

MATERIAL LIST (ALL MATERIALS TO BE APPROVED BY EMWD)

ITEM	QTY	DESCRIPTION
①	1 EA	FLANGED PRESSURE REGULATOR W/(4) FOUR-PORT BONNET [△]
②	2 EA	F X VICTAULIC SPOOL (CUT TO FIT)
③	1 EA	VICTAULIC COUPLING
④	2 EA	F X F 90° ELBOW (MIN 4" I.D.) W/4" X 2" COMPANION FLANGE
⑤	3 EA	F X F RSGV VALVE (8" VALVES) [△]
⑥	2 EA	FLANGED TEE, STEEL OR D.I. (RUN SIZE SAME AS MAIN REGULATOR NO. 1) STEEL OR D.I. COMPANION FLANGE (SIZE AS REQUIRED)
⑦	4 EA	STAINLESS STEEL BALL VALVE W/CLOSE NIPPLE (SIZE AS REQUIRED)
⑧	2 EA	COPPER OR BRASS PIPE (SIZE AS REQUIRED)
⑨	4 EA	45° COPPER OR BRASS ELBOW W/CLOSE NIPPLE (SIZE AS REQUIRED)
⑩	1 EA	2" THREADED GLOBE DIRECT-ACTING PRESSURE REGULATOR W/UNION
⑪	2 EA	F X F CML&P STEEL OR D.I. PIPE (MIN 8" I.D.) [△]
⑫	2 EA	() X 8" FLGD REDUCER, IF REQUIRED
⑬	2 EA	8" F X F CML&P STEEL OR D.I. PIPE SPOOL [△]
⑭	...	#4 REBAR GR 60 12" O.C. EA. WAY
⑮	...	PREFORMED EXPANSION PAPER PER ASTM 1751
⑯	1 EA	CONCRETE SLAB (LENGTH= 12" LARGER AND WIDTH= 12" LARGER THAN ENCLOSURE) [△]
⑰	1 EA	4" THREADED GLOBE DIRECT-ACTING PRESSURE REGULATOR W/UNION
⑱	2 EA	F X F CML&P STEEL OR D.I. PIPE SPOOL (SIZED AS REQUIRED NO. 10)
⑲	2 EA	4" X 4" FLGD SPOOL (SIZE AS REQUIRED) [△]
⑳	2 EA	TWO PIECE SPLIT STEEL ENCLOSURE (SEE NOTES ON SHEET 2) [△] [△] [△]
㉑	2 EA	STEEL OR D.I. COMPANION FLANGE (SIZE AS REQUIRED) [△]
㉒	2 EA	8" VALVE BOX WITH CAST IRON LID WITH THE LETTERS "LW" [△]
㉓	2 EA	LOCATOR WIRE (14 GAUGE SOLID COPPER WIRE UF, THWN, OR THHN) [△]
㉔	2 EA	ADJUSTABLE VALVE SUPPORT [△]


REGULATOR TABLE

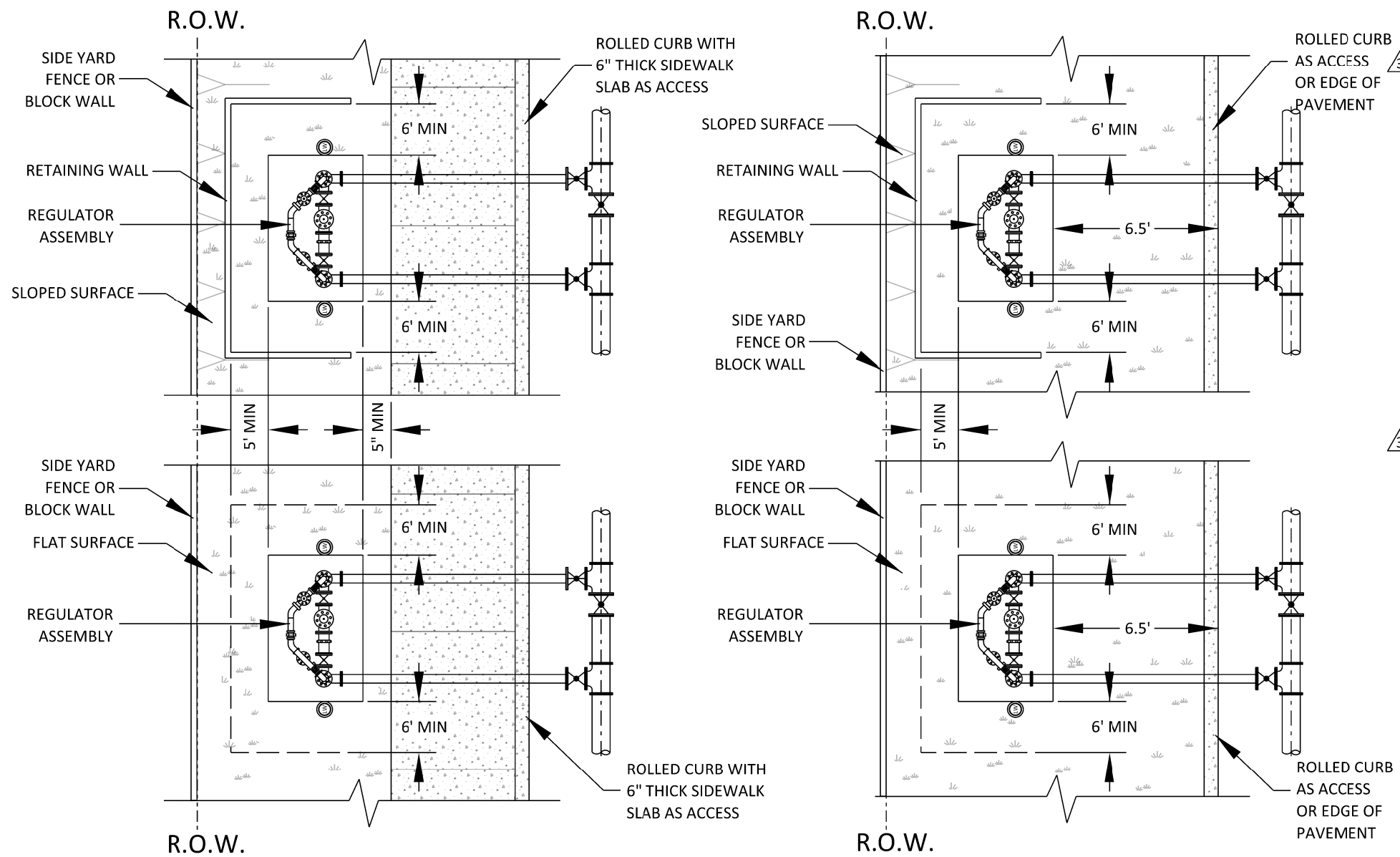
MAIN REGULATOR NO. 1 (SIZE)	BYPASS REGULATOR NO. 10 (SIZE)
8"	4" Direct-Acting Reg.
BYPASS REGULATOR NO. 17 (SIZE)	2" Direct-Acting Reg.

