LEGEND

- TELEPHONE VAULT
- ELECTRIC VAULT
- EXISTING HYDRANT
- WATER METER
- GATE VALVE
- EXISTING MANHOLE
- TRANSFORMER BOX
- POWER POLE
- ELEC. POWERBOX
- EXISTING STREETLIGHT
- CABLE TV BOX
- FIRE HYDRANT
- PROPOSED CLEANOUT
- PROPOSED MANHOLE
- PROPOSED STREETLIGHT
- PAINTED RED CURB (NO PARKING LANE)
- PAINTED WHITE BLOCK LETTERING-"NO PARKING FIRE LANE" (NOT LESS THAN 4" IN HEIGHT WITH A STROKE OF NOT LESS THAN 3/4" 50' TO FIT ON CURB)
- ENTRANCE WARNING SIGN

ESTIMATE OF ON-SITE QUANTITIES

WATER		SEWER	
FIRE HYDRANT ASSEMBLY	9 EA	8" PVC SEWER	2423 LF
3" GATEVALVE	13 EA	6" PVC SEWER	404 LF
8" GATEVALVE	10 EA	4" SERVICE LATERALS	61 EA
8" ELBOW	10 EA	48" MANHOLE	5 EA
3" ELBOW	10 EA	CLEANOUTS	31 E A
8"x8"x8" TEE	4 EA		
3"x3"x3" TEE	9 EA		
3" MISC. FITTINGS	8 EA		
8" MISC. FITTINGS	8 EA		
8" PVC WATER	3052 LF		
3" PVC WATER	3462 LF		
2" SERVICE LATERALS	61 EA		

ESTIMATE OF OFF-SITE QUANTITIES

WATER		SEWER	
FIRE HYDRANT ASSEMBLY	1 EA	8" PVC SEWER	52 LF
10"x8" TEE	2 EA	48" MANHOLE	1 EA
8"GV	2 EA		
8" PVC WATER	668 LF		

BENCHMARK

RIVET IN ALUMINUM PLATE @ NORTHEAST RETURN OF ALEXANDER AND TENAYA NO. 1LVOO3S4.
ELEVATION = 2324.89 (NAVD 88) STA. 6+31.44 ALEXANDER RD.

BASIS OF BEARING

THE NORTHERLY LINE OF THE NORTHEAST QUARTER OF SECTION 10, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M. WHICH BEARS NORTH 88°52'46" WEST AS SHOWN BY MAP IN THE OFFICE OF THE CLARK COUNTY NEVADA RECORDER IN FILE 64, PAGE 78, RECORDS OF SURVEY.

UTILITY NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

CALL BEFORE YOU DIG: 1-800-227-2600

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT — 7-17-95

CITY OF LAS VEGAS FIRE DEPARTMENT — 7-17-95

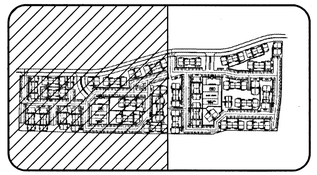
FIRE FLOW CALCULATION

FIRE FLOW REQUIREMENT IS 2750 GALLONS PER MINUTE AT 20 PSI RESIDUAL

BASED ON:
SQUARE FOOTAGE 10560 SF (LARGEST SINGLE BLDG)
BUILDING HEIGHT 2 STORIES
TYPE OF CONSTRUCTION TYPE V-N
SPRINKLER SYSTEM NO

