

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #1545.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
  - KEMNEY GORDIAN
  - MUELLER A-423 CENTURIAN
  - GLOW MODEL 2546 MEDALLION
- ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
- CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #1545 TO IDENTIFY FIRE HYDRANT LOCATIONS.
- CALL THE LAS VEGAS BUILDING DEPARTMENT AT 799-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
- PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE, PER ORDINANCE #3545, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING SHALL BE OBTAINED FROM THE FIRE PROTECTOR ENGINEER PRIOR TO ANY WORK BEGINNING.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND P.N. APPROVED.
- FIRE HYDRANT SPACING:
  - RESIDENTIAL - 500 FEET UNSPRINKLERED, 400 FEET SPRINKLERED COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 400 FEET SPRINKLERED.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
- 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.
- 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 UVC 94, SECTION 10-407).
- 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 TURN AROUND AREA. SEE ORDINANCE #3545.

NOTE: SAWCUT LINE MUST BE 2" MIN. EAST OF TRAFFIC MARKINGS & PAVEMENT MUST BE MACHINE LAID

SAWCUT & MATCH EXIST. A.C. PAVT. - 60"x12" (PER 370 DUM 930A)

1/2 LF - 2" DOMESTIC OFFER WATER SERVICE

EXIST. 0" A.C.P. WATER MAIN

DOE AVE.

EXIST. 12" A.C.P. WATER MAIN

LAS VEGAS FIRE DEPARTMENT

Fire Flow Requirement is 1800 gallons per minute at 20 pounds per square inch residual.

Based on: ENBA SF

Square footage: 2914

Largest area between area separation walls: 2914

Height: 22'-0" TO MAIN PARAPET

Type of Construction: TYPE V PROTECTED (ONE HOUR)

Exposures: NZ

Sprinkler System: NZ

Occupancy: AS

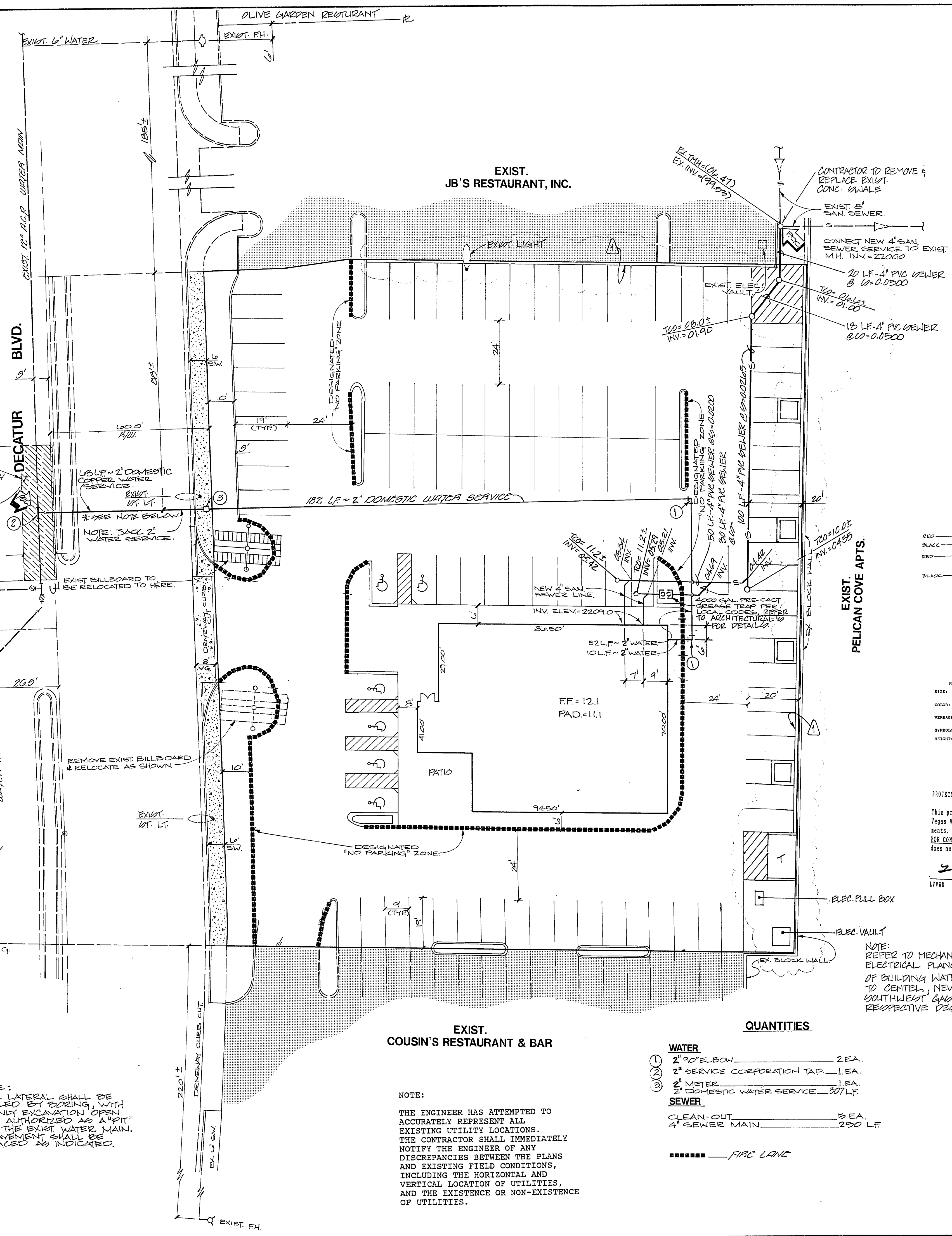
Roof Construction: WOOD TRUSSES PLYWOOD DECK, MODIFIED BITUMEN SINGLE-PLY ROOF G.

