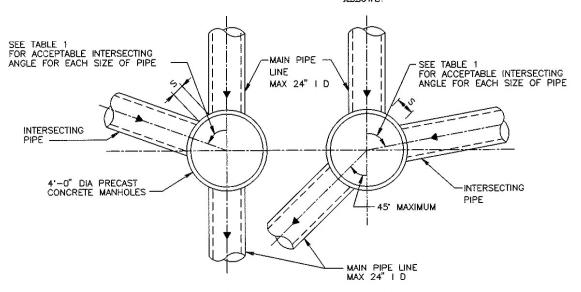
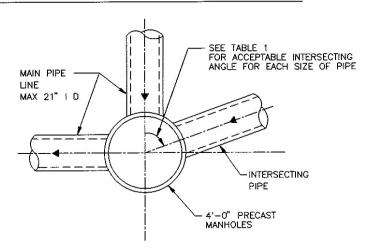
NOTES TO SPECIFIER:

- 1. "-" INDICATES THAT A SPECIAL DESIGN OR THE NEXT LARGER MANHOLE SIZE SHALL BE USED.
- 2. TABLE 1 IS BASED ON A MIN SEPARATION DISTANCE "S" OF 15.5" OR INTERSECTION PIPE OD/2, WHICHEVER IS GREATER, BETWEEN MAIN AND INTERSECTING PIPES ALONG THE MANHOLE INSIDE WALL ARC.
- 3. PIPE WALL THICKNESS USED IN TABLE 1 ARE BASED ON RCP. THE DESIGN ENGINEER MAY CALCULATE TO SEE IF THINNER WALL PIPES CAN MEET THE SEPARATION CRITERIA FOR ANGLES SMALLER THAN THE TABLE ALLOWS



MAXIMUM 24" I D MAIN PIPE ALLOWED FOR STRAIGHT THROUGH TO 45" DEFLECTION



MAXIMUM 21" I D MAIN PIPE ALLOWED FOR 45" TO 90" DEFLECTION

TABLE 1 MIN ANGLE AND INTERSECTING PIPE SIZES FOR A 4'-0" DIA MANHOLE

INTERSECTING PIPE SIZE	MIN INTERSECTING ANGLE IN DEGREES FOR FOR VARIOUS MAIN PIPE SIZES IN INCHES							
(INCHES)	6"	8"	10"	12"	15"	18"	21"	24"
6	55	58	60	65	70	75	80	85
8		60	63	68	73	77	82	87
10	· ·	111.00	66	71	75	80	85	90
12	76				80	85	90	_
15					85	90	_	
18	NOT APPLICABLE UNLESS HYDRAULICS DICTATE - (INTERSECTING PIPE > MAIN PIPE)						_	
21							_	
<u> 24</u>								

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIMSION

SANITARY SEWER

4'-0" DIAMETER FIBERGLASS MANHOLE NOTES (NOT TO SCALE)

APPROVED BY:	APPROVED BY					
mandage .						
CITY ENGINEER	DIRECTOR OF PUBLIC					
<i>U</i>	WORKS AND ENGINEERING					
EFF DATE: OCT-01-2002	DWG NO: 02083N-01					