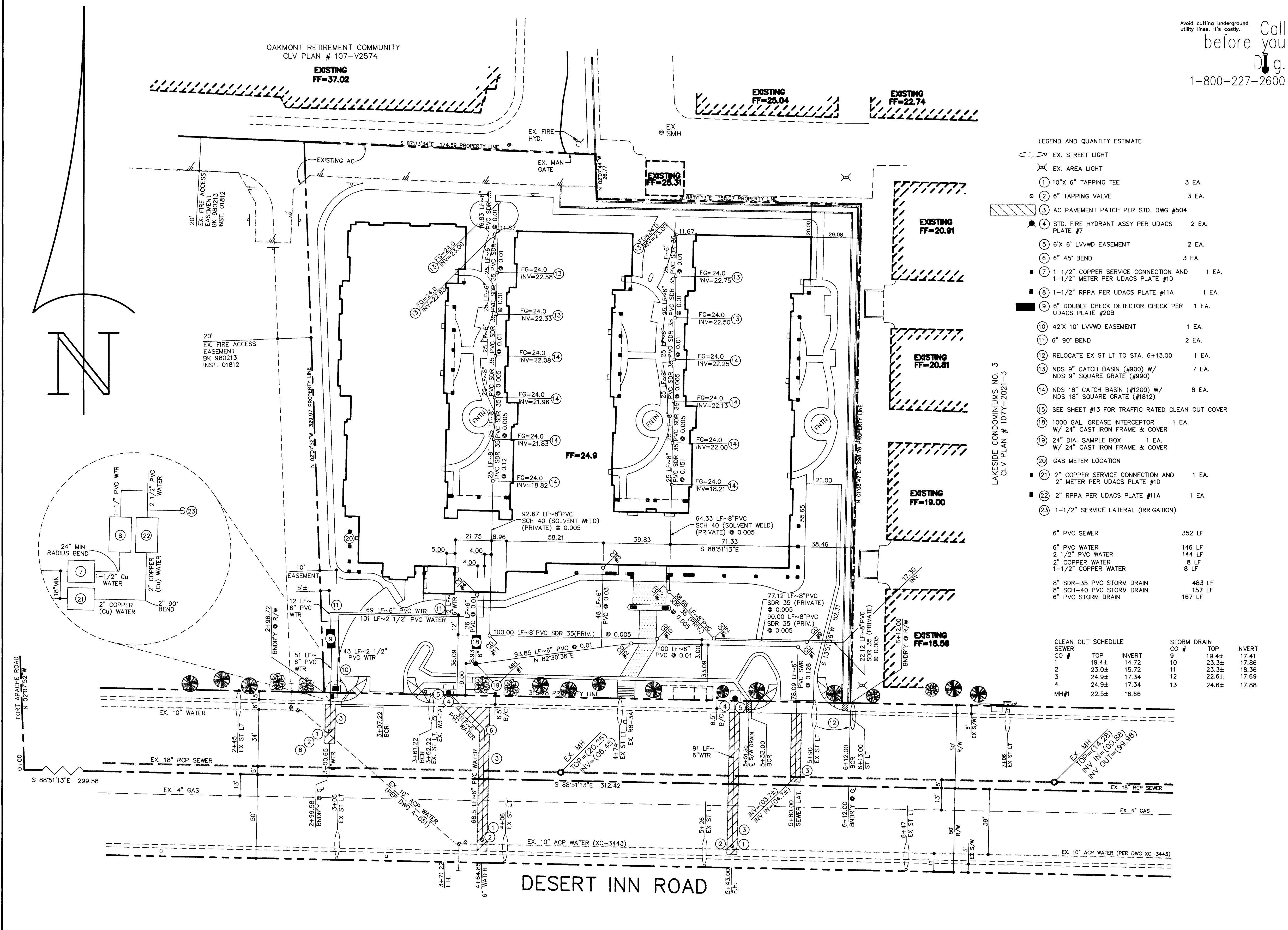
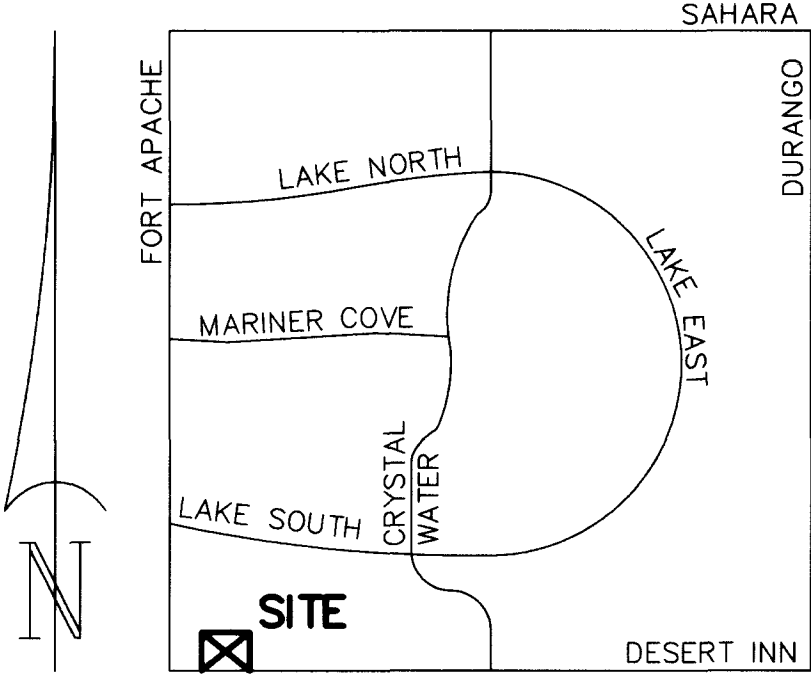
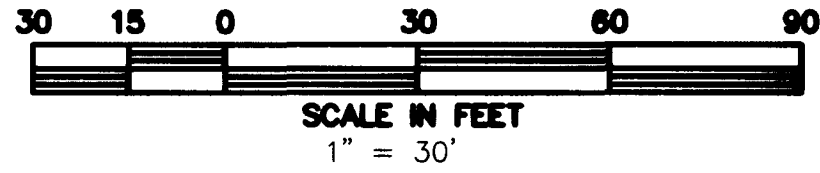