PRESSURE REGULATOR

SIZE	RECOMMENDED FLOW (HEAD LOSS VARIES)
2"	15 GPM - 210 GPM
4"	50 GPM - 800 GPM
6"	115 GPM - 1800 GPM
8"	200 GPM - 3100 GPM

- LOCATOR WIRE NOTES:** [△]
1. LOCATOR WIRE TO BE 14 GAUGE SOLID COPPER WIRE UF, THWN, OR THHN PER B-656.
 2. 6 FEET OF LOCATOR WIRE SHALL BE LEFT COILED WITHIN THE VALVE BOX.
 3. CONNECT INTO THE EMWD PIPELINE LOCATOR WIRE WITH A DRYCONNECT DIRECT BURY WIRE CONNECTOR.
 4. WIRE TO BE CONTINUOUS STRAND.
 5. LOCATOR WIRE SHALL BE SECURED TO THE WATER LATERAL PIPELINE WITH TAPE EVERY 10 FEET.
 6. A LOCATIBILITY TEST IS TO BE PERFORMED ON LOCATOR WIRE PRIOR TO FACILITY ACCEPTANCE.

REVISIONS				APPROVALS			EASTERN MUNICIPAL WATER DISTRICT STANDARD DRAWING	
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE	DESIGN	INITIAL	DATE
③	9/30/24	GS	REVISED DEMENTIONS, NOTES, ENCLOSURE DETAIL, ADDED LOCATOR WIRE, VALVE SUPPORTS, & VALVE BOXES	<i>SL</i>	9/30/24	CONSTRUCTION	<i>CM</i>	7/14/05
②	3/10/22	GS	UPDATED TITLE BLOCK, NOTES CAGE DETAIL, REGULATOR CONFIG. ADDED SECOND SHEET FOR PLACEMENT DETAILS AND NOTES	<i>AGA</i>	3/10/22	INSPECTION	<i>CD</i>	7/14/05
①	8/5/20	GS	UPDATED TITLE BLOCK, FONT AND LOGO	<i>AGA</i>	8/5/20	OPERATIONS	<i>KG</i>	7/15/05
REFERENCES:				SCALE: NONE				
FILE I.D.: \kauai\eng\std dwgs\B-933.dgn				DRAWN BY: CM				
				RECOMMENDED			APPROVED <i>Charlie Bachmann</i> 7/18/05	
				DIRECTOR OF ENGINEERING			ASSISTANT GENERAL MANAGER DATE	
							SHEET 1 of 2	
							B-933	