Reviewed By: RB 10/7/92

Date: 9-22-92

\*NOTE: WATER LATERAL SHALL BE INSTALLED BY BORING WITH THE ONLY EXCAVATION OPEN TO BE AUTHORIZED AS A "PIT" OVER THE EXIST. WATER MAIN. THE PAVEMENT SHALL BE REPLACED AS INDICATED.

BENCHMARK  
B.M.#16162P - 2" BRASS CAP IN TOP OF CURB  
SOUTHEAST CORNER OF DECATUR BLVD. AND  
OAKLEY BLVD. ELEV.2215.302



MINIMUM SPECIFICATIONS OF TWO PARKING SPACES SHALL BE:  
SIZE: 1' wide x 1 1/2' long or 2' wide x 2 1/2' long as required  
COLOR: Red and Black on white luminous background (see above examples)  
VENUE: Fire Lane, Section 10-203 - Las Vegas Fire Code  
File - 875.05 - Possible Penalties:  
SYMBOL: International No Parking Symbol  
HEIGHT: To be installed not less than seven (7') nor more than ten (10') feet ground level

PROJECT NAME: LONE STAR STEAK HOUSE & SALOON  
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 consultant.

27096 12/10/92  
LIVVO Date

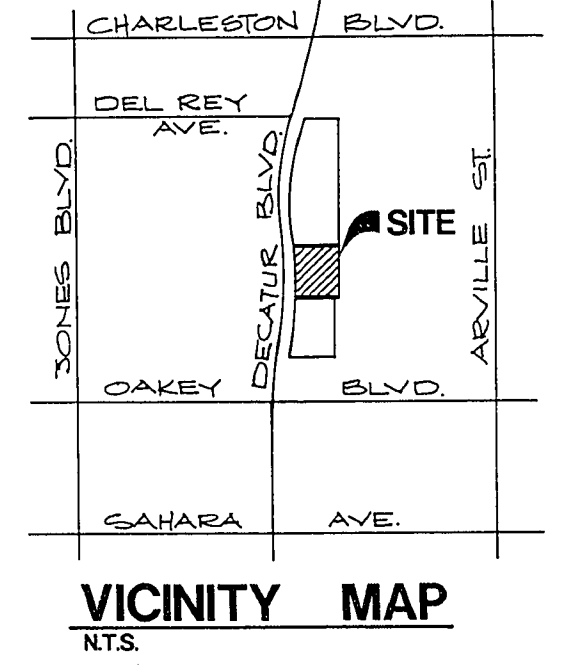
NOTE: REFER TO MECHANICAL, PLUMBING & ELECTRICAL PLANS FOR CONTINUATION OF BUILDING WATER & SEWER. REFER TO CENTEL, NEVADA POWER, & SOUTHWEST GAS PLANS FOR THERE RESPECTIVE DESIGNS.

