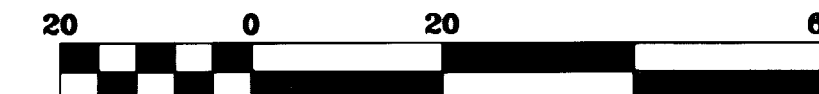


**CONSTRUCTION NOTES**

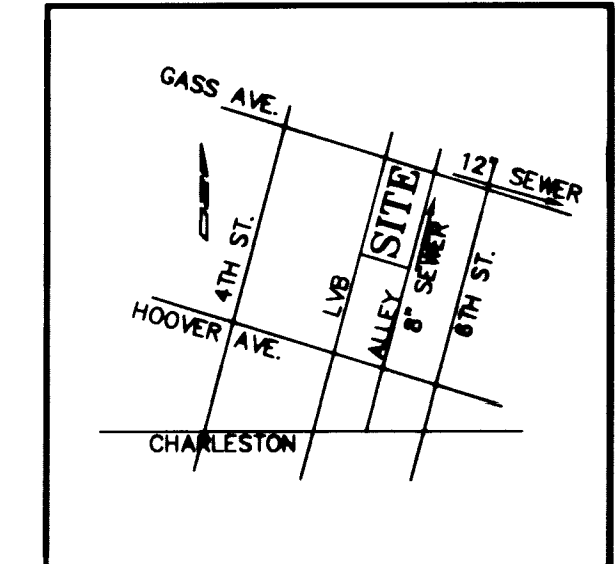
- ① THE OVERHEAD WIRES ON THE WEST SIDE OF THE ALLEY ARE TO BE REMOVED AND REPLACED WITH UNDERGROUND FACILITIES. THE POLE IS TO REMAIN BUT THE WIRE SOUTH OF THIS POLE IS TO BE REMOVED. SEE NV. POWER PLAN FOR DESIGN.
- ② THIS POLE AND TRANSFORMER TO BE REMOVED. SEE NV. POWER PLAN FOR DESIGN.
- ③ THESE POLES AND TRANSFORMER PAD ARE TO REMAIN. THE OVERHEAD WIRES NORTH OF THESE POLES ARE TO BE REMOVED AND REPLACED WITH UNDERGROUND FACILITIES. SEE NV. POWER PLAN FOR DESIGN.
- ④ EXISTING FIRE HYDRANT STA. 12-03.2
- ⑤ CONNECT TO EXISTING 8" ACP WATER WITH AN 8"x8" M.J. TAPPING TEE AND TAPPING VALVE.
- ⑥ INSTALL 8"x8"x8" TEE AT STATION 11+71.57
- ⑦ INSTALL 11 LF OF 8" PVC WATER
- ⑧ INSTALL 95 LF OF 8" PVC WATER
- ⑨ FIRE SPRINKLER RISER ROOM
- ⑩ INSTALL (2) 1 1/2" LATERAL CONNECTIONS AT STA. 11+08.30 & 11+11.30 - 1 1/2" SERVICE SADDLE
- ⑪ INSTALL 8" ELBOW - 45 DEGREE
- ⑫ INSTALL 8 LF OF 8" PVC WATER
- ⑬ INSTALL FIRE HYDRANT AS PER UDACS PLATE 7 AT STATION 10+58.18 WITH 6" GATE VALVE. PLACE HYDRANT 3.5 FEET FROM THE BACK OF THE CURB.
- ⑭ INSTALL (2) 20 LF 1 1/2" COPPER TUBING WATER SERVICES
- ⑮ INSTALL (2) 1 1/2" METERS PER UDACS PLATE 10
- ⑯ INSTALL (2) 1 1/2" RPPA PER UDACS PLATE 11A
- ⑰ INSTALL 17 LF OF 8" PVC WATER AND 8" GATE VALVE
- ⑱ INSTALL 8" 90 DEGREE ELBOW
- ⑲ INSTALL 8"x8"x8" TEE
- ⑳ INSTALL 8" DCCA PER UDACS PLATE 20B
- ㉑ INSTALL 8" DCCA PER UDACS PLATE 20B
- ㉒ CONNECT TWO DCCAs TO ONE FIRE SERVICE LINE
- ㉓ INSTALL 8 LF OF 6" PVC SEWER LATERAL. INVERT OF EXISTING SEWER MAIN AT THE POINT OF CONNECTION IS APPROXIMATELY 8.3. INVERT AT THE END OF THE LATERAL SHALL BE 10.50.
- ㉔ INSTALL FIRE DEPARTMENT POINT OF CONNECTION
- ㉕ ABANDON EXISTING WATER SERVICES. SEE NOTES ON THIS SHEET. EXISTING 1" SERVICE WITH 1" WATER METER, ACCOUNT #149382
- ㉖ ABANDON EXISTING WATER SERVICES. SEE NOTES ON THIS SHEET. EXISTING 1" SERVICE WITH 1" WATER METER, ACCOUNT #149383
- ㉗ ABANDON EXISTING WATER SERVICES. SEE NOTES ON THIS SHEET. EXISTING 1" SERVICE WITH 1" WATER METER, ACCOUNT #149412
- ㉘ ABANDON EXISTING WATER SERVICES. SEE NOTES ON THIS SHEET. EXISTING 1" SERVICE WITH 1" WATER METER, ACCOUNT #149413
- ㉙ INSTALL 12 LF OF 8" PVC WATER
- ㉚ INSTALL 8 LF OF 8" PVC WATER
- ㉛ INSTALL 10' LF OF 8" PVC WATER WITH 8" CAP AND 2" BLOWOFF PER UDACS PLATE 4 AND 8" GATE VALVE
- ㉜ CONSTRUCT MAIN 6" FROM THE BACK OF THE CURB
- ㉝ INSTALL 8"x8"x8" TEE AT STA. 10+58.18
- ㉞ 7.5'x18' LVVWD EASEMENT
- ㉟ SAWCUT AND MATCH - TRENCH PER STD. DWG. 504



