMM LINE<br>G G<br>C M<br>EXISTING 1"<br>C M<br>EXISTING 1"<br>EXISTING 1" | G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G  | ING EDGE OF ROAD<br>ROPOSED CURB<br>EXISTING 12"<br>WATER LINE<br>G 12"<br>LINE<br>S SANITARY<br>K)<br>EXISTING ELECTRIC<br>LINE<br>COMMINICATION<br>EXISTING ELECTRIC<br>LINE (UNK)<br>RAMSEY COUN                             | TY   | PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOSED<br>PROPOS |   |
| Image: Content of the weight of the weig   |                         | STA. 12+00<br>SEE SHEETS 2101<br>FOR CONTINUATION                               | 197'<br>1   |   | P:I. 45° 3R ELL OVB       13+97       1        | DESIGN FACTOR 0.50<br>157'<br>157'<br>157'<br>2 (   | -1     -2     -1     -45°     3R ELL SAG       -1     -1     -1     -1     -1       -1     -1 | 5.5<br>  |   |
| NOTES:<br>1) VERTICAL CLEARANCE SHOWN IN PARENTHESIS ARE ASSUMED AND F<br>TYPICAL INSTALLATION DEPTHS FOR UNKNOWN FACILITIES.<br>2) CONTRACTOR SHALL FIELD VERIFY DEPTHS OF EXISTING UTILITIES P<br>CONSTRUCTION.<br>3) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASU<br><b>TYPICAL</b> INSTALLATION DEPTHS OF EXISTING UTILITIES P<br>CONSTRUCTION.<br>3) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASU<br><b>TYPICAL</b> INSTALLATION DEPTHS OF EXISTING UTILITIES P<br>CONSTRUCTION.<br>3) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASU<br><b>TYPICAL</b> INSTALLATION DEPTHS OF EXISTING UTILITIES P<br>CONSTRUCTION.<br>3) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASU<br><b>TYPICAL</b> INSTALLATION DEPTHS OF EXISTING UTILITIES P<br>CONSTRUCTION.<br>3) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASU   | RIOR TO                 | 940   | (ISTING<br>GRADE  |   | STA. 13+88<br>2" ELECTRIC LINE<br>EL. T.O.P. 936.3' (PHV TOP 2'-4")<br>STA. 13+99<br>12" WATER LINE<br>EL. T.O.P. 930.4' (PHV TOP 8'-4")   |   | 4.1'   | <ul> <li>STA. 16+19</li> <li>2" GAS LINE</li> <li>EL. T.O.P. 935.8' (PHV TOP 3'-0")</li> <li>EL. T.O.P. 935.8' (PHV TOP 2'-0")</li> <li>EL. T.O.P. 935.4' (PHV TOP 2'-7")</li> </ul>   | EL. T.O.P. 931.6' (PHV TOP 5'-2")   |
| PROFILE  |                         | 930<br>920<br>910<br>900<br>12+00   | <u>5.2'</u><br>PROPOSED 16"<br>GAS MAIN<br>13+00  | <u>5.2</u>  | <sup>1</sup> <u>3.1</u><br><u>3.7</u><br>B.O.P.<br><u>3.1</u><br><u>14+00</u>  | <u>5.1'</u><br>15+00  | 2.5'   | 5.5' 5.2' 8.9'   | 2.0' 8.5' PR(<br>GA<br>17+00  |
| CAD FILE NAME: D1_2100_16in_NSPM_Hugo_Re   | location dwa            | 12+00   | 13+00   |   | 14+00  | 10400   | 16+00  |  |   |
|  |                         |   |   |   | 1  |   |  |  | 40 11 1 1 1   |
|  |                         |   | HISTORY<br>DRAWN BY: JW   | 03/21/25  | NO.  | REVISIONS<br>DESCRIPTION  | BY DATE  | -  | 16 IN H   |
| <b>Xcel</b> En   | $\Delta r \alpha V^{R}$ | Enengineering   | DESIGNED BY: CS   | 03/21/25  |  | OESCRIPTION<br>FOR CONSTRUCTION   | CS 03/21/25  | -  | ST  |
|  |                         | 2051 KILLEBREW DR, STE 311<br>BLOOMINGTON, MN. 55425<br>TEL. 630-353-4000       | CHECKED BY: <i>IH</i>   | 03/21/25  |  |   |  |  |   |
|  |                         | TEL. 630-353-4000<br>WWW.ENENGINEERING.COM                                      | APPROVED BY: <i>IK</i>  | 03/21/25  |  |   |  | SERVICE CENTER   | R: <i>WHITE BEF</i>   |
| FLOC: GT-00000011018   |                         |   | IN SERVICE DATE:  |   |  |   |  | DIVISION: METRO  | CIT   |



