			NOT VALID UNLESS SIGNED BY ANOKA COUNTY PERMIT NUMBER		
Anoka County	763-324-		RIGHT OF WAY X		
	vaypermits@and	okacountymn.gov	COMMERCIAL ACCESS		
APPLICATION FOR PERMIT FOR INSTALLATION C ALL APPLICANTS MI		LACING OBSTRUCTIONS ON THE 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 in the right of way of 20t		on on Ash St/Co Rd J, as well as o accommodate a new set of i			
SURFACE TO BE DISTURBED SITE PLAN	AND/OR REFERE	Y IS ENCROACHED, YOU MUST AT NCE THE MOST CURRENT VERSION 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' (60" minimum under county roads)					
SIZE AND KIND OF PIPE/CABLE 16" steel d	listribution line				
NUMBER OF EXCAVATIONS 1		OF EXCAVATIONS 20x20 , width, and depth)			
LOCATION OF EXCAVATIONS ALL EXCAVATIONS AF Specific written descriptions of excavations - if shown on attached location. Traffic control plans cannot be approved without specif	RE TO BE PROTECTED A	T ALL TIMES AND THEN BACKFILLED WHEN U 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

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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

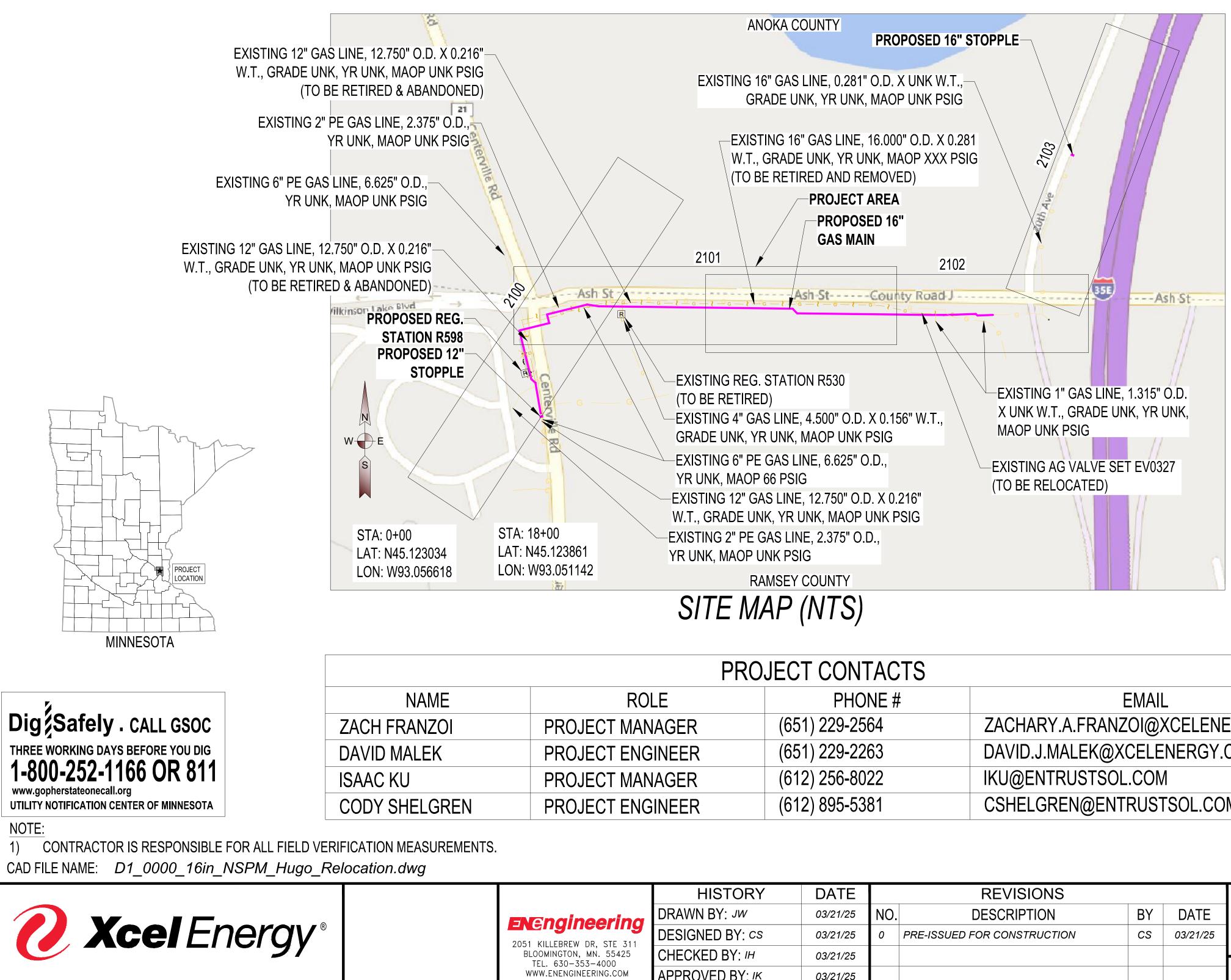
ANDOVER, MN 55304

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. 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. 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 by the Anoka County Engineer. These plans are to show approaches to the structure, method of installation, type, and dimension 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: a) Approved permit
2)	b) Any/all traffic control plans and/or layouts 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 TITLES WITH VI COVER SHEET	drawing 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

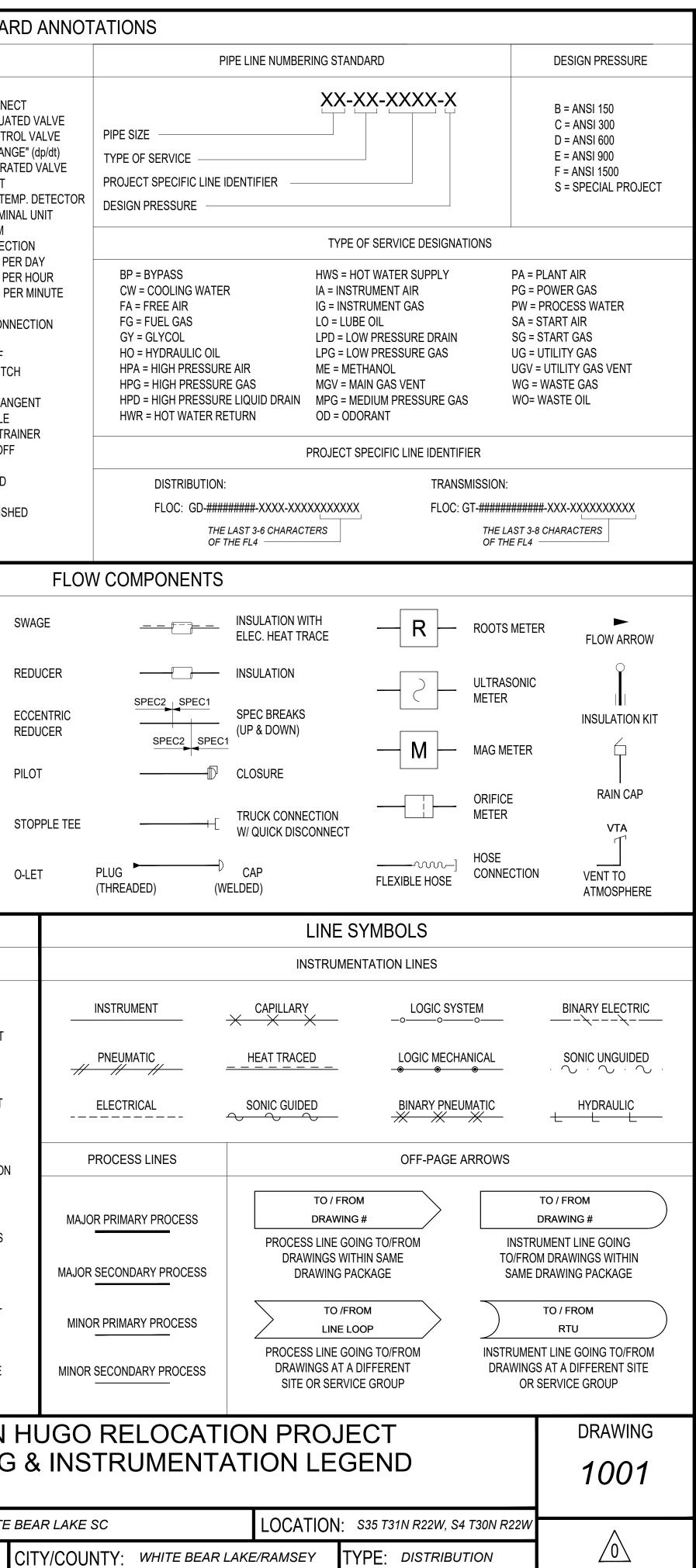
% SMYS TABLE						
DESCRIPTION PRESSURE % SMYS 16.000" O.D. 0.375" WT X52						
MOP	350	14.4%				
MAOP	485	19.9%				
MIN. TEST PRESSURE	753	30.9%				