Avoid cutting underground utility lines. It's costly.  
Call before you dig.  
1-800-227-2600

**BASIS OF BEARINGS**  
S 88°51'13" E, BEING THE SOUTH LINE OF THE SW 1/4 SECTION 8, T.21S., R.60E., M.D.M., AS SHOWN IN BOOK 73, PAGE 90, OF PLATS.

**BENCHMARK**  
CITY OF LAS VEGAS BENCH MARK # 1LV10 7SES BEING A RIVET AND PLATE IN THE TOP OF CURB NW RETURN OF DESERT INN ROAD AND FORT APACHE ROAD. ELEV=832.1847 METERS (2730.26 FEET) NAVD 88



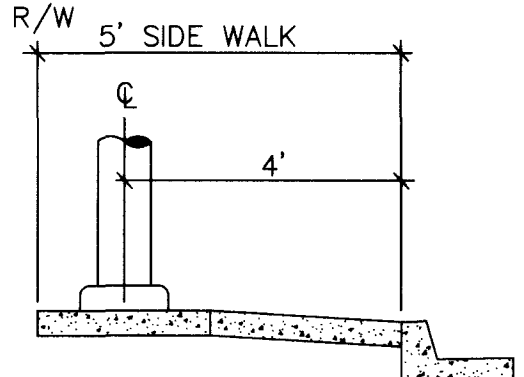
**LOCATION**

8" SEWER DISCHARGES INTO 18" SEWER IN DESERT INN RD

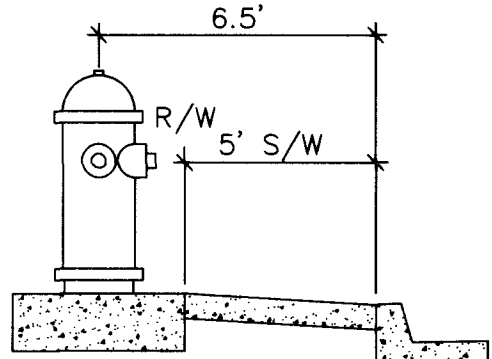
**SEWER CONTRIBUTION**  
AVERAGE FLOW = 0.15 MGD  
PEAK FLOW = 0.525 MGD

**LAS VEGAS FIRE DEPT.**

FIRE FLOW IS 1875 GPM AT 20 PSI RESIDUAL PRESSURE  
BASED ON:  
SQUARE FOOTAGE: 41,175 SQ. FT.  
AREA BETWEEN 4-HOUR SEPARATION WALLS: 41,175 SQ. FT.  
BUILDING HEIGHT: NONE  
TYPE OF CONSTRUCTION: 19 FT. V-1 HR  
NUMBER OF STORIES: 1 EA.  
OCCUPANCY RATING: B  
AUTOMATIC FIRE SPRINKLER SYSTEM: YES



**STREET LIGHT DETAIL**



**FIRE HYDRANT DETAIL**

**CONSTRUCTION NOTE**

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E., WV, BOX, WMH, ANNODE BOX, FH, TEL BOX, ETC.)

**NOTE**

ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

**LEGEND AND QUANTITY ESTIMATE**

- EX. STREET LIGHT
- EX. AREA LIGHT
- 10"X 6" TAPPING TEE 3 EA.
- 6" TAPPING VALVE 3 EA.
- AC PAVEMENT PATCH PER STD. DWG #504
- STD. FIRE HYDRANT ASSY PER UDACS PLATE #7 2 EA.
- 6'X 6" LVVMD EASEMENT 2 EA.
- 6" 45° BEND 3 EA.
- 1-1/2" COPPER SERVICE CONNECTION AND 1-1/2" METER PER UDACS PLATE #10 1 EA.
- 1-1/2" RPPA PER UDACS PLATE #11A 1 EA.
- DOUBLE CHECK DETECTOR CHECK PER UDACS PLATE #20B 1 EA.
- 42'X 10' LVVMD EASEMENT 1 EA.
- 6" 90° BEND 2 EA.
- RELOCATE EX ST LT TO STA. 6+13.00 1 EA.
- NDS 9" CATCH BASIN (#900) W/ NDS 9" SQUARE GRATE (#990) 7 EA.
- NDS 18" CATCH BASIN (#1200) W/ NDS 18" SQUARE GRATE (#1812) 8 EA.
- SEE SHEET #13 FOR TRAFFIC RATED CLEAN OUT COVER
- 1000 GAL. GREASE INTERCEPTOR W/ 24" CAST IRON FRAME & COVER 1 EA.
- 24" DIA. SAMPLE BOX 1 EA.
- W/ 24" CAST IRON FRAME & COVER 1 EA.
- GAS METER LOCATION
- 2" COPPER SERVICE CONNECTION AND 2" METER PER UDACS PLATE #10 1 EA.
- 2" RPPA PER UDACS PLATE #11A 1 EA.
- 1-1/2" SERVICE LATERAL (IRRIGATION)

|                           |        |
|---------------------------|--------|
| 6" PVC SEWER              | 352 LF |
| 6" PVC WATER              | 146 LF |
| 2 1/2" PVC WATER          | 144 LF |
| 2" COPPER WATER           | 8 LF   |
| 1-1/2" COPPER WATER       | 8 LF   |
| 8" SDR-35 PVC STORM DRAIN | 483 LF |
| 8" SCH-40 PVC STORM DRAIN | 157 LF |
| 6" PVC STORM DRAIN        | 167 LF |

| CLEAN OUT SCHEDULE |       |        | STORM DRAIN |       |        |
|--------------------|-------|--------|-------------|-------|--------|
| SEWER              |       |        | CO #        | TOP   | INVERT |
| CO #               | TOP   | INVERT | 9           | 19.4± | 17.41  |
| 1                  | 19.4± | 14.72  | 10          | 23.3± | 17.86  |
| 2                  | 23.0± | 15.72  | 11          | 23.3± | 18.36  |
| 3                  | 24.9± | 17.34  | 12          | 22.6± | 17.69  |
| 4                  | 24.9± | 17.34  | 13          | 24.6± | 17.88  |
| MH#1               | 22.5± | 16.66  |             |       |        |

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1 ea 2" & 1 ea. 1-1/2")

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 LVVMD.

