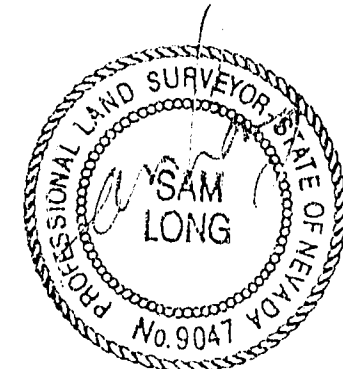


AS-BUILT NOTE:

THE AS-BUILT ELEVATIONS AND LATERAL LOCATION DISTANCES ADDED TO THIS MAP WERE THE RESULTS OF A FIELD SURVEY MADE UNDER MY DIRECTION.

SAM LONG, PLS
NEVADA CERTIFICATE NO. 9047



8/13/93

DOMESTIC AND FIRE PROTECTION WATER SERVICE FOR THIS PROJECT IS DEPENDENT UPON THE COMPLETION OF THE 2975 ZONE PIPELINE PHASE II & III WITH HOWARD HUGHES PROPERTIES OVERSIZING AGREEMENT NUMBER 72-001 AND PHASE IV WITH DEL WEBB OVERSIZING AGREEMENT NUMBER 72-002.

ESTIMATE OF QUANTITIES

1. STD. FH. W/6" G.V. & 6" A.C.P. LATERAL	14 EA
2. 6" PVC	3,341 LF
3. 6" X 6" TEE	2 EA
4. 6" GATE VALVE	7 EA
5. 6" 45° BEND	2 EA
6. 6" PVC	3,605 LF
7. 6" X 6" TEE	3 EA
8. 6" X 6" TEE	2 EA
9. 6" GATE VALVE	6 EA
10. SLOWOFF	3 EA
11. 3" X 6" REDUCER	4 EA
12. 3/4" METER	16 EA
13. 3/4" SERVICE	16 EA
14. 5/8" METER	16 EA
15. 1-1/2" IRRIGATION METER & SERVICE	1 EA

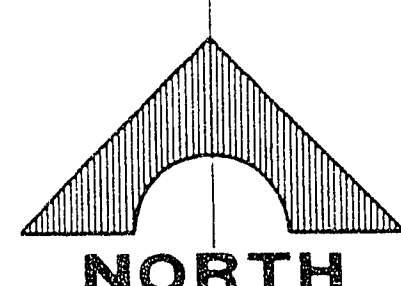
TRAFFIC SIGN QUANTITIES

1. 6" D-2 STREET NAME SIGN	1 EA
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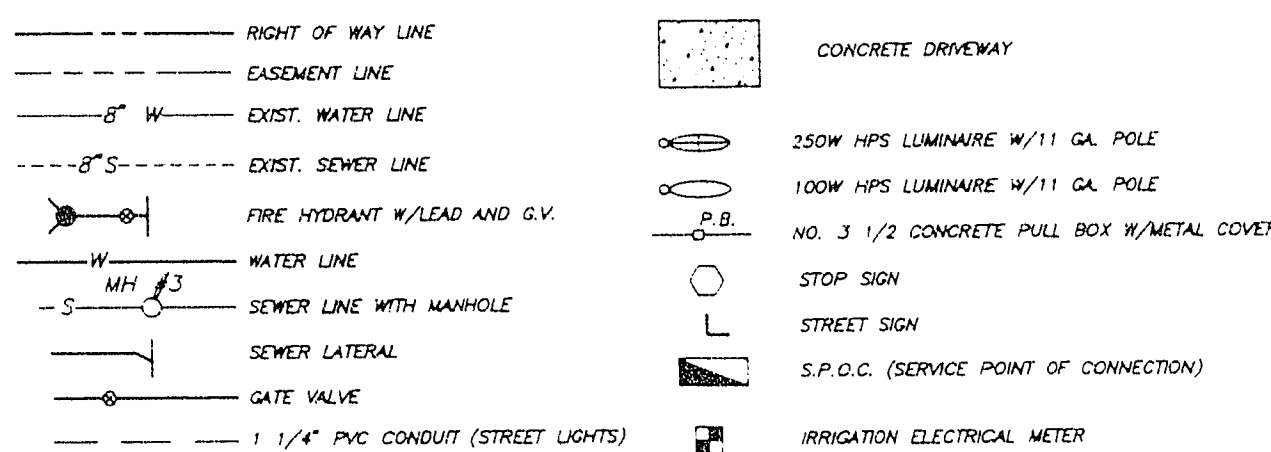
* PAID WITH UNIT #34

TEMPORARY DOMESTIC AND FIRE PROTECTION WATER SERVICE FOR THIS PROJECT WILL BE SUPPLIED BY THE TEMPORARY 2975 ZONE PUMPING STATION UNDER AN AGREEMENT WITH THE DISTRICT DATED FEBRUARY 4, 1992, WHICH LIMITS BOTH THE AMOUNT OF DEVELOPMENT TO BE SERVED AND THE OPERATIONAL PERIOD OF THE STATION.

