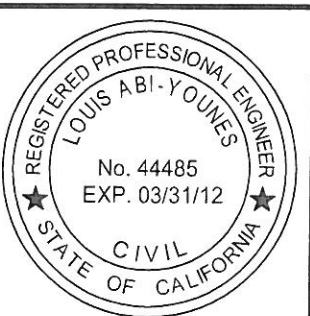


		PVC RESTRAINED LENGTH L(FT)		
		PIPE SIZE		
BEND ANGLE		8"	12"	16"
	11.25°	19	26	34
	22.5°	38	53	69
	45°	79	111	144

NOTES

1. STEEL CASING TO BE INSTALLED BY JACK AND BORE METHOD WHEN CROSSING EXISTING FACILITIES WHEN REQUIRED BY CITY.
2. PIPE MATERIAL SHALL BE PVC FOR THE NEW MODEL COLONY (UP TO 16" IN DIAMETER) AND STEEL OR DUCTILE IRON FOR THE OLD MODEL COLONY.
3. WRAP EXPOSED COUPLINGS, RESTRAINT JOINTS AND METALLIC PARTS WITH 8 MIL POLYETHYLENE ENCASEMENT.



APPROVED BY:		11-22-10	
<i>Louis Abi-Younes</i>		44485	
LOUIS ABI-YOUNES, CITY ENGINEER		RCE	DATE
RECOMMENDED:		10/25/10	
<i>Scott Burton</i>		57875	
SCOTT BURTON, UTILITIES ENG/OPERATIONS DIRECTOR		RCE	DATE
REV	DESCRIPTION	BY	APP'D DATE

CITY OF ONTARIO

NMC
TYPICAL WATER CROSSING
AND RESTRAINT DETAIL
LESS THAN 10' IN DEPTH

STANDARD
DRAWING
NUMBER

4011