## DESCRIPTION:

- CONCRETE GRADE RING.
- PLASTIC VALVE CENTERING DISK (EX: PLASTIC POSI-CAP VALVE BOX ALIGNER DISK) REQUIRED TO KEEP VALVE BOX ALIGNED DURING BACK FILLING. REQUIRED FOR ALL VALVES.
- #4 REBAR 17" DIAMETER.
- #4 REBAR LENGTH = 68", OR (ALTERNATE -17" DIAMETER).
- VALVE BOX BOTTOM SECTION.
- 6" DIAMETER C900 PVC PIPE.
- GATE VALVE 12" OR SMALLER.
- TOP SECTION OF VALVE BOX.
- FILL ANNULAR SPACE WITH NON SHRINK GROUT.
- CONCRETE SUPPORT BRICK 2 EACH.

## NOTES:

- FOR PRECAST GRADE RINGS FILL VOID BETWEEN GRADE RING AND CAST IRON VALVE BOX TOP SECTION WITH NON-SHRINK GROUT.
- FOR CAST-IN-PLACE GRADE RINGS -TOP SECTION OF CAST IRON VALVE BOX SHALL BE CAST IN THE CONCRETE.
- TYPE A GRADE RINGS SHALL BE REQUIRED ON ROAD SHOULDERS WITHOUT CURB.
- FOR INSTALLATION DETAIL TWO -ONLY ONE VALVE BOX ASSEMBLY (NO. 5 OR NO. 6) SHALL BE REQUIRED. VALVE BOX ASSEMBLY SHALL NOT REST ON THE VALVE, AND SHALL BE CENTERED ON THE VALVE OPERATING NUT AS SHOWN.
- TOP SECTION/LID SHALL BE FLUSH WITH GRADE RING TO AVOID TRIPPING HAZARD.
- FOR LOCATIONS WHERE A STANDARD PRECAST GRADE RING DOES NOT FIT. IT CANNOT BE CUT TO FIT AND A CAST IN PLACE CONCRETE PAD MUST BE POURED IN PLACE.

## **DESIGN REQUIREMENTS:**

INSTALLATION DETAIL TWO

SECTION VIEW

- CONCRETE f'c = 4,000 PSI (PRECAST),OR 3.600 PSI (CAST-IN-PLACE).
- STEEL REINFORCEMENT REBARS -GRADE 60 (60,000 PSI) - ASTM A-615, OR WELDED WIRE FABRIC - ASTM A-185.

NO SCALE VERSION

- CONCRETE GRADE RINGS SMALLER VALVES - ONLY) LEASES AND BLOW OFFS)

BOX AND 8

12"/E

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ACITY OF CHARLOTTE DEPARTMENT
STANDARD DETAILS
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1.0 DATE 04/2024

DETAIL 10.1.5