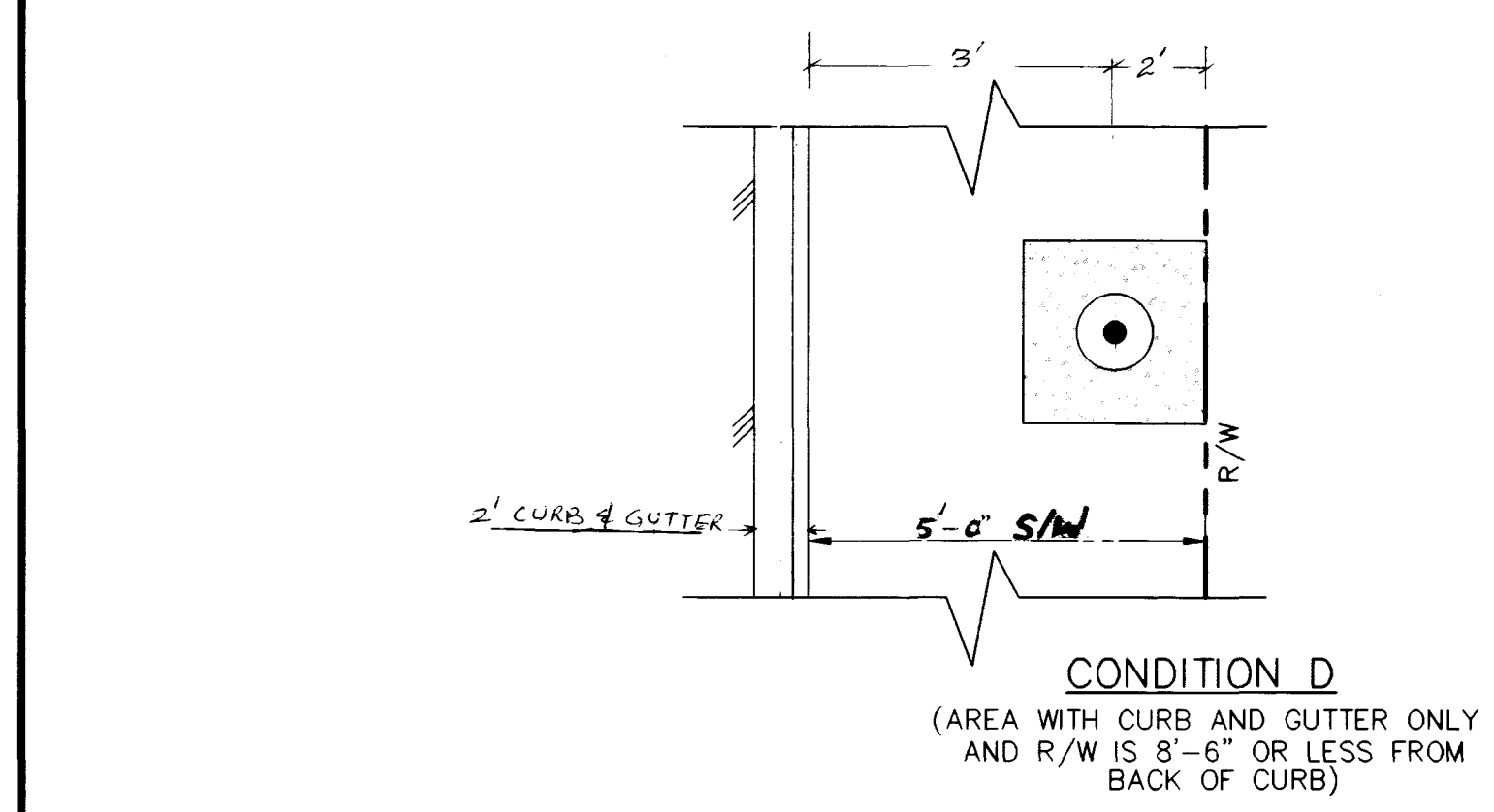
