

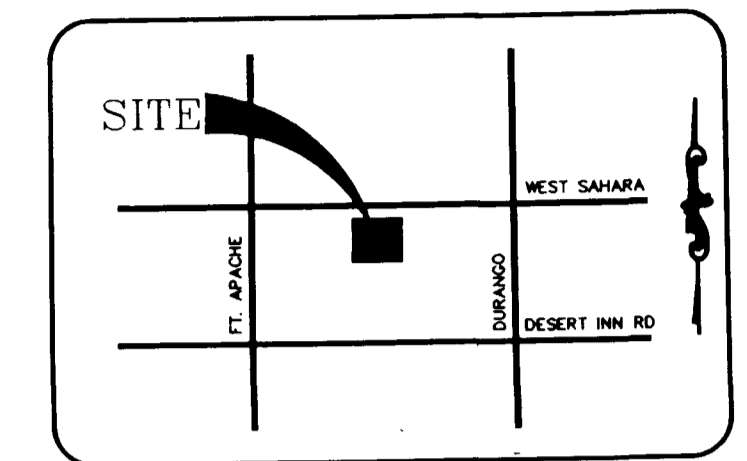
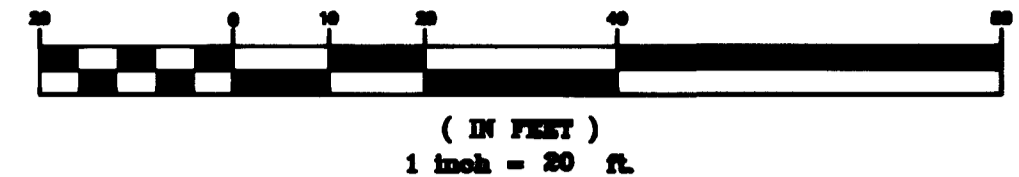
**WATER TABLE**

PIPE#	SIZE	TYPE	LENGTH
1	1"	COPPER	1'
2	1"	COPPER	3'
3	3/4"	COPPER	1'
4	3/4"	COPPER	3'
5	3/4"	SCH 40	8'
6	3/4"	SCH 40	84'
7	3/4"	SCH 40	4'

**SEWER TABLE**

PIPE#	SIZE	TYPE	LENGTH	SLOPE
1	6"	SDR35	83'	1%
2	6"	SDR35	34'	1%
3	4"	SDR35	4'	2%

**GRAPHIC SCALE**



VICINITY MAP

**WATER CONSTRUCTION NOTES**

- ① NOT USED
- ② INSTALL 3/4" X 3/4" X 6" TEE WITH THRUST BLOCKS
- ③ INSTALL 3/4" WATER METER PER UDACS PL# 1D
- ④ INSTALL 3/4" RPPA PER UDACS PL# 11A
- ⑤ NOT USED
- ⑥ INSTALL 3/4" 90° BEND WITH THRUST BLOCKS

**FIREFLOW DATA**

FIRE FLOW REQUIREMENT IS : 1,750 gpm AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE : 4,000 SQUARE FEET

LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A SQUARE FEET

BUILDING HEIGHT: 20 FEET

NUMBER OF STORIES : 1 FLOOR

TYPE OF CONSTRUCTION : V-N\_HR

OCCUPANCY : C-P (PROFESSIONAL OFFICE)

FULL AUTOMATIC FIRE SPRINKLER SYSTEM : NONE

REVIEWED BY : *[Signature]*

DATE : 2-5-99

BY: *[Signature]* 2-5-99

APPROVAL OF THESE PLANS SHALL NOT BE DATE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

FIRE FLOW 1,750 GPM AT 20 P.S.I. RESIDUAL.

