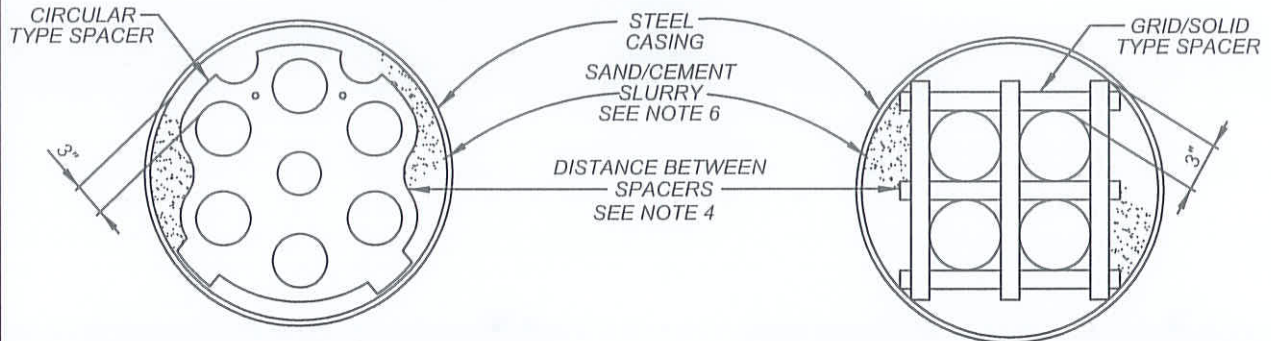


**MORENO VALLEY STANDARD NO. MVEU-727A-0**

**CONDUIT BANK REQUIREMENTS  
INSTALLATION IN A BORE**



**METHOD A CIRCULAR SPACER  
FOR RIGID SCH. 40 PVC CONDUIT**

**METHOD B GRID/SOLID SPACER  
FOR RIGID SCH. 40 PVC CONDUIT**


**CONDUIT BANK REQUIREMENT- INSTALLATION IN A BORE**

METHOD	NO. OF 5" CONDUITS	RECOMMENDED CASING SIZE	METHOD	NO. OF 5" CONDUITS	RECOMMENDED CASING SIZE
-	-	-	B	4	20" OD
A	6	22" OD	B	6	28" OD
A	8	28" OD	B	8	32" OD
-	-	-	B	10	38" OD
-	-	-	B	12	44" OD

**NOTES:**

- 1.) INSTALLATION SHALL BE MADE BY MACHINE BORING OR BY JACKING. SLUICING AND JETTING WITH WATER IS NOT PERMITTED. A LIMITED USE OF WATER FOR LUBRICATION OF DRILLS MAY BE PERMITTED, HOWEVER, BY SPECIAL ARRANGEMENT WITH THE CITY ENGINEER.
- 2.) A NEW STEEL CASING WILL NORMALLY BE USED. USED CASING, WHICH SHOWS LITTLE OR NO DETERIORATION, MAY BE USED IF JUDGED SATISFACTORY BY THE CITY ENGINEER. THE MINIMUM ALLOWABLE THICKNESS IS 1/4". USE A 1/4" WALL THICKNESS IF UNDER 30" IN DIAMETER; A 3/8" WALL THICKNESS FOR DIAMETERS UP TO 48" AND A 1/2" THICKNESS FOR DIAMETERS 42" AND GREATER. THE TYPE OF CONSTRUCTION SHOULD GOVERN THE WALL THICKNESS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SUFFICIENCY OF THE CASING DURING CONSTRUCTION, AND ALSO THE METHOD OF INSTALLATION.
- 3.) CONDUITS INSTALLED IN THE CASING AS IN "METHOD A" OR "METHOD B" ABOVE SHALL BE RIGID SCH. 40 PVC.
- 4.) SPACERS SHALL BE OF THE TYPE AND DESIGN AS APPROVED BY THE CITY ENGINEER. SPACERS SHALL BE INSTALLED AND MAINTAINED IN A VERTICAL POSITION, AND THE DISTANCE BETWEEN SPACERS SHALL BE LIMITED TO A MAXIMUM OF FIVE FEET.
- 5.) THE INSTALLATION OF FOREIGN UTILITIES IN BORE CASINGS IS NOT PERMITTED.
- 6.) CONDUITS SHALL MAINTAIN THE SAME POSITION ENTERING AND LEAVING THE CASING. AFTER THE CONDUITS ARE IN PLACE, A SAND/ CEMENT SLURRY (MINIMUM OF ONE SACK OF CEMENT PER CUBIC YARD) AND VIBRATORS SHALL BE USED TO MINIMIZE VOIDS.
- 7.) WHEN SPECIFIED ON WORKING DRAWING, CONTRACTOR SHALL INSTALL INSULATED COPPER NEUTRAL WIRE IN CASING PER SEPARATE PLAN.
- 8.) THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, MINING AND TUNNELING UNIT SHALL BE NOTIFIED BY THE CONTRACTOR AND AN UNDERGROUND CLASSIFICATION PERMIT BE ISSUED PRIOR TO THE INSTALLATION OF ANY BORE CASING 30" IN DIAMETER OR LARGER.

NOT TO SCALE

 <p>CITY OF MORENO VALLEY DECEMBER 3, 1984</p>	RECOMMENDED:  1-22-14 DIVISION MANAGER DATE	<b>CITY OF MORENO VALLEY</b> PUBLIC WORKS DEPARTMENT - ELECTRIC UTILITY DIVISION	
	APPROVED:  1/29/14 PUBLIC WORKS DIRECTOR/ DATE CITY ENGINEER	<b>CONDUIT BANK REQUIREMENTS INSTALLATION IN A BORE</b>	