LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

1. No work shall begin until the water plans have been released for construction by the LVWD. Following water plan approval, 48 hour notice shall be given to the LVWD Communication Support Center (258-7171) prior to the start of construction. Notice must be given by 2:00 p.m. the buisness day prior to a LVWD inspection.

2. All work shall conform to LVWD Standard Plates, Drawings, and Specifications, and the Uniform Design and Construction Standards for Water Distribution Systems (UDACS), latest edition.

3. All work, except as modified by these plans or by note 2, shall be done in accordance with the most current draft or edition of th Uniform Standard Specifications for the Public Works Construction Offsite improvment, Clark County Area.

4. A single pipe material shall be used throughout the project unless otherwise approved by the LVWD.

5. All service laterals two (2) inches in diameter and smaller shall be copper tubing with LVWD approved service saddles.

6. All meter boxes shall be located outside of driveway areas.

7. All valves shall be located outside of driveways, valley and curb gutters.

8. The following requirements must be met in the event of a water line and sanitary or storm sewer line cross. A minimum eighteen (18) inch vertical separation (outside to outside) must be maintained when the water line is installed over the sanitary or storm sewer line. If the vertical separation cannot be maintained or the water line must be placed under the sanitary or storm sewer line, the sanitary or storm sewer line must be constructed with one of the following or, as shown on these plans:

a. Potable water supply material,
b. Encasement, with four (4) inch concrete (minimum)
c. Sleeving with potable water supply quality pipe.

Each provision must extend along the sanitary or storm sewer, on either side of the main, a minimum 10 foot distance perpendicular to the water main exterior.

9. Warning tape shall be required over all mains, all six (6) inch diameter and larger service laterals, and any service lateral not installed perpendicular to the main in accordance with Standard Plate No. 27.

10. All water facilities shall be filled, disinfected, pressure tested, flushed, filled and an acceptable water sample obtained, prior to connection to the LVWD's distribution system.

11. The contractor must obtain all meters two (2) inches anf smaller from LVWD Central Stores. Telephone 258-3152 forty-eight (48) hours prior to pickup.

12. Construction may interupt service, with LVWD approval and proper notification, between the hours of 10 PM and 6 AM, Sunday through Thrusday. Circumstances may require temporary service feeds be installed, without LVWD reimbursment. Any temporary service feed must have prior LVWD approval.

13. All water facility construction materials used must be as listed on the LVWD's Pre-approved Materials and Manufacturers Listing for New Facilities, latest revision, or specifically approved on these plans.

CITY OF LAS VEGAS SEWER CONSTRUCTION GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR OTHER CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.

3. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.

4. CHISEL "S" IN CURBS WHERE SEWER LATERALS PASS UNDER THE CURB.

5. POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS.

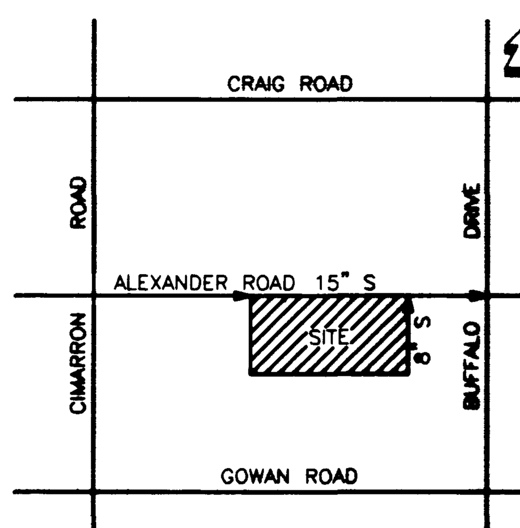
6. ALL MANHOLES ON PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.

7. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" IN DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.