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.

INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY 1-6"

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

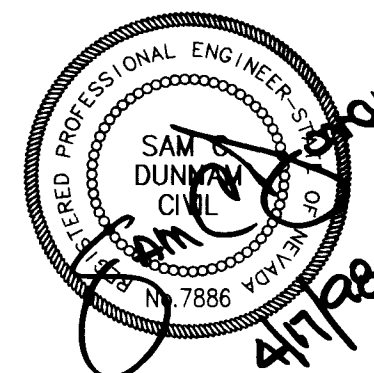
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

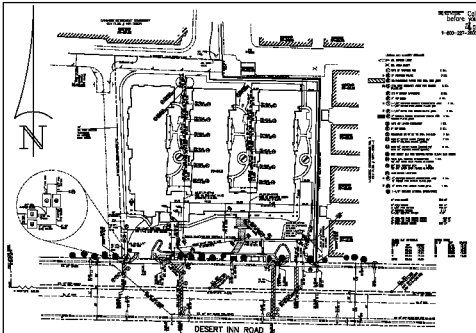
**SEE COVER**

CITY OF LAS VEGAS FIRE DEPT. DATE  
FIRE FLOW = 1875 GPM

*Shirley P. Kodwin* 11/7/99  
LAS VEGAS VALLEY WATER DIST. DATE

|                               |                          |                                                                                              |                                                                                                                             |                                 |              |       |                      |                          |           |              |             |          |   |      |     |                        |
|-------------------------------|--------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------|-------|----------------------|--------------------------|-----------|--------------|-------------|----------|---|------|-----|------------------------|
| SHEET<br>C5<br>5 OF 13 SHEETS | DRAWING NO.<br>107-V2893 | GALLAHER CONSTRUCTION, INC.<br>9066 BROOKS ROAD SOUTH<br>WINDSOR, CA 95492<br>(707) 836-0473 | DUNNAM CIVIL ENGINEERS<br>3305 SPRING MOUNTAIN ROAD SUITE 82<br>LAS VEGAS, NV 89102<br>(702) 367-0588<br>(702) 367-8145 FAX | OAKMONT RETIREMENT COMMUNITY #4 | UTILITY PLAN | TITLE | SCALE: 1" = 30' HOR. | PROJECT NO.:<br>GALL 03C | DRAWN BY: | DESIGNED BY: | CHECKED BY: | REVISION | 3 | 11/6 | scd | rev. H20 meters &      |
|                               |                          |                                                                                              |                                                                                                                             |                                 |              |       |                      |                          |           |              |             |          | 2 | 9/22 | scd | 8" sch-40 Storm Drain  |
|                               |                          |                                                                                              |                                                                                                                             |                                 |              |       |                      |                          |           |              |             |          | 1 | 4/27 | PAG | 6" h20 & sewer POC     |
|                               |                          |                                                                                              |                                                                                                                             |                                 |              |       |                      |                          |           |              |             |          | 1 | 4/27 | PAG | ADD EX. GAS PER SW GAS |





DESIGNER: Call  
before 4:30 PM  
1-800-221-3800

**BASES OF BEARING**  
N 0° 0' 0" E 100° 0' 0" E  
S 0° 0' 0" E 100° 0' 0" E  
W 0° 0' 0" E 100° 0' 0" E  
E 0° 0' 0" E 100° 0' 0" E

**BENCHMARK**



**LOCATION**

AT CORNER OF DESERT INN ROAD & 10TH STREET

**SEWER CONTRIBUTION**  
SEWER CONTRIBUTION

**LAS VEGAS FIRE DEPT.**



**STREET LIGHT DETAIL**



**FIRE HYDRANT DETAIL**

**CONSTRUCTION NOTE**

ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER.

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|                              |          |
|------------------------------|----------|
| GALLAGHER CONSTRUCTION, INC. |          |
| DESIGNER                     | ENGINEER |
| PROJECT NO.                  | DATE     |
| CLIENT                       | LOCATION |
| UTILITY PLAN                 |          |
| CONSTRUCTION                 |          |
| SCALE: 1" = 10' (SEE PLAN)   |          |
|                              |          |
| 10-100<br>10-100             |          |