

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

1. 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 ESM CIVIL POC.
2. REFER TO THE FOLLOWING LANL STANDARDS FOR ADDITIONAL REQUIREMENTS:
 - A. ENGINEERING MANUAL, CIVIL CHAPTER.
 - B. CIVIL DRAWING ST-G30GEN-1, BOLLARD DETAIL.
 - C. MASTER SPECIFICATION 33 5100, NATURAL GAS DISTRIBUTION (SITE).
 - D. MASTER SPECIFICATION 23 1123, NATURAL GAS PIPING SYSTEMS (BUILDING).
3. PROVIDE 4" DIAMETER PIPE BOLLARDS IF VEHICLES ARE LIKELY TO COME IN CONTACT WITH REGULATOR STATION. BOLLARDS FOR PROTECTING GAS SERVICES WILL BE 3'-6" ABOVE AND 2'-6" BELOW GRADE WITH BASE BEING 4" OF CONCRETE ALL AROUND.
4. CONTACT LANL UTILITIES AND INFRASTRUCTURE GROUP GAS SYSTEM REPRESENTATIVE (665-2612) FOR SPECIAL DESIGNS, AND WHEN EXCEPTION TO THESE STANDARDS ARE NECESSARY i.e. LOCATION OF REGULATOR, FLOW CAPACITIES, ETC.
5. INSTALL AGA APPROVED APPLIANCE REGULATORS AT EACH APPLIANCE ON 1 PSIG OR 2 PSIG GAS PIPING SYSTEMS. SEPARATE VENTS TO THE OUTSIDE ARE NOT REQUIRED PROVIDING APPLIANCE REGULATORS HAVE MAXIMUM DISCHARGE RATE THROUGH VENT OF 1.0 CFH AT 2 PSIG. INSTALL REGULATORS IN NONHAZARDOUS WELL-VENTED INTERIOR LOCATION, READILY ACCESSIBLE FOR SERVICING.
6. SIZE SUPPLY PIPING TO BUILDING IN ACCORDANCE WITH THE UNIFORM PLUMBING OR UNIFORM MECHANICAL CODES (IAPMO).
7. INSTALL SNOW PROTECTION ABOVE REGULATOR STATION IF STATION IS LOCATED ON SLOPE END OF ROOF.
8. DESIGN DRAWINGS AND SUBMITTALS OF SITE NATURAL GAS PIPING SYSTEM SHALL BE REVIEWED AND APPROVED BY A LANL UTILITIES GROUP AND INFRASTRUCTURE GAS SYSTEM REPRESENTATIVE.

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

2	1-19-06	U	DY	ADDED AND REVISED NOTES FOR DESIGNER, REVISED TITLE BLOCK DATA, AND ADTS - ENGINEERING LOGO.	RP	MS	MS	EH	TO	
1	8-23-02	U		GENERAL REVISION AND DWG. NO. WAS ST6500.	RP	JG	MS	EH	TO	
NO	DATE	CLASS	REV	ADC	DESCRIPTION	OWN	DSGN	CHKD	SUB	APP

ENGINEERING STANDARDS PROGRAM

ENGINEERING STANDARDS MANUAL

GAS REGULATOR STATION DETAIL DESIGN NOTES	DRAWN	R.PEARSON
	DESIGN	J.GONZALES
	CHECKED	M.SMITHOUR
DATE	6-28-99	

BLDG X TA-X

DISCIPLINE POC: E. HOTH STANDARDS MANAGER: TOBIN ORUCH

SHEET **5** OF **5**

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CLASSIFICATION: U	REVIEWER: LARRY BAYS	DATE:
PROJECT ID	DRAWING NO	REV
CHAPTER 3		ST-G3060-2
		2

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