



DETAIL 1 — NOTES:

1. DETAIL IS FOR PRESTRESSED CONCRETE CYLINDER PIPE (BAR WRAPPED STEEL CYLINDER PIPE, STEEL PIPE AND D.I.P. ALTERNATE SIMILAR).
2. MINIMUM CLEARANCES SHOWN ON THE PLAN & PROFILE DRAWINGS ARE TO THE O.D. OF TUNNEL LINER. ADJUST PROFILE AS REQUIRED TO MAINTAIN CLEARANCES IDENTIFIED. NO SEPARATE PAY.

NOTES:

1. LENGTH OF ENCASEMENT SHALL BE AS SHOWN ON THE PLAN & PROFILE DRAWINGS.
2. LAY CASING PIPE IN OPEN CUT, TUNNEL OR BORE, AS NOTED ON PLAN & PROFILE DRAWINGS.
3. SEE SPECIFICATIONS FOR APPROPRIATE MODEL ACCORDING TO PIPE DIAMETER OR PIPE MANUFACTURER RECOMMENDATIONS.

DETAIL 2 — NOTES:

1. THE ANNULAR SPACE IN ALL TUNNELS IN PPCA IS TO BE GROUTED

1 TUNNEL DETAIL FOR TUNNEL LINER / CASING FOR PCCP OR STEEL PIPE WITH MORTAR BANDS

(FOR WATER MAINS 24 INCHES IN DIAMETER AND LARGER)

2 TUNNEL DETAIL FOR CASING W/ STEEL CARRIER PIPE AND CASING INSULATOR

(FOR WATER MAINS 24 INCHES IN DIAMETER AND SMALLER)

TABLE 1: MINIMUM TUNNEL LINER / CASING SIZES AND THICKNESS

LOCATION	WATER MAIN DIA.	PIPE MATERIAL	(1) NOMINAL DIAMETER (CASING O.D.) / WALL THICKNESS (IN.)		
			2-FLANGE LINER PLATE (2)	4-FLANGE LINER PLATE	STEEL CASING

TABLE 1 — NOTES:

1. DIAMETER OF LINER PLATE IS AT NEUTRAL AXIS.
2. LINER PLATE IS TWO FLANGE AND NOMINALLY 2-INCH CORRUGATION BY 6-INCH PROFILE.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

LDWL TUNNEL AND CASING DETAILS

(NOT TO SCALE)

REVISED ON: _____

REVISED BY: _____

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