



**BENCHMARK**  
 CITY OF LAS VEGAS BM# 2LV0229W4  
 RIVET & PLATE IN TOP OF CURB, SE RETURN  
 OF LAMB BLVD. AND WASHINGTON AVE.  
 ELEV=1785.01 FEET (544.0725 m) (NAVD 88)

**BASIS OF BEARING**  
 N 87°57'55" E being the South line of the NW4 of Section  
 29, Township 20 South, Range 62 East M.D.M. As per Amended  
 Parcel Map File 83 Page 62, Clark County, Nevada records.

**LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES**

- LVVWD PROJECT # \_\_\_\_\_
- 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 PM THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
  - ALL WORK SHALL CONFORM TO THE LVVWD'S STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
  - 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 OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
  - A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
  - ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
  - ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
  - ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
  - 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 (MINIMUM) 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.
  - 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.
  - 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.
  - 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.
  - 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 FEES BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEES MUST HAVE PRIOR LVVWD APPROVAL.
  - 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.

**SUDS CAR WASH SEWER FLOW CONTRIBUTION**  
 SEE AZRA SUBDIVISION UTILITIES PLAN FOR CONTRIBUTION  
 SEE DRAWING 107Y-4632  
 CONTRIBUTION THIS PAD = 0.67 ACRES  
 DAILY AVERAGE = ~~0.006 MGD~~ 0.006 MGD  
 PEAK DAY = 3.4 (0.006) = 0.0204 MGD

**MAINTENANCE RESPONSIBILITIES**  
 IT SHALL BE THE RESPONSIBILITY OF THE CITY TO MAINTAIN ALL PUBLIC SEWER MAIN FACILITIES INSTALLED IN CITY-OWNED RIGHTS-OF-WAY AND EASEMENTS. IT SHALL BE THE RESPONSIBILITY OF PRIVATE PROPERTY OWNERS TO MAINTAIN ALL SEWER LATERALS ORIGINATING ON THEIR PROPERTