NOTES

- I VALUES for A.B.C.D., Da. . Elevation R. and Elevation S are shown on the improvement plan TABLE of values for F and T hereon
- 2 LATERALS: If laterals enter on both sides of manhole, access shaft shall be located on side receiving the smaller lateral
- 3 CENTER OF MANHOLE SHAFT shall be located over center line of main storm drain when D₁ is 48° or less. in which case place 8 E bars symmetrically around shaft at 45° with center line
- 4 LENGTH L may be increased at option of Contractor to meet pipe ends, but any change in location of spur must be approved by the Engineer
- 5 DETAIL M: When depth of manhole from street grade to top of box is less than 2'-10½" for paved streets or 3'-6" for unpaved streets, construct monolithic shaft as per Detail M

 The Contractor shall have the option of constructing shaft as per Detail M for any depth of manhole When diameter D₁ is 48" or less, center of shaft shall be located as per Note 3
- 6 REINFORCING STEEL shall be round, deformed, straight bars, 1\frac{1}{2}" clear from inside face unless otherwise shown.

 The bars shall be No4 and spaced 18" on centers or closer.
- 7 CONCRETE shall be class A
- 8 STEPS shall be 3" round, galvanized steel and anchored not less than 6 inches in the walls of structure. Unless otherwise shown the spacing shall be 16" on centers. The lowest step shall be not more than 2 feet above the invert.
- 9 RINGS, REDUCER, AND PIPE for access shaft shall be seated in cement mortar and neatly pointed or wiped inside shaft
- 10- FLOOR of manhole shall be steel troweled to springing line
- 11 BODY of manhole, including spur, shall be poured in one continuous operation, except that the Contractor shall have the option of placing at the springing line a construction joint with longitudinal keyway.

*Use D₂ or D₁, whichever is greater, or B.

××

If D₂,D₁ or B falls between tabulated values then use the next highest value to determine F or T.

| * * TA | BLE OF | VALUES |
|------------|----------------|--------|
| XD2,D1 | F | nea- |
| 12" | 4" | |
| 15" | 41/4" | |
| 19" | 41/2" | |
| 21" | 4 1/2" 5" | |
| 24" | 5 1/4" | |
| 27" 30" | 5 1/2" 6" | |
| 30" | 6" | l |
| 33" | 6 1/4" | |
| 36" | 61/2" | |
| 39" | 61/2" 7" | |
| 42" | 71/2" | |
| 45" | 7 3/4" 8" | |
| 49" | 8" | |
| 51" | 8 1/2" | |
| 54" | 9" | |
| 57" | 9 1/4" | |
| 60 | 91/2" | |
| 63" | 10" | |
| 66" 69" | 101/4" | |
| 69" | 10 3/4" 11" | |
| 72" | 11" | |
| 78" | 11 3/4" | |
| 84" | 12 1/2" | |
| 90" | 131/4 | 10 |
| 96" | 14" | 12 |
| 102" | 15 1/2" | l |
| 108" | 15 1/2" 16" | l |
| 114" | 161/2"_ | |
| 120" | 161/2" | l |
| 126" | 17 | l |
| 132" | 17 1/2" | I |
| 138" | 1 17 1/2" | l |
| 144" | 16" | l |
| | | |

April 5.

| F(| OR F AND | Т | | |
|----|----------|-----------|------|---------|
| | В | T | В | T |
| | 12" | 4" | 78" | 11 3/4" |
| | 1 15" | 41/4" | 84" | 12 1/2" |
| | 1 18 | 41/2" | 90" | 13 1/4" |
| | 21" | 5" | 96" | 14" |
| | 24" | 5 1/4" | 102" | 15 1/2" |
| | 27" | 51/2" | 108" | 16" |
| | l 30" | 6" | 114" | 16 1/2" |
| | 33" | 6 1/4" | 120" | 17" |
| | 36" | 61/2" | 126" | 17" |
| | 39" | 7" 1 | 132" | 17 1/2" |
| | 42" | 71/2" | 138" | 17 1/2" |
| | 45" | 724" | 144" | 18" |
| | 49" | l 8" | | |
| | 51" | 1 81/2" I | | |
| | 54" | 9" | | |
| | 57" | 91/4" | | |
| | 60" | 91/2" | | |
| | 1 63" | 10" | | |
| | 66" | 101/4" | | |
| | 69" | 10 3/4" | | |
| | 72" | 11" | | |

NOTE

12—The maximum cover above this structure shall be 25'. if the cover exceeds 25' a special structure shall be designed for the cover and detailed on the project drawing.

R.C.E. NO. 3233



RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT
APPROVED BY:

MANHOLE NO. 4

STANDARD DRAWING NUMBER MH254 SHEET 2 OF 2