

STEPHEN P. GURLIDES, P.L.S.
 NEVADA CERT. NO.: 9105

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

Based on:

Square footage 1973 SF

Largest area between
area separation walls 10'

Height 2 STORY - 24'

Type of Construction X

Exposures NONE

Sprinkler System NO

Occupancy SINGLE FAMILY

Roof Construction CEMENT TILE

Reviewed By: Richard G. Brown

Date: 11-21-91



CITY OF LAS VEGAS SEWER NOTES

1. All construction and materials shall be in accordance with the latest edition of the Design & Construction Standards for Wastewater Collection Systems and the Uniform Standard Specifications for Public Works Construction Off-site Improvements, Clark County Arma, 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 "G" in curbs where sewer or gas laterals pass under the curb.

- 4. Polyethylene (PE) sewer pipe shall meet ASTM D-3034 SDR 35 specifications, installed with sand bedding and sagspill 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. Times 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 shall be performed inside for a distance 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.



WATER

①	PIRE HYDRANT ASSY (TO INCLUDE PIPE,TEE, VALVE, RISER)	7 EA.
②	6" GATE VALVE	11 EA.
③	6" TEE	3 EA.
④	6" 90° BEND	1 EA.
⑤	6" 45° BEND	7 EA.
⑥	6" 22.5° BEND	3 EA.
⑦	6" CROSS	EA
⑧	6" 45° TEE	1 EA.
⑨	6" GATE VALVE	1 EA.
⑩	2" BLOW OFF ASSY	2 EA.
	3/4" SERVICE	105 EA.
	3/4" METER BY LVLVND	105 EA.
	6" WATER MAIN	3,972 LF.
	16" WATER MAIN	267 LF.
⑪	6" 8" M.W. TAPPING TEE & VALVE	1 EA.
	6" 11/2" BEND	2 EA.
⑬	1" IRRIGATION SERVICE	1 EA.

STANDARD MANHOLE _____ 14 EA.
8" SEWER MAIN _____ 4431 LF.
4" SEWER LATERALS _____ 2920 LF.
WYES _____ 109 EA.
15" SEWER MAIN _____ 110 LF.

250 WATT LUMIN. _____ 4 EA.
 100 WATT LUMIN. _____ 4 EA.
 1/4" CONDUIT _____ 1337 LF.
 SERVICE POINT & R.C.O. _____ 1 EA.
 STREET SIGNS _____ 9 EA.

100 WATT LUMIN. _____ 20 EA.
1 1/2" CONDUIT _____ 3500 LF.
#3 1/2 FILL BOX _____ 5 EA.

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #3545.
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 - A. KENNEDY GUARDIAN
 - B. MUELLER A-423 CENTURIAN
 - C. CLOW MODEL 2546 MEDALLION
3. ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER 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 #3545 TO IDENTIFY FIRE HYDRANT LOCATION.
5. CALL THE LAS VEGAS BUILDING DEPARTMENT AT 799-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
6. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM VEHICLE DAMAGE, PER ORDINANCE #3545, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND FIRE LINES 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 VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
9. ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND F.M. APPROVED.
10. FIRE HYDRANT SPACING:
RESIDENTIAL - 500 FEET UNSPRINKLERED, 600 FEET SPRINKLERED
COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 400 FEET SPRINKLERED
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 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
13. 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.
14. A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS (SEE EXCEPTIONS IN UFG 88, SECTION 10.207).
15. ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LINES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN IMPROVED TURN OFF FOR FIRE DEPARTMENT VEHICLE ACCESS.

Phase II Unit 1
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.

27621 11-26-81

1 sheets 687

BENCHMARK

BM - U.S.G.S. Brass Cap
and Cap. stamped #162, Dec 1962

and Conc. Stamped #169 Rebet 1963
Elev. = 2357.04

Approx. 400' No. Ann Road & 4.0' East
the East E.P. NB Lane of Oran Grade

THE LAST DAY OF THE YEAR OF GRANT EMPLOY

[illegible]

1. All street light installations shall conform to the standard details and specifications of the City of Las Vegas, and shall also conform to the uniform standard specifications for public works construction of off-site improvements, Clark County area, latest edition, unless otherwise noted.

ALL HAND HOLE COVERS MUST BE INSTALLED, POLE CAPS RAISED, AND PULL BOX LIDS BOLTED DOWN PRIOR TO ENERGIZING CIRCUIT. ALL WIRE MUST HAVE THIN INSULATION. ALL BALLAST MUST BE MAG. REG.

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SEWER AS-BUILT

DESERT CREEK
PHASE II UNIT 1

PROJECT

WO NO.	4008-1
BY	KFN, WLR
DATE	Aug., 1991
SCALE	1" = 40'
SHEET	137
6	OF 14 SHEET

As Built 3074-4074-II-1