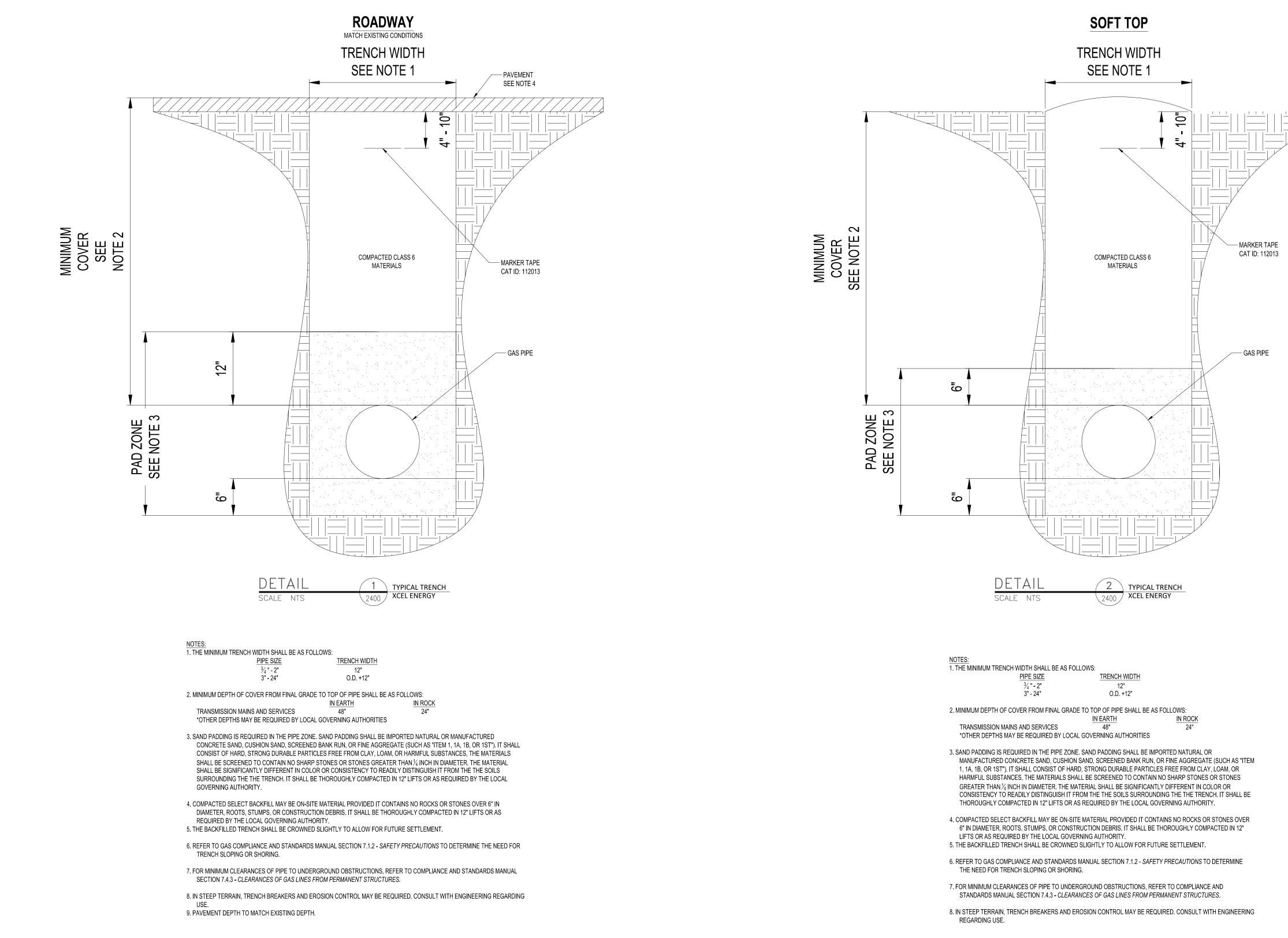
|  | VNERSHIP   |              |  |                                    |                                   |
|--|--|--------------|--|------------------------------------|-----------------------------------|
| -  | NVIRONMENTAL   |              |  |                                    |                                   |
|  | EST PRESSURE MIN/MAX   |              |  |                                    |                                   |
| TE   | EST PRESSURE FACTOR  |              |  |                                    |                                   |
|  | EPTH OF COVER  |              |  |                                    |                                   |
| CL   | ASS LOCATION   |              |  |                                    |                                   |
| STATIONING   |  |              |  |                                    |                                   |
| ALIGNMENT (SCALE: 1" = 40')                            | LEGEND         16" HP GAS MAIN         PERMANENT USE AREA         TEMPORARY USE AREA         G       ABANDONED GAS         G       GAS PIPELINE         PET       PETROLEUM PIPELINE         E       BURIED POWER         OH       OH POWER LINE         FVOH       HV OH POWER LINE         FO       FIBER OPTIC LINE         T       TELEPHONE LINE         SS       SANITARY SEWER LINE         ST       STORM SEWER LINE         ST       STORM SEWER LINE         W       WATER LINE         C/L ROAD       RW         ROW.       FENCE         WATERWAY       PROPERTY LINE         SECTION LINE       TOWNSHIP/RANGE LINE         T       TERSTATE HIGHWAY         SH       STATE HIGHWAY         SH       STATE HIGHWAY         QR       COUNTY ROAD         #       COUNTY HIGHWAY         WB POTENTIAL       JWPACT AREA |              | ParticipantImage: Image: |                                    | ONRA                              |
| PIPELINE DATA  | PIPELINE SCHEMATIC         BORE PIPE         SEGMENTABLE FITTING         PIPELINE WEIGHTS         METER STATION         CATHODIC TEST STATION         MAINLINE VALVE         A         REG. STATION         ANODE  |              |  |                                    |                                   |
| HORIZONTAL SCALE: 1" = 40'<br>VERTICAL SCALE: 1" = 40' |  |              |  |                                    |                                   |
| PROFILE  |  |              |  |                                    |                                   |
| CA   | D FILE NAME: D1_2100_16in_NSPM_Hugo_Re   | location.dwa |  |                                    |                                   |
|  |  |              | 2051 KILLEBREW<br>BLOOMINGTON,<br>TEL. 630-35.<br>WWW.ENENGINE   | DR, STE 311<br>MN. 55425<br>3-4000 | DRAWI<br>DESIGI<br>CHECK<br>APPRC |

| ANOKA COUNTY                      |  |
|-----------------------------------|--|
| 753 (MIN.) PSIG - 853 (MAX.) PSIG |  |
| (1.5 X 485)+25 PSIG               |  |
| (MIN.) - (MAX.)                   |  |
| CLASS 3                           |  |
|                                   |  |



| HISTORY                | DATE     |     | REVISIONS                   |    |          | 16 IN                | HUG       |
|------------------------|----------|-----|-----------------------------|----|----------|----------------------|-----------|
| DRAWN BY: JW           | 03/21/25 | NO. | DESCRIPTION                 | BY | DATE     |                      | ST        |
| DESIGNED BY: cs        | 03/21/25 | 0   | PRE-ISSUED FOR CONSTRUCTION | CS | 03/21/25 |                      |           |
| CHECKED BY: IH         | 03/21/25 |     |                             |    |          |                      |           |
| APPROVED BY: <i>IK</i> | 03/21/25 |     |                             |    |          | SERVICE CENTER: WHIT | E BEAR LA |
| IN SERVICE DATE:       |          |     |                             |    |          | DIVISION: METRO      | CITY/C    |

|  | zame & Allalanam Z |
|--|--------------------|
| RM RW RW RW RW RW F<br>OH OH OH OH OH OH (ССС)   | R/WR/W             |
| PROPOSED CURB<br>PROPOSED CURB<br>PROPOS |                    |
|  |                    |
|  |                    |
| GO RELOCATION PROJECT<br>TOPPLE LOCATION<br>PIPELINE   | drawing<br>2103    |
| LOCATION: S35 T31N R22W, S4 T30N R22W<br>COUNTY: LINO LAKES/ANOKA TYPE: DISTRIBUTION   | $\Delta$           |



