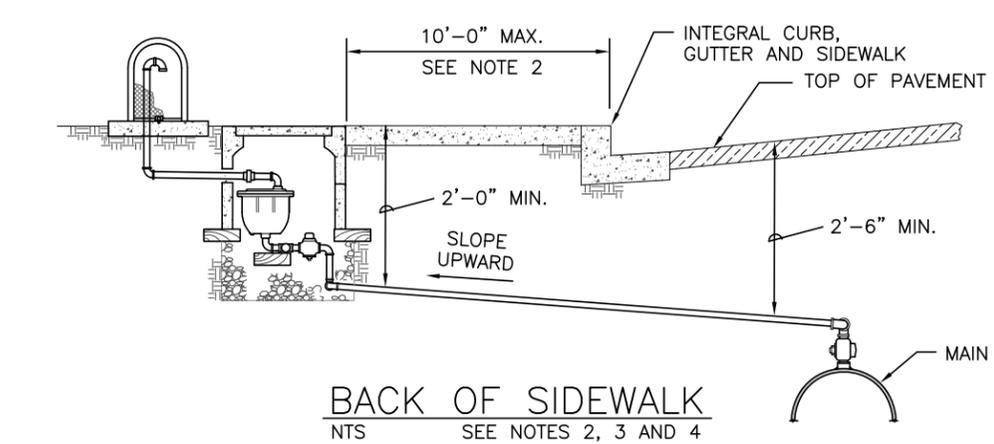
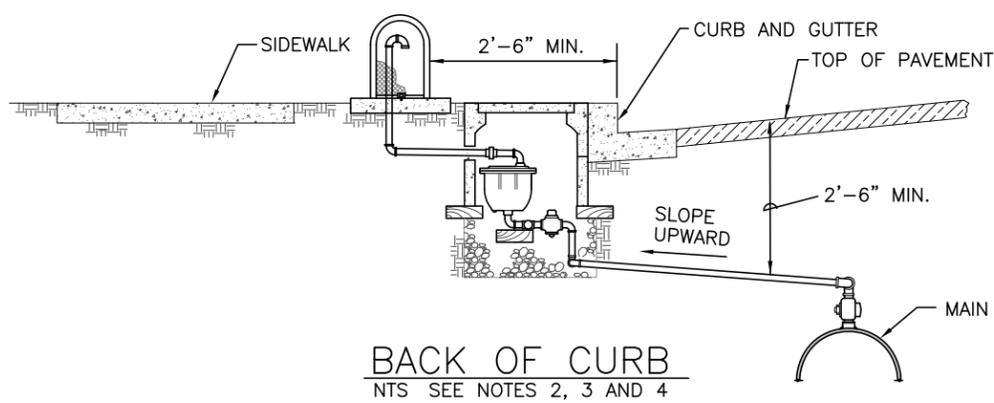
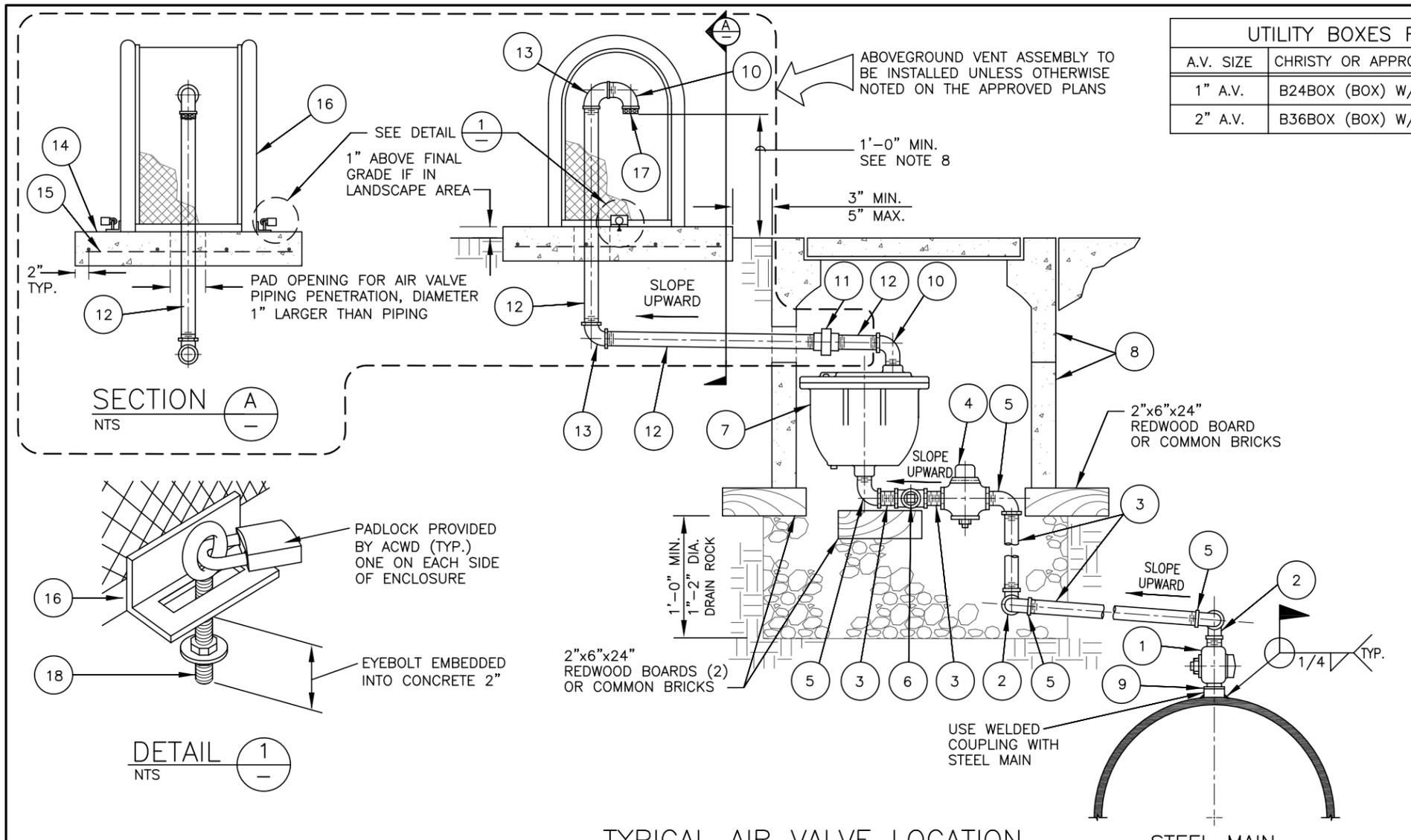


