**1" COMBINATION AIR VALVE ASSEMBLY**

**CONCRETE BOX W/ LID**
- 1" SERVICE LINE
- 1" QUICK COUPLING
- 1" STREET ELL
- 1" COMBO AIR VALVE
- 6 FT. MIN EXCESS TRACER WIRE

**CONCRETE BOX**
- 12" MAX
- TRACER WIRE
- COPPER IF HIGH PSI

**GROUNDING ROD CLAMP**
- 1-1/2" X 1" BUSHING
- 1-1/2" STREET ELL

**WATER MAIN**
- TRACER WIRE, ONE COMPLETE WRAP AROUND MAINLINE
- 1-1/2/" SERVICE SADDLE

**FINISH GRADE**
- AIR RELEASE STANDPIPE CENTERED

**NOTES:**
1. TAP FOR THE AIR VALVE ASSEMBLY SHALL BE INSTALLED AT HIGHEST POINT IN WATER MAIN.
2. ALL PIPING TO AND FROM THE COMBINATION AIR VALVE SHALL MAINTAIN A POSITIVE SLOPE.
3. LOCATE CONCRETE BOX WITH OUTSIDE EDGE 2 FT FROM RIGHT–OF-WAY AND SET LID 2" ABOVE FINISH GRADE (IF NOT IN WALK OR DRIVE). SET AIR RELEASE STANDPIPE ON RIGHT–OF-WAY.
4. INSTALLATION OF TRACER WIRE IS REQUIRED FOR ALL HDPE SERVICE LINES. TRACER WIRE SHALL BE SECURED TO THE HDPE SERVICE PIPE BY ELECTRICAL TAPE OR INDUSTRIAL ZIP–TIES AT 3 FT. INTERVALS AND WRAPPED AROUND SERVICE SADDLE TWICE BEFORE CONNECTING TO SERVICE SADDLE ROD WITH 5/8" GROUNDING ROD CLAMP. TRACER WIRE SHALL BE EXTENDED INTO THE CHAMBER AND COILED WITH MINIMUM 6 FT. EXCESS.
5. ABOVE GROUND GALVANIZED PIPE SHALL BE PAINTED SAFETY YELLOW.
6. ALL BRASS FITTINGS TO BE DOMESTIC BRASS.

**MATERIALS LIST**

1. H2 PRECAST VAULT 444 OPEN BOTTOM (OR EQUAL)
   - COVER 440–13
2. 1-1/2" SERVICE SADDLE – ROMAC 202S
3. 1-1/2" STREET ELL – BRASS
4. 1" CORPORATION STOP – BRASS MIPT X COMP, FORD FB1100-6-0, OR EQUAL
5. 1" CURB STOP – BRASS COMP X FIPT, FORD B41-665-0, OR EQUAL
6. 1" X 6" NIPPLE, BRASS
7. 1" 90, BRASS
8. 1-1/2" X 1" BUSHING, BRASS
9. 1" BRASS NIPPLE, LENGTH AS NEEDED TO SET AIR VALVE HEIGHT
10. 1/2" X 1" NIPPLES
11. 1/2" BALL VALVES
12. VALVE CAN, POLY
13. 1" NPT COMBINATION AIR VALVE, APCO SERIES 143C, OR EQUAL
14. 1" STREET ELL, BRASS
15. QUICK JOINT COUPLING, BRASS COMP X MIPT, FORD C84-44-0, OR EQUAL
16. 2" X 2" X 1" TEE, GALVANIZED

**REFERENCES:**
- 2" X 24" NIPPLES, GALVANIZED
- 2" BRASS BEEHIVE STRAINER
- GOOSENECK AIR RELEASE, GALVANIZED
- 2" CAP WITH 1/4" HOLE DRILLED TO DRAIN, GALVANIZED
- 5/8" GROUNDING ROD CLAMP – ERITECH HDC58
- 1" POLY INSERTS – CTS STAINLESS
- STEEL MIN 2-3/8" LENGTH
- 1/2 YARD DRAIN ROCK FLUSH TO 6" BELOW BASE OF COMBO AIR VALVE ASSEMBLY
- 1/8 YARD DRAIN ROCK FOR STANDPIPE