HISTORY	DATE		REVISIONS			16 IN	N HUGO REL	OCATION PRO	JECT	DRAWING
WN BY: JW	03/21/25	NO.	DESCRIPTION	BY	DATE	PIPELINE SPECIFICATIONS 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 S BS S CS S DS	CLOSED	OPEN	Y AY BY CY DY EY	XSL NMOQLINHS AXSL BXSL CXSL DXSL EXSL		SAFETY DEVICE	ATM = ATMOSPHERE AC = AIR TO CLOSE AFFF = AQUEOUS FILM FORMING AG = ABOVE GROUND / GRADE AO = AIR TO OPEN AS = AIR SUPPLY BD = BLOWDOWN BF = BLIND FLANGE BG = BELOW GROUND / GRADE CBD = CONTINUOUS BLOWDOW CC = CHEMICAL CLEAN	HP = HIGH PRESSURE HSD = HAND SHUTDOWN HV = HAND VALVE IP = INJECTION POINT IU = INSULATING UNION LAT = LOW ATMOSPHERIC TIDE LC = LOCK CLOSED LD = LIQUID DRAINER		TIC RAV = REMOTE A RCV = REMOTE C ROC = "RATE OF ROV = REMOTE C RP = REDUCED P RTD = RESISTAN RTU = REMOTE T S/S = SEAM TO S SC = SAMPLE CO SCFD = STD. CU.		ED VALVE DL VALVE GE" (dp/dt) FED VALVE MP. DETECTC AL UNIT TION R DAY	
IH FI: H IIS IH JI: IH KI IH LI: IH MI	HS S IS S JS S KS S LS			FY HY IY JY KY LY MY	FXSL IXSL JXSL KXSL LXSL MXSL	FXSH IXSH JXSH KXSH LXSH MXSH		CD = CLOSED DRAIN CHO = CHAIN OPERATED CO = CLEAN OUT COMB = COMBUSTIBLE GAS CSC = CAR SEAL CLOSED CSO = CAR SEAL OPEN DC = DRAIN CONNECTION DCS = DISTRIBUTED CONTROL S ESD = EMERGENCY SHUTDOWN ELEV = ELEVATION F/F = FLANGE TO FLANGE	LOR = LP = I MW = N2 = I NC = SYSTEM NLL = NNF = NO =	LOV = LOCALLY OPERATED VALVE LOR = LOCAL-OFF-REMOTE LP = LOW PRESSURE MW = MANWAY N2 = NITROGEN NC = NORMALLY CLOSED			SCFH = STD. CU. FT. PER HOUR SCFM = STD. CU. FT. PER MINUTE SD = SHUTDOWN SO = STEAM OUT CONNECTION SP = SET POINT SR = STRESS RELIEF SS = SELECTOR SWITCH ST = STEAM TRAP T/T = TANGENT TO TANGENT TC = THERMOCOUPLE TS = TEMPORARY STRAINER	
IH PI IH QI IH RI IH SI IH TI	S QS S RS S SS			PY QY RY SY TY UY	PXSL QXSL RXSL SXSL TXSL	QXSH RXSH	PSV/PSE TSE	FC = FAIL CLOSED FL = FAIL LAST FO = FAIL OPEN FP = FULL PORT GPH = GALLONS PER HOUR	PB = PC = PLC =	PUSHBU PURGE ( = PROGR		T: T CONTROLLER U V	SO = TIGHT SHUT OFF YP = TYPICAL G = UNDERGROUND T = VENT /) = VENDOR FURNISH	
ih Vi Hh Wi				VY WY	WXSL	VXSH WXSH								FL
IH	XS			XY								INER / FILTER		SWAGE
EN ZI	S ZS	ZSC	ZSO	ZY							JE SIRA	INER / FILTER		SWAGE
	S, SWITCH AME FASH							OPEN S	PECTACLE	<u></u>	FLAN	GED TEE INER		REDUCER
ION 3rd POSITION 4th POSITION ON) OPEN				O SPECTACLE		Y-STI	RAINER WITH N VALVE		ECCENTRIC REDUCER					
) 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. іДі	BLEE	D RING VALVE	 	STOPPLE TEI					
ROL		/ , final Rol-elen	<i>I</i> /ENT					Ì↓ ORIFICE WITH V	-	×	DRES	SER	(	O-LET
								INSTRUMENTATION						
(	xx xxxx		(	XX XXXX			XX XXXX				FUNCTION	I SYMBOLS		_
	CAL PANEL			AL PAN			NDARY PAI	ED BACK MOUNTED	MULTIPLY		f(x) INSPECIFIED PROPORTION	> HIGH SELECT	► HIGH LIMIT	-
LOC	XX XXXX AL PANEL T MOUNTE		LOC	AL PAN			NDARY PAI		DIVISION		(t) ME FUNCTION	LOW SELECT	LOW LIMIT	-
LOC	XX XXXX CAL PANEL		LOC	XX XXXX AL PAN			XX XXXXX NDARY PAI		ROOT EXTRACTIO	N E	x" XPONENTIAL	✓         VELOCITY LIMITER		
	T MOUNTE	ט <u>-</u>				FRU		ED BACK MOUNTED	I-O SUMMATION	PLI	<u>+</u> JS/MINUS BIAS	MINUS BIAS	+ PLUS BIAS	M
	CAL PANEL	Ð		AL PAN Moun			NDARY PAI NT MOUNTE		Σ SUMMATION	[		ド PROPORTIONAL	」 INTEGRAL	MAJ
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	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 B = PULSATION BOTTLE C = COMPRESSOR D = DRIVER E = EXCHANGER (COOLER) F = FILTER G = GENERATOR H = HEATER (FIRED)	FL = FLARE J = JOINT (EXPANSION) L = LUBRICATOR P = PUMP R = REBOILER S = SILENCER (MUFFLER) TK = TANK V = VESSEL Y = DRYER	EQUIPMENT DESIGNATION CODE				

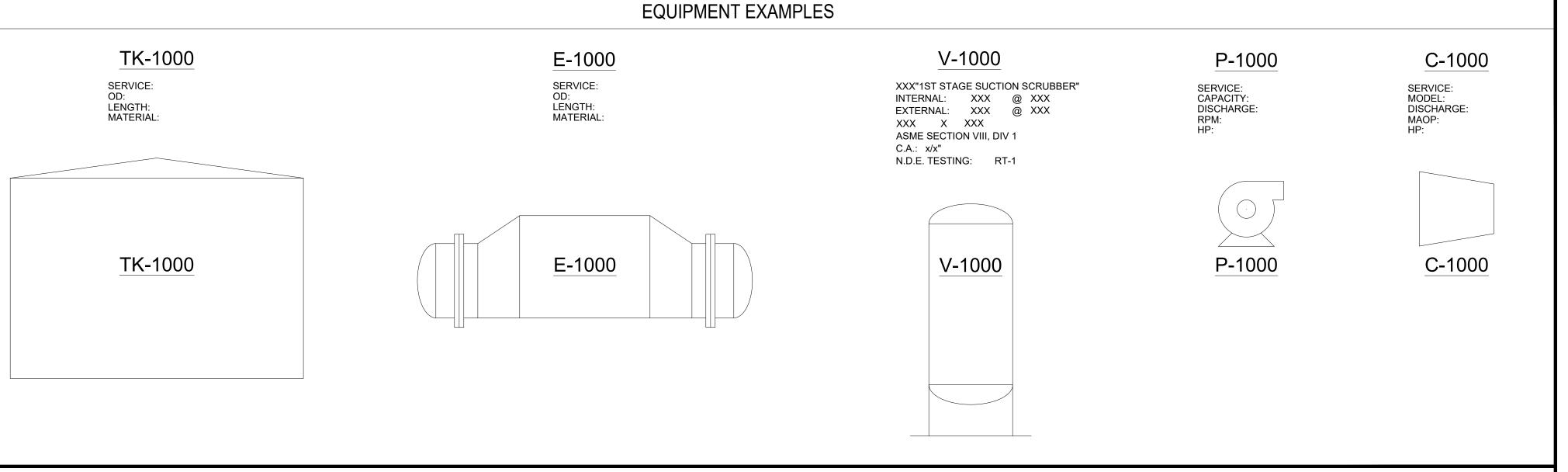
NOTE:

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 TEL. 630-353-4000	CHEC
WWW.ENENGINEERING.COM	APPR
	IN SE

FLOC: GT-000000011018



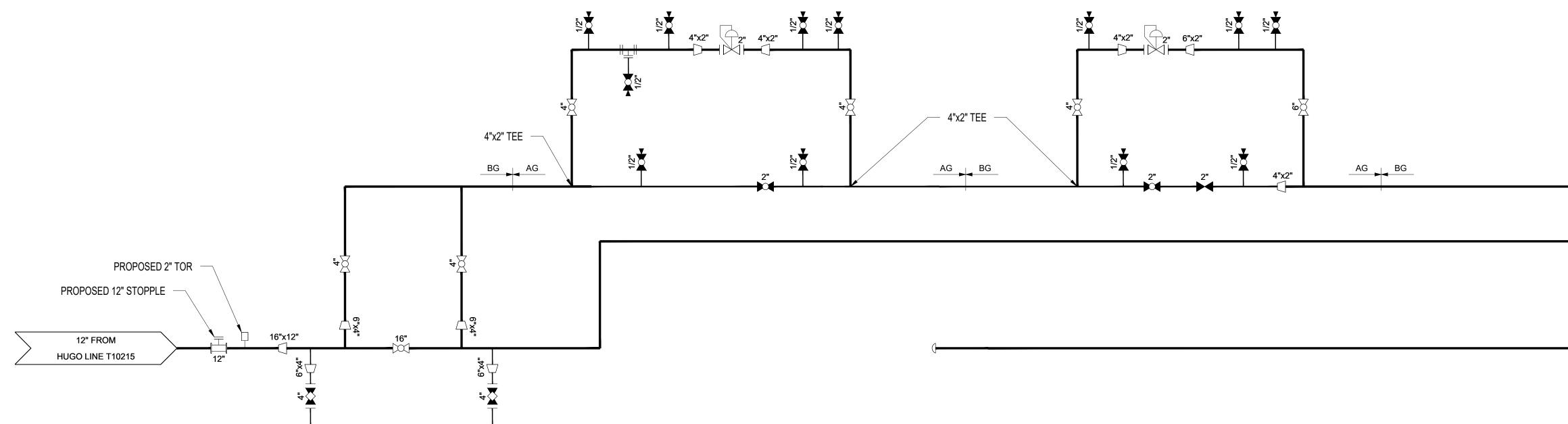
PROJECT-SPECIFIC EQUIPMENT

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

1002

/0\



# NOTE:

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



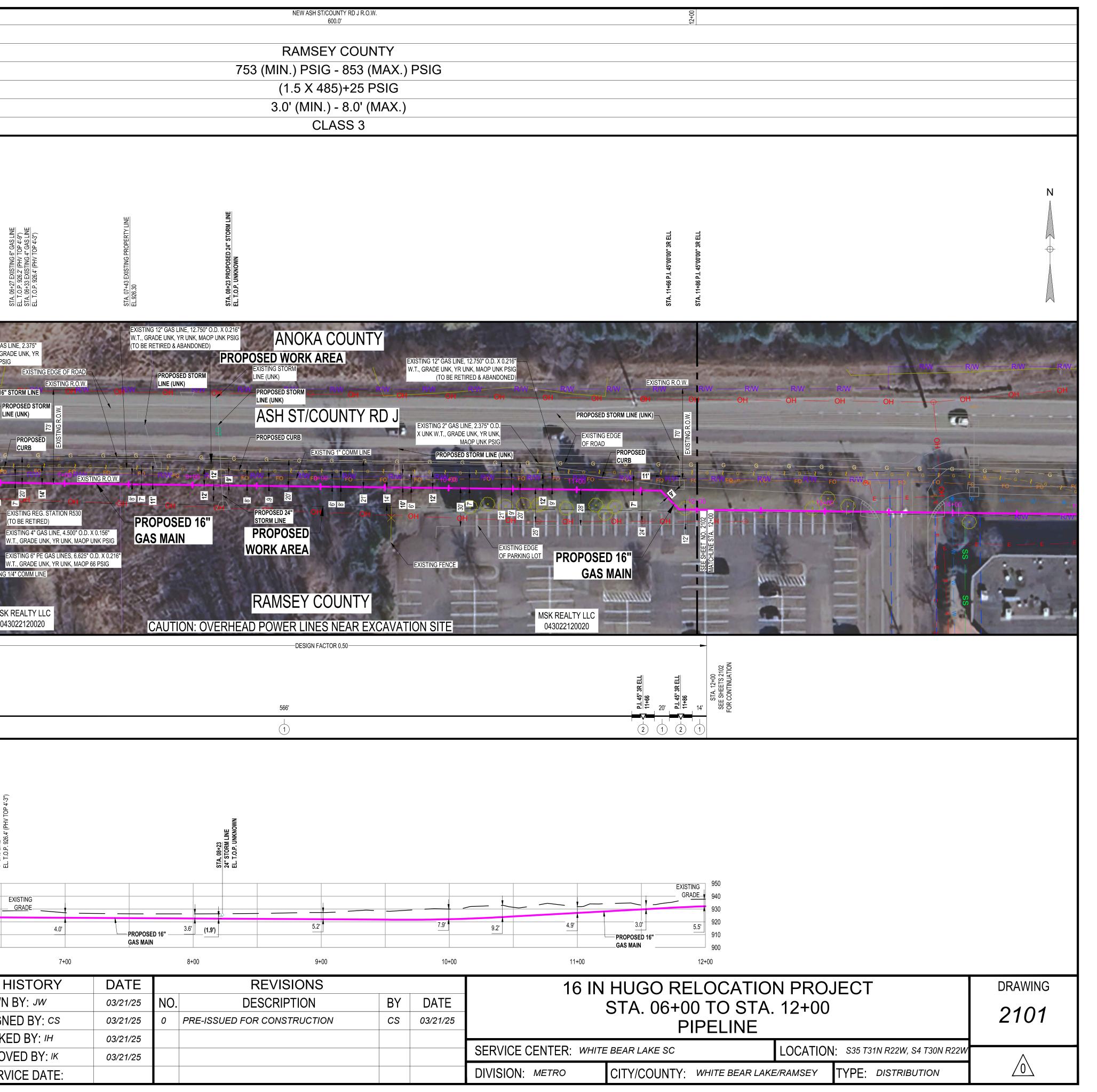
<b>ENEngineering</b>	DRAWN
2051 KILLEBREW DR, STE 311	DESIGN
BLOOMINGTON, MN. 55425 TEL. 630-353-4000	CHECK
WWW.ENENGINEERING.COM	APPRO
	IN SER\