UTILITY BOXES FOR AIR VALVES		
A.V. SIZE	CHRISTY OR APPROVED EQUAL METER BOX	LID
1" A.V.	B24BOX (BOX) W/ B24BOX (EXTENSION)	B24D
2" A.V.	B36BOX (BOX) W/ B36x12 (EXTENSION)	B36D

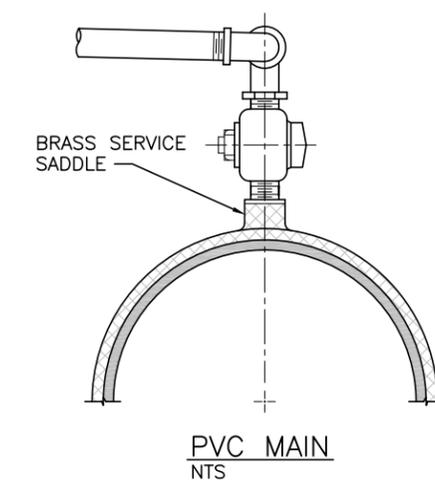
ITEM	DESCRIPTION
1	CORPORATION STOP**
2	90° STRAIGHT ELBOW (RED BRASS)** (2)
3	RED BRASS PIPE** (4)
4	CURB STOP**
5	90° STREET ELBOW (RED BRASS)** (4)
6	FIPTxFIPTxFIPT BRASS TEE WITH BRASS PLUG**
7	AIR VALVE
8	UTILITY BOXES. SEE TABLE
9	NYLON BUSHING (STEEL MAIN ONLY)**
10	90° STREET ELBOW (GALVANIZED)** (2). SEE NOTE 9
11	UNION (GALVANIZED)**
12	GALVANIZED STEEL PIPE** (3). SEE NOTE 9
13	90° STRAIGHT ELBOW (GALVANIZED)** (2). SEE NOTE 9
14	CONCRETE BASE 20"Wx20"Lx3"D. SEE NOTE 2
15	6"/6"x#10/10 WELDED WIRE MESH
16	ENCLOSURE BPTI GS-.5 OR APPROVED EQUAL. COLOR SHALL BE BLACK
17	STAINLESS STEEL MESH INSECT SCREEN CAP**
18	THREADED EYEBOLT (GALVANIZED) WITH 7/16" MIN. I.D. (2)

