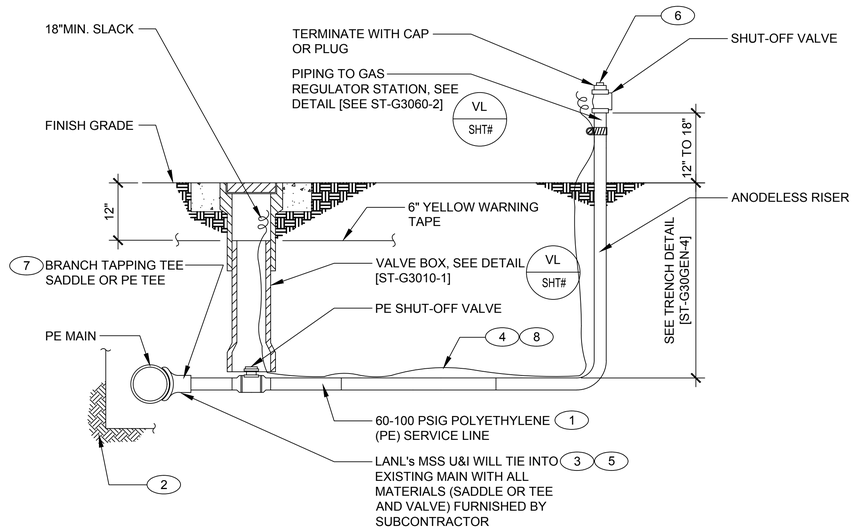

VL
SHT#

GAS PIPING TIE-IN DETAIL

SCALE: NONE

GENERAL NOTES:

1. IF THIS SHEET IS NOT 24"X36" USE GRAPHIC SCALE ACCORDINGLY.

KEYED NOTES:

1. RUN NEW SERVICE LINE TO WITHIN 6" OF EXISTING MAIN
2. MINIMUM BELL HOLE AT BOTTOM OF TRENCH: 24" FROM CENTERLINE OF NEW PIPE ON EACH SIDE; 18" FROM EDGE ON BACK SIDE; 4'-0" IN FRONT OF MAIN (LENGTH OF BELL HOLE); 18" UNDER MAIN. TAPER OR STEP TRENCH TO MEET OSHA REQUIREMENTS.
3. LANL STR WILL ENSURE MATERIALS REQUIRED FOR TIE-IN ARE AT THE JOB SITE, SERVICE LINE HAS BEEN PRESSURE TESTED, AND BELL HOLE IS DUG PRIOR TO NOTIFYING MSS U&I.
4. INSTALL CONTINUOUS (NO SPLICING) TRACER WIRE 6" ABOVE PIPING WITH NO DIRECT CONTACT TO PIPING, EXTEND 12" MINIMUM ABOVE GRADE AND SECURE TO PIPING WITH HOSE CLAMP.
5. LANL STR INSPECTOR WILL NOTIFY MSS U&I 15 DAYS IN ADVANCE TO SCHEDULE TIE-IN.
6. LOCATE STUB-OUT FOR GAS REGULATOR 8" TO 12" FROM BUILDING. ENSURE PIPING IS STRAIGHT, LEVEL AND PLUMB WITH BUILDING.
7. WHEN TIE-IN PIPING IS EQUAL TO OR EXCEEDS 1/2 OF MAIN DIAMETER, MAKE TIE-IN WITH FULL CIRCLE WELD CLAMP OR BY CUTTING IN A TEE.
8. LANL STR WILL NOTIFY U&I UMAP FOR TRACER WIRE CONTINUITY TESTING AND UTILITY DOCUMENTATION.

DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE)

NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. PROVIDE 1", 1 1/4", 2" OR 3" PE SERVICE LINE AND A 2" MIN. PE MAIN
2. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS CONTACT THE LANL ESM CIVIL POC.
3. REFER TO THE FOLLOWING LANL STANDARDS FOR ADDITIONAL REQUIREMENTS:
   - 1.1. ENGINEERING MANUAL, CIVIL CHAPTER.
   - 1.2. SPEC 31 2000, EARTH MOVING.
   - 1.3. SPEC 33 5100, NATURAL-GAS DISTRIBUTION.
2. SPECIFY POLYETHYLENE PIPING FOR BRANCH PIPING TO BUILDING. USE OF COATED STEEL PIPING SHALL BE APPROVED BY LANL UTILITIES AND INSTITUTIONAL FACILITIES GROUP GAS SYSTEM REPRESENTATIVE
3. SIZE SERVICE LINES IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE OR UNIFORM MECHANICAL CODE
4. DESIGN DRAWINGS AND SUBMITTALS OF SITE NATURAL GAS PIPING SYSTEM SHALL BE REVIEWED AND APPROVED BY LANL UTILITIES AND INSTITUTIONAL FACILITIES GROUP GAS SYSTEM REPRESENTATIVE.
5. DESIGN PIPING CAPACITY FOR 60 PSIG GAS PRESSURE AND 100 PSIG MAXIMUM OPERATING PRESSURE
6. PROVIDE TRACER WIRE IN ACCORDANCE WITH LANL ESM STANDARD DRAWING ST-G30GEN-3. TRACER WIRE DETAIL FOR NON-METALIC PIPE ONLY.

00% REVIEW
NOT FOR CONSTRUCTION

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
2	09/15/2016	UNCLASS	EJS	ADMIN. CHANGES TO NEW FORMAT CAD STD REV#5. MINOR DESIGN CHANGES & INCORPORATED NOTES TO DESIGNER FROM SHEET 4 OF 4.	EJS	MS	MS	CJRR	TO
1	08/23/2002	U		GENERAL REVISION AND DWG. NO. WAS ST6510.	RP	JG	MS	EH	TO

ENGINEERING STANDARDS

CIVIL

GAS PIPING TIE-IN DETAIL
PE SERVICE LINE TO PE MAIN

TA- XX BLDG XXXX

DRAWN	R.PEARSON
DESIGN	J.GONZALES
CHECKED	M. SMITHOUR
DATE	5-28-99

SUBMITTED
DISCIPLINE POC: E. HOTH

APPROVED FOR RELEASE
STANDARDS MANAGER: TOBIN ORUCH

Los Alamos NATIONAL LABORATORY
P0 Box 1663
Los Alamos, New Mexico 87545

SHEET 3 OF 3

D.C.: U | REVIEWER: LARRY BAYS | DATE:

PROJECT ID: **CHAPTER 3**
DRAWING NO: **ST-G3060-1.3**
REV: **2**