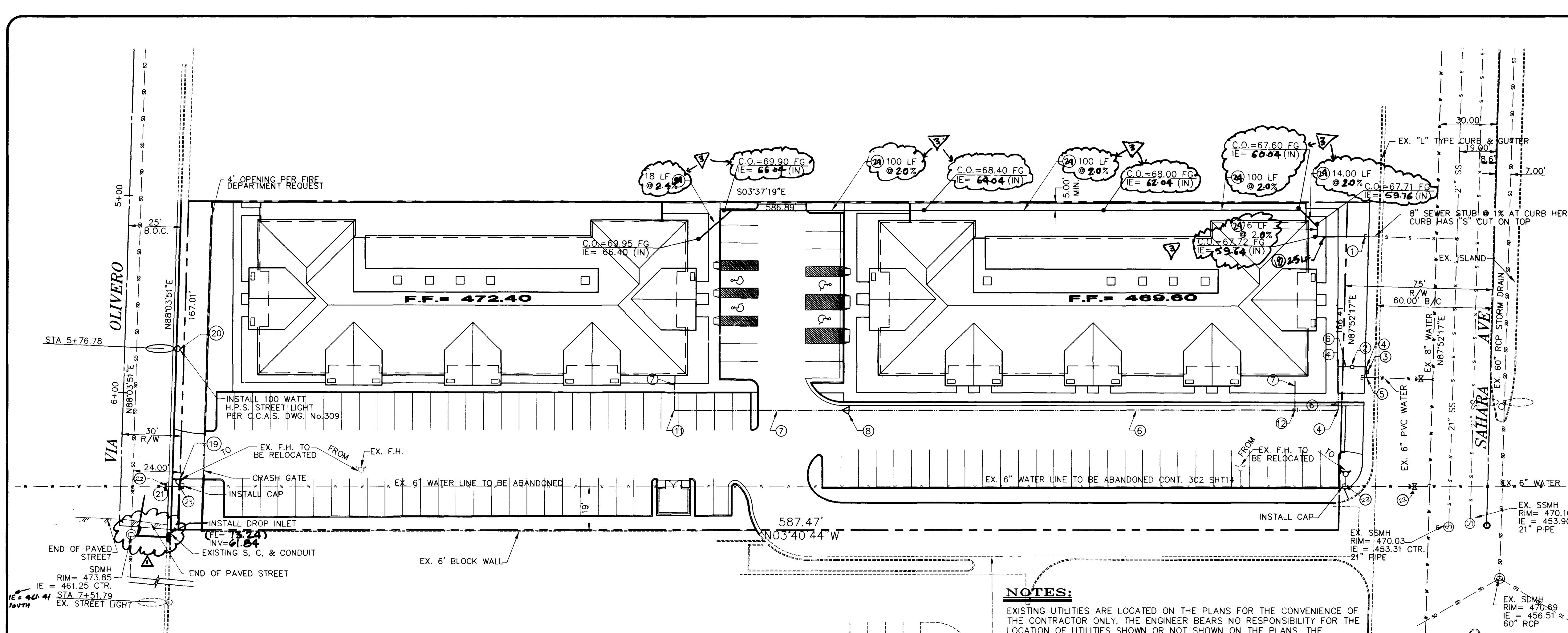




