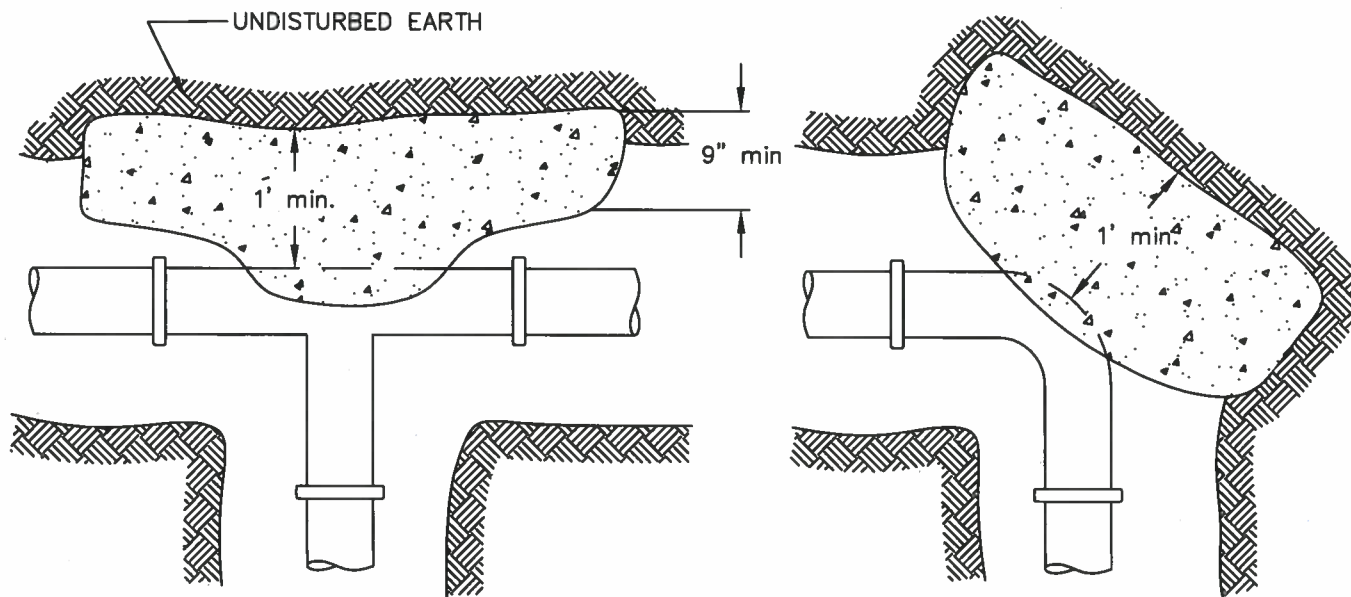




	MINIMUM REQUIRED BEARING AREAS – in square feet									
	TYPICAL CLAY SOIL (1000 psf)					CLEAN GRANULAR SOIL (2500 psf)				
SIZE OF BRANCH PIPE	11½°	22½°	45°	90°	Tee	11½°	22½°	45°	90°	Tee
4"					2.5					
6"	2.0	2.0	3.0	5.5	4.0	2.0	2.0	2.0	2.0	2.0
8"	2.0	2.5	5.0	9.5	6.5	2.0	2.0	2.0	4.0	3.0
12"	3.0	6.0	11.5	21.5	15.5	2.0	2.5	5.0	9.0	6.0
16"	5.0	10.5	20.5	38.0	27.0	2.0	4.0	8.0	15.0	11.0

NOTES:

1. ALL NUTS, BOLTS AND COUPLINGS SHALL BE KEPT CLEAR OF CONCRETE.
2. ALL BLOCKS MUST BEAR AGAINST UNDISTURBED EARTH.
3. REINFORCING STEEL, 4@12" O.C. REQUIRED FOR BLOCKS LARGER THAN 5 SQ.FT. OR AS DIRECTED BY THE CITY ENGINEERING SERVICE MANAGER.
4. CONCRETE FOR THRUST BLOCK SHALL BE CLASS B (5 SACKS)@ 2500psi MIN.
5. SEE DETAIL WA-23 FOR PIPE COVERING REQUIREMENTS.
6. MECHANICAL OR FLANGED JOINTS, COUPLINGS AND CONNECTIONS REQUIRED (NO PUSH ON JOINTS ALLOWED).

X:\Engin\CADSTND\Standard Details\WA-5 THRU-BLOC



CITY OF MENLO PARK STANDARD DETAILS

**THRUST BLOCKING FOR
TREES AND BENDS**

APPROVED

Matthew Blum
ENGINEERING SERVICES MANAGER, R.C.E. No.70736

STD. DETAIL No. WA-5

DRAWN
EJE

CHECKED
VP

DATE
2/14/12

SCALE
NTS

SHEET
1 OF 1