LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

1. NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE SHALL BE GIVEN TO THE LVVWD CUSTOMER SERVICE DEPARTMENT [illegible] HOURS PRIOR TO INITIAL CONSTRUCTION, AND 24 HOURS PRIOR TO AN INSPECTION.

2. ALL WORK SHALL CONFORM TO LVVWD LATEST STANDARD PLATES, PARTS AND SPECIFICATIONS.

3. ALL WORK, EXCEPT AS MODIFIED HEREON AND BY NOTE [illegible] SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.

4. DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS SHALL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY SHALL BE PERMITTED ON 1-1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.

5. UNDER-SERVICE LATERALS: ALL 3/4" OR 1" SERVICE LATERALS SHALL BE OF TYPE K COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATION AND STANDARD PLATES.

6. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACP	DUCTILE IRON PIPE JOINT	DUCTILE IRON MECHANICAL JOINT
4" - 12 INCH	[illegible] DEGREES	[illegible] DEGREES	[illegible] DEGREES
14" - 18 INCH	[illegible] "	[illegible] "	[illegible] "
20" - 24 INCH	** N.A. **	[illegible] "	[illegible] "

IN THE CASE OF PIPE, THE MAXIMUM DEFLECTION FOR A 12" BRONZE FLANGED BELLED PIPE SHALL BE 24 INCHES FOR 4" PIPE, 12 INCHES FOR 6" PIPE, AND 9 INCHES FOR 8" AND 12" PIPE.

IF THESE REPORTS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

7. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.

8. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.

10. DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. [illegible] WHERE INDICATED, AND AS FOLLOWS:

A) OVER ALL MAINS NOT INSTALLED 1 FEET FROM BACK OF CURB.
B) OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.

11. ALL WATER MAINS SHALL BE PRESSURE TESTED AT [illegible] PSI FOR A MINIMUM OF [illegible] HOURS IN ACCORDANCE WITH DISTRICT STANDARDS.

12. ALL WATER MAINS SHALL BE DISINFECTED, FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF WATER MAIN(S) AND/OR LATERAL(S) TO THE DISTRICT'S SYSTEM.

13. CONTRACTOR TO OBTAIN ALL METERS 1" AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 EIGHTY-EIGHT (88) HOURS PRIOR TO DELIVERY.

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

1. All work shall be done in strict accordance with the City of Las Vegas Fire Department "Uniform Standard Specifications", "Uniform Standard Specifications" and Ordinance #1677.

2. Approved systems and equipment are:
   a. Kennedy Guardian
   b. Mueller H-15 Centurian
   c. Clow Model 134 Medallion

3. On any new home or building installation, a sprinkler fire hydrant shall be installed within [illegible] of the property to be serviced by the hydrant, in addition to the required fire hydrants, in the subdivision, or in a non-sprinkled street with an adequate water supply.

4. Contractor shall place a blue reflective marker at centerline of street adjacent to fire hydrant as required in Ordinance #1677 to identify fire hydrant locations.

5. Call the Las Vegas Building Department at 229-2071 for underground inspection, pressure and flush verification of all fire hydrants and fire lines inside curbline.

6. Painting of the curbs and hydrant and any work necessary for protection of hydrants from damage, shall be in accordance #1677. Shall be completed before approval by the City of Las Vegas Fire Department.

7. A permit is require from the Fire Department for private water line and fire hydrant. The permit and contractors material and test certificate for underground piping from shall be obtained from the Fire Protection Engineer prior to any work beginning.

8. A flow test must be witnessed by the Fire Department prior to occupancy for verification of required private water supply.

9. All private fire mains [illegible] shall be hydrostatic approved.

10. Fire hydrant spacing:

    Residential - 500 feet unsprinkled, 600 feet sprinkled
    Commercial, including multi-family - 300 feet unsprinkled, [illegible] feet sprinkled

11. No fire hydrant shall be located within the required radius of a cul-de-sac or within 20 feet of the perimeter of the radius of the cul-de-sac.

12. No fire hydrant shall be located within 6 feet of any curb return, driveway, power pole, street light or any other obstruction.

13. Not more than 2 hydrants can be out of service due to a single main break.

14. The turning radius for any fire apparatus access road and/or fire lane, public or private shall be not less than 45 feet outside radius and 22 feet inside radius.

15. A fire apparatus road shall be required when any portion of an exterior wall is [illegible] feet from the nearest point of approach for fire department vehicle access. See exceptions in NFPA 1, section [illegible].

16. All dead end fire apparatus access roads within fire lanes public or private shall be in the form of a [illegible] in length shall be provided with an approved turnaround area. See Ordinance #1677.

Dated: 12/89
Date revised: 2/93

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.

3. CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II GRAVEL.

5. ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.

6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.

7. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN, MUST BE [illegible] CHECKED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.

8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.

SEWER DATA

AVERAGE FLOWS	0.0035 MGD
PEAK FLOWS	0.0123 MGD

BENCHMARK

BM USED = 7C 02 H4 ELEV. = 1783.10 FD ALUM PLATE IN TC SW. QUAD. MARION DR. & OWENS AVE. NEAR BCR OF OWENS AVE.

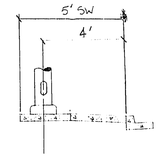
STREET LIGHT NOTES

ALL STREET LIGHTING INSTALLATION, EXCEPT AS NOTED OTHERWISE ON THE STREET LIGHTING PLANS, SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA

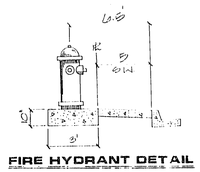
. POLES TO BE GALVANIZED

NOTE:

CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.



