

LAKE MEAD BOULEVARD

FIRE FLOW DATA

FIRE FLOW REQUIREMENT IS 3250 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:

LARGEST SQUARE FOOTAGE: 14,176

(AREA SEPARATION WALLS ARE SHOWN ON PLANS) 14,176

HEIGHT: TWO STORY

TYPE OF CONSTRUCTION: V - N

EXPOSURES: N A

SPRINKLER SYSTEM: NO

OCCUPANCY: COMMERCIAL

ROOF CONSTRUCTION: PANALIZED WOOD DECK

PEAK FLOW SEWER CONTRIBUTION

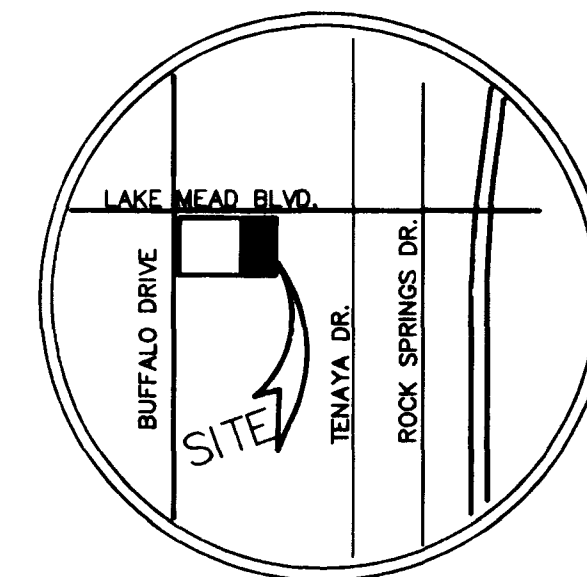
AVERAGE FLOW = 900 GPD

900 GPD AVERAGE DAILY FLOW x 3.5 PEAKING FACTOR = 3,150 GPD

LEGEND

	RETAINING BLOCK WALL
	BLOCK WALL
	EXISTING IMPROVEMENTS
	SCARP
	SWALE
	SETBACK LINE
	EDGE OF PAVEMENT
	FINISHED FLOOR
	FINISH GRADE
	FLOW LINE
	TOP OF CURB
	TOP OF BERM
	PAD GRADE
	EXISTING STREETLIGHT

VICINITY MAP



PRIVATE ON-SITE QUANTITIES

8" PVC WATER	946 LF
6" PVC WATER	95 LF
1 1/2" PVC WATER	135 LF
2" PVC WATER	150 LF
FIRE HYDRANT ASSEMBLY	3 EA
6" GATE VALVES	3 EA
8" x 6" REDUCER	2 EA
8" x 4" TEE	4 EA
8" ELBOW	3 EA
8" x 8" TEE	1 EA
8" x 2" TEE	6 EA
6" ELBOW	2 EA
6" SEWER CLEANOUTS	4 EA
6" PVC SEWER	268 L.F.
2" PRIVATE WATER METER	4 EA
1-1/2" PRIVATE IRRIGATION METER	4 EA

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

- NOTE: ALL CURBS TO BE PAINTED RED.
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT HYDRANT SPECIFICATIONS, AND ORDINANCE #3944.
 - AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 - KENNEDY GUARDIAN
 - MUELLER A-423 CENTURIAN
 - CLOW MODEL 2546 MEDALLION
 - ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
 - CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #3944 TO IDENTIFY FIRE HYDRANT LOCATIONS.
 - CALL THE LAS VEGAS FIRE DEPARTMENT AT 229-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
 - PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #3944 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
 - A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
 - PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
 - A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
 - ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND A.W.W.A. APPROVED.
 - FIRE HYDRANT SPACING:
 - RESIDENTIAL - 500 FEET UNSPRINKLERED, 1000 FEET SPRINKLERED.
 - COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 600 FEET SPRINKLERED.
 - COMMERCIAL, INCLUDING MULTI-FAMILY - 600 FEET SPRINKLERED.
 - WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS, WHERE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF STRUCTURES, FIRE HYDRANTS SHALL BE SPACED AT MAXIMUM 1,000 FOOT SPACING TO PROVIDE FOR TRANSPORTATION HAZARDS.
 - NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF CULL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CULL-DE-SAC.
 - NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
 - TWO SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE FIRE HYDRANTS INSTALLED ON A SINGLE SYSTEM.
 - NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
 - FIRE APPARATUS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET PROVIDED NO PARKING IS ALLOWED, NOT LESS THAN 28 FEET IF PARALLEL PARKING IS ALLOWED ON ONE SIDE, AND NOT LESS THAN 36 FEET IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. VERTICAL CLEARANCE SHALL BE NOT LESS THAN 13 FEET 6 INCHES.
 - THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE SHALL NOT BE LESS 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
 - 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 UFC 94, SECTION 902.2).
 - ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LANES PUBLIC OR PRIVATE IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURNAROUND AREA. SEE ORDINANCE #3944.
 - ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FEET ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FEET OR LESS THAN 6 FEET FROM ROADWAY LEVEL. THE CURBS ALONG OR ON THE PAVEMENT OR CEMENT IF CURB IS NOT PRESENT, SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
 - ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.