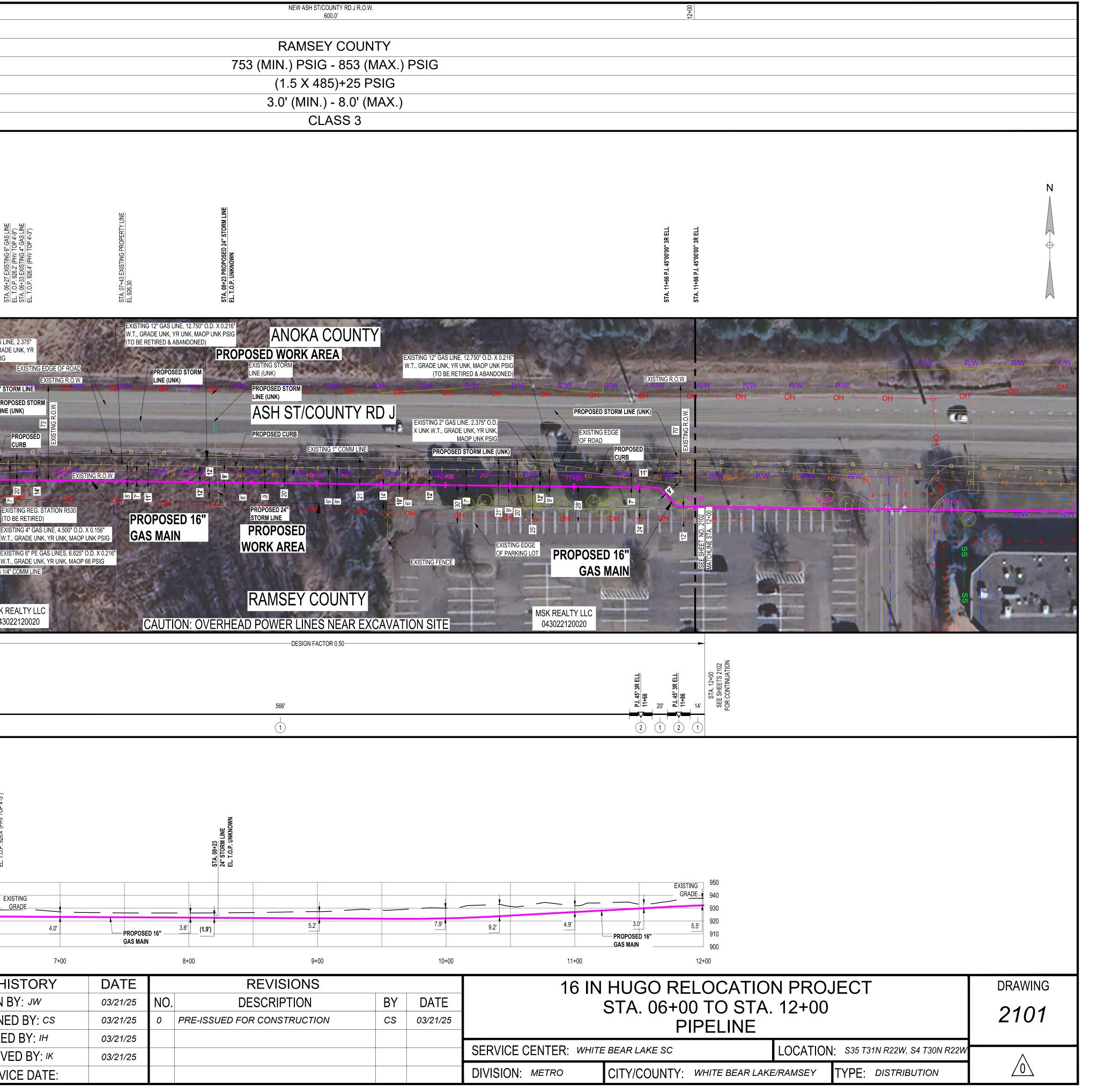
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2"			N									$\rightarrow$	LINE LOOP	
													16" TO	
												Нис	GO LINE T10215	
	4												12"	
	()												RETIRED	
HISTORY	DATE		RE//	ISIONS							ГОТ		DRAW	
VN BY: <i>MW</i>	03/21/25	NO.		RIPTION	BY	DATE		16 IN HUGO RE						
GNED 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 LASS LOCATION			
STATIONING				STA. 06+06 EXISTING CURB EL. 931.0' <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 EXISTING 2" PE GAS O.D. X UNK W.T., GP UNK, MAOP UNK PS PROPOSED 16 EXISTING 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 SEE SHEET 2100 FOR CONTINUATION	
HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 40'	NOTES: 1) VERTICAL CLEARANCE SHOWN IN PARENTHESIS ARE ASSUMED AN TYPICAL INSTALLATION DEPTHS FOR UNKNOWN FACILITIES. 2) CONTRACTOR SHALL FIELD VERIFY DEPTHS OF EXISTING UTILITIES CONSTRUCTION. 3) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEA:	PRIOR TO		STA. 06+27 6" GAS LINE EL. T.O.P. 926.2' (PHV TOP 4'-9") STA. 06+33 4" GAS LINE 4" GAS LINE
PROFILE		) oloootion duur	950 940 930 920 910 900	
⊢	AD FILE NAME: D1_2100_16in_NSPM_Hugo_R		6+00 ENERGINEERING 2051 KILLEBREW DR, STE 311 BLOOMINGTON, MN. 55425 TEL. 630-353-4000 WWW.ENENGINEERING.COM	DRAWN DESIGN CHECK APPRO