NOTES:

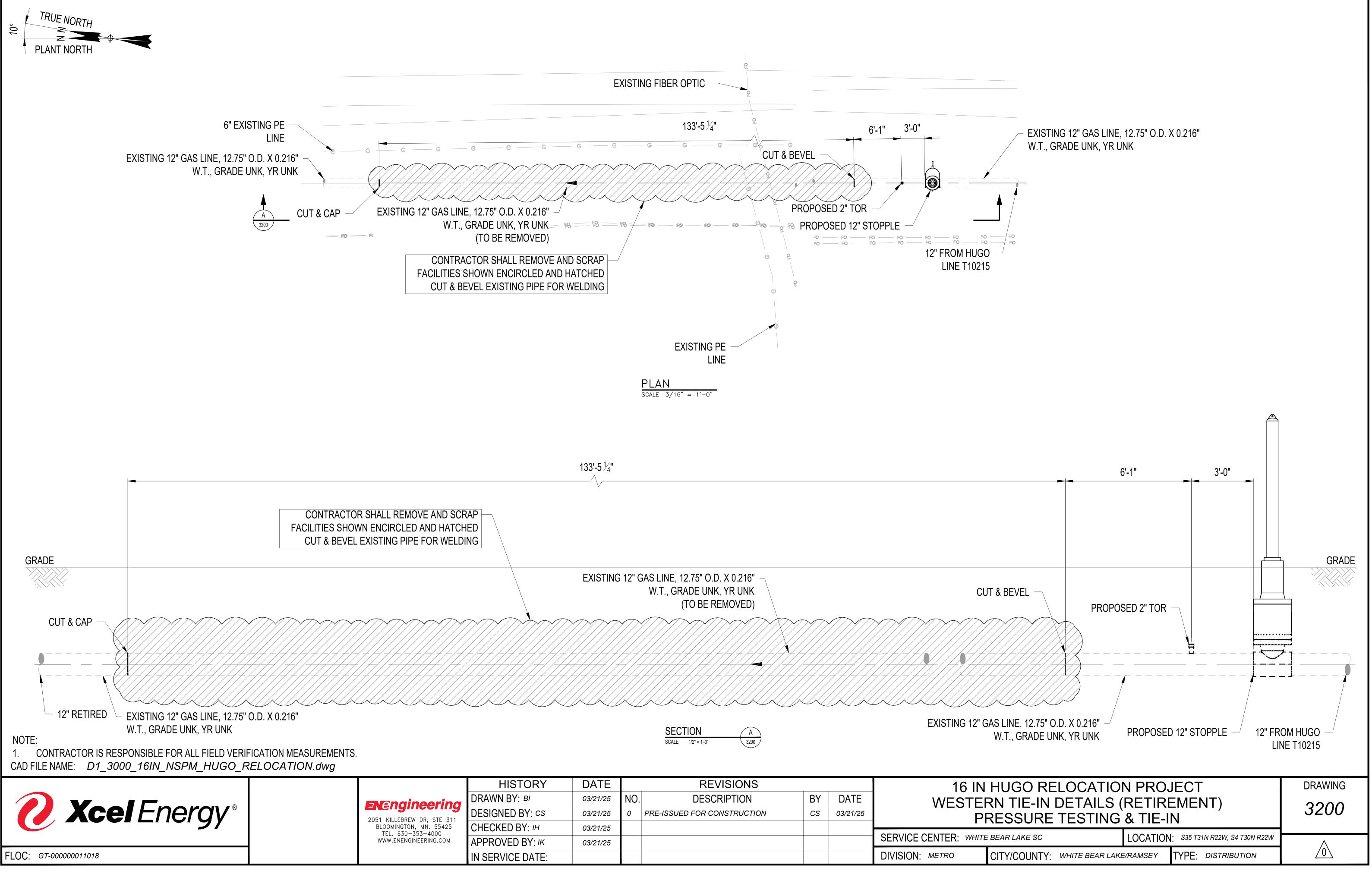
CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASUREMENTS. 1)