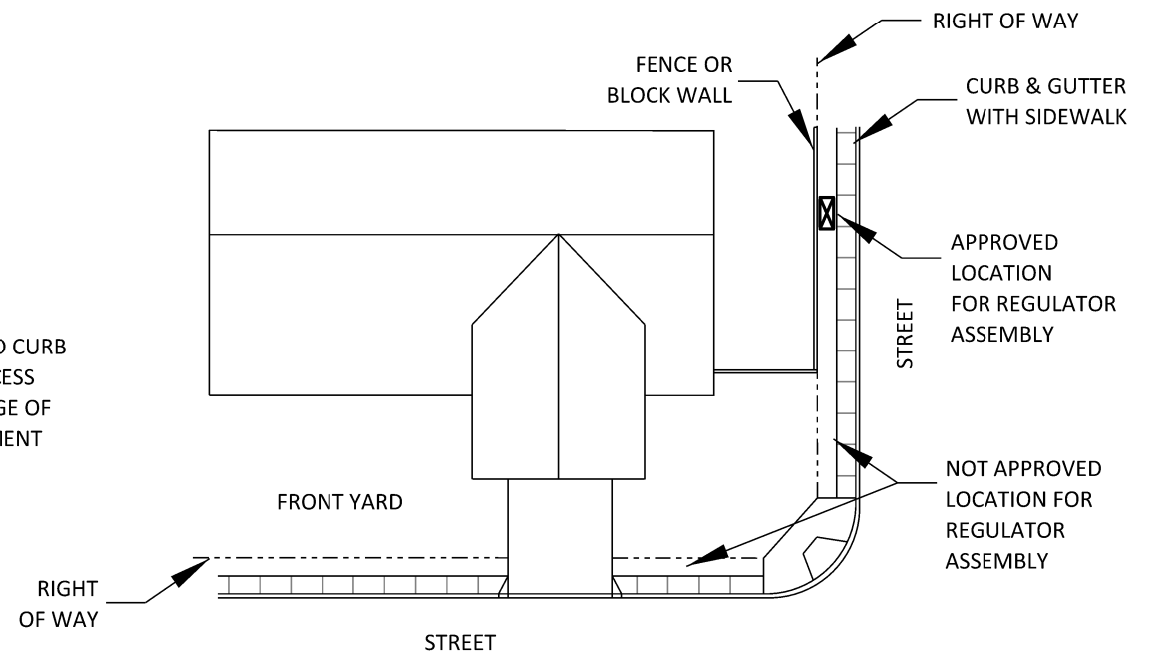


REGULATOR ASSEMBLY INSTALLATION DETAIL


NOT TO SCALE

NOTES:

1. PRESSURE REGULATOR SHALL BE 12" ABOVE CONCRETE PAD.
2. BELOW GROUND INSTALLATION OF PRESSURE REGULATOR TO BE ALLOWED ONLY WHEN ABOVE GROUND ASSEMBLY IS NOT PERMITTED BY THE GOVERNING AGENCY.
3. IN AREAS PRONE TO FREEZING, BYPASS PIPING SHALL BE WRAPPED WITH INSULATING TAPE.
4. ALL CML&C PIPE TO MEET EMWD SPECIFICATION 15061.
5. TEES OR CONNECTIONS SHALL NOT BE ALLOWED BETWEEN EMWD RSGV AND PRESSURE REGULATOR.
6. ENCLOSURE MANUFACTURERS, OR APPROVED EQUAL:
 - A. TEMECULA PRECISION FABRICATION INC, TEMECULA, CA.
 - B. LE MEUR WELDING & MANUFACTURING, WILMINGTON, CA.
7. EMWD O&M MAY REQUIRE A VERTICAL FLOW METER ON INLET PIPING. INSTALL AN EQUAL LENGTH SPOOL ON OUTLET PIPING.
8. PRESSURE REGULATOR ASSEMBLY SHALL NOT EXCEED 5' IN HEIGHT.
9. INSTALLATION LOCATION MAY REQUIRE BOLLARDS. BOLLARDS TO BE INSTALLED AT THE DIRECTION OF THE EMWD ENGINEER AND/OR EMWD INSPECTOR PER B-665.
10. MINIMUM 8" CLEARANCE FROM THE TOP OF REGULATOR TO TOP OF ENCLOSURE.
11. PRESSURE REGULATOR ASSEMBLY INSTALLATION NOT PERMITTED IN FRONT YARDS OR SIDE YARDS WHERE NO FENCE OR BLOCK WALLS EXIST.



REVISIONS				APPROVALS			EASTERN MUNICIPAL WATER DISTRICT STANDARD DRAWING	
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE	DESIGN	INITIAL	DATE
3	9/30/24	GS	REVISED DEMENTIONS, NOTES, & ENCLOSURE MANUFACTURERS, ADDED LOCATOR WIRE VALVE BOXES	SF	9/30/24	CONSTRUCTION	CM	7/14/05
2	3/10/22	GS	UPDATED TITLE BLOCK, NOTES CAGE DETAIL, REGULATOR CONFIG. ADDED SECOND SHEET FOR PLACEMENT DETAILS AND NOTES	AGA	3/10/22	OPERATIONS	KG	7/15/05
						SUBMITTED	VJB	7/18/05

REFERENCES: SUPERCEDES B-368	SCALE: NONE		4" & 6" PRESSURE REGULATOR ABOVE GROUND INSTALLATION	SHEET 2 of 2
FILE I.D.: \kauai\eng\std dwgs\B-932.dgn	DRAWN BY: CM			