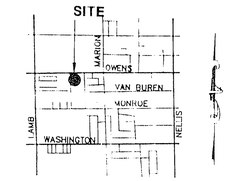
STREET LIGHT DETAIL
(PER CLV STD DWG. # 213)



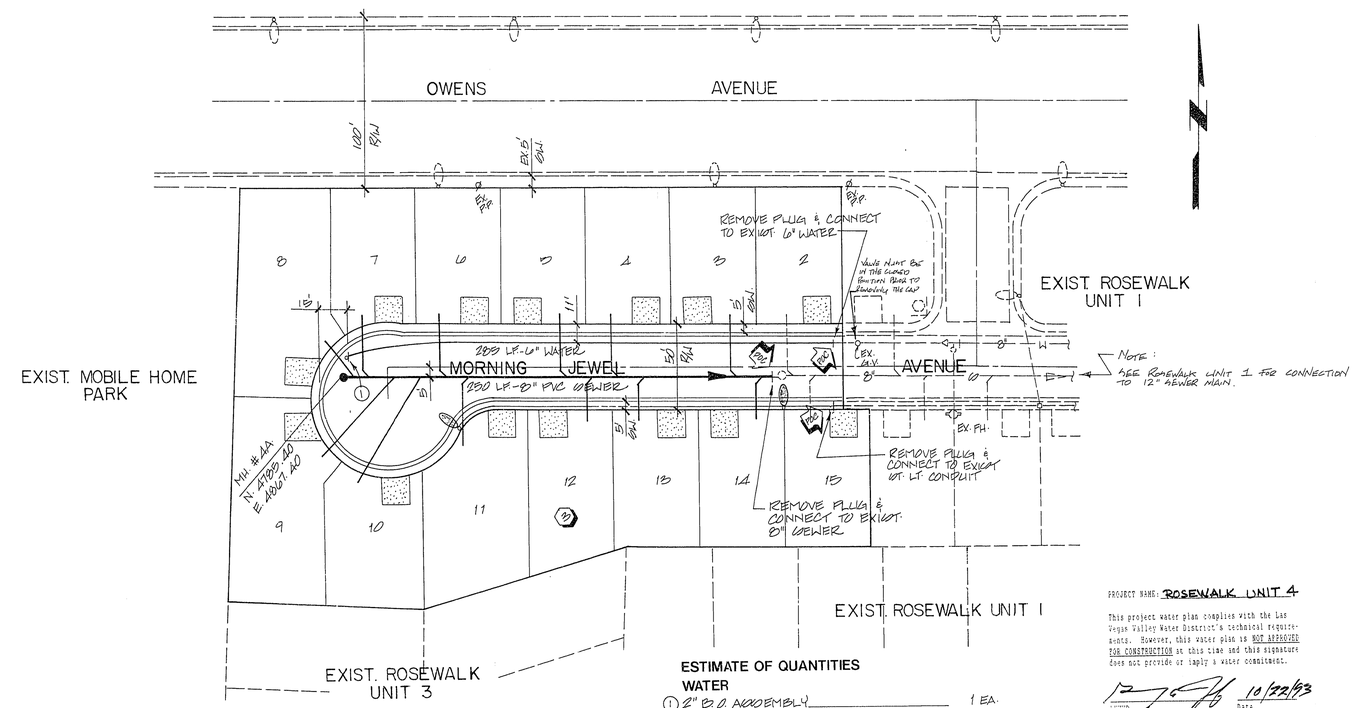
FIRE HYDRANT DETAIL

LAS VEGAS FIRE DEPARTMENT

Fire Flow Requirement is 1500 gallons per minute at 20 pounds per square inch residual.



LOCATION MAP
NO SCALE



ESTIMATE OF QUANTITIES

WATER	
(1) 2" B.O. ASSEMBLY	1 EA.
6" WATER MAIN	283 LF.
3/4" WATER SERVICE W/3/8" WATER METER	14 EA.
SEWER	
4'D. MANHOLE	1 EA.
8" SEWER MAIN	350 LF.
4" SERVICE LATERALS	450 LF.
WYE'S	12 EA.
STREETLIGHTS	
100 WATT LUMIN.	2 EA.
1 1/4" CONDUIT	230 LF.

PROJECT NAME: ROSEWALK UNIT 4

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.

LVVWD 10/22/93 Date

APPROVALS

CITY LAS VEGAS FIRE MARSHALL 11/29/93 DATE

LAS VEGAS VALLEY WATER DISTRICT 12/7/93 DATE

NEVADA POWER COMPANY 10/19/93 DATE

NEVADA POWER COMPANY APPROVAL IS ONLY FOR THE PLACEMENT & CLEARANCE OF STREETLIGHT & SIGNAL LIGHT INSTALLATION.

REV	DATE	BY	REVISION

DURABLE HOMES
CITY OF LAS VEGAS, NEVADA

CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89102-5148 PHONE (702) 873-7550 FAX (702) 362-2597

TITLE: MASTER UTILITY PLAN

PROJECT: ROSEWALK UNIT 4

SEAL

10/11/93

WO NO.	4417-4
BY	WJR
DATE	5/1993
SCALE	1"=40'
SHEET	4 OF 4 SHEETS

11-3-72

307Y-H276-4