CAD FILE NAME: D1\_2400\_16in\_NSPM\_Hugo\_Relocation.dwg

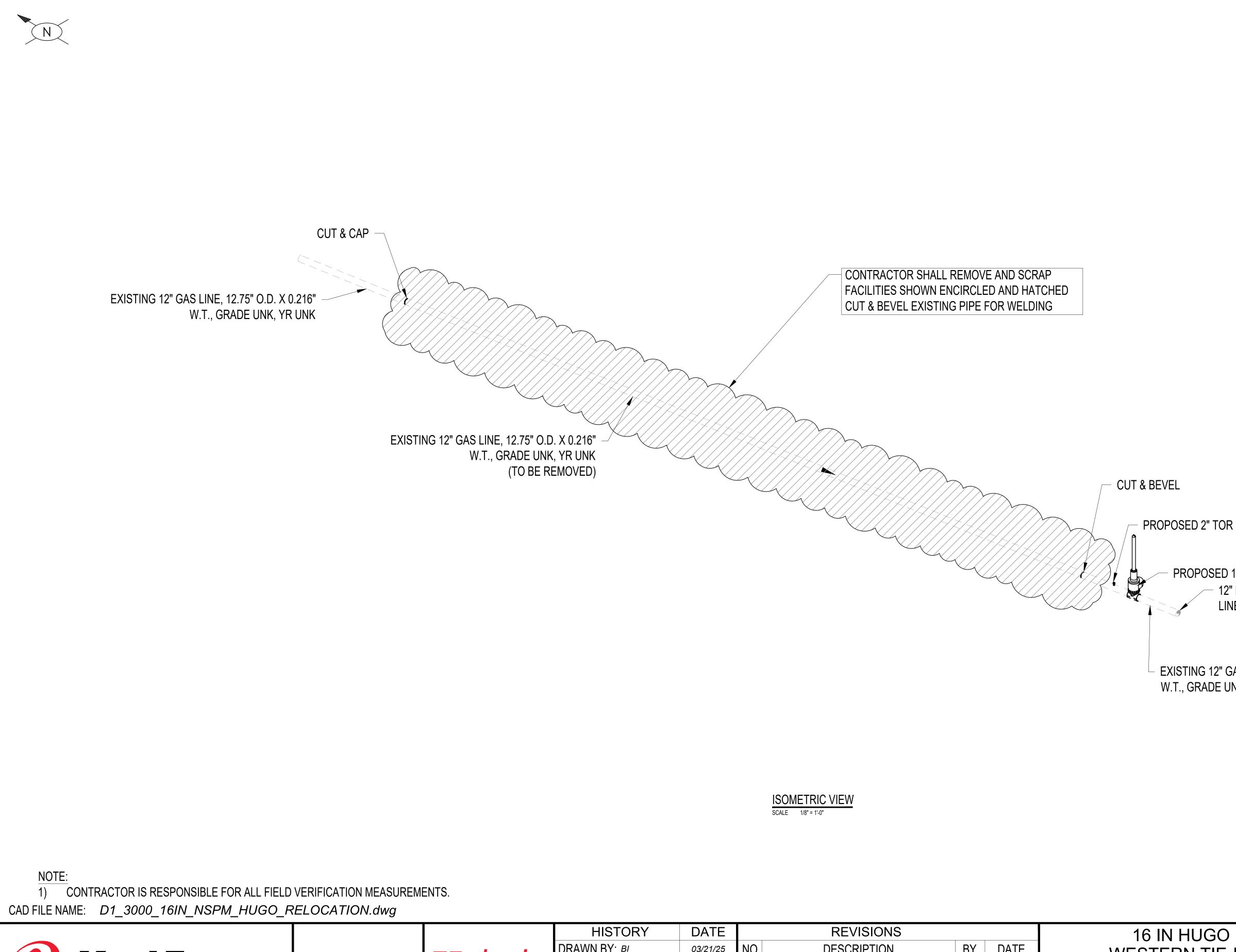
| <b>Contract Scelenergy</b> ® |          |             | DRAWN<br>DESIGN<br>CHECKE<br>APPROV |
|------------------------------|----------|-------------|-------------------------------------|
| FLOC: GT-00000011018         | PE STAMP | VENDOR LOGO | IN SERV                             |



| HISTORY             | DATE     |           | REVISIONS            |    |          | 16 IN                | I HUGO RELOCATIO              | N PRO    | JECT                          | DRAWING  |
|---------------------|----------|-----------|----------------------|----|----------|----------------------|-------------------------------|----------|-------------------------------|----------|
| WN BY: <i>JW</i>    | 03/21/25 | NO.       | DESCRIPTION          | BY | DATE     |                      | TYPICAL TRENCH D              |          |                               | 0400     |
| GNED BY: cs         | 03/21/25 | 0 PRE-ISS | UED FOR CONSTRUCTION | CS | 03/21/25 |                      | PIPELINE                      |          |                               | 2400     |
| CKED BY: <i>IH</i>  | 03/21/25 |           |                      |    |          |                      |                               |          |                               |          |
| ROVED BY: <i>IK</i> | 03/21/25 |           |                      |    |          | SERVICE CENTER: WHIT | E BEAR LAKE SC                | LOCATION | : S35 T31N R22W, S4 T30N R22W | $\wedge$ |
| ERVICE DATE:        |          |           |                      |    |          | DIVISION: METRO      | CITY/COUNTY : WHITE BEAR LAKE | E/RAMSEY | TYPE: DISTRIBUTION            |          |



| 16 IN HUG                     |          |    | REVISIONS                   | ГЕ     | DATE     | HISTORY          |
|-------------------------------|----------|----|-----------------------------|--------|----------|------------------|
| WESTERN T                     | DATE     | BY | DESCRIPTION                 | /25 NO | 03/21/25 | VN BY: <i>ві</i> |
| PRESS                         | 03/21/25 | CS | PRE-ISSUED FOR CONSTRUCTION | /25 0  | 03/21/25 | GNED BY: cs      |
|                               |          |    |                             | /25    | 03/21/25 | CKED BY: IH      |
| SERVICE CENTER: WHITE BEAR LA |          |    |                             | /25    | 03/21/25 | OVED BY: IK      |
| DIVISION: METRO CITY/C        |          |    |                             |        |          | RVICE DATE:      |





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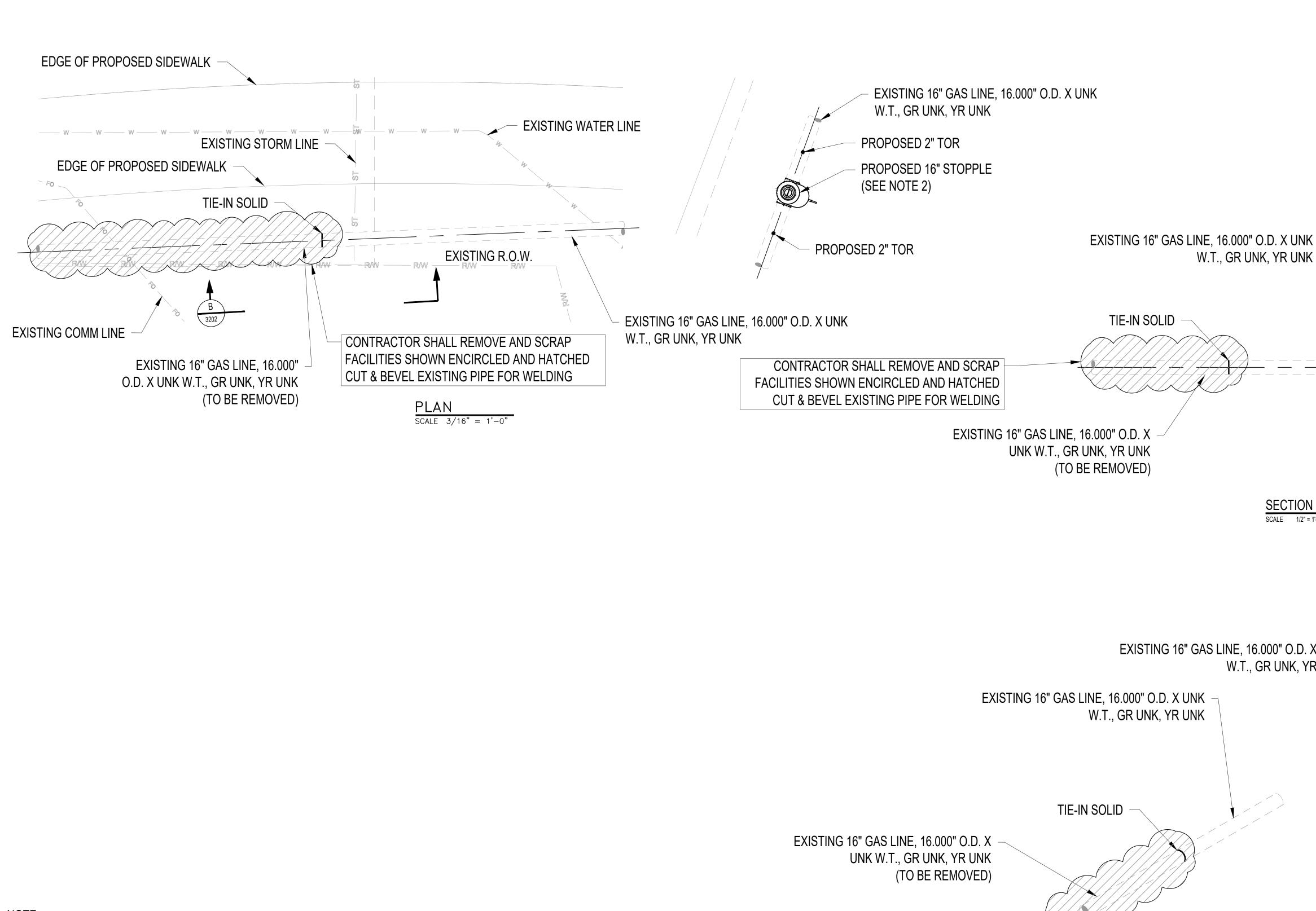


