48" I.D. CONCENTRIC CONC. MANHOLE

TYPICAL SECTION

X = 12" INTERVALS IF MORE THAN ONE STEP
Y = 16" INTERVALS IF MORE THAN ONE STEP

3/4" GALV. STEPS CAST IN PLACE

16" MIN. TO

SURFACE

MANHOLE FRAME & COVER

GROUT

STEP SPACING FOR
30" CONCENTRIC CONE

16" MAX.

3" OR 6"

6"

24" DIA.

3/4" GALV. STEPS CAST IN PLACE

#4 WIRE HOOPS CAST INTO EACH SECTION AS SHOWN

60" I.D. CONCENTRIC CONC. MANHOLE

TYPICAL SECTION

3/4" GALV. STEPS CAST IN PLACE

8 1/4"

30"

5"

15"

5"

16"

8"

60"

16"

6-1/2"

8-3/4"

#4 WIRE HOOPS CAST INTO EACH SECTION AS SHOWN

CITY OF MISSION VIEJO

NON–REINFORCED CONCRETE CONCENTRIC CONE MANHOLE

STANDARD PLAN NO. 416

APPROVED RCE 30190 DATE SHT 1 OF 2

9-23-03
NOTES:
1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR
   PUBLIC WORKS CONSTRUCTION.
2. SEE STD. PLAN 422 FOR MANHOLE STEP DETAILS. MAXIMUM SPACING = 17”.
3. THE MANHOLE PIPES AND GRADE RINGS SHALL BE ARRANGED IN ORDER OF
   LONGER TO SHORTER LENGTHS FROM BOTTOM TO TOP.
4. MANHOLE DETAILS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
5. PAVEMENT SURFACE SHALL BE FINISHED A MINIMUM OF 1/8” ABOVE MANHOLE
   FRAME.
6. TOP OF CONE SHALL BE PLACED A MINIMUM OF 6” BELOW BOTTOM OF
   ROADWAY STRUCTURAL SECTION OR A MINIMUM OF 16” BELOW FINISH
   GRADE, WHICHEVER IS GREATEST.
7. SEE STD. PLAN 424 FOR MANHOLE FRAME AND COVER.

CITY OF MISSION VIEJO

NON–REINFORCED CONCRETE
CONCENTRIC CONE MANHOLE

STANDARD
PLAN NO.
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SHT 2 OF 2