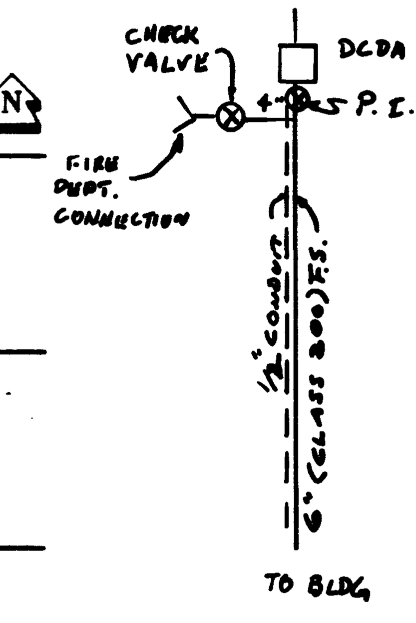
8. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MUST BE REINFORCED CONCRETE ENCASED PIPE FOR A DISTANCE NOT LESS THAN 10 FEET TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.

9. THE CITY OF LAS VEGAS WILL NOT EXCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.01) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

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



VICINITY MAP
NO SCALE



DETAIL "B"
N.T.S.

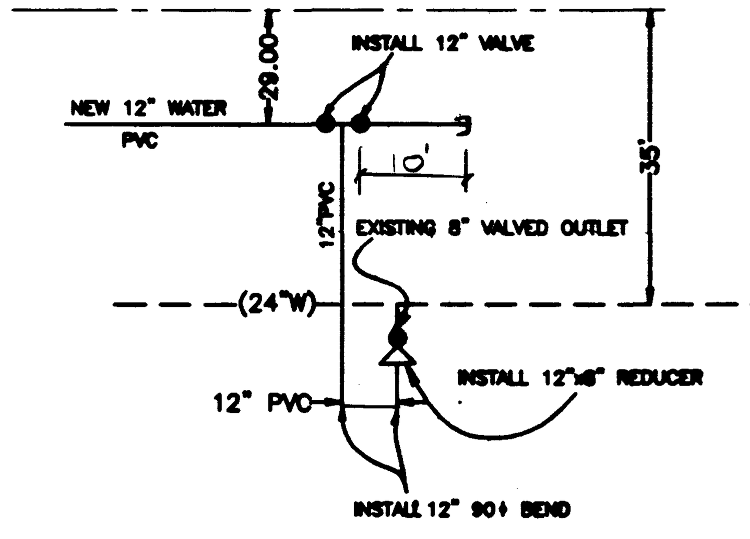
QUANTITIES

SEWER (PRIVATE)

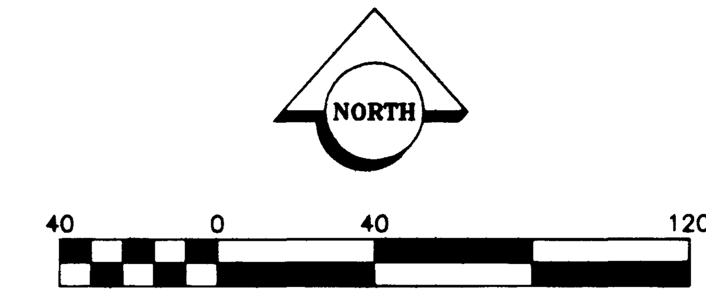
1.	6" SEWER	20 L.F.

WATER (PUBLIC)

1.	12" WATER	727 L.F.
2.	FIRE HYDRANT	3 EACH
3.	2" CAV	2 EACH
4.	2" METER & SERVICE (COPPER)	1 EACH
5.	2" RPPA	1 EACH
6.	6" FIRE SERVICE	160 LF
7.	6" DCDA	1 EACH



DETAIL "A"