FLOC: GT-000000011018

| HISTORY          | DATE     |     | REVISIONS                   |    |          | 16 IN                 | HUGO RELOCATIO               | N PROJ   | ECT                         | DRAWING |
|------------------|----------|-----|-----------------------------|----|----------|-----------------------|------------------------------|----------|-----------------------------|---------|
| WN BY: <i>ві</i> | 03/21/25 | NO. | DESCRIPTION                 | BY | DATE     | _                     | RN TIE-IN DETAILS (          |          | _                           | 0004    |
| GNED BY: cs      | 03/21/25 | 0   | PRE-ISSUED FOR CONSTRUCTION | CS | 03/21/25 |                       | RESSURE TESTING              | •        | /                           | 3201    |
| CKED BY: IH      | 03/21/25 |     |                             |    |          |                       |                              |          | N                           |         |
| ROVED BY: IK     | 03/21/25 |     |                             |    |          | SERVICE CENTER: WHITE | BEAR LAKE SC                 | LOCATION | S35 T31N R22W, S4 T30N R22W | Λ       |
| ERVICE DATE:     |          |     |                             |    |          | DIVISION: METRO       | CITY/COUNTY: WHITE BEAR LAKE | E/RAMSEY | TYPE: DISTRIBUTION          |         |

EXISTING 12" GAS LINE, 12.75" O.D. X 0.216" W.T., GRADE UNK, YR UNK

PROPOSED 12" STOPPLE 12" FROM HUGO LINE T10215

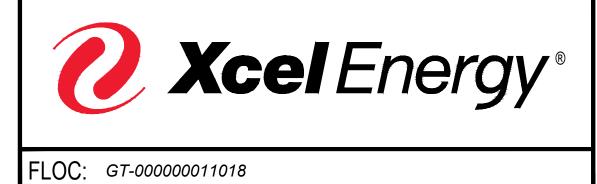


NOTE:

CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASUREMENTS.

2. STOPPLE TO BE LOCATED 550' NORTHEAST OF TIE-IN ON EAST SIDE OF 20TH AVE S. (SEE DRAWING 2103 FOR LOCATION)

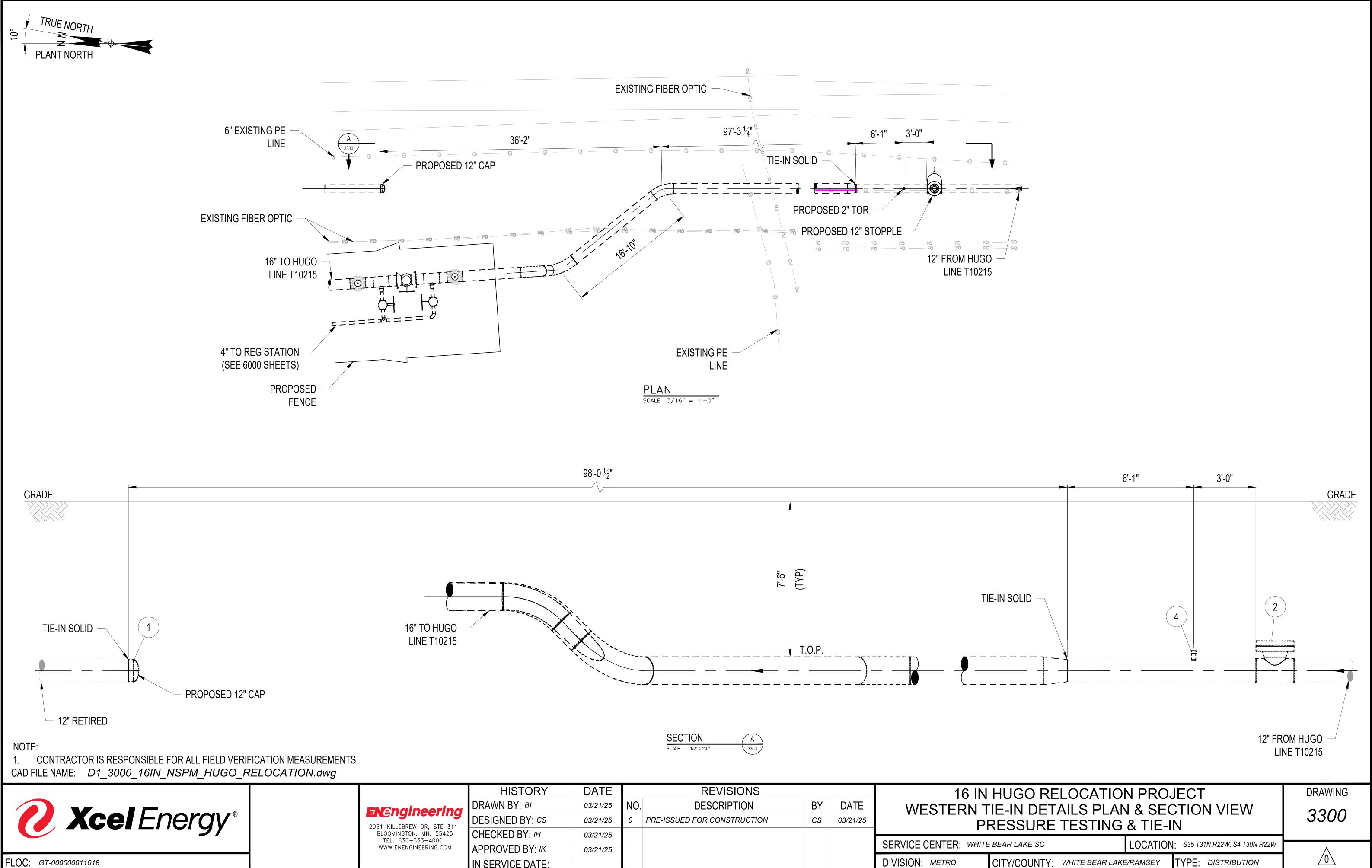
CAD FILE NAME: D1\_3000\_16IN\_NSPM\_HUGO\_RELOCATION.dwg

