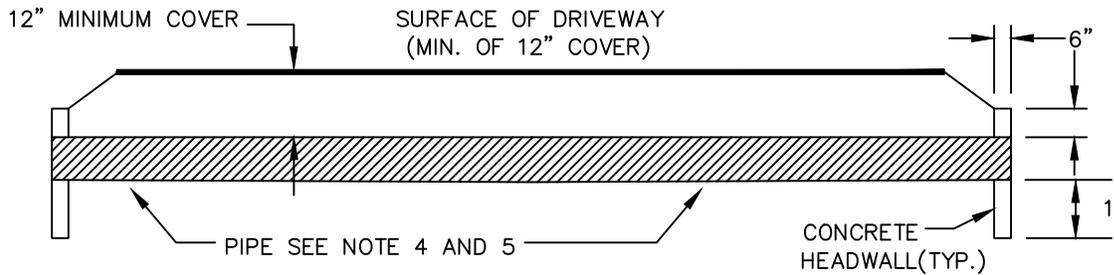


CONCRETE/DUCTILE IRON PIPE CULVERT CROSS SECTION



PVC/HDPE CULVERT CROSS SECTION

NOTES

1. MINIMUM PIPE SIZE SHALL BE 12" INSIDE DIAMETER AND 20 FEET IN LENGTH. PIPE SHALL EXTEND A MINIMUM OF ONE FOOT BEYOND THE TOE OF FILL.
2. CONCRETE HEADWALL (6" THICK) REQUIRED WHEN USING PVC AND/OR HDPE. THE WIDTH OF THE HEADWALL SHALL BE THE FULL WIDTH OF THE DITCH.
3. SPECIFICATIONS FOR MATERIALS USED IN CONSTRUCTION SHALL CONFORM TO CURRENT ODOT/APWA STANDARD SPECIFICATIONS.
4. PIPE SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS TO SUPPORT HS 20 LOADING.
5. REFER TO SECTION 440.1.1 OF THESE ROADWAY STANDARDS FOR ACCEPTABLE PIPE MATERIAL.
6. PROVIDE 5'x5'x12" DEEP CLASS 10 RIP-RAP AT PIPE OUTLET WHEN THE PIPE SLOPE IS GREATER THAN 5%.

<i>REVISION</i>	<i>DATE</i>	<i>BY</i>	DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT		<i>APPROVAL DATE:</i> 2/1/13	<i>SCALE:</i> N.T.S.	STANDARD DRAWING  <b>D250</b>
CONC./DIP TEXT	12/12	RN			150 BEAVERCREEK ROAD OREGON CITY, OR 97045	<b>TYPICAL PLAN FOR DRIVEWAY CULVERT INSTALLATION</b>	
EDIT NOTE 4	12/12	RN					