Revised 1/96

APPROVALS

Amber A. Clapp 7/15/97
LAS VEGAS FIRE DEPARTMENT DATE

SPRINT TELEPHONE NOTES

NOTE: SPRINT TELEPHONE FACILITIES ENGINEER DEPARTMENT CONTACT COLLEN SMITH AT 244-7878

NOTE:

THE PROPOSED WATER DISTRIBUTION SYSTEM FOR THE PROFESSIONAL PLAZA IS PART OF A PRIVATE, LOOPED COMBINATION FIRE AND DOMESTIC SYSTEM SERVED BY TWO 8" x 2" FMCT METERS FOR THE EXISTING APPROVED BUFFALO COMMERCIAL SUBDIVISION.

CONSTRUCTION NOTES

- INSTALL FIRE HYDRANT ASSEMBLY PER THE UDACS PLATE # 7.
- INSTALL 8" x 6" TEE WITH 6" GATE VALVE.
- INSTALL 8" ELBOW.
- INSTALL 8" x 6" REDUCER.
- INSTALL 6" ELBOW WITH (1) - 6" GATE VALVE.
- ABANDON IN PLACE EXISTING 8" WATER LINE
- INSTALL 2" PVC LATERAL WITH PRIVATE METER
- CONNECT INTO EXISTING 8" LINE AND INSTALL (1) 8" 90° ELBOW. UPSTREAM GATE VALVE TO BE IN OFF POSITION.
- PAINT CURB RED FOR FIRE DEPT ACCESS. NO PARKING

LEGAL DESCRIPTION

BEING A PORTION OF THE NORTHWEST 1/4 OF THE SOUTH WEST 1/4 OF SECTION 22 TOWNSHIP 20 S, RANGE 60 E, MDM

BENCHMARK N.A.V.D. 1988

CITY OF LAS VEGAS BENCHMARK NO. 22 STA. 0100 22E6 RIVET AND PLATE IN TOP OF CURB ON LAKE MEAD BLVD. 400' WEST OF ROCK SPRINGS DR. NORTH CURB LINE.

ELEVATION 721.9141 METERS. (2368.479 U.S. SURVEY FEET)

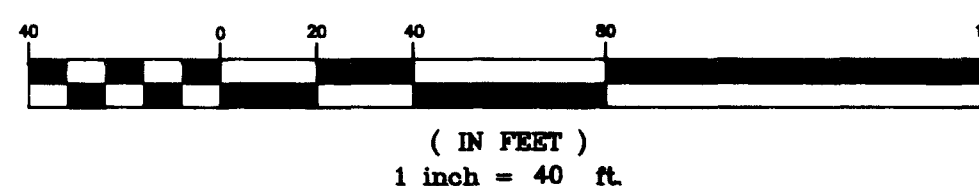
METERS x $\left(\frac{39.37}{1200}\right)$ = U.S. SURVEY FEET

1. THE ELEVATIONS SHOWN HEREON ARE BASED ON FEET.

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT THE INDIVIDUAL, ON SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHEN EVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY AND WILL NOT BE INSPECTED OR ARE INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

ESN: 041

GRAPHIC SCALE



NOTICE!

EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.

Call BEFORE YOU Dig
1-800-227-2600
UNDERGROUND SERVICE ORGANIZATION

DRAWING NO.: UTIL

JOB NO.: 610505

NAME: SFC

DATE: 5-12-97

SCALE: 1" = 40'

PAGE:

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OF: 6

PROFESSIONAL PLAZA

UTILITY PLAN

