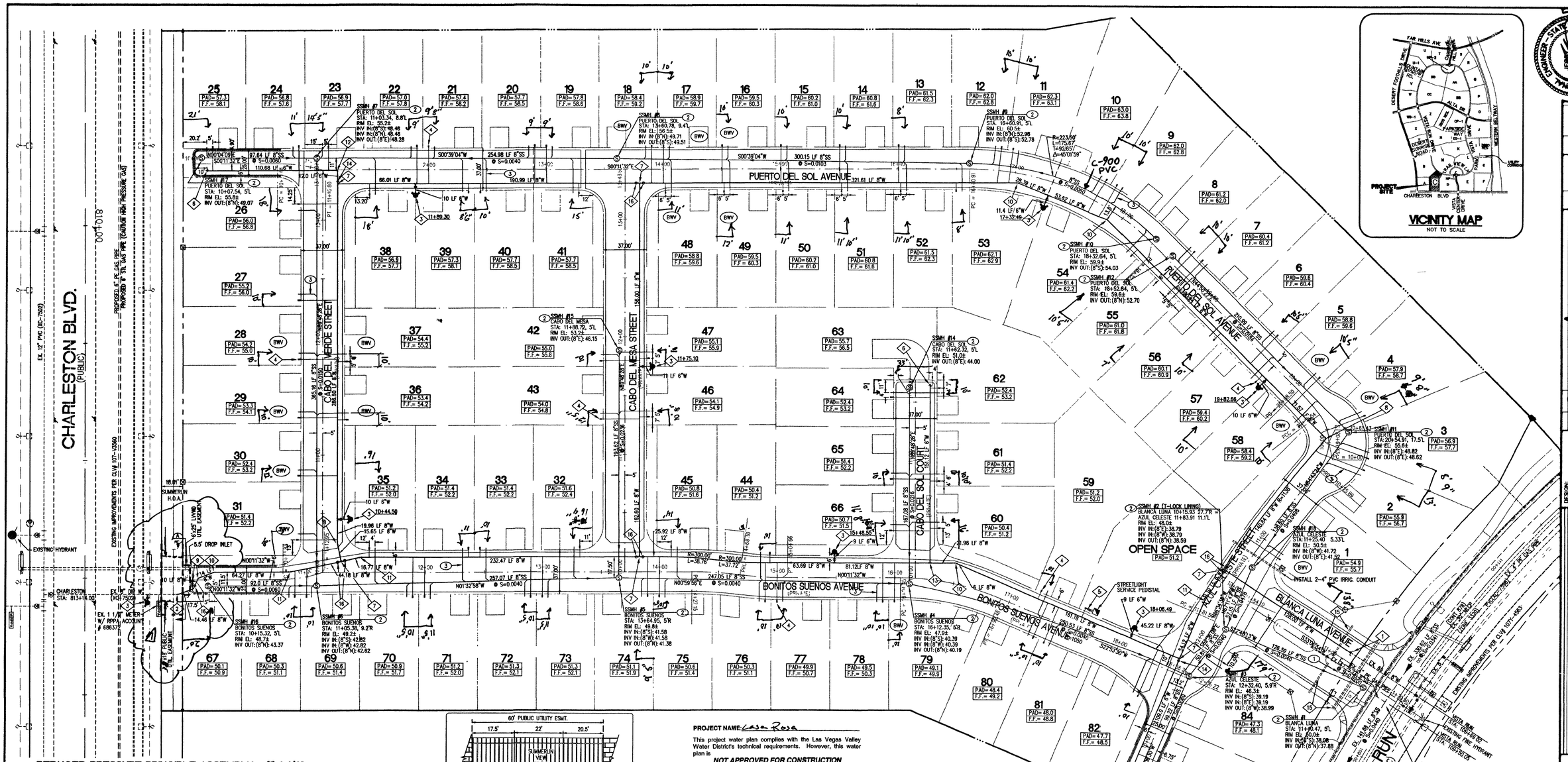


REDUCED PRESSURE PRINCIPLE ASSEMBLY - (1) 1-1/2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

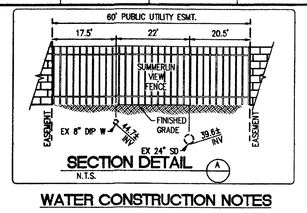
EXISTING UTILITY NOTE

THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

GENERAL UTILITY NOTE

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER MANUFACTURER INSTRUCTIONS.



SECTION DETAIL (A)

PROJECT NAME: Casa Rosa

This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is

NOT APPROVED FOR CONSTRUCTION

at this time and this signature does not provide or imply a water commitment.