Scale 1" = 20 ft

AVOID CUTTING UNDERGROUND UTILITY LINES IT'S DANGEROUS  
**CALL BEFORE YOU DIG**  
 1-702-593-6111  
 NEVADA POWER ENGINEERING AND SAFETY SERVICES DEPARTMENT

AVOID CUTTING UNDERGROUND UTILITY LINES IT'S DANGEROUS  
**CALL BEFORE YOU DIG**  
 1-800-227-2600  
 UNDERGROUND SERVICE (USA)



**LOCATION MAP**

SCALE: NONE  
 THIS SITE DISCHARGES INTO AN 8" SEWER IN THE ALLEY AND THE ALLEY DISCHARGES INTO AN 12" SEWER IN GASS AVENUE.

**SEWER CONTRIBUTION**

AVERAGE FLOW: 10,600 GPD  
 PEAK: 18,900 GPD

**INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY ONE 8" AND ONE 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. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

**PROJECT NAME: L'Octaine**

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.  
*Greg Lang* 03/23/01  
 LVVWD DATE #52

ABANDONMENT OF EXISTING SERVICE(S) - 2" OR SMALLER  
 THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING OF THE METER. AFTER THE FINAL READING, THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:  
 EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAIN, SHALL HAVE THE CORPORATION STOP TURNED OFF AT THE MAIN, A MINIMUM OF 12" OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE LVVWD. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER (702-258-7171) FOR FURTHER DIRECTION.  
 THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES. FILL AND GRAD ANY AND ALL RESULTING VOIDS AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER. ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE BOX.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 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 LVVWD.

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 TO THE VALVE(S) FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

**NOTE TO CONTRACTOR**

THE UTILITIES IN THIS AREA ARE OLD AND THE RECORDS OF THEIR LOCATIONS ARE NOT CLEAR. SPECIAL CARE MUST BE TAKEN TO AVOID DAMAGING EXISTING UNDERGROUND LINES. CONTACT P.R.Engineering IF UTILITY LOCATIONS ARE DIFFERENT FROM THE LOCATIONS SHOWN ON THIS PLAN SO THE UTILITY DESIGN CAN BE REVIEWED.