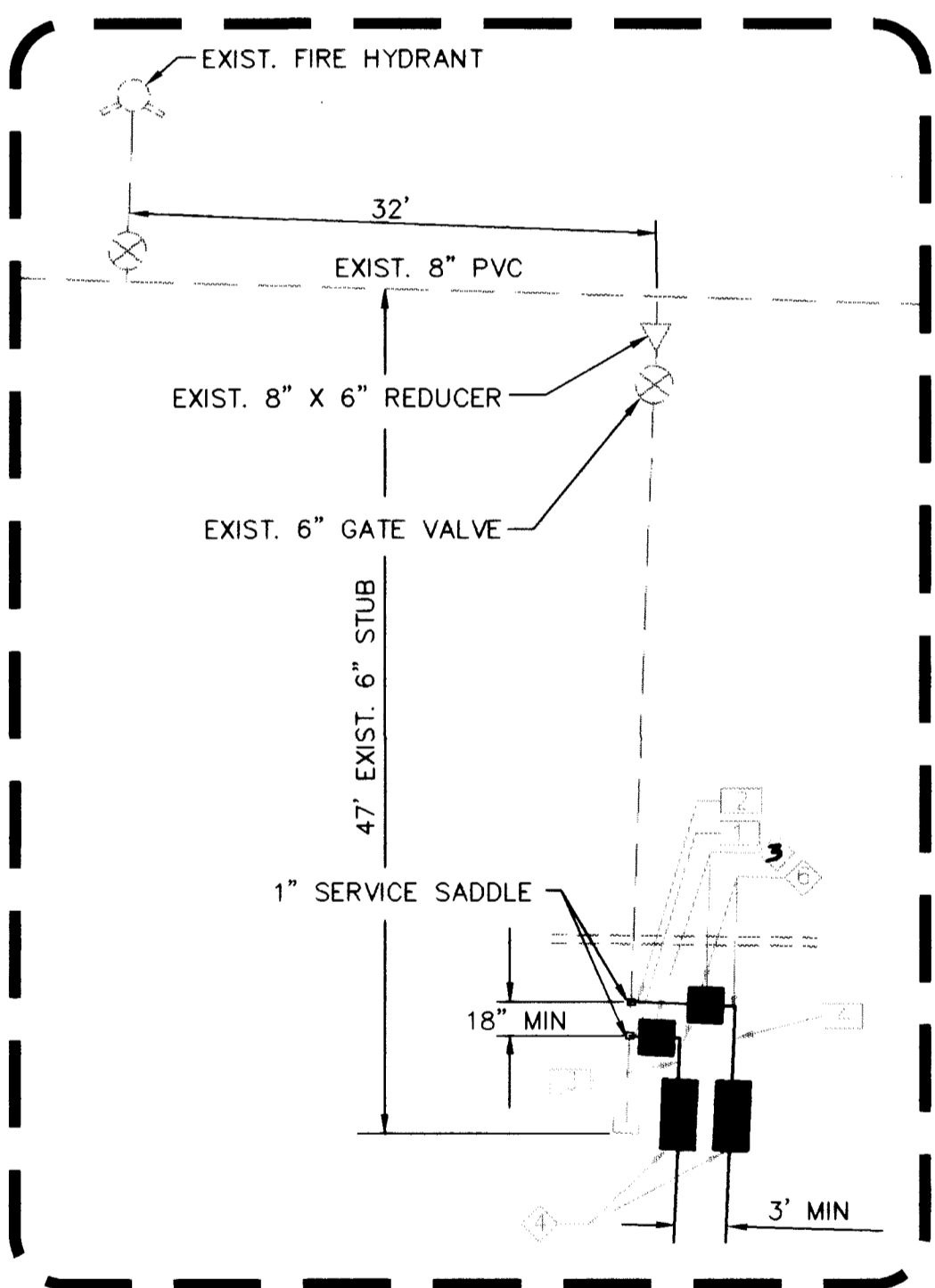
LARGEST BUILDING AREA = 17,090 SF

BLDG. CONSTRUCTION TYPE IS = V-N

BLDG. SPRINKLER SYSTEM [ ] YES [X] NO

REQUIRED SPRINKLER FIRE FLOW IS = N/A

EXIST. STATIC WATER PRESSURE = 91 PSI



**DETAIL "A"**

N.T.S.

**REDUCED PRESSURE PRINCIPLE ASSEMBLY**

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PRE 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.