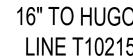


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| E / /  |   | PROPOSED 2" TOR<br>PROPOSED 16" STOPPLE<br>(SEE NOTE 2)   |  |  | Â  |   |
|--|---|---|--|--|--|---|
| - / /  |   | PROPOSED 2" TOR   | EXISTIN  | IG 16" GAS LINE, 16.000" O.D. X UNK<br>W.T., GR UNK, YR UNK                        |  |   |
| XISTING 16" GAS LINE,<br>/.T., GR UNK, YR UNK                    | CONTRA<br>FACILITIES S                      | ACTOR SHALL REMOVE AND SCRAP<br>SHOWN ENCIRCLED AND HATCHED<br>EVEL EXISTING PIPE FOR WELDING<br>EXISTING 16" G | TIE-I<br>GAS LINE, 16.000" O.I<br>W.T., GR UNK, YR U<br>(TO BE REMOV | UNK  | 10   | XISTING 16" GAS LINE,<br>5.000" O.D. X UNK W.T.,<br>R UNK, YR UNK |
|  |   |   |  | SECTION         B           SCALE         1/2" = 1'-0"         3202                |  |   |
|  |   | EXISTING  | 6 16" GAS LINE, 16.00  | KISTING 16" GAS LINE, 16.000" O.D. X UNK<br>W.T., GR UNK, YR UNK<br>00" O.D. X UNK | PROPOSED 2" TOR<br>PROPOSED 16" STOPPLE<br>(SEE NOTE 2)<br>PROPOSED 2" TOR |   |
|  | EXIS  | STING 16" GAS LINE, 16.000" O.D. X<br>UNK W.T., GR UNK, YR UNK<br>(TO BE REMOVED)                               | TIE-IN SOLID   |  |  |   |
| FA   | CILITIES SHO                                | OR SHALL REMOVE AND SCRAP<br>WN ENCIRCLED AND HATCHED<br>L EXISTING PIPE FOR WELDING                            |  | ISOMETRIC VIEW<br>SCALE 3/16" = 1'-0"  |  |   |
| HISTORY<br>WN BY: <i>BI</i><br>GNED BY: CS<br>CKED BY: <i>IH</i> | DATE 03/21/25 N<br>03/21/25 0<br>03/21/25 0 |   | BY DATE<br>CS 03/21/25   | EASTERN TIE-IN DE<br>PRESSURE TE   | DCATION PROJECT<br>TAILS (RETIREMENT)<br>ESTING & TIE-IN                   | DRAWING<br><b>3202</b>  |
| ROVED BY: IK   | 03/21/25                                    |   |  | SERVICE CENTER: WHITE BEAR LAKE SC   | LOCATION: S35 T31N R22W, S4 T30N   | R22W  |

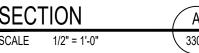






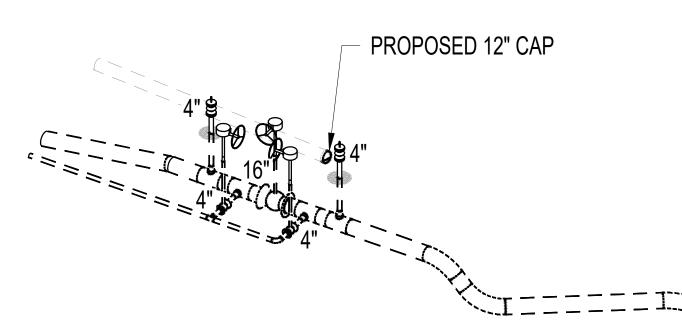
| ENE          | ngin   | eer              | ing |
|--------------|--|------------------|-----|
| BLOOI<br>TEL | LLEBREW<br>MINGTON,<br>. 630–35<br>.ENENGINI | MN. 55<br>3-4000 | 425 |

IN SERV



| HISTORY           | DATE     |     | REVISIONS                   |    |          | 16 IN                 | HUGO RELOCATIO              | N PRO    |
|-------------------|----------|-----|-----------------------------|----|----------|-----------------------|-----------------------------|----------|
| VN BY: <i>ві</i>  | 03/21/25 | NO. | DESCRIPTION                 | BY | DATE     |                       | IE-IN DETAILS PLAN          |          |
| GNED BY: cs       | 03/21/25 | 0   | PRE-ISSUED FOR CONSTRUCTION | CS | 03/21/25 | PRESSURE TESTING & T  |                             |          |
| KED BY: <i>IH</i> | 03/21/25 |     |                             |    |          |                       |                             |          |
| OVED BY: IK       | 03/21/25 |     |                             |    |          | SERVICE CENTER: WHITE | E BEAR LAKE SC              | LOCATIO  |
| RVICE DATE:       |          |     |                             |    |          | DIVISION: METRO       | CITY/COUNTY: WHITE BEAR LAK | E/RAMSEY |