FIRE HYDRANT DETAIL
N.T.S.

Note:
KENNEDY F.H. TO BE REPLACED.
CALL: 258-3988 JIM ALLEN
WILL DELIVER TO SITE
CALL: 258-3908

PROJECT NAME: FIELD OFFICE BUILDING
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.
James E. Pinder 9-15-98
LVVWD DATE

LVVWD WATER NOTES:

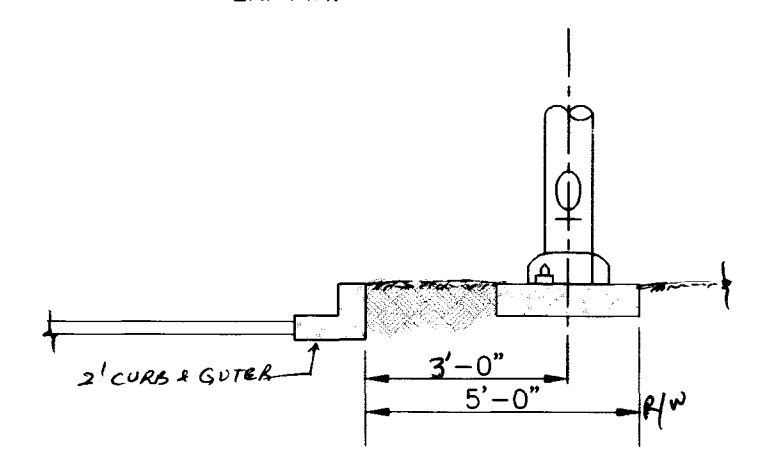
1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOURS NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATIONS SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO LVVWD INSPECTION.
2. ALL WORK SHALL CONFORM TO THE LVVWD'S STANDARD PLATES, DRAWINGS, AND SPECIFICATION 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 THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY & CURB GUTTERS.
8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT 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 QUALITY MATERIAL
B. ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MIN.)
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 ACCEPTANCE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 48 HOURS PRIOR TO PICKUP.
12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 P.M. AND 6 A.M. SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEEDS BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT, ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.
13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

NOTES:

EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE ENGINEER BEARS NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE STARTING CONSTRUCTION AND, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES WITH THE UTILITY COMPANIES.

SEWER CONTRIBUTION:
AVERAGE DAILY FLOW 63 GPM
PEAK FLOW 110 GPM

ST. LT. LOCATION DETAIL



Avoid cutting underground utility lines. It's costly.

Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE ALERT (USA)



CALL 1-702-593-6111

REDUCED PRESSURE PRINCIPLE ASSEMBLY

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A, NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

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

ESTIMATE OF QUANTITIES

1	REMOVE EX. CAP AND INSTALL 6" PVC SEWER	(PUBLIC)	1 EA.
2	INSTALL 1-1/2" RPPA	(PUBLIC)	1 EA.
3	INSTALL 1-1/2" WATER METER PER UDACS PLATE No.1D	(PUBLIC)	1 EA.
4	INSTALL 2"x90" BEND	(PRIVATE)	1 EA.
5	INSTALL 1/2" WATER SERVICE UDACS PLATE No.11A PLATE 512	(PRIVATE)	1 EA.
6	INSTALL 2" WATER LINE	(PRIVATE)	262 LF
7	INSTALL 1-1/2" WATER LINE	(PRIVATE)	116 LF
8	INSTALL 2"x1-1/2" REDUCER	(PRIVATE)	2 EA.
11	INSTALL 1-1/2"x90" BEND	(PRIVATE)	2 EA.
12	INSTALL 2"x2"x1-1/2" TEE	(PRIVATE)	1 EA.
17	INSTALL 6" CLEAN OUT	(PRIVATE)	7 EA.
18	INSTALL 6" ABS SEWER	(PRIVATE)	25 LF
19	RELOCATE 6" F.H. ASSEMBLY PER UDS PLATE No.7	(PUBLIC)	10 LF
20	INSTALL 1-1/4" CONDUIT	(PUBLIC)	167 LF
21	INSTALL 18" RCP CLASS III	(PUBLIC)	17 LF
22	INSTALL 6" GATE VALVE PER STD. DRAWING NO.516	(PUBLIC)	2 EA.
23	INSTALL 6" x 6" x 6" TEE	(PUBLIC)	2 EA.
24	INSTALL 1" ABS SEWER	(PUBLIC)	32 LF

VICINITY MAP
N.T.S.