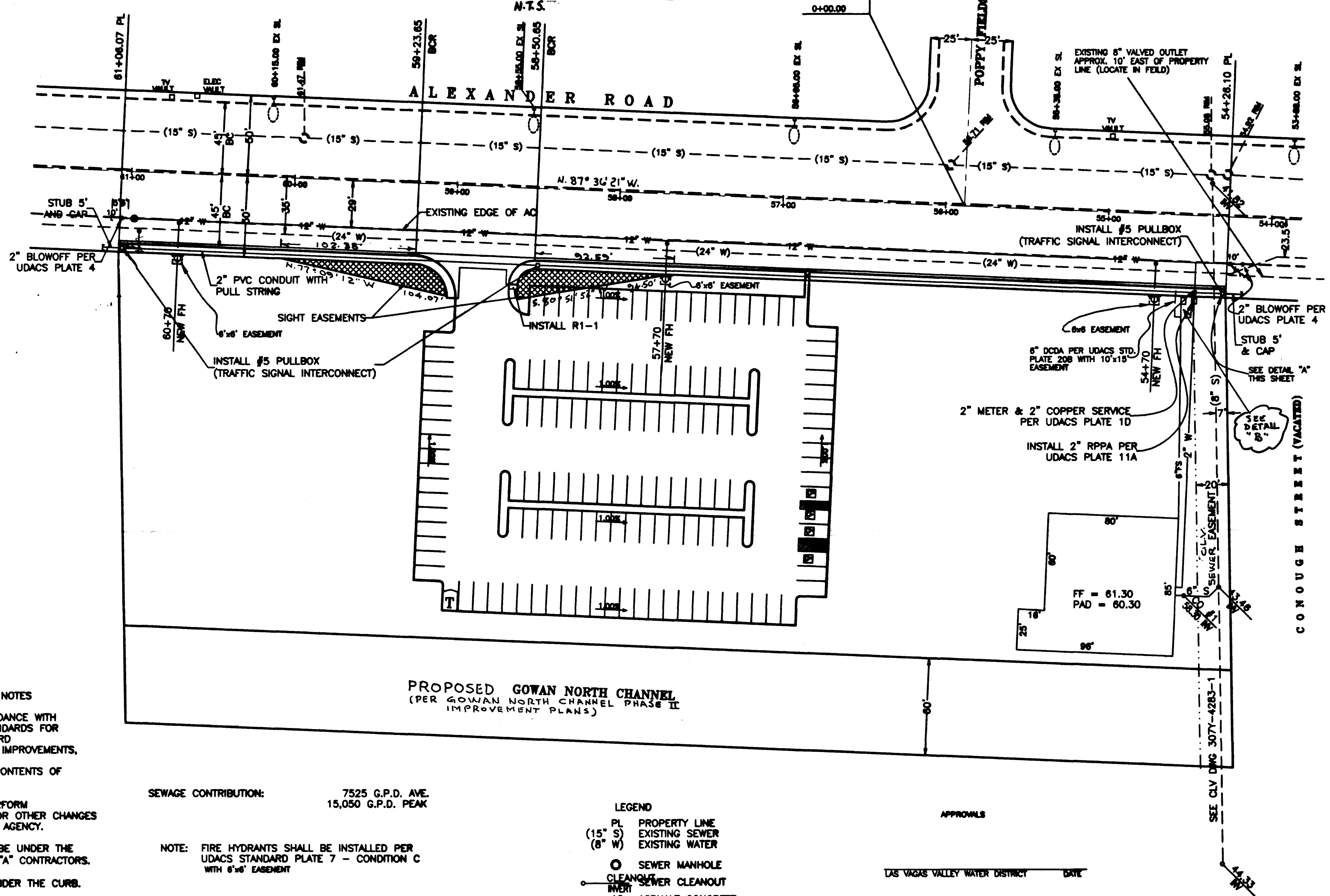


Scale 1" = 40'

INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 20B.

ANY BLOCK WALL OR OTHER FENCING MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW DISTRICT DIRECT ACCESS TO THE VUALT(S) FROM THE ADJACENT RIGHT OF WAY.



SEWAGE CONTRIBUTION: 7525 G.P.D. AVE.
15,050 G.P.D. PEAK

NOTE: FIRE HYDRANTS SHALL BE INSTALLED PER UDACS STANDARD PLATE 7 - CONDITION C WITH 6'x6' EASEMENT

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT	1500 G.P.M.
SQUARE FOOTAGE	7216 SQ. FT.
NO AREA SEPARATION WALLS	
BUILDING HEIGHT	25 FT.
NUMBER OF STORIES	1
TYPE OF CONSTRUCTION	V - N
OCCUPANCY	B
FULL AUTOMATIC SPRINKLER SYSTEM	YES

REVIEWED BY: [signature]