\*\* SIZED 1" FOR 1" AIR VALVE AND 2" FOR 2" AIR VALVE



TYPICAL AIR VALVE LOCATION  
NTS

STEEL MAIN  
NTS



PVC MAIN  
NTS

- NOTES:
1. MAINTAIN AN UPWARD SLOPE TO PIPE FROM CORPORATION STOP AT MAIN TO AIR VALVE VENT.
  2. IF AIR VALVE LOCATION IS AT AN INTEGRAL CURB AND SIDEWALK OF OVER 10'-0" WIDE (COMMERCIAL AREAS, ETC.), INSTALL AIR VALVE BACK OF CURB. IF INSTALLED IN FURNISHINGS ZONE OF SIDEWALK, VENT ASSEMBLY SHALL BE INSTALLED PRIOR TO SIDEWALK CONSTRUCTION, CONCRETE PAD SHALL BE OMITTED AND VENT ENCLOSURE SHALL BE ATTACHED TO SIDEWALK (EMBEDDED EYEBOLTS AND AIR VENT PIPE OPENING SHALL BE INSTALLED IN THE FURNISHINGS ZONE OF THE SIDEWALK).
  3. IF AIR VALVE LOCATION IS IN AN AREA WITHOUT CURBS, INSTALL AT LOCATION AS DIRECTED BY DISTRICT.
  4. WHERE APPROVED OR REQUIRED BY THE DISTRICT, THE AIR VALVE AND VENT ASSEMBLY MAY BE INSTALLED UP TO 18" BEHIND PROPERTY LINE (INSIDE PRIVATE PROPERTY) PROVIDED MINIMUM COVER, SLOPE AND CLEARANCE REQUIREMENTS ARE MAINTAINED. SEE NOTE 7.
  5. CURB STOP TO BE EXPOSED IN METER BOX AND ACCESSIBLE TO OPERATE.
  6. FOR DESIGNATION ON CURB OR MARKER POST SEE NOTES ON STANDARD DRAWING MP-1-08.
  7. SEE STANDARD DRAWINGS CL-4-08 AND CL-5-08 FOR ADDITIONAL LOCATION AND CLEARANCE REQUIREMENTS.
  8. OUTLET SHALL BE A MINIMUM 1'-0" ABOVE FINISHED GRADE OR 1'-0" ABOVE THE CALCULATED 100-YEAR FLOOD WATER LEVEL OR HIGHEST RECORDED WATER LEVEL, WHICHEVER IS HIGHER.
  9. GALVANIZED AIR VALVE PIPING ABOVE GRADE SHALL BE COATED WITH TWO COATS OF RUST-OLEUM PAINT COLORED TO MATCH ENCLOSURE COLOR.

APPROVED *Robert Chavez* 12/15/2008  
ENGINEERING MANAGER DATE

NO.	DATE	REVISION	BY	APP.	DIV. MGR.	EHS
0	12-08	REPLACES STD. DWG. V-3	RMF	LJA	LJA	

**ACWD**  
ALAMEDA COUNTY WATER DISTRICT  
43885 SOUTH GRIMMER BOULEVARD  
P.O. BOX 5110  
FREMONT, CA 94537-5110  
(510) 668-4200

STANDARD DRAWING		DATE: DEC. 2008	
1" AND 2" AIR VALVE		SCALE: NONE	
		DWG. NO.	REV.
		AV-1-08	0