PERMANENT DOMESTIC AND FIRE PROTECTION WATER SERVICE FOR THIS PROJECT IS DEPENDENT UPON THE COMPLETION OF THE 2975 ZONE PIPELINE PHASE II & III WITH HOWARD HUGHES PROPERTIES (OVERSIZING AGREEMENT NUMBER 72-001) AND PHASE IV WITH DEL WEBB (OVERSIZING AGREEMENT NUMBER 72-002).



LEGEND



STREET LIGHTING NOTE

ALL STREET LIGHT INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS AND SHALL ALSO CONFORM TO THE LATEST STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF THE DISTRICT. UNLESS OTHERWISE NOTED, SEE STANDARD DRAWING NO. 318.

* THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT OF A WATER-SEWER, STORM CROSSING:

WHEN PROTECTION OF THE WATER LINE IS CONSIDERED, THE MINIMUM VERTICAL DISTANCE OF 18 INCHES MUST BE MAINTAINED WHEN THE WATERLINE IS INSTALLED OVER THE SEWER/STORM LINE. IF THIS DISTANCE CANNOT BE MAINTAINED BECAUSE OF PHYSICAL OBSTRUCTIONS OR THE WATERLINE MUST BE PLACED UNDER THE SEWER/STORM LINE, THE SEWER/STORM LINE MUST BE CONSTRUCTED WITH ANY ONE OF THE FOLLOWING:

- A. EXTRA HEAVY CAST IRON OR DUCTILE IRON PIPE,
- B. WATER SUPPLY QUALITY MATERIAL,
- C. ENCASEMENT WITH 4 INCHES MINIMUM CONCRETE SLEEVING OR

LAS VEGAS FIRE DEPARTMENT

Fire flow Requirement is 1527 gallons per minute at 20 pounds per square inch residual.

Based on: _____
 Square footage: 3948 S.F.
 Largest area between area separation walls: N/A
 Height: 21 FEET
 Type of Construction: FRAME/STUCCO
 Exposures: 15 FEET
 Sprinkler System: NONE
 Occupancy: RESIDENTIAL
 Roof Construction: TILE
 Review By: *Michael D. Cross*
 Date: 4/20/93

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWD. FOLLOWING APPROVAL OF THE PLANS, WORK MUST BE GIVEN TO THE LVWD CUSTOMER SERVICE DEPARTMENT (875-4144) 48 HOURS PRIOR TO ACTUAL CONSTRUCTION AND 24 HOURS PRIOR TO AN INSPECTION.
- CALL BEFORE YOU DIG 1-800-227-2800.
- ALL WORK SHALL CONFORM TO LVWD LATEST STANDARD PLATES, DRAWINGS AND SPECIFICATIONS.
- ALL WORK EXCEPT AS NOTED HEREON OR BY NOTE 3, 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.
- DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL 1/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY WILL BE PERMITTED ON 1-1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
- COPPER SERVICE LATERALS ALL 1/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS AND STANDARD PLATES.
- THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZE	ACP	DUCTILE IRON	DUCTILE IRON
		SUP. JOINT	MECHANICAL JOINT
8 INCH	2.2 DEGREES	2.5 DEGREES	2.5 DEGREES
10 - 12 INCH	1.5 DEGREES	2.5 DEGREES	2.5 DEGREES
14 - 16 INCH	2 DEGREES	1.5 DEGREES	1.5 DEGREES
18 - 24 INCH	N/A	1.5 DEGREES	1.5 DEGREES

- ON PVC PIPE, THE MAXIMUM OFFSET FOR A 30' LENGTH OF FACTORY BELLED PIPE SHALL BE 1" FOR 4" PIPE, 12 INCHES FOR 6" PIPE, 11 INCHES FOR 8" PIPE AND 9 INCHES FOR 12" PIPE.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS AND VALLEY CUTTERS.
- DETECTOR TAPES ARE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED AND AS FOLLOWS:
- OVER ALL MAINS NOT INSTALLED 8 FEET FROM BACK OF CURB.
- OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.
- ALL WATER MAINS ARE TO BE PRESSURED TESTED AT 100 PSI FOR 4 CONTINUOUS TWO HOUR PERIOD.
- ALL WATER MAINS AND LATERALS SHALL BE DISINFECTED AND FLUSHED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO ACCEPTANCE BY THE DISTRICT.
- CONTRACTOR TO REMOVE ALL METERS 1" AND SMALLER FROM 1/2" X 3" CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

FIRE DEPT. NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #3545.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:

REV.	DATE	DESCRIPTION
1	8/13/93	ISSUED FOR PERMITS
2	8/20/93	REVISED PER PERMITS

DATE: 8/20/93
 P.E. NO.: 0218
 MICHAEL D. CROSS

ALM 8/19/93