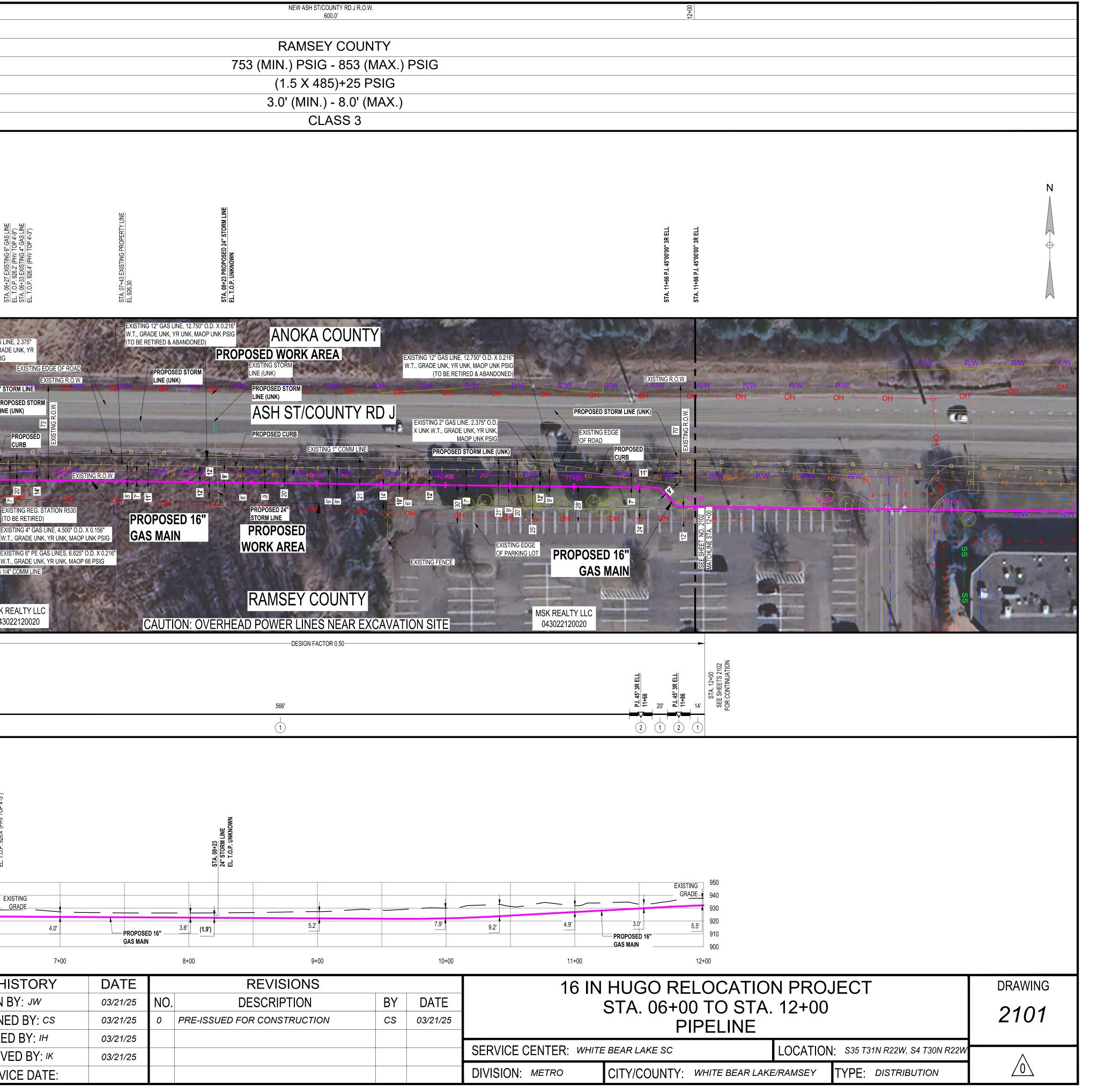
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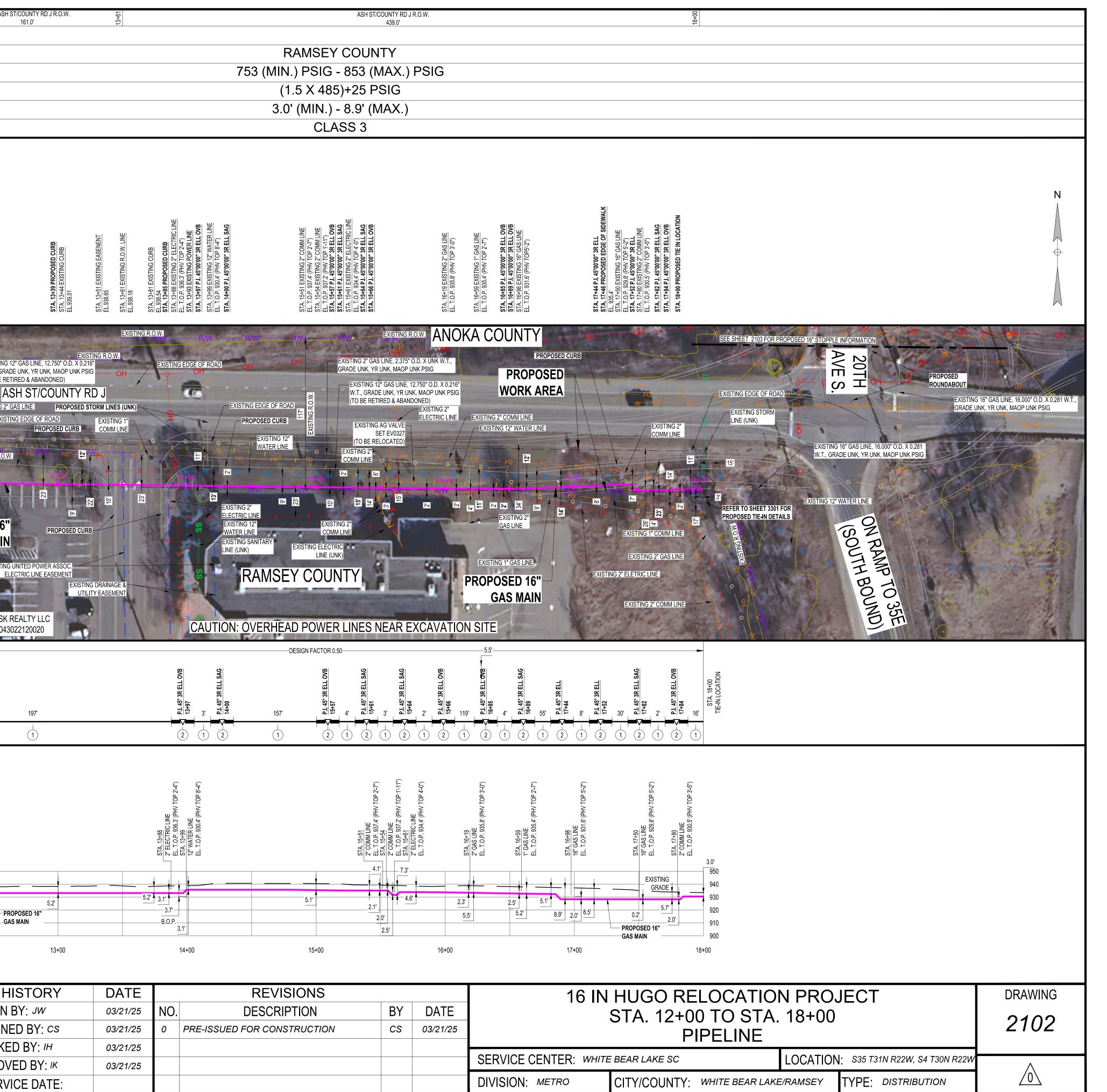
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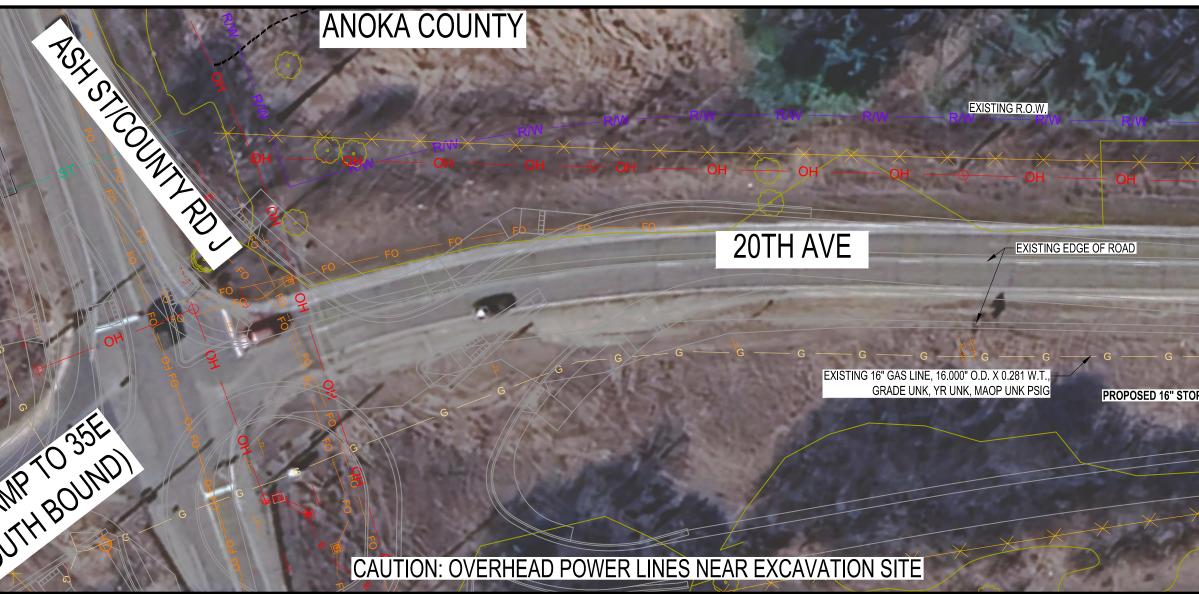
		00,21,20	Ŭ	•	00,21,20		
	CHECKED BY: IH	03/21/25					
_	APPROVED BY: <i>IK</i>	03/21/25				SERVICE CENTER: WHITE	E BEAR L
	N SERVICE DATE:					DIVISION: METRO	CITY/

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



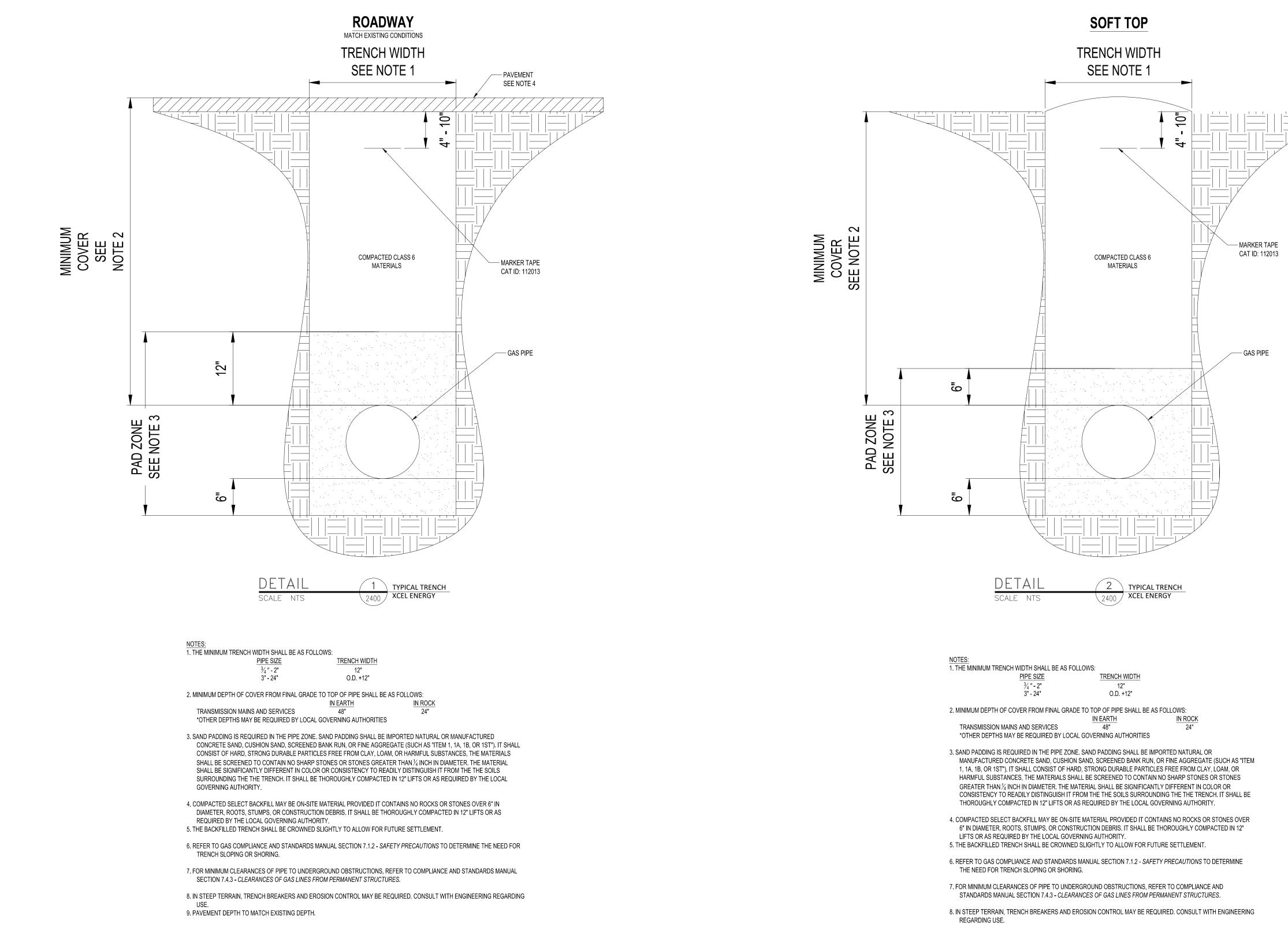
	VNERSHIP				
-	NVIRONMENTAL				
	EST PRESSURE MIN/MAX				
TE	EST PRESSURE FACTOR				
	EPTH OF COVER				
CL	ASS LOCATION				
STATIONING					
ALIGNMENT (SCALE: 1" = 40')	LEGEND         16" HP GAS MAIN         PERMANENT USE AREA         TEMPORARY USE AREA         G       ABANDONED GAS         G       GAS 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' VERTICAL SCALE: 1" = 40'					
PROFILE					
CA	D FILE NAME: D1_2100_16in_NSPM_Hugo_Re	location.dwa			
			2051 KILLEBREW BLOOMINGTON, TEL. 630-35. WWW.ENENGINE	DR, STE 311 MN. 55425 3-4000	DRAWI DESIGI CHECK 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 OH OH OH OH OH OH (ССС)	R/WR/W
PROPOSED CURB PROPOSED CURB PROPOS	
GO RELOCATION PROJECT TOPPLE LOCATION PIPELINE	drawing 2103
LOCATION: S35 T31N R22W, S4 T30N R22W COUNTY: LINO LAKES/ANOKA TYPE: DISTRIBUTION	$\Delta$



