



NOTES:

- ① USE COLLAR REINFORCEMENT WHEN OUTLET TO MAIN RATIO IS 50% OR LESS.
- ② USE WRAPPER REINFORCEMENT WHEN OUTLET TO MAIN RATIO IS GREATER THAN 50%.
- ③ REINFORCEMENT DESIGN IS BASED ON THE STEEL AREA REMOVED FROM THE MAIN LINE AND THE OPERATING PRESSURE OF THE SYSTEM.
- ④ JOB SPECIFICATIONS/DETAILS FOR REINFORCEMENT SHALL GOVERN IF IN EXCESS OF NOTES 1, 2 AND 3 ABOVE.
- ⑤ OUTLET NOZZLE SHOULD BE POSITIONED AND WELDED ON TO MAIN PRIOR TO WELDING ON THE REQUIRED REINFORCEMENT(COLLAR-WRAPPER).
- ⑥ FLANGE SHALL BE ATTACHED WITH BOLT HOLES STRADDLING THE VERTICAL AXIS OF THE PIPE UNLESS OTHERWISE NOTED.
- ⑦ SEE PART 3, SECTION 2-07.05.4 FOR APPROVED MANUFACTURERS.

AUGUST 2005

CITY OF CHINO HILLS	
Revised: / /	by: _____
Revised: / /	by: _____
Revised: / /	by: _____
CITY ENGINEER	

**4" AND LARGER TAPPING
OUTLET FOR CML & C PIPE**

W-12