DATE: 7-17-98

LEGEND

PL	PROPERTY LINE
(15" S)	EXISTING SEWER
(8" W)	EXISTING WATER
O	SEWER MANHOLE
CLEANOUT INVERT	SEWER CLEANOUT
AC	ASPHALT CONCRETE
12" W	NEW WATER
6" S	NEW SEWER
FF	FINISH FLOOR
INV	INVERT
	STREET LIGHT
BCR	BACK OF CURB RADIUS
LF	LINEAR FEET
	NEW FIRE HYDRANT
BC	BACK OF CURB
●	WATER VALVE

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT DATE

REDUCED PRESSURE PRINCIPLE ASSEMBLY

APPROVED REDUCED PRESSURE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A OR 11B. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULY TESTED BY THE L.V.V.W.D.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUT SIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT ACCESS FROM THE ADJACENT RIGHT OF WAY.

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 #3944.

2. Authorized hydrants for this project are:

A: Kennedy Guardian
B: Meuller A-423 Centurian
C: Clow Model 2546 Medallion

3. 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 adequate water supply.

4. 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.

5. Call the Las Vegas Building Department at 229-2071 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 neccessary for protection of hydrants from physical damage per Ordinance #3944 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. Private fire hydrants shall be painted red.

9. A flow test must be witnessed by the Fire Department prior to occupancy for verification of required on-site water supply.

10. All on-site fire main materials must be U.L. listed and A.W.W.A. approved.

11. Fire hydrant spacing: Residential - 500 feet unsprinklered, 1,000 feet sprinklered.

Commercial, including multi-family - 300 feet unsprinklered, 600 feet sprinklered.

12. Where 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.

13. No fire hydrant shall be located within the required cul-de-sac or within 20 feet of the perimeter of the radius of the cul-de-sac.

14. No fire hydrant shall be located within 6 feet of any curb return, driveway, power pole, street light or any other obstruction.

15. Two sources of supply are required whenever there are 4 or more fire hydrants installed on a single system.

16. Not more than 2 hydrants can be out of service due to a single main break.

17. 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 both sides. Vertical clearance shall be not less than 13 feet 6 inches.

18. 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.

19. 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).

20. 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.

21. 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.

22. 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 guidline for Automatic Emergency Vehicle Access Gates.

PROJECT NAME: MEADOWS FELLOWSHIP CHURCH

This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is
NOT APPROVED FOR CONSTRUCTION
at this time and this signature does not provide or imply a water commitment.

[signature] 6-19-98
LVWD DATE

JEFFREY BILLINGSLEY 19 JUN 98 CIVIL No. 3562 PROFESSIONAL

NO.	DATE	BY	REVISION	APPROVAL

AZIMUTH
ENGINEERING & SURVEYING INC.
16 W. PACIFIC AVE., SUITE 11
HENDERSON, NEVADA 89015
(702) 564-6644

MEADOWS FELLOWSHIP CHURCH
UTILITY PLAN
LAS VEGAS NEVADA

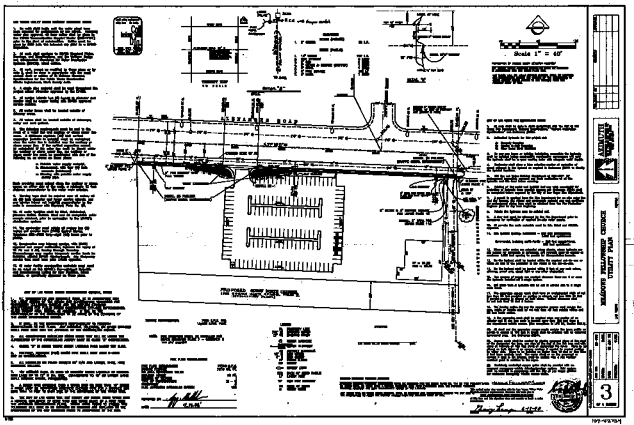
JOB NO:	96-005
DRAWN:	D.S.B.
DATE:	12 JUN 98
CHECKED:	G.H.B.

3
OF 4 SHEETS

C:\JOBS\1996\96-005\96-005-3.DWG

11186

107-V2734



Scale 1" = 40'
ALEXANDER ROAD
PROPOSED
MEADOWS FELLOWSHIP CHURCH
UTILITY PLAN
3

107-42734