

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. MASTER SPECIFICATION 31 2000, EARTH MOVING.
 - C. MASTER SPECIFICATION 33 1000, WATER UTILITIES.
 - D. CIVIL DRAWING ST-G30GEN-1, BOLLARD DETAIL.
 - E. MECH DRAWING ST-D2020-1, SITE/BUILDING WATER COMPONENT DIAGRAM.
3. DO NOT SEPARATE THE FIRE HYDRANT FROM THE SHUT-OFF VALVE WITH A BARRIER (FENCE, ETC).
4. FIRE HYDRANT SHALL BE LOCATED WITH A MINIMUM 5 FEET CLEAR AREA ON SIDES AND BACK, I.E. LANDSCAPING, FENCE, ETC. PUMPER CONNECTION SIDE SHALL BE FREE OF ANY OBSTRUCTIONS.
5. IF FIRE HYDRANTS ARE LOCATED WITHIN A POTENTIAL RELEASE SITE (PRS) CONSULT WITH THE LANL WATER QUALITY GROUP.
6. IF REQUIRED, TWO OR FOUR BOLLARDS WILL BE PLACED EQUALLY AROUND HYDRANT AT 2'-0" FROM HYDRANT. BOLLARDS FOR PROTECTING WATER SERVICES WILL BE 4" STEEL PIPE 3'-6" ABOVE GRADE AND 2'-6" BELOW GRADE. CONCRETE BASE WILL PROVIDE 4" OF CONCRETE ALL AROUND PIPE.

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	1-18-08	U	DY	ADDED AND REVISED NOTES FOR DESIGNER, REVISED TITLE BLOCK DATA, AND AITS - ENGINEERING LOGS.	RP	EH	MS	EH	TO	
1	8-23-02	U		GENERAL REVISION AND DWG. NO. WAS ST6110.	RP	EH	MS	EH	TO	
NO	DATE	CLASS	REV	ADD	DESCRIPTION	OWN	DSGN	CHKD	SUB	APP

ENGINEERING STANDARDS PROGRAM

ENGINEERING STANDARDS MANUAL		DRAWN	R.PEARSON
		DESIGN	E.HOTH
FIRE HYDRANT DETAIL NOTES		CHECKED	M.SMITHOUR
		DATE	8-28-99
BLDG X	TA-X		
SUBMITTED	APPROVED FOR RELEASE		
DISCIPLINE POC: E. HOTH	STANDARDS MANAGER: TOBIN ORUCH		
		PO Box 1663 Los Alamos, New Mexico 87545	
CLASSIFICATION: U	REVIEWER: LARRY BAYS	DATE:	
PROJECT ID	DRAWING NO	SHEET	
CHAPTER 3	ST-G3010-4	2 OF 2	
		REV	2

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