



KEYED NOTES:

- ① RUN SERVICE LINE 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 OF MAIN ON BACK SIDE; 8'-0" IN FRONT OF MAIN (LENGTH OF BELL HOLE); 18" UNDER MAIN. TAPER OR STEP TRENCH TO MEET OSHA REQUIREMENTS.
- ③ LANL CONSTRUCTION INSPECTOR WILL ENSURE MATERIALS REQUIRED FOR HOT TAP ARE AT JOB SITE, DISINFECTING AND PRESSURE TESTING OF THE SERVICE LINE HAVE BEEN COMPLETED, AND EXCAVATION OF BELL HOLE IS DONE PRIOR TO NOTIFYING MSS U&I.
- ④ LANL CONSTRUCTION INSPECTOR WILL GIVE MSS U&I 15 WORKING DAYS NOTICE OF THE NEED TO SCHEDULE A TIE-IN TO EXISTING UTILITIES.
- ⑤ LOCATE GATE VALVE NEAR MAIN - PREFERABLY IN UNPAVED AREA.

WATER PIPING TIE-IN DETAIL
SCALE: NONE

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. SEE SHEET 3.

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
3	1-28-14	U		GENERAL REVISION	KT	MS	JG	RT	TO
2	8-14-03	U		EDITORIAL CHANGES & REVISED NOTE 4.	RP	JH	MS	EH	TO
1	8-23-02	U		GENERAL REVISION AND DWG. NO. WAS ST8105.	RP	EH	MS	EH	TO

ENGINEERING STANDARDS PROGRAM

ENGINEERING STANDARDS MANUAL

WATER PIPING TIE-IN DETAIL
3/4" TO 2" COPPER SERVICE LINE

TA-XX	BLDG XXX	DATE	6-28-99
SUBMITTED DISCIPLINE POC: EDWARD HOTH		APPROVED FOR RELEASE STANDARDS MANAGER: TOBIN ORUCH	
Los Alamos NATIONAL LABORATORY		PO Box 1663 Los Alamos, New Mexico 87545	
D.C.: UNCLASSIFIED		REVIEWER: LARRY BAYS	BASIS: BASIS
PROJECT ID	DRAWING NO	ESR NO.:	DATE:
CHAPTER 3	ST-G3010-2	ESR #	

DRAWN: R. PEARSON
DESIGN: E. HOTH
CHECKED: M. SMITHOUR
DATE: 6-28-99

SHEET 1 OF 3

REV 3