QUANTITIES

- WATER**
- 2" 90° ELBOW 2 EA.
  - 2" SERVICE CORPORATION TAP 1 EA.
  - 2" METER 1 EA.
  - 2" DOMESTIC WATER SERVICE 207 LF.
- SEWER**
- CLEAN-OUT 3 EA.
  - 4" SEWER MAIN 250 LF.
- \*\*\*\*\* FIRE LANE

EXIST. COUSIN'S RESTAURANT & BAR

NOTE:  
THE ENGINEER HAS ATTEMPTED TO ACCURATELY REPRESENT ALL EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING FIELD CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES, AND THE EXISTENCE OR NON-EXISTENCE OF UTILITIES.



LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICES SHALL BE GIVEN TO THE LVWD CUSTOMER SERVICE DEPARTMENT (870-4194) 48 HOURS PRIOR TO ACTUAL CONSTRUCTION, AND 24 HOURS PRIOR TO AN INSPECTION.
- CALL BEFORE YOU DIG 1-800-227-2600.
- ALL WORK SHALL CONFORM TO LVWD LATEST STANDARD PLATES, DRAWINGS AND SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
- DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS SHALL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY SHALL BE PERMITTED ON 1-1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
- COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS AND STANDARD PLATES.
- THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:
 

PIPE SIZE	ACP	DUCTILE IRON	DUCTILE IRON WITH SPECIAL JOINT
6 INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
8 - 12 INCH	2.5 "	2.5 "	2.5 "
14 - 16 INCH	2.0 "	2.5 "	1.5 "
18 - 24 INCH	1.5 "	1.5 "	1.5 "
- ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLIED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE, AND 9 INCHES FOR 10" AND 12" PIPE.
- IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.
- DETECTOR TAPS SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:
  - OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.
  - OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.
- ALL WATER MAINS SHALL BE PRESSURE TESTED AT 200 PSI FOR A CONTINUOUS 24 HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
- ALL WATER MAINS SHALL BE DISINFECTED, FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF WATER MAIN(S) AND/OR LATERAL(S) TO THE DISTRICT'S SYSTEM.
- CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

CITY OF LAS VEGAS SEWER NOTES

- 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. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- CHISEL 90° OR 45° IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-1034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II GRAVEL.
- ALL MANHOLES IN PAVED STREETS 80" R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- A SEWER MATH CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN, MUST BE REINFORCED CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS 'A' CONTRACTORS.

APPROVAL

David Bowman 10/2/92  
CITY LAS VEGAS FIRE MARSHALL DATE

12/10/92  
LAS VEGAS VALLEY WATER DISTRICT DATE

Conce Fan 12-2-92  
NEVADA POWER COMPANY DATE

DAN WINTER ARCHITECTS  
CITY OF LAS VEGAS

CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS  
2727 SOUTH RAINBOW BOULEVARD  
LAS VEGAS, NEVADA 89102-5148 PHONE (702) 873-7550 FAX (702) 362-2587

DATE: 12/22/92  
BY: JAW  
REV: 12/22/92

REVISION  
REV. CHECK LOCATION: F. TOSHAK ENGINEER: JAW

nevada

MASTER UTILITY PLAN

LONE STAR STEAK HOUSE & SALOON

TITLE PROJECT

SEAL  
CITY OF LAS VEGAS  
12/10/92

WO NO. 4338  
BY: DGM/DE  
DATE: 9-11-92  
SCALE: 1"=20'  
SHEET 3 OF 3 SHEETS

107-V2073

Call before you Dig.  
1-800-227-2600  
UNDERGROUND SERVICE CENTER