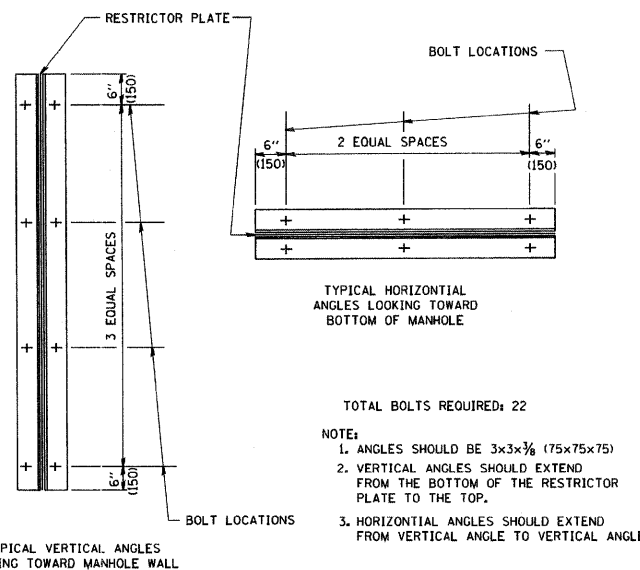
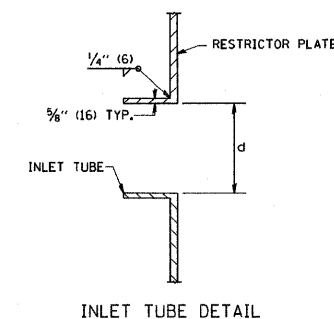


- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE I FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

STR. NO.	STATION	OFFSET	ROADWAY	RESTRICTOR DIAMETER (INCHES)	RESTRICTOR INVERT	TOP OF PLATE ELEVATION	100-YR HWL	RIM ELEVATION
S 104	31+50	27.00'	RT WEBER	18	631.00	636.30	636.45	638.32
S 128A	42+65	61.40'	RT WEBER	15	637.15	642.02	642.02	644.78
S 182	66+05	62.00'	LT WEBER	21	634.92	638.00	638.25	640.05
S 183	89+28	33.00'	LT RENWICK	16	628.70	631.00	631.25	633.11
S 197A	91+85	34.00'	RT RENWICK	15	632.60	635.40	635.60	637.46
S 225A	105+15	58.00'	LT RENWICK	10	637.39	640.92	640.92	645.05
S 231A	105+10	40.50'	RT RENWICK	12	638.38	641.80	641.80	645.05
S 303	134+50	27.00'	LT RENWICK	12	644.56	646.90	647.15	648.91
S 309	134+35	49.50'	RT RENWICK	12	643.29	645.90	646.15	647.94

BD-12
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. SHAH	09-09-94
R. SHAH	10-25-94
E. GOMEZ	08-28-00
M. GOMEZ	01-08-01

ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE

SCALE: NONE

DRAWN BY
CHECKED BY