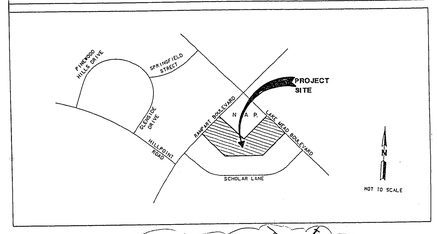
project
project manager
designed by
drawn by
job no.
sheet no.

VICINITY MAP



SYMBOL LEGEND

EXISTING	PROPOSED	
		RIGHT-OF-WAY
		CENTERLINE
		WATER LINE
SS	SS	SANITARY SEWER LINE
G	G	GAS LINE
SD	SD	STORM DRAIN
E	E	POWER LINE / POWER POLE
T	T	TELEPHONE LINE
		FIRE HYDRANT
		WATER VALVE
		METERS / PULL BOXES
		REDUCER
		MANHOLE
		CLEANOUT
		STREET LIGHT
		SEWER WYE
		SCREEN / RETAINING WALL
		WIRE OR CHAIN LINK FENCE
		TRASH ENCLOSURE
		GRATE BREAK
00	00	CONTOUR LINE
	FIN. FL. +0.00	FINISH FLOOR
0.00 C.O. INV.	0.00 C.O. INV.	CLEANOUT INVERT ELEVATION
0.00 F.L.	0.00 F.L.	FLOW LINE
0.00 FG	0.00 FG	FINISH GRADE
0.00 BSW	0.00 BSW	BACK OF SIDEWALK
0.00 FC	0.00 TC	TOP OF CURB
0.00 TOW	0.00 TOW	TOP OF WALL
		A.C. PAVING
		TYPE "L" CURB & GUTTER
		TYPE "A" CURB

IRRIGATION SYSTEM POINT OF CONNECTION

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

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 Centurion
   C. Clow Model 2846 Medallion
3. On any new home or building installation, accessible fire hydrants shall be installed before combustible construction commences and solid 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 locations.
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 physical 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 contractors material and test certificate for underground piping form 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 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 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 of the first story is located more than 150 feet from a fire department vehicle access. (See exceptions in UFC 88, Section 10.207).
16. 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 #3545

BUILDING DATA:

BUILDING "A"
TWO STORY
30,500 S.F.
TYPE III-N CONST.
SPRINKLERED REQUIRED FIRE FLOW
= 2813 G.P.M.

C L V SEWER NOTES

1. ALL SANITARY SEWER 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 NRCA, LATEST EDITION, UNLESS OTHERWISE NOTED.
2. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
3. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE II GRAVEL.
4. ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
5. 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.
6. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED PIPE FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
7. ALL ON-SITE SEWER TO BE PRIVATELY OWNED AND MAINTAINED.

NOTE:
SLEEVES FOR IRRIGATION SYSTEM TO BE SCH. 40 PVC AND TO BE EXTENDED 18" BEYOND CURBS

CONST. TYPE "A" D.I. (1/C4)
L=40'; D=2.00'
SEE SHT. C3 OF 6 FOR DETAILS

APPROVAL:

CITY OF LAS VEGAS FIRE DEPARTMENT — DATE 8/9/91

LAS VEGAS VALLEY WATER DISTRICT — DATE 8-26-91

8/26/91

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

1. NO WORK SHALL BEGIN ON WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE SHALL BE GIVEN TO LVWD CUSTOMER SERVICE DEPARTMENT (870-4191) 48 HOURS PRIOR TO ACTUAL CONSTRUCTION, AND 24 HOURS PRIOR TO AN INSPECTION.
2. CALL BEFORE YOU DIG 1-800-227-2600.
3. ALL WORK SHALL CONFORM TO LVWD LATEST STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS.
4. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADOPTION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
5. 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.
6. COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF ANNEALED TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS AND STANDARD PLATES.
7. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACP	DUCTILE IRON SLIP JOINT	DUCTILE IRON MECHANICAL JOINT
4" INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
6-12 INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
14-16 INCH	1.5 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 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 16" FOR 6" PIPE, 12" FOR 8" PIPE, AND 9" FOR 10" AND 12" PIPE.

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

8. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
9. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS
10. DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:
    a) OVER ALL WAVES NOT INSTALLED 6 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 200 PSI FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
12. ALL WATER MAINS SHALL BE DISINFECTED, FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAINS(S) AND/OR LATERAL(S) TO THE DISTRICT'S SYSTEM.
13. CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

QUANTITIES - ONSITE (ESTIMATE)

WATER	
4"X2" REDUCER	1 EA.
2" SERVICE W/METER W/RPPA	2 EA.
CONNECT TO EXIST. 8" W.L.	1 EA.
8"C-900 FIRE SERVICE	959 LF
6"C-900 FIRE SERVICE	37 LF
4"C-900 WATERLINE	536 LF
8" GATE VALVE	2 EA.
STD. FH. ASSEMBLY	2 EA.
8" DETECTOR CHECK	1 EA.
8"X8" TEE	2 EA.
8"X6" TEE	1 EA.

SEWER	
CONNECT TO EXIST SEWER LINE	1 EA
48" DIA. MH	1 EA.
4" CLEANOUT	2 EA.
6" CLEANOUT	1 EA.
6" PVC SDR 35 PIPE	493 LF
4" PVC	320 LF

OTHER	
GAS LINE (SEE SOUTHWEST GAS DESIGN)	725 LF

BENCHMARK

CHISELED "X" IN TOP OF CURB AT END OF CURB ON WEST SIDE OF DURANGO 250' SOUTH OF WESTCLIFF. ELEVATION PER CITY OF LAS VEGAS DATUM = 2610.16 FEET.

Avoid cutting underground utility lines. It's costly.
Call before you Dig.
1-800-227-2600

SCALE 1" = 50'

MARTIN & MARTIN assumes no responsibility for utility locations. The utilities shown on this drawing have been plotted from the best available information. It is, however, the contractors responsibility to field verify the location of all utilities prior to the commencement of any construction.

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SUMMERLIN

SUMMERLIN - VILLAGE TWO
MEDICAL OFFICE COMPLEX
PHASE I

UTILITY PLAN

no	description of revisions	date	name
1	GENERAL REVISION C.L.V. W.D.	8-1-91	M.E.H.
2	ELIMINATE DRAINAGE & I.S. STORM DRAIN AND IRRIGATION SYSTEM CONFLICTS	8-7-91	W.K.G.
3	PER CLV STAFF REPORT, PLAN REVISE	8-9-91	W.K.G.
4	REDUCE DRIVE INT. TO 25' PER VCLOD 1.2.94	8-26-91	W.K.G.
5	CHANGE LOCATION LENGTH (L) SEE WIDTH OF D2 TO AVOID IRRIGATION LINE FALLS STRAIGHT OUTFALL	1-10-92	W.K.G.

		CLV CITY ENGINEER
date	7-10-91	
job number	1067	
design by	M. HEDGE	
drawn by	R. YOUNG	
checked by	M. HEDGE	

sheet number

C 5 OF 6

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