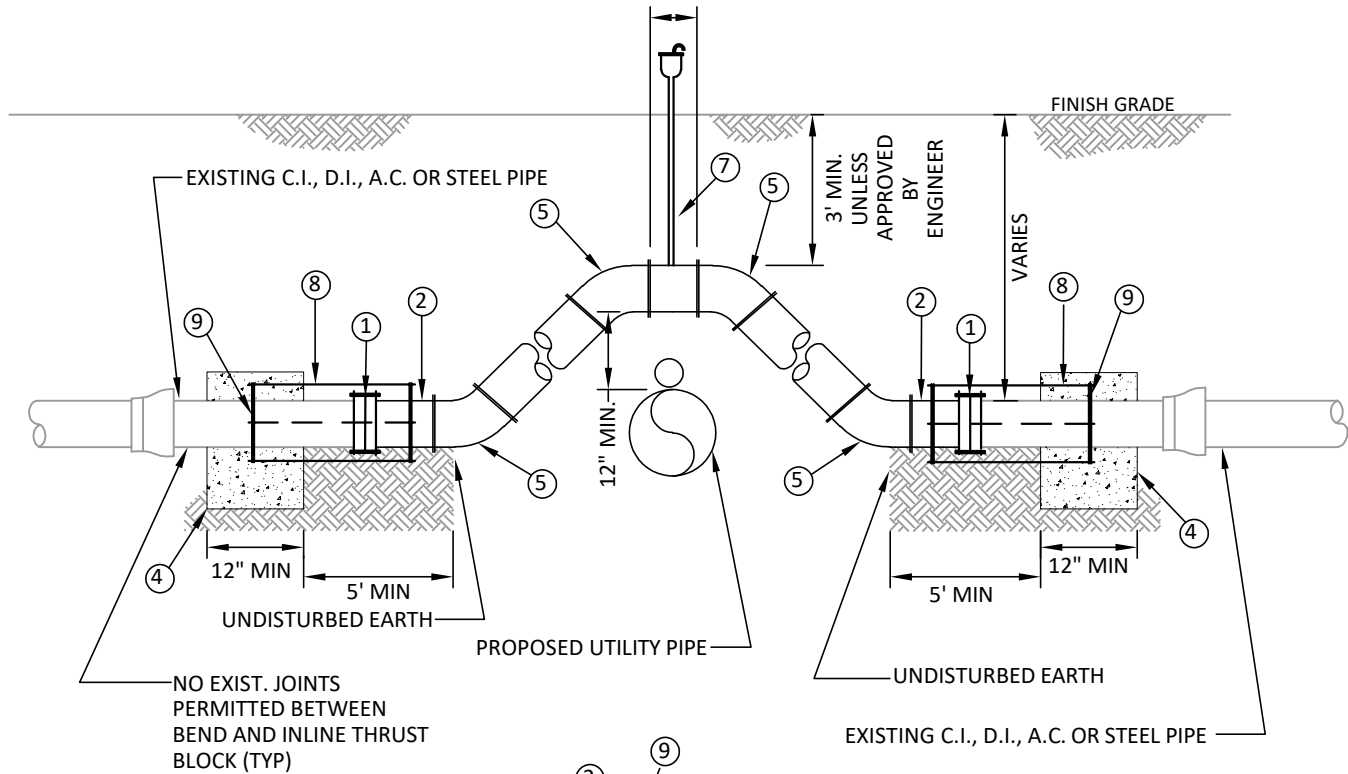
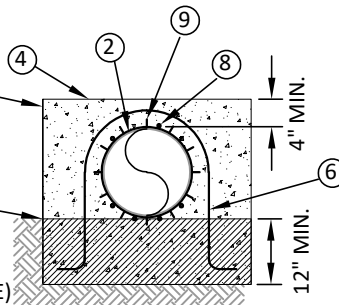


LENGTH AS NEEDED,  
USE FIELD-LOK GASKETS  
ON ALL BELL AND SPIGOT JOINTS



SUFFICIENT TIME IS REQUIRED TO  
CURE CONCRETE PRIOR TO  
VERTICAL OFFSET TIE-IN

BEARING SURFACE OF  
UNDISTURBED EARTH  
(SEE TABLE AT RIGHT FOR  
MINIMUM SQUARE FOOTAGE)



SECTION VIEW  
THRUST BLOCK\BEARING SURFACE

SURFACE BEARING TABLE

|          |                 |
|----------|-----------------|
| 16" PIPE | 8.0 SQUARE FEET |
| 12" PIPE | 4.5 SQUARE FEET |
| 8" PIPE  | 3.0 SQUARE FEET |
| 6" PIPE  | 2.0 SQUARE FEET |
| 4" PIPE  | 2.0 SQUARE FEET |

| ITEM | QTY    | DESCRIPTION                                                                                                                                                                                                    |
|------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ①    | 2 EA   | ___ " STRAIGHT/TRANSITION COUPLING (ROMAC IND. STYLE 501 OR APPROVED EQUAL) (FOR STEEL PIPE USE WELD FLANGE W/ RESTRAINED FLANGE x MJ ADAPTOR)                                                                 |
| ②    | ___ LF | ___ " DUCTILE IRON PIPE                                                                                                                                                                                        |
| ③    | -      | NOT USED                                                                                                                                                                                                       |
| ④    | 2 EA   | CONCRETE IN-LINE THRUST BLOCK PER SBMWD STD. DWG. W6.11 (AT THE DISCRETION OF THE SBMWD INSPECTOR, THRUST BLOCK MAY NOT BE REQUIRED WHEN EXISTING PIPE IS STEEL OR EQUIVALENT LENGTH OF RESTRAINED JOINT PIPE) |
| ⑤    | 4 EA   | ___ " 45° D.I. BEND (MJ)(RESTRAINED)                                                                                                                                                                           |
| ⑥    | 2 EA   | #4 REBAR (MAINTAIN 3" MIN. DISTANCE FROM EARTH)                                                                                                                                                                |
| ⑦    | 1 EA   | ___ " COMBINATION AIR VACUUM RELEASE PER SBMWD STD. DWG. NO. W7.1 OR W7.2                                                                                                                                      |
| ⑧    | 2 EA   | EBAA IRON SERIES 1100CH OR EQUAL                                                                                                                                                                               |
| ⑨    | 2 EA   | SPLIT RING MEGALUG LINEAL RESTRAINT                                                                                                                                                                            |

|          |          |                                                                                                                                               |                   |
|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| J.C.     | 8/17/17  | <b>SAN BERNARDINO MUNICIPAL WATER DEPARTMENT</b><br><br><b>4" THROUGH 16" VERTICAL OFFSET OF<br/>EXISTING D.I., C.I., A.C., OR STEEL PIPE</b> | DRAWING<br>NUMBER |
| D.D.M.   | MAR. 11  |                                                                                                                                               | SBMWD             |
| C.L.R.   | NOV. 05  |                                                                                                                                               | W6.9A             |
| M.H.L.   | APRIL 05 |                                                                                                                                               |                   |
| REVISION | DATE     |                                                                                                                                               |                   |
| SCALE:   | NONE     | APPROVED  DATE 07/04/2019<br>WARREN HUANG, P.E. RCE 49208  |                   |