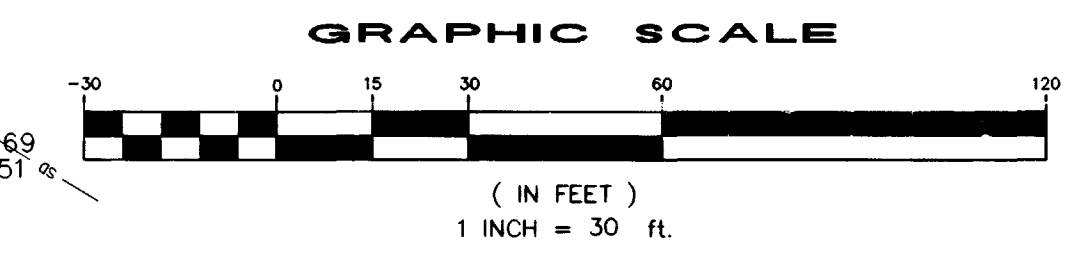
BENCHMARK:
CITY OF LAS VEGAS BENCHMARK ID# 7C1010N4 RIVET AND SQUARE ALUMINUM PLATE NORTHEAST CORNER OF FIRE HYDRANT BASE, 400 FT. SOUTH OF SAHARA AVE. WEST SIDE OF TENAYA WAY.
ELEV = 747.919 METERS (NAVD 88)
= 2453.80 FEET (NAVD 88)

BASIS OF BEARING:

BEING THE CENTER LINE OF SAHARA AVE. AS SHOWN IN FILE 83 PAGE 94 OF SURVEYS OFFICIAL RECORDS CLARK COUNTY RECORDER BEING S875217"W
REFERENCE: RECORD OF SURVEY FILE 83 PAGE 94

LEGAL DESCRIPTION

BEING A PORTION OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 3, TOWNSHIP 21S, RANGE 61E, M.D.M., CITY OF LAS VEGAS, NEVADA



LEGEND:

- EX. FIRE HYDRANT
- EX. WATER VALVE
- PROPOSED WATER LINE
- PROPOSED SEWER
- PROPERTY LINE
- CENTERLINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING GAS LINE
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN MANHOLE
- STORM DRAIN MANHOLE
- EXISTING TELEPHONE LINE
- EXISTING STORM SEWER LINE
- ACRYLONITRILE-BUTADIENE-STYRENE
- ABS

FIRE FLOW CALCULATIONS:

FIRE FLOW REQUIREMENTS IS 3500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE
BASED ON:
SQUARE FOOTAGE OF LARGEST BUILDING 17,440 SQ. FT.
LARGEST AREA BETWEEN 4-HR SEPARATION WALL N/A SQ. FT.
BUILDING HEIGHT 35 FEET
NUMBER OF STORIES 2 FLOOR
TYPE OF CONSTRUCTION VN
OCCUPANCY COMMERCIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM NO

James E. Pinder 9-16-98
FIRE DEPARTMENT APPROVAL

LAS VEGAS VALLEY WATER DISTRICT DATE

REVISIONS:
A RELOCATED DEPT. W/LET 12/97
A WATER SERVICE SIZE REVISION 10/98
A SEWER SIZE & SLOPE REVISION 10/98

ACE ENGINEERING
5601 N. TENAYA WAY,
SUITE 105, LAS VEGAS, NV 89150
PHONE: 702-596-5858, FAX 702-596-7992

A.P.N. 140-30-504-002

UTILITY PLAN

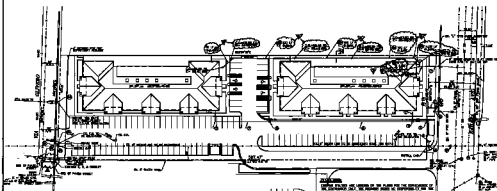
AT SAHARA AVE. WEST OF TENAYA WAY
FIELDS OFFICE BLDG.

DATE: 11/18/97
JOB # 98-182
DWG. BY: C.C.

C3

SHEET
3 OF 4

107-V2902



UNDERGROUND
 CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS AND
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