NOTES:

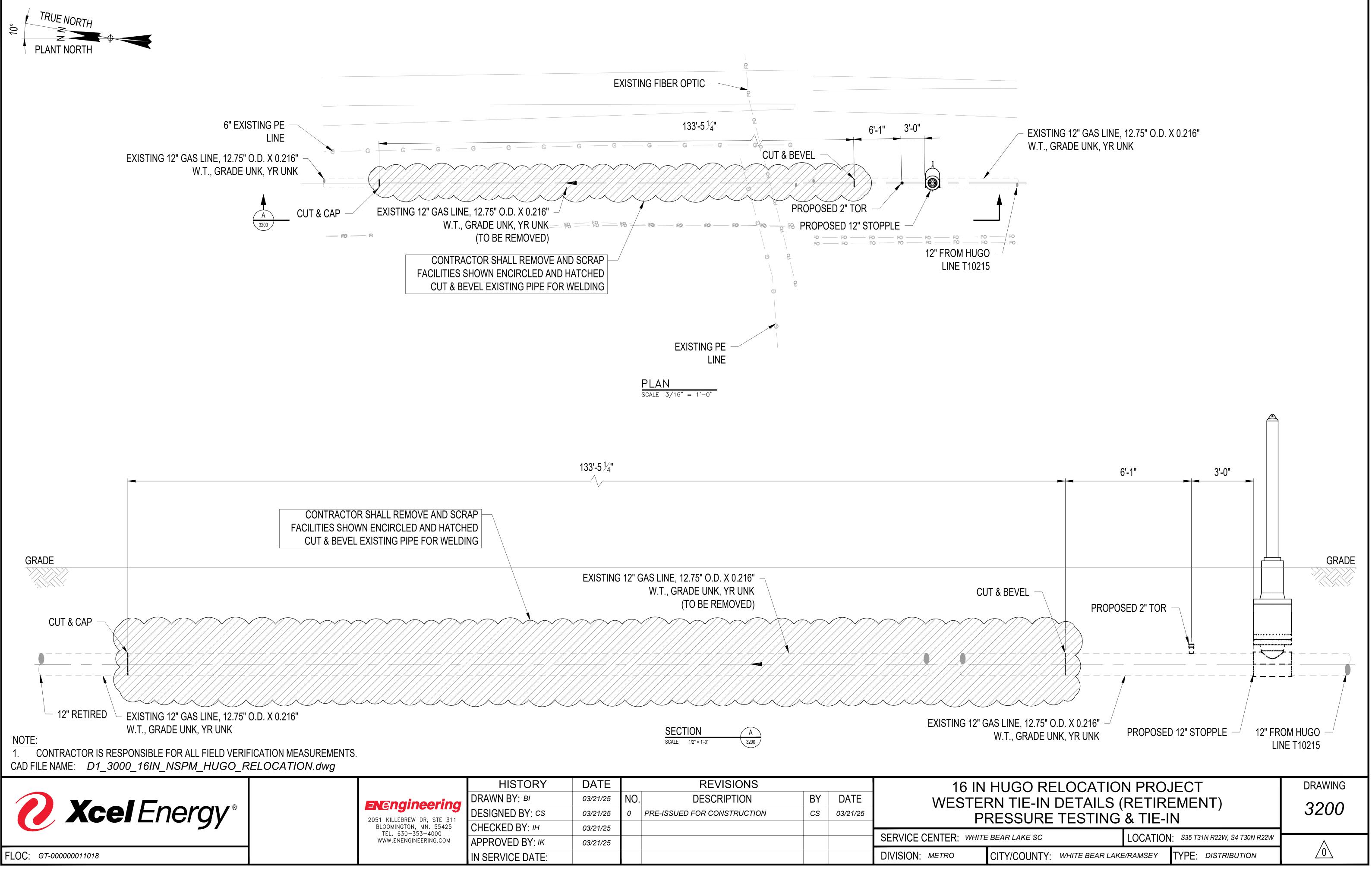
CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASUREMENTS. 1)

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

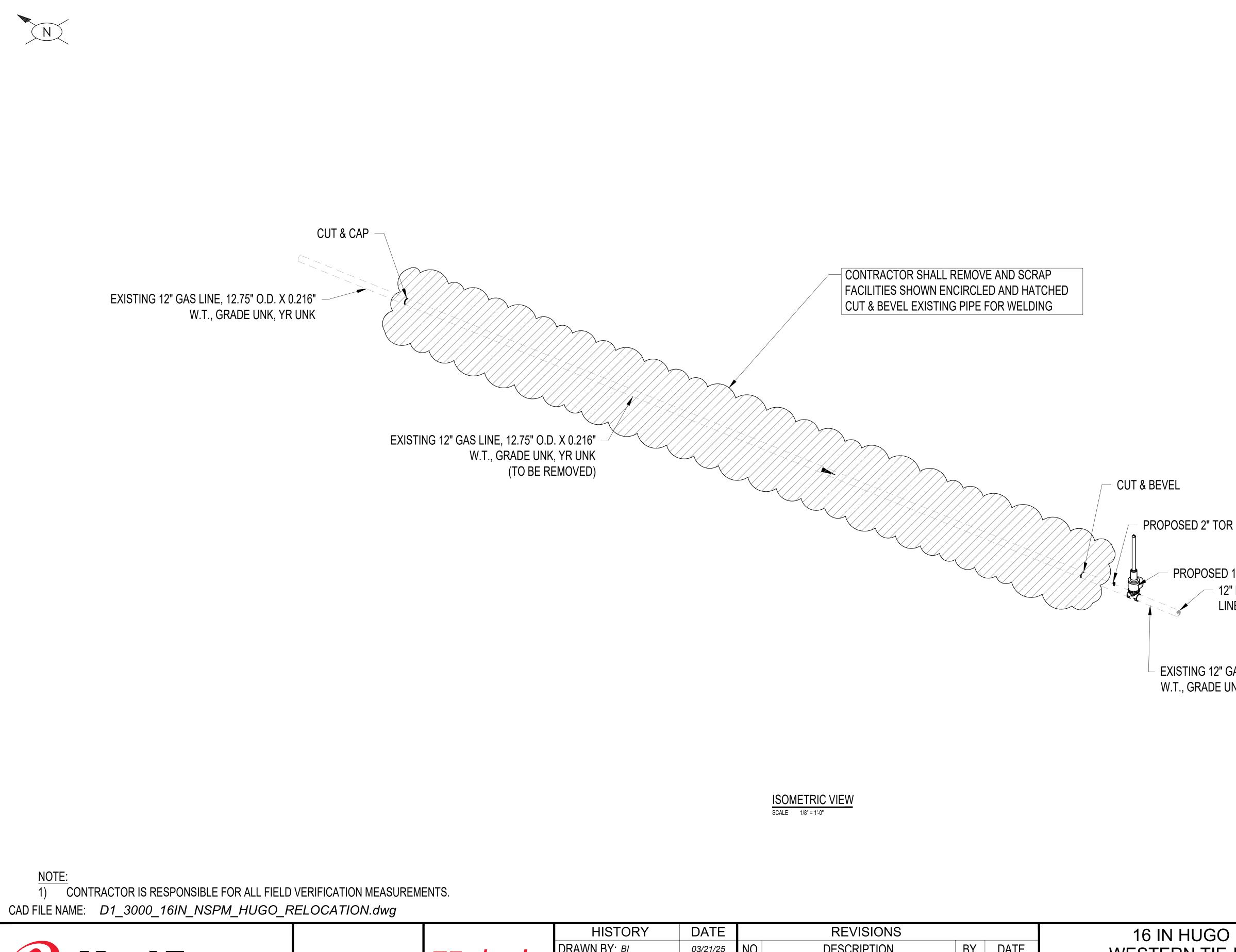
<b>Contract Scelenergy</b> ®			DRAWN DESIGN CHECKE APPROV
FLOC: GT-00000011018	PE STAMP	VENDOR LOGO	IN SERV



