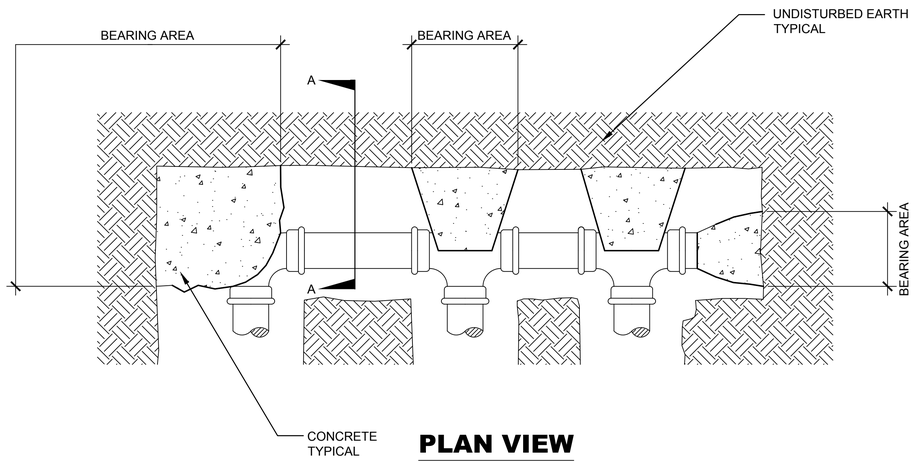
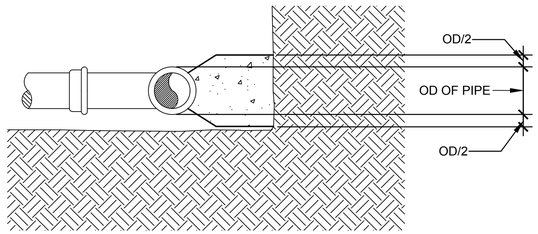


PLAN VIEW



SECTION A-A

VL
SHT#

THRUST BLOCK DETAIL

1' 9" 6" 3" 0 1'

1"=1'-0"

GENERAL NOTES:

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

MIN. THRUST BLOCK AREA (SQ. FT.)

PIPE DIA	PLUG TEE	90°BEND	45°BEND
4"	2	2	2
6"	4	5	3
8"	6	8	5
10"	9	13	7
12"	13	18	10
14"	18	25	14
16"	23	32	18

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. 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. SIZE OF CONCRETE DETERMINED BY SIZE OF PIPE. CONCRETE SHALL COVER AREA OF PIPE AS SHOWN AND SHALL REST AGAINST UNDISTURBED BANK OF TRENCH.
3. BEARING AREAS ARE FOR UNDISTURBED MATERIAL. INCREASE BEARING AREA FOR COMPACTED FILL MATERIAL BY A FACTOR OF 1.5.
4. CONCRETE F'c=3000psi @ 28 DAYS.
5. TABLE BASED ON NFPA 24, 8.6, 225 psi PRESSURE AND 200 psf SOIL BEARING.
6. SAND BEDDING NOT SHOWN FOR CLARITY.

00% REVIEW
NOT FOR CONSTRUCTION

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
3	08/04/2016	UNCLASS	EJS	ADMIN. CHANGES TO NEW FORMAT CAD STD REV#5. MINOR DESIGN CHANGES	EJS	MS	MS	CJRR	TO
2	01/28/2014	U	EJS	GENERAL REVISION	KT	MS	JG	RT	TO
1	08/23/2002	U	EJS	GENERAL REVISIONS & CHANGED DWG NUMBER FROM ST3663	RP	EH	MS	EH	TO

ENGINEERING STANDARDS

CIVIL

THRUST BLOCK DETAIL

TA- XX BLDG XXXX

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

SUBMITTED
DISCIPLINE POC: EDWARD HOTH

APPROVED FOR RELEASE
STANDARDS MANAGER: TOBIN ORUCH

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

SHEET 1 OF 1

D.C.: UNCLASSIFIED REVIEWER: LARRY BAYS DATE:

PROJECT ID **CHAPTER 3**

DRAWING NO **ST-G30GEN-2**

REV **3**