SEWER FLOWS

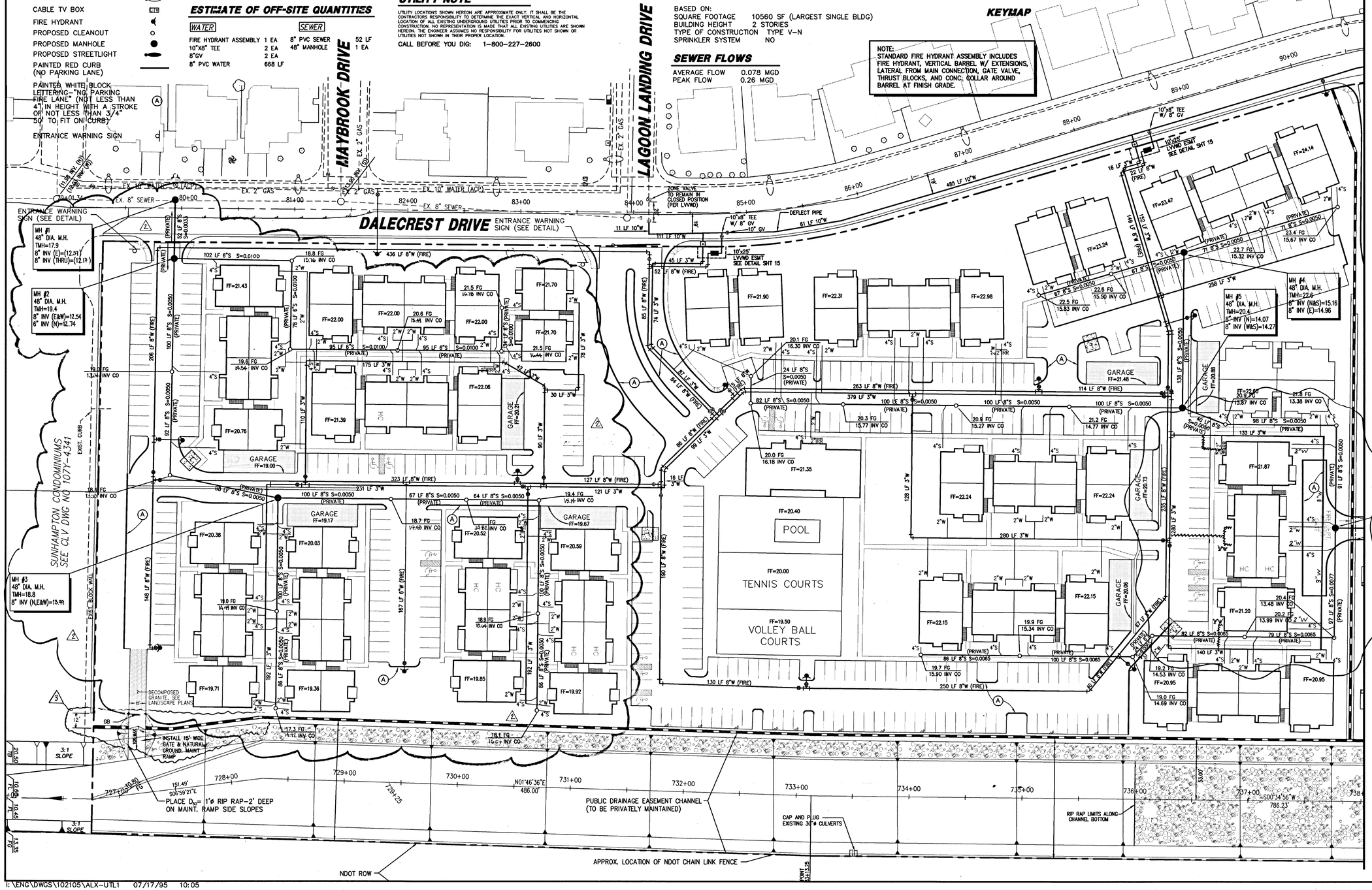
AVERAGE FLOW 0.078 MGD
PEAK FLOW 0.26 MGD



KEYMAP

NOTE:
STANDARD FIRE HYDRANT ASSEMBLY INCLUDES FIRE HYDRANT, VERTICAL BARREL W/ EXTENSIONS, LATERAL FROM MAIN CONNECTION, GATE VALVE, THRUST BLOCKS, AND CONC. COLLAR AROUND BARREL AT FINISH GRADE.

ENTRANCE WARNING SIGN DETAIL
NOT TO SCALE



Call before you Dig. 1-800-227-2600

REVISIONS			
NO.	DESCRIPTION/DATE	BY	
1	WATER + SEWER		
2	REVISE SEWER SOUTH		
3	WALL REVISION 7-6-95	R.	

PROFESSIONAL ENGINEER - STATE OF NEVADA — ROBERT F. EYNCK — 7-21-95 — CIVIL — No. 9135

1100 GRIER DRIVE
LAS VEGAS, NEVADA 89119
PHONE (702) 361-9050
FAX (702) 361-0659
Incorporated
CONSULTING ENGINEERS
NEVADA

MASTER UTILITY PLAN
A.G. SPANOS ALEXANDER APARTMENTS

CLARK COUNTY
CITY OF LAS VEGAS

JOB NO.:	2-102-105
ACAD FILE:	ALX-UTL1
DESIGNED:	RFE
DRAWN:	TL
CHECKED:	RFE
DATE:	JULY 1995

6

6 OF 21 SHEETS

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