

SUPERSEDES ALL ISSUES PRIOR TO APRIL 3, 1989

APPROVAL *James H. Henderson*
DIRECTOR OF ENGINEERING

Diagram showing a water service installation. It includes a trench line, curb & gutter, and a meter box. Dimensions include 4" MIN. for the trench, 24" MIN. for the meter box, and 30" MIN. for the trench depth. A note specifies 'SAND BEDDING MATERIAL FULL WIDTH TRENCH COMPACT TO 90% MAX. DENSITY.'.

LEGEND

①	THREADED COLLAR OR DOUBLE STRAP BRONZE SERVICE SADDLE	METER SIZE	⑥	ISOLER LENGTH	SERVICE LATERAL SIZE
②	CORPORATION STOP	5/8"	⑦	7-1/2"	3/4"
③	COOPER SERVICE LATERAL	3/4"	⑧	7-1/2"	3/4"
④	ANGLE METER STOP	1"	⑨	10-3/4"	1"
⑤	ISOLER - INSTALLED LEVEL, MAX. 1/2" DEVIATION				
⑩	TRAIL PIECE COUPLING (DIELECTRIC BUSHING TYPE)				
⑪	METER BOX				
⑫	CONCRETE SIDEWALK (EXISTING OR NEW)				
⑬	FLANGED CONNECTION				
⑭	CURB & GUTTER (EXISTING OR NEW)				

5/8" ANGLE METER STOP NOT PERMITTED. 3/4" REQUIRES BALL ANGLE METER STOP W/ LOCK WING AND W/O LEVER HANDLE.

LAS VEGAS VALLEY WATER DISTRICT

NOT TO SCALE

SERVICE INSTALLATION, 5/8", 3/4", & 1" METER SIZES - IMPROVED AREA

STANDARD PLATE NO. 1

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LEGEND

①	DOUBLE STRAP BRONZE SERVICE SADDLE	⑩	FLARED CONNECTION
②	CORPORATION STOP	⑪	TAIL PIECE COUPLING (DIELECTRIC BUSHING TYPE)
③	COOPER SERVICE LATERAL	⑫	CURB & GUTTER (EXISTING OR NEW)
④	ANGLE METER STOP W/ LOCK WING AND W/O LEVER HANDLE.		
⑤	ISOLER LENGTH		
⑥	METER BOX (Hinged Reading Lid not acceptable)		
⑦	CONCRETE SIDEWALK (EXISTING OR NEW)		
⑧	ISOLER (FLANGE & FLANGE)		
⑨	ISOLER LENGTH		

INSTALLED LEVEL, MAX. 1/2" DEVIATION

LAS VEGAS VALLEY WATER DISTRICT

NOT TO SCALE

SERVICE INSTALLATION, 1 1/2" & 2" METER SIZES - IMPROVED AREA

STANDARD PLATE NO. 2

SUPERSEDES ALL ISSUES PRIOR TO SEPTEMBER 9, 1988

APPROVALS *Oliver J. Walter*

Diagram showing a water service installation. It includes a trench line, curb & gutter, and a meter box. Dimensions include 4" MIN. for the trench, 24" MIN. for the meter box, and 30" MIN. for the trench depth. A note specifies 'SAND BEDDING MATERIAL FULL WIDTH TRENCH COMPACT TO 90% MAX. DENSITY.'.

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5/8" ANGLE METER STOP NOT PERMITTED. 3/4" REQUIRES BALL ANGLE METER STOP W/ LOCK WING AND W/O LEVER HANDLE.

LAS VEGAS VALLEY WATER DISTRICT

NOT TO SCALE

EXCAVATION FOR WET TAPS

STANDARD PLATE NO. 22

FED. RD. STATE PROJECT NO. COUNTY SHEET NO.

9 NEVADA M-610(5) CLARK W-9

Diagram showing a water service installation. It includes a trench line, curb & gutter, and a meter box. Dimensions include 4" MIN. for the trench, 24" MIN. for the meter box, and 30" MIN. for the trench depth. A note specifies 'SAND BEDDING MATERIAL FULL WIDTH TRENCH COMPACT TO 90% MAX. DENSITY.'.

LEGEND

①	WATER LINE (SIZE AS NOTED ON PLANS).
②	LATERAL TEE (FLANGED BRANCH).
③	LATERAL VALVE (FLANGED INLET). VALVE SIZE SHALL BE THE SAME SIZE AS THE LATERAL.
④	CONCRETE THRUST BLOCK.
⑤	BEND AS REQUIRED BY THE INSTALLATION (45° MAXIMUM BEND ANGLE).
⑥	SLEEVE-TYPE COUPLING OR TRANSITION COUPLING AS REQUIRED BY THE TYPES OF PIPE BEING JOINED. FOR A LATERAL WITHOUT A CONNECTION TO AN EXISTING PIPE INSTALL A PLUG AND CONCRETE THRUST BLOCK AT THIS LOCATION.

LAS VEGAS VALLEY WATER DISTRICT

NOT TO SCALE

EXCAVATION FOR WET TAPS

STANDARD PLATE NO. 22

SUPERSEDES ALL ISSUES PRIOR TO SEPTEMBER 19, 1983

APPROVALS *Oliver J. Walter*
CHIEF ENGINEER

Diagram showing a water service installation. It includes a trench line, curb & gutter, and a meter box. Dimensions include 4" MIN. for the trench, 24" MIN. for the meter box, and 30" MIN. for the trench depth. A note specifies 'SAND BEDDING MATERIAL FULL WIDTH TRENCH COMPACT TO 90% MAX. DENSITY.'.

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LAS VEGAS VALLEY WATER DISTRICT

NOT TO SCALE

VALVE BOX INSTALLATION & ADJUSTMENT

STANDARD PLATE NO. 8

SUPERSEDES ALL ISSUES PRIOR TO SEPTEMBER 19, 1983

APPROVALS *Oliver J. Walter*
CHIEF ENGINEER

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LAS VEGAS VALLEY WATER DISTRICT

NOT TO SCALE

VALVE BOX INSTALLATION & ADJUSTMENT

STANDARD PLATE NO. 8

Amount of Chlorine Required for Disinfection of 100 feet of Pipe

I.D. OF PIPE	VOLUME OF WATER PER 100'	QUANTITY OF CALCIUM HYPOCHLORITE (70% AVAILABLE CHLORINE)	
		25 PPM.	50 PPM.
4"	65.3 GALS.	.31 QZ	.62 QZ
6"	146.5	.69	1.38
8"	261.0	1.25	2.50
10"	408.0	1.95	3.90
12"	558.7	2.80	5.60
14"	800.0	3.82	7.65
16"	1047.0	5.0	10.0
18"	1300.0	6.4	12.80
20"	1635.7	7.75	15.50
24"	2234.8	11.20	22.40

LAS VEGAS VALLEY WATER DISTRICT STANDARD

NOT TO SCALE

CHLORINATION REQUIREMENTS

STANDARD PLATE NO. 10

TYPICAL LATERAL DETAILS

Diagram showing a water service installation. It includes a trench line, curb & gutter, and a meter box. Dimensions include 4" MIN. for the trench, 24" MIN. for the meter box, and 30" MIN. for the trench depth. A note specifies 'SAND BEDDING MATERIAL FULL WIDTH TRENCH COMPACT TO 90% MAX. DENSITY.'.

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LAS VEGAS VALLEY WATER DISTRICT

NOT TO SCALE

VALVE BOX INSTALLATION & ADJUSTMENT

STANDARD PLATE NO. 8

File 990-02-2
112 - 1 Skt. W-2