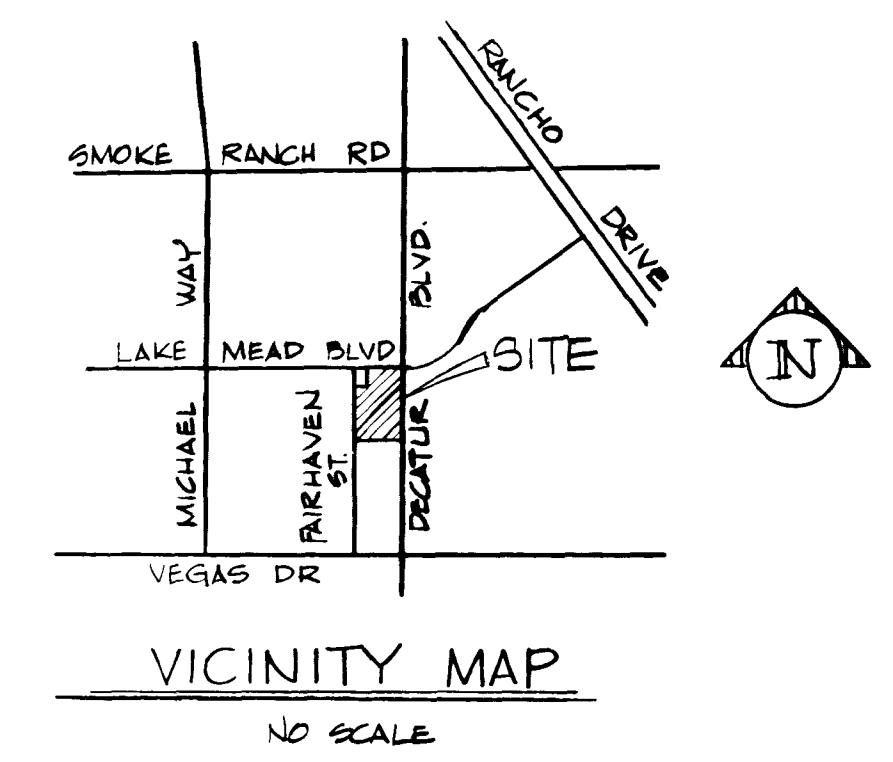


27-4-86

EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES, AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS.



LAS VEGAS VALLEY WATER DISTRICT

1. ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT STANDARD PLATES.
2. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE NO. 1, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS CLARK COUNTY AREA.
3. NOTICE TO BE GIVEN ENGINEERING DEPARTMENT OF THE LAS VEGAS VALLEY WATER DISTRICT 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.
4. SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL SERVICES; DOUBLE TAP COLLARS ARE NOT PERMITTED.
5. ALL LINES TO BE PRESSURE TESTED TO 200 PSI.
6. ALL VALVE BOXES SHALL HAVE CONCRETE COLLARS AT SURFACE OF PAVED AREAS.
7. DEFLECTION ANGLE SHALL NOT EXCEED 2 1/2 DEGREES PER 13 FOOT SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 14 INCHES, AND SHALL NOT EXCEED 2 DEGREES FOR PIPE SIZES BETWEEN 14" AND 16".
8. ALL METERS SHALL BE LOCATED OUTSIDE OF DRIVEWAYS.
9. SERVICE LATERALS FOR LOTS BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LAS VEGAS VALLEY WATER DISTRICT.
10. DETECTOR TAPE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED AND AS FOLLOWS:  
A. OVER ALL MAINS NOT INSTALLED AT 6 FEET FROM BACK OF CURB.  
B. OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAINS.

NOTE: CONTRACTOR TO VERIFY EXACT LOCATIONS OF WATER SERVICES AND SEWER LATERALS.

LEGEND & ESTIMATE OF QUANTITIES

WATER:

- |                                   |                         |
|-----------------------------------|-------------------------|
| ① FIRE HYDRANT                    | 6 EA (FURNISH & RELOC.) |
| ② 6" GATE VALVE                   | 7 EA                    |
| ③ 6" CHECK VALVE                  | 1 EA                    |
| ④ 6" MECH. JOINT TAPPING TEE      | 1 EA                    |
| ⑤ 6" 90° BEND                     | 14 EA                   |
| ⑥ 8" x 6" TAPPING TEE             | 1 EA                    |
| ⑦ 12" x 12" TAPPING TEE           | 2 EA                    |
| ⑧ 6" TEE                          | 4 EA                    |
| ⑨ 6" 45° BEND                     | 2 EA                    |
| ⑩ FIRE DEPT. CONNECTION (SIAMSEB) | 4 EA                    |
| ⑪ POST INDICATOR VALVE            | 1 EA                    |

- |                                 |          |
|---------------------------------|----------|
| 6" ACP WATER MAIN               | 1,384 LF |
| 2" PE WATER MAIN (OFFSITE)      | 80 LF    |
| 3" PVC WATER MAIN               | 490 LF   |
| 2" PVC WATER MAIN               | 258 LF   |
| 2" SERVICE                      | 242 LF   |
| 1 1/2" SERVICE                  | 86 LF    |
| 1" SERVICE                      | 315 LF   |
| 1" PE SERVICE W/METER (OFFSITE) | 1 EA     |
| 2" METER                        | 2 EA     |
| 6" DETECTOR CHECK               | 3 EA     |

SEWER:

- |                      |          |
|----------------------|----------|
| 10" VCP SEWER MAIN   | 5 LF     |
| 8" VCP SEWER MAIN    | 615 LF   |
| 6" VCP SEWER MAIN    | 177 LF   |
| 4" VCP SEWER LATERAL | 1,023 LF |

- |                   |      |
|-------------------|------|
| STANDARD MANHOLES | 3 EA |
| CLEANOUTS (CO)    | 8 EA |

APPROVALS:

|                              |         |
|------------------------------|---------|
| CLV CITY ENGINEER            | DATE    |
| CLV SANITATION ENGINEER      | 9-27-78 |
| CLV QUALITY CONTROL ENGR.    | 9-28-78 |
| CLV FIRE MARSHAL             | 9-14-79 |
| CLV FIRE FLOW = 2250 GPM     |         |
| Michael P. Reago             | 9-25-79 |
| LAS VEGAS VALLEY WATER DIST. | DATE    |
| CLV TRAFFIC ENGINEER         | 9/28/79 |

REVISION 3/6/80 APPROVED

Now Vail 11/11/80 3-10-80  
LAS VEGAS VALLEY WATER DIST. DATE  
William J. Williams 3/14/80  
CITY OF LAS VEGAS DATE



NORTH  
SCALE: 1"=40'

CONSULTING ENGINEERS - PLANNERS  
2209 PARADISE ROAD LAS VEGAS NEVADA 89105  
702 735-0771

**ytm nevada**

STATE OF NEVADA  
MICHAEL S. KOZUMI  
CIVIL ENGINEER  
12/27/77  
NEVADA CERT. N.E. 4511

SUBMITTED BY: *Michael S. Kozumi*

DECATUR/LAKE MEAD SHOPPING CENTER  
MASTER SEWER & WATER PLAN  
DATE 7/22/79 DES. VAC  
SCALE HOR 1"=40' VERT 1"=10'  
SHEET 5  
OF 7 SHEETS