

- H- Height H (in Sec. A-A and Sec. B-B) shall be not less than 4'-0", but may be increased at option of the Engineer provided that the value of M shall be not less than the minimum specified and that the reducer shall be used. For H (in Sec. C-C) see Note P.
- L- Length L shall be 4' unless otherwise shown on improvement plan.
- M— Shaft shall be constructed as per Sec. C—C and Detail N when depth M from street grade to top of box is less han 2'-10½" for paved streets of 3'-6" for unpaved streets.
- P- Depth may be reduced to an absolute limit of 6" when larger values of P would reduce H (in Sec. C-C) to 3'-6" or less.
- T- T shalt be 8" for values of H up to and including 8'. T shall be 10" for values of H and over 8'
- 1. Steps shall be ¾" round, galvanized steel and anchored not less than 6" in the walls of the structures. Unless otherwise shown steps shall be placed 1'-4" on center. The lowest step shall be not more than 2' above the ledge at the side of manhole floor.
- 2. Reinforcing steel shall be $\frac{1}{2}$ " round, deformed, straight bars $\frac{1}{2}$ " clear from face of concrete.
- 3. Stations of manholes shown on improvement plan apply at centerline of shaft.
 - 4. Floor of manhole shall be steel troweled.
 - 5. Rings, reducers, and pipe for access shaft shall be seated in 1:2 mortar and neatly pointed or wiped inside shaft.
 - 6. Ledge shall be sloped at 2" per foot.
 - 7. Manhole shaft shall be 4'-0" and Junction Structure bottom width shall be increased to4'-0" minimum when M>15' Use Std. Plan 408 with 6" thickness when M>15'.
 - 8. Raise m.h. frames and cover 18" above finish surface when in unpaved areas.



CITY OF ORANGE

PUBLIC WORKS DEPARTMENT

STANDARD PLAN No. 313

JUNCTION STRUCTURE TYPE I (OUTLET DIAMETER-39" OR LESS)