Brian K. Barber 6/18/03
LVWWD DATE
ESN.052

WATER CONSTRUCTION NOTES

1. VISTA RUN STA: 109+69.02 55' LEFT, REMOVE EXISTING BLOW OFF AND CONNECT TO EXISTING 8" WATER STUB.
2. CHARLESTON STA: 813+14.00 78.37' LEFT, REMOVE 9.5 LF EX. 8" WATER, CONNECT TO EX. 8" STUB WITH 22.5° BEND.
3. INSTALL COMPLETE FIRE HYDRANT ASSEMBLY PER UDACS PLATE #1
4. INSTALL 5/8" METER PER UDACS PLATE 1B, LOCATE MIN. 5' HORIZONTALLY FROM SEWER LATERAL, TYPICAL.
5. INSTALL 1-1/2" IRRIGATION METER PER UDACS PLATE 1D, WITH 1-1/2" RPPA PER UDACS 11A.
6. INSTALL 6" CAP WITH 2" BLOW-OFF ASSEMBLY PER UDACS PLATE 4.
7. INSTALL 8" TEE.
8. INSTALL 8" 90° BEND.
9. INSTALL 8" 45° BEND.
10. INSTALL 8" 22.5° BEND.
11. INSTALL 8" 11.25° BEND.
12. INSTALL 6" 90° BEND.
13. INSTALL 8"x6" TEE.
14. INSTALL 8"x6" REDUCER.
15. INSTALL SCH-40 PVC IRRIG. CONDUIT PER SIS U-18.
16. INSTALL 8" GATE VALVE

SEWER CONSTRUCTION NOTES

1. VISTA RUN STA: 109+50.05 55' LEFT, REMOVE CAP AND 25 LF EX. PVC AND CONNECT TO EXISTING 8" SEWER STUB.
2. CONSTRUCT 48" ECCENTRIC MANHOLE PER CCSD SD-1.
3. INSTALL 4" SEWER LATERAL WITH WYE, TYPICAL, PER CCSD SD-17.

NOTES:
1) INSTALL RESIDENTIAL SEWER BACKWATER VALVE PER SD-29.
2) USE C900 PVC WHERE SEWER MAINS ARE CURVED.

LEGEND

EX 8" W	EXISTING WATERLINE
EX 15" SS	EXISTING SEWER
10 LF 8" W	PROPOSED 8" WATER
10 LF 8" SS @ 1%	PROPOSED 8" SEWER
	PROPOSED FIRE LANE
	PROPOSED WATER LATERAL & 5/8" METER
	PROPOSED 4" SEWER LATERAL
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT ASSEMBLY
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED 48" SANITARY SEWER MANHOLE
	PROPOSED 8" GATE VALVE
BWV	PROPOSED BACKWATER VALVE

SEWER CONTRIBUTION

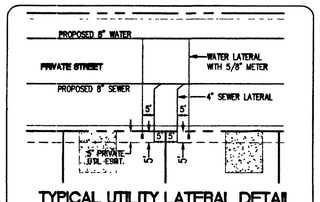
84 UNITS x 250 GPD/UNIT	21,000 GPD
AVERAGE DAILY FLOWS	0.021 MGD
x 3.23 (PEAK FACTOR)	
TOTAL PEAK FLOW	0.0678 MGD

FIRE FLOW CALCULATIONS

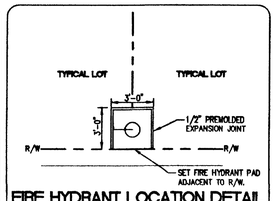
FIRE FLOW REQUIREMENT IS: 1,500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.
BASED ON:
SQUARE FOOTAGE: 2,600 SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A SQUARE FEET
BUILDING HEIGHT: 24' MAX. FEET
NUMBER OF STORIES: 1 FLOOR
TYPE OF CONSTRUCTION: V-N
OCCUPANCY: RESIDENTIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: NO
REVIEWED BY: DATE 6/18/03

FIRE LANE NOTE:

FIRE LANES TO HAVE CURBS PAINTED RED WITH WORDS ON THE CURB AT LEAST EVERY 50' OR PORTION THEREOF, STATING "NO PARKING FIRE LANE". THE WORDS ON THE CURBS SHALL BE PAINTED IN WHITE BLOCK LETTERS NOT LESS THAN 4" IN HEIGHT WITH STROKES NOT LESS THAN 3/4".



TYPICAL UTILITY LATERAL DETAIL
NOTE: SEE PLAN FOR NON-TYPICAL LATERAL LOCATIONS.



FIRE HYDRANT LOCATION DETAIL
N.T.S.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT 7/03/03 DATE

APPROVED FOR CONSTRUCTION
CITY OF LAS VEGAS FIRE DEPART. 6/18/03 DATE

— SEWER ASBUILT —

54128
54165 G
10704756

G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299
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ISSUE EDITOR:
PLOT DATE: 06-18-03
PLOT TIME: 09:31:56

ISSUE DATES

REV	DATE	DESCRIPTION	DATE	APP	DATE	APP
A	7-7-03	Revise Sewer	7-7-03			

SEWER ASBUILT

CASA ROSA
KIMBALL HILL HOMES
MASTER UTILITY PLAN

SHEET U-1

AVOID CUTTING UNDERGROUND UTILITY LINES IT'S COSTLY
Call before you Dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

AVOID HITTING OVERHEAD POWER LINES IT'S COSTLY
CALL BEFORE YOU DO OVERHEAD
1-702-593-6111

10704756