



12375 Brown Ave., Riverside, CA 92509;
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Project Description

<u>IPS Order #</u>	12345		
<u>Customer & PO #</u>	Contractor/ 678		
<u>Owner/Agency</u>	Mun. Water District		
<u>Project Name</u>	Transmission main		
<u>Sales Contact</u>	Sales		
<u>Designed By:</u>	Layout	<u>Date:</u>	29-Apr-08

Pipe Manufacturing Specifications

<u>Component</u>	<u>Type</u>	<u>AWWA Std.</u>	<u>Job Spec.</u>
Cylinders:	Carbon Steel	C-200	
Lining:	Cem. Mortar	C-205	
Coating:	Cement Mortar	C-205	
Fabrication:	Shop Welded	C-208	
Testing:	Cylinder Hydro	C-200	
	Fittings Dye-Pen	ASTM E-165	

Pipe Material & Design Constants

<u>Component & ASTM Designation(s)</u>	<u>Design Values</u>		
(for 'primary' pipe material, nozzles, etc may differ, see detail dwgs)			
Cylinder: A-139-B	Yield Strength:	35,000	psi min (Fy)
	Allowable Stress:	50%	M-11 Standard
		=	17,500 psi max (Fs)
	Modulus of Elasticity:	30,000,000	psi (Es)
	Weight:	490.0	lbs/cu.ft.
Cement: C-150, Type II/V			
	Modulus of Elasticity:	4,000,000	psi (Ec)
	Coefficient of Friction:	(CMC) 0.30	(m)
	Allowable Horizontal Deflection:	2% max.	M-11 Standard
	Weight:	149.0 ±	lbs/cu.ft.

Additional Design Constants

Working/Design Pressure:	150	psi	Specified
Test Pressure:	188	psi	M-11 Standard
Soil Weight (w):	125	lbs/cuft	Industry Std
Modulus of Soil Reaction:	1,000	(E')	Assumed @90%
Deflection Lag Factor:	1.0	(D _l)	M-11 Standard
Bedding Constant:	0.10	(K)	M-11 Standard

Note:

All values are based on Manual AWWA M-11, 2004 edition, unless otherwise directed in job specification, variations are noted where they occur.