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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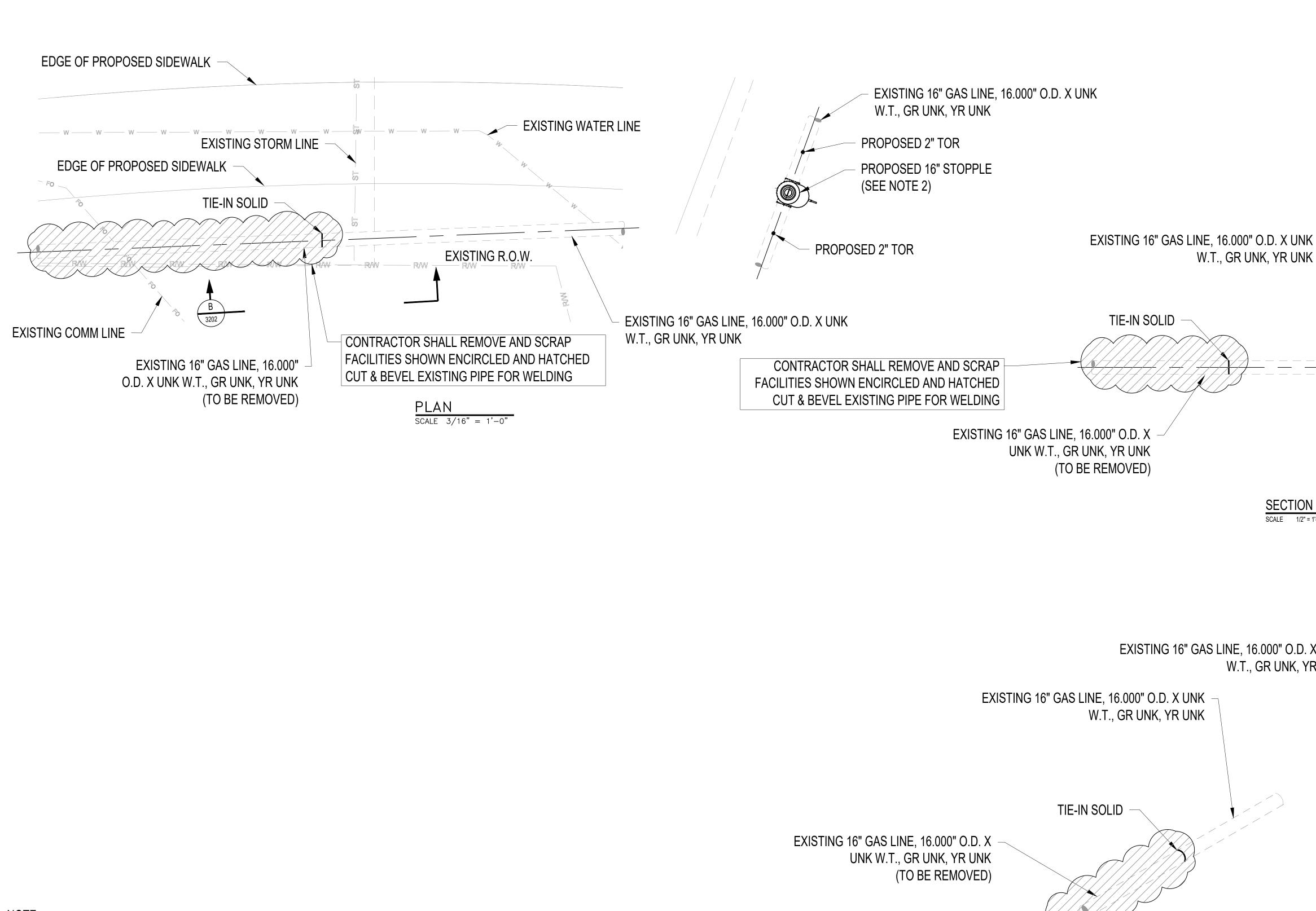


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HISTORY	DATE		REVISIONS			16 IN	HUGO RELOCATIO	N PROJ	ECT	DRAWING
WN BY: <i>ві</i>	03/21/25	NO.	DESCRIPTION	BY	DATE	_	RN TIE-IN DETAILS (		_	0004
GNED BY: cs	03/21/25	0	PRE-ISSUED FOR CONSTRUCTION	CS	03/21/25		RESSURE TESTING	•	/	3201
CKED BY: IH	03/21/25								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

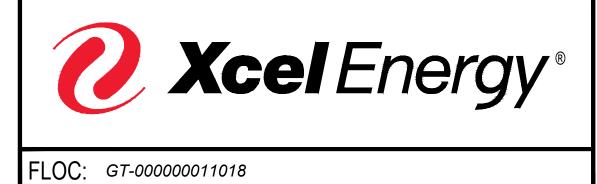


NOTE:

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)

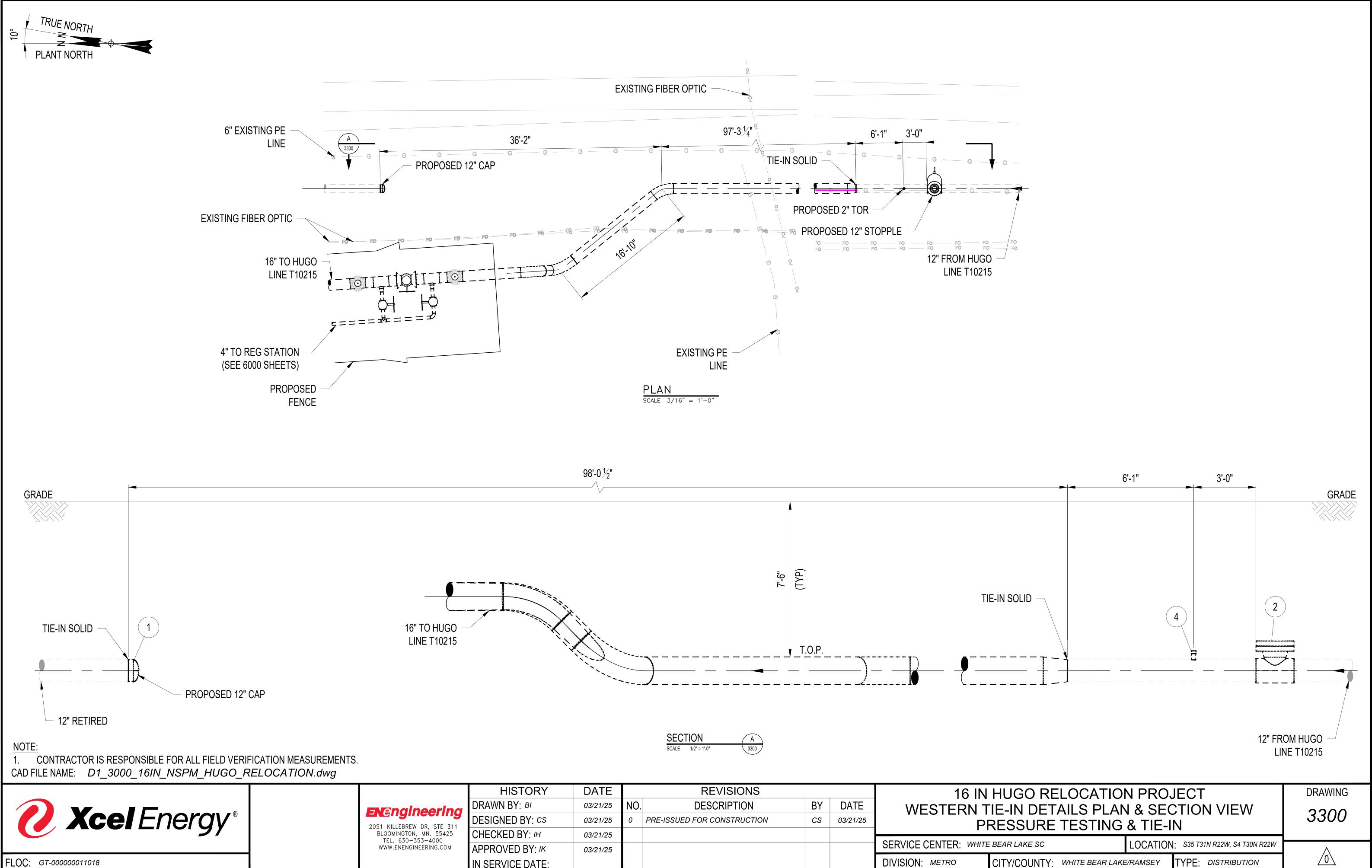
CAD FILE NAME: D1\_3000\_16IN\_NSPM\_HUGO\_RELOCATION.dwg