THE EXISTING WATER LINE IN THE ALLEY DOES NOT MATCH THE LOCATION SHOWN ON THE LVVWD RECORDS. ALSO, AN EXISTING WATER METER COULD NOT BE LOCATED BUT PROBABLY DOES EXIST. THESE FACILITIES MUST BE LOCATED BEFORE CONSTRUCTION BEGINS.

**NOTE:**  
 EXISTING UTILITIES AND IMPROVEMENTS SHOWN ON THESE PLANS WERE LOCATED FROM THE BEST INFORMATION AVAILABLE AT THE TIME. THE ENGINEER BEARS NO RESPONSIBILITY FOR EXISTING UTILITIES AND IMPROVEMENTS NOT SHOWN ON OR FOR UTILITIES AND IMPROVEMENTS NOT IN THE LOCATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR NOTIFYING ALL UTILITY COMPANIES BEFORE STARTING CONSTRUCTION, AND PHYSICALLY LOCATING ALL UTILITIES AND IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION.

**FIRE FLOW CALCULATIONS**

FIRE FLOW REQUIREMENT IS 2,375 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL, BASED ON:  
 SQUARE FOOTAGE: 68,640 SQ. FT.  
 LARGEST AREA BETWEEN 4 HOUR SEPARATION WALLS: 68,640 SQ. FT.  
 BUILDING HEIGHT: 42 FEET  
 NUMBER OF STORIES: 4 FLOORS  
 TYPE OF CONSTRUCTION: TYPE 5 ONE HOUR OCCUPANCY:  
 FULL AUTOMATIC SPRINKLER SYSTEM YES

REVIEWED BY: *[Signature]*  
 DATE: 3/23/01

**THIS PROJECT REQUIRED REMOVAL OF 5 EXISTING WATER METERS.**

METER NUMBER	SIZE
149412	1"
149413	1"
149382	3/4"
149383	3/4"
149384	5/8"

THE ENGINEER AND LVVWD WERE UNABLE TO LOCATE METER 149384. THE LVVWD RECORDS CALL OUT THE LOCATION OF THE METER AS 'S' SOUTH OF NORTH EDGE OF BUILDING.

**WATER QUANTITIES**

8"x8" M.J. TAPPING TEE	1 EA.
8" TAPPING VALVE	1 EA.
8" PVC WATER MAIN	14 LF
8" PVC WATER MAIN	152 LF
8"x8" TEE	1 EA.
2" BLOW OFF	1 LF
1 1/2" WATER METER	2 EA.
1 1/2" RPPA	2 EA.
8" GATE VALVE	2 EA.
8" GATE VALVE	1 EA.
FIRE HYDRANT	1 EA.
8" DCCA	1 EA.
8" DCCA	1 EA.
8"x8"x8" TEE	3 EA.
8" 90 DEGREE ELBOW	4 EA.
8" CAP	1 EA.
8" 45 DEGREE ELBOW	2 EA.

**FIRE LANE MARKINGS**

WEST EDGE OF ALLEY 8' W PAINTED WITH A 4" RED STRIPE AND "NO PARKING FIRE LANE" SIGNS PLACED ON THE BUILDING EVERY 100 FEET.

**BENCHMARK**

S 62°03'48" E BEING THE CENTERLINE OF GASS AVE. AS SHOWN ON FILE 67, PAGE 79 OF SURVEYS, CLARK COUNTY, NEVADA OFFICIAL RECORDS.

**BASIS OF BEARING**

S 62°03'48" E BEING THE CENTERLINE OF GASS AVE. AS SHOWN ON FILE 67, PAGE 79 OF SURVEYS, CLARK COUNTY, NEVADA OFFICIAL RECORDS.

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P.D. BOX 13438  
 LAS VEGAS, NEVADA 89112  
 (702) 434-8515 FAX 434-8419

PREENGINEERING

UTILITY PLAN

L'OCTAINE MIXED USE FACILITY

DATE: 03/21/01

SCALE: 1"=20'

SHEET 3 OF 8 SHEETS

DRAWING NO. 107-V3426

6702-UTL

3/863  
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