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

**LAS VEGAS VALLEY WATER DISTRICT**

*[Signature]* 3/2/99 DATE

PROJECT NAME: LAKES BUSINESS PARK LOT 27

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]* 2-11-99 DATE

CALL BEFORE YOU OVERHEAD !!  
1-702-593-6111  
CALL BEFORE YOU DIG !!  
1-800-227-2600

**LVVWD NOTES**

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
2. ALL WORK SHALL CONFORM TO THE LVVWD'S STANDARD PLATES, DRAWINGS & SPECIFICATIONS, AND THE UNIFORM DESIGN & CONSTRUCTION STANDARDS FOR THE 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 IMPROVEMENT, 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 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 A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:  
A. 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 (MINIMUM) SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.  
C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
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 LVVWD'S DISTRIBUTION SYSTEM.
11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, 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.

SCALE (H) 1"=20'

SCALE (V) 1"=20'

DESIGN BY JHC

DRAWN BY JHC

REV. #

DATE

DESCRIPTION

APPROVAL

**TETRA**  
Civil Engineering - Land Planning  
2000 Chandler Ave., Suite 6  
Las Vegas, Nevada 89120  
Phone (702) 798-8545  
Fax (702) 798-8888

LAKES BUSINESS PARK LOT 27

UTILITY PLAN

JAMES H. CHILDS  
2/5/99  
G.E.I.L.  
10211117

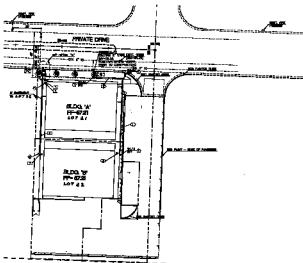
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**WATER TABLE**

TYPE	SIZE	TYPE	DEPTH
100	4"	WATER	4'
100	4"	WATER	5'
100	4"	WATER	6'
100	4"	WATER	7'
100	4"	WATER	8'
100	4"	WATER	9'
100	4"	WATER	10'

**SEWER TABLE**

TYPE	SIZE	TYPE	DEPTH
100	4"	SEWER	4'
100	4"	SEWER	5'
100	4"	SEWER	6'
100	4"	SEWER	7'



**WATER CONSTRUCTION NOTES**

- 1. SEE PLAN
- 2. INSTALL 4" P.V.C. 40' PER 100' GRADE SLOPE
- 3. INSTALL 4" P.V.C. 40' PER 100' GRADE SLOPE
- 4. SEE PLAN
- 5. INSTALL 4" P.V.C. 40' PER 100' GRADE SLOPE

**FOUNDATION DATA**

FOR THE FOUNDATION OF A 10' x 10' FT. AT THE SEWER PUMP.

GRADE: 100.00

FOUNDATION: 12" x 12" CONCRETE

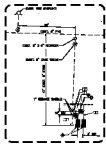
FOOTING: 12" x 12" CONCRETE

WALL: 12" x 12" CONCRETE

SLAB: 4" THICK CONCRETE

DATE: 10/1/88

BY: [Signature]



**DETAIL 'A'**

**REINFORCING PRINCIPLE ASSEMBLY**

REINFORCING PRINCIPLE ASSEMBLY

FOR THE FOUNDATION OF A 10' x 10' FT. AT THE SEWER PUMP.

GRADE: 100.00

FOUNDATION: 12" x 12" CONCRETE

FOOTING: 12" x 12" CONCRETE

WALL: 12" x 12" CONCRETE

SLAB: 4" THICK CONCRETE

DATE: 10/1/88

BY: [Signature]

**LAS VEGAS VALLEY WATER DISTRICT**

[Signature]

DATE: 10/1/88

BY: [Signature]

CALL OFFICE THE ENGINEER

1-702-666-6333

CALL NUMBER YOU SEE IN

1-800-328-2600

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL AGENCIES.
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LAKE BUSINESS PARK  
LOT 27  
UTILITY PLAN

**TETRA**  
ENGINEERS & ARCHITECTS

1000 S. LAS VEGAS BLVD.  
SUITE 100  
LAS VEGAS, NV 89101

DATE: 10/1/88  
BY: [Signature]

SHEET  
5 of 8  
JOB# 88014

107-05008