4 MESH 0.05" STAINLESS STEEL WIRE SCREEN INSTALLED BETWEEN 90° BEND AND FLANGED SPECIAL ALL FLANGED FITTINGS TO BE 125-LB.

FLANGED SCH. 40 STEEL PIPE. ALL FLANGED FITTINGS TO BE 125-LB.

TRAFFIC RATED PRECAST REMOVABLE TOP SLAB REINFORCED AS PER A.S.T.M. C478. PROVIDE WITH THREE LIFTING EYE HOOKS EMBEDDED WITHIN MANHOLE FRAME AND SOLID COVER (SEE NOTE #4). OFFSET MANHOLE FRAME IN TOP SLAB TO PROVIDE ACCESS TO STEPS. CENTER FRAME OVER STEPS 1'-0" FROM EDGE OF SLAB.

GROUND LINE ELEVATION VARIES.

INSTALL FLANGE COUPLING ADAPTER, SEE SECTION 15060.

PROVIDE AND INSTALL ALUMINUM OR FIBERGLASS MANHOLE LADDER, AS PER DETAIL WT-18.

ENGINEER SHALL SPECIFY OUTLET TYPE (WELDED OR TREATED) BASED ON PIPE MATERIAL.

BOLLARD

GALVANIZED PIPE STRAP, MINIMUM TWO REQUIRED.

2" MIN., 6" MAX., SLAB ELEVATION VARIES (SEE NOTE #6)

WALL PENETRATION AND SEAL, ALLOW SUFFICIENT CLEARANCE BEHIND FLANGES TO INSTALL AND MAINTAIN FLANGE BOLTS (SEE SECTION 01800)

60" ID PRECAST CONCRETE PIPE SECTION, BASE SECTION SHALL BE DOG HOUSE TO ACCOMMODATE PIPE (5" THICK WALL MINIMUM) (SEE SECTION 02515)

1" THREADED NIPPLE (LOCATED BELOW CAV VENT PIPING) WITH 1" STAINLESS STEEL BALL VALVE AND 1" GALVANIZED ELBOW

FLANGED WHEEL OPERATE BUTTERFLY VALVE, PROVIDE LENGTH OF SPool PIPE ADEQUATE FOR FULL OPERATION OF VALVE (SEE NOTE #2)

CUT OR CAP PIPE FLUSH, DEPTH AS REQUIRED FOR COVER OR PROVIDE FOOTING, PER ENGINEER'S DESIGN

SUBGRADE STABILIZATION MATERIAL (EMBEDMENT MATERIAL), PER SECTION 02221

NOTES:

1. COAT VENT PIPE PER SECTION 09905.
2. PIPING AND APPURTENANCES SHALL MATCH THE DIAMETER OF THE AIR VALVE.
3. FILL MANHOLE WITH CRUSHED LIMESTONE, SO THAT CENTERLINE OF VALVE IS 2'-0" ABOVE TOP OF PIPE (INSIDE MANHOLE).
5. FOR AIR AND VACUUM VALVE (CAV) LARGER THAN 4", ENGINEER SHALL MODIFY DETAIL AND DIMENSIONS TO ACCOMMODATE PROPOSED CAV & VAULT WITHIN CLEARANCES SHOWN HEREIN.

CITY OF ROUND ROCK

2" TO 4" COMBINATION AIR AND VACUUM RELEASE VALVE (CAV) DETAIL

TYPE 1
4 MESH 0.05" STAINLESS STEEL WIRE SCREEN INSTALLED BETWEEN 90° BEND AND FLANGED SPECIAL. ALL FLANGED FITTINGS TO BE 125-LB.

INSTALL FLANGE COUPLING ADAPTER, SEE SECTION 15060

TRAFFIC RATED PRECAST REMOVABLE TOP SLAB REINFORCED AS PER A.S.T.M. C476, PROVIDE WITH THREE LIFTING EYE HOOKS EMBEDDED WITHIN MANHOLE FRAME AND SOLID COVER (SEE NOTE #4), OFFSET MANHOLE FRAME IN TOP SLAB PROVIDE AND INSTALL ALUMINUM OR FIBERGLASS MANHOLE LADDER, AS PER DETAIL WT–18

2" MIN., 6" MAX. SLAB ELEVATION VARIES (SEE NOTE #7)

60° ID. PRECAST CONCRETE PIPE SECTION (5" THICK WALL MINIMUM) (SEE SECTION 02515)

FLANGED WHEEL OPERATE BUTTERFLY VALVE PROVIDE LENGTH OF SPOOL PIPE ADEQUATE FOR FULL OPERATION OF VALVE (SEE NOTE #2)

4" Embedment Material Envelope

1" threaded tee with 1" stainless steel ball valve and 2 – 1" galvanized elbows rotated 90° to vent pipe

FOR 1" & 2" USE CORP. STOP, FOR 3" OR LARGER USE BALL VALVE

PIPE LINE

FOR 3" AND LARGER PIPING SHALL BE FLANGED D.I. FOR 1" AND 2" PIPING SHALL BE BLACK (DUR) POLYETHYLENE, MATCH CAV VENT INSIDE DIAMETER, CONTINUOUSLY RISING SLOPE, MIN. 0.5% (SEE NOTE #3)

ENGINEER SHALL SPECIFY OUTLET TYPE (WELDED OR TREADED) BASED ON PIPE MATERIAL

NOTES:
1. COAT VENT PIPE PER SECTION 09905.
2. PIPING AND APPURTENANCES SHALL MATCH THE DIAMETER OF THE AIR VALVE.
3. FILL MANHOLE WITH CRUSHED LIMESTONE, SO THAT CENTERLINE OF VALVE IS 2'-0" ABOVE TOP OF PIPE (INSIDE MANHOLE).
5. FOR AIR AND VACUUM VALVE (CAV) LARGER THAN 4", ENGINEER SHALL MODIFY DETAIL AND DIMENSIONS TO ACCOMMODATE PROPOSED CAV & VAULT WITHIN CLEARANCES SHOWN HEREIN.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT APPROVED
03-01-18 DATE
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL (NOT TO SCALE)

CITY OF ROUND ROCK DRAWING NO:
2" TO 4" COMBINATION AIR AND VACUUM RELEASE VALVE (CAV) DETAIL TYPE 2

ROUND ROCK, TEXAS