N



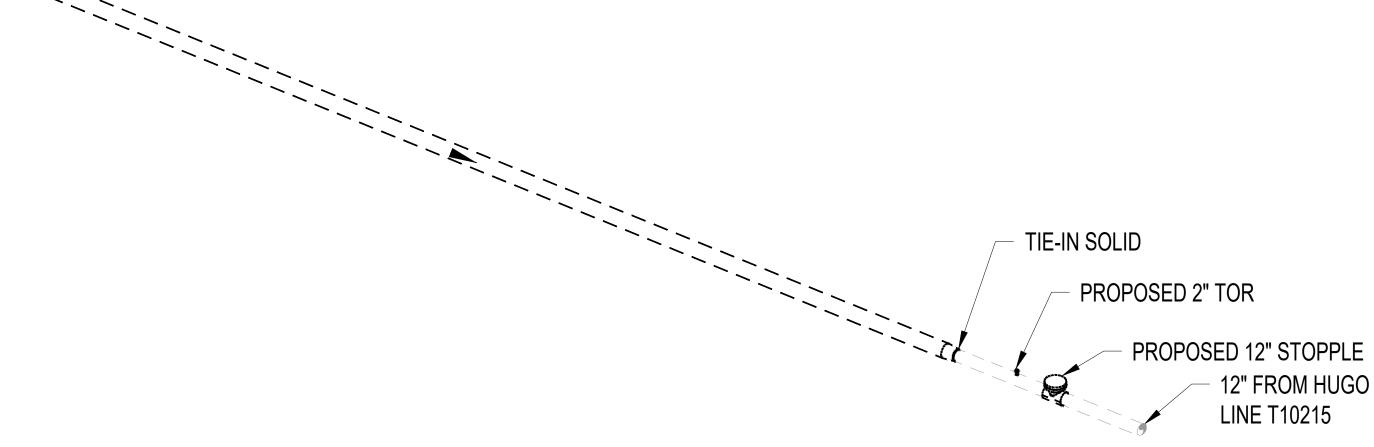
NOTE: 1) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASUREMENTS. CAD FILE NAME: D1\_3000\_16IN\_NSPM\_HUGO\_RELOCATION.dwg



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FLOC: GT-000000011018



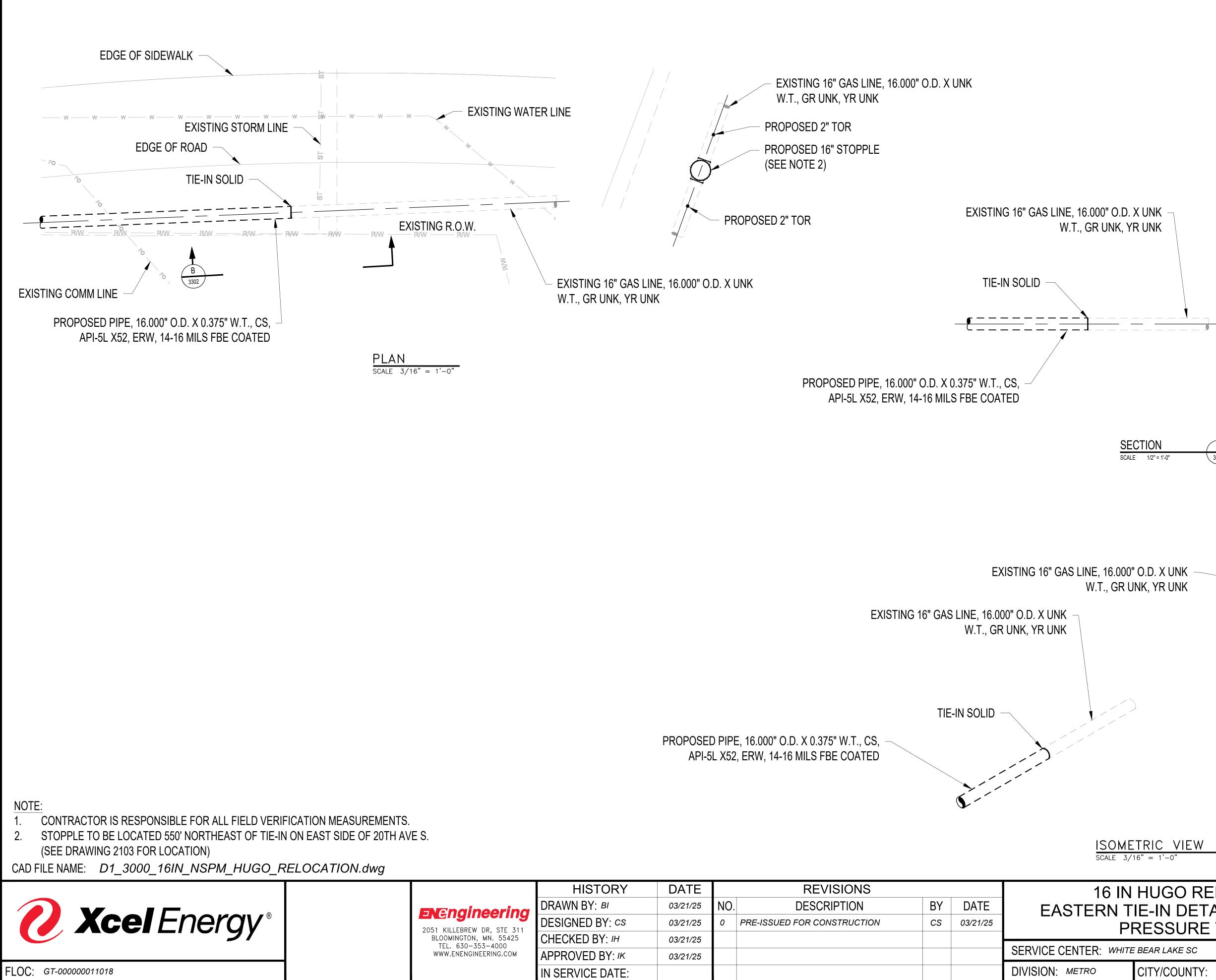
SCALE 1/8" = 1'-0"