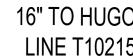


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E / /		PROPOSED 2" TOR PROPOSED 16" STOPPLE (SEE NOTE 2)			Â	
- / /		PROPOSED 2" TOR	EXISTIN	IG 16" GAS LINE, 16.000" O.D. X UNK W.T., GR UNK, YR UNK		
XISTING 16" GAS LINE, /.T., GR UNK, YR UNK	CONTRA FACILITIES S	ACTOR SHALL REMOVE AND SCRAP SHOWN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

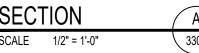






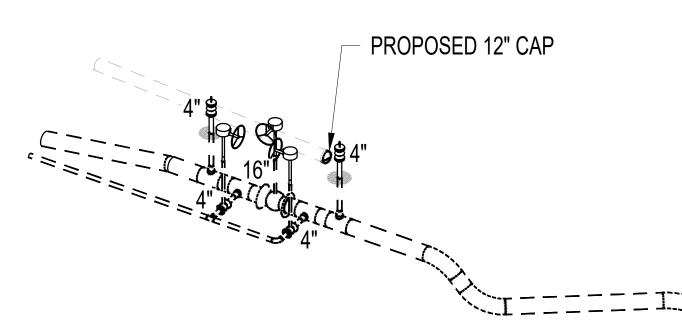
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BLOOI TEL	LLEBREW MINGTON, . 630–35 .ENENGINI	MN. 55 3-4000	425

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



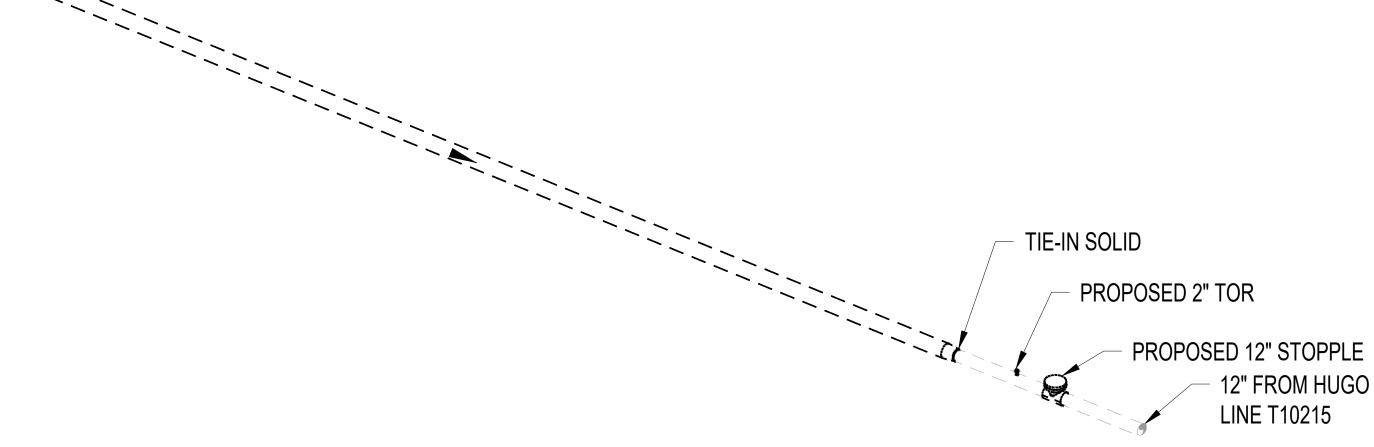
NOTE: 1) CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION MEASUREMENTS. CAD FILE NAME: D1\_3000\_16IN\_NSPM\_HUGO\_RELOCATION.dwg



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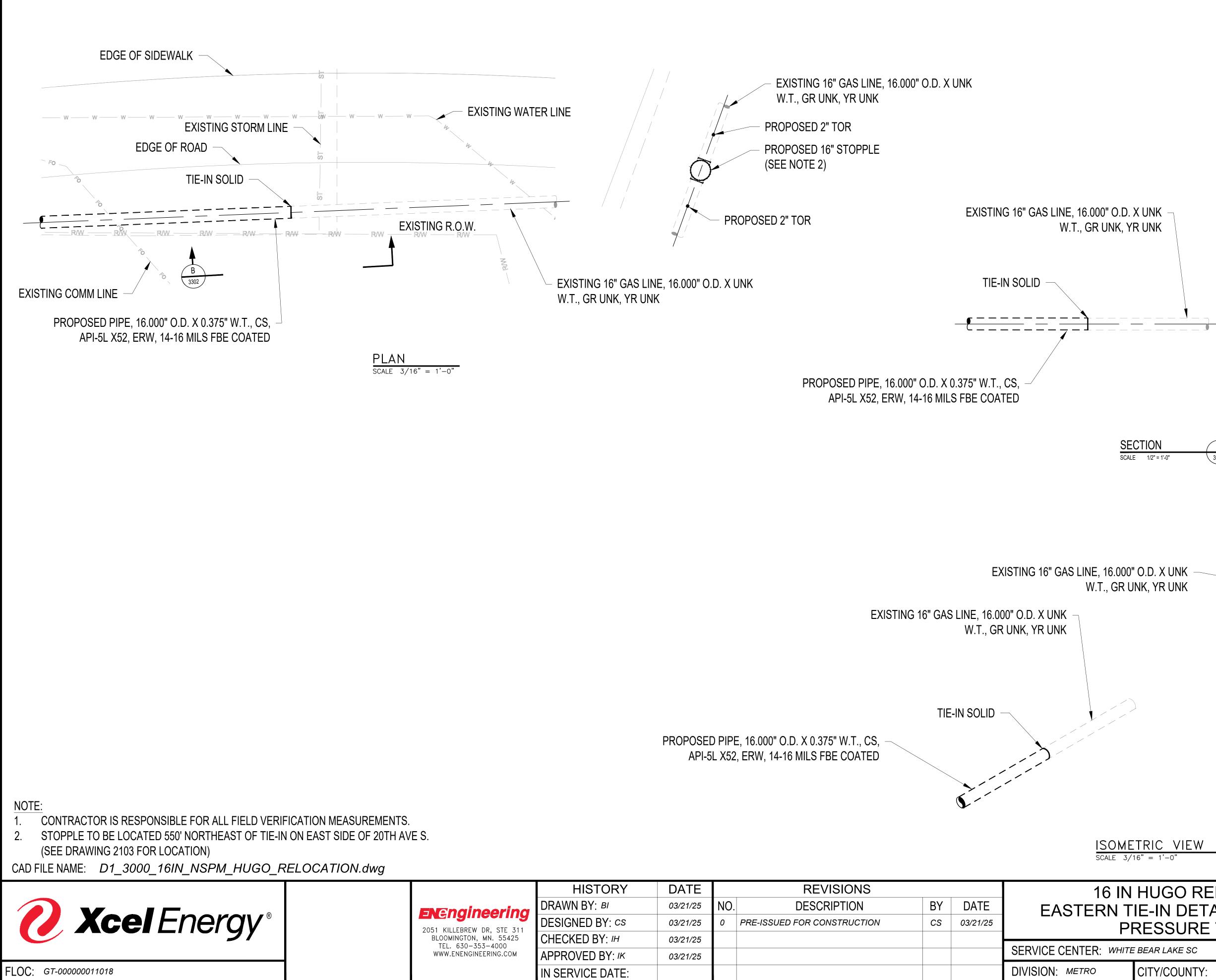
SCALE 1/8" = 1'-0"

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

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Susan Burgmeier Susan.Burgmeier@anokacountymn.gov

Associate Traffic Technician

Anoka County

Signing Group: Highway Permits

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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

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