| HISTORY          | DATE     |     | REVISIONS                   |    |          | 16 IN                     | HUGO RELOCATIO               | N PRO.   | IFCT         |
|------------------|----------|-----|-----------------------------|----|----------|---------------------------|------------------------------|----------|--------------|
| VN BY: <i>ві</i> | 03/21/25 | NO. | DESCRIPTION                 | BY | DATE     |                           | TERN TIE-IN DETAIL           |          |              |
| GNED BY: cs      | 03/21/25 | 0   | PRE-ISSUED FOR CONSTRUCTION | CS | 03/21/25 | PRESSURE TESTING & TIE-IN |                              |          |              |
| CKED BY: IH      | 03/21/25 |     |                             |    |          |                           |                              |          |              |
| ROVED BY: IK     | 03/21/25 |     |                             |    |          | SERVICE CENTER: WHITE     | E BEAR LAKE SC               | LOCATION | : S35 T31N R |
| RVICE DATE:      |          |     |                             |    |          | DIVISION: METRO           | CITY/COUNTY: WHITE BEAR LAKE | E/RAMSEY | TYPE: DIS    |

| SURE TESTING            |          | 3301                          |   |
|-------------------------|----------|-------------------------------|---|
| LAKE SC                 | LOCATION | : S35 T31N R22W, S4 T30N R22W | Λ |
| COUNTY: WHITE BEAR LAKE |          |                               |   |

DRAWING

12" FROM HUGO LINE T10215



3'-0"

3'-0"

鬥

|  |                              |          | PROPOSED PIPE, 16.00<br>API-5L X52, ERW,                        |            |                  |   | EXISTING 16" GAS LINE,<br>16.000" O.D. X UNK W.T.,<br>GR UNK, YR UNK |
|--|------------------------------|----------|---|------------|------------------|---|--|
|  |                              |          |   |            |                  | SCALE 1/2" = 1'-0"  |  |
|  |                              |          | EXISTIN   | IG 16" GAS | LINE, 16.00      | ISTING 16" GAS LINE, 16.000" O.D. X UNK<br>W.T., GR UNK, YR UNK<br>0" O.D. X UNK<br>UNK, YR UNK                             | .E   |
|  |                              |          | , 16.000" O.D. X 0.375" W.T., CS,<br>ERW, 14-16 MILS FBE COATED | TIE        | -IN SOLID        |   |  |
|  |                              |          |   |            |                  | $\frac{ \text{SOMETRIC} \text{VIEW} }{ \text{SCALE}   3/16" = 1'-0"}$   |  |
| HISTORY<br>/N BY: <i>BI</i><br>GNED BY: CS             | DATE<br>03/21/25<br>03/21/25 | NO.<br>0 | REVISIONS<br>DESCRIPTION<br>PRE-ISSUED FOR CONSTRUCTION         | BY<br>cs   | DATE<br>03/21/25 | 16 IN HUGO RELOCATION PROJECT<br>EASTERN TIE-IN DETAILS PLAN & SECTION VIEW<br>PRESSURE TESTING & TIE-IN                    | DRAWING<br>3302  |
| KED BY: <i>IH</i><br>DVED BY: <i>IK</i><br>RVICE DATE: | 03/21/25<br>03/21/25         |          |   |            |                  | SERVICE CENTER:WHITE BEAR LAKE SCLOCATION:\$35 T31N R22W, \$4 T3DIVISION:METROCITY/COUNTY:LINO LAKES/ANOKATYPE:DISTRIBUTION |  |

# docusign

### **Certificate Of Completion**

Envelope Id: 61C58DCA-9B2A-47D3-BDD2-7C9EC050A7D4 Subject: George Wojcicki - ROW Permit Application Source Envelope: Document Pages: 19 Certificate Pages: 4 AutoNav: Enabled EnvelopeId Stamping: Enabled Time Zone: (UTC-06:00) Central Time (US & Canada)

#### **Record Tracking**

Status: Original 4/17/2025 9:10:50 AM Security Appliance Status: Connected Storage Appliance Status: Connected

#### Signer Events

George Wojcicki george.r.wojcicki@xcelenergy.com Security Level: DocuSign.email ID: 1 4/17/2025 9:10:52 AM

Electronic Record and Signature Disclosure: Accepted: 7/20/2023 1:50:43 PM

ID: 35166797-de64-41f0-8637-c4f60e7fc978

Susan Burgmeier Susan.Burgmeier@anokacountymn.gov

Associate Traffic Technician

Anoka County

Signing Group: Highway Permits

---

Security Level: Email, Account Authentication (Optional)

### Electronic Record and Signature Disclosure: Accepted: 4/9/2025 2:41:17 PM

ID: 9d1d09c3-49e7-452c-bef8-b5d792eb44a0

Holder: Highway Permits highwaypermits@anokacountymn.gov Pool: StateLocal Pool: Anoka County

## Signature

DocuSigned by: George Wojcicki 935301823E8F486...

Signature Adoption: Pre-selected Style Using IP Address: 208.87.234.201

Status: Sent

Envelope Originator: Highway Permits Anoka County Government Center 2100 3rd Avenue Anoka, MN 55303 highwaypermits@anokacountymn.gov IP Address: 208.87.234.201

Location: DocuSign

Location: Docusign

## Timestamp

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| in Person Signer Events      | Signature | Timestamp |
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| Agent Delivery Events        | Status    | Timestamp |
| Intermediary Delivery Events | Status    | Timestamp |
| Certified Delivery Events    | Status    | Timestamp |
| Carbon Copy Events           | Status    | Timestamp |
| George Wojcicki              |           |           |

george.r.wojcicki@xcelenergy.com

Security Level: Email, Account Authentication (Optional)

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|---------------------------------------|--------------------------------------|---|
| Not Offered via Docusign              |                                      |   |
| Witness Events                        | Signature                            | Timestamp                                     |
| Notary Events                         | Signature                            | Timestamp                                     |
|                                       |                                      |   |
| Envelope Summary Events               | Status                               | Timestamps                                    |
| Envelope Summary Events Envelope Sent | Status<br>Hashed/Encrypted           | <b>Timestamps</b><br>4/17/2025 9:10:51 AM     |
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| Envelope Sent                         | Hashed/Encrypted                     | 4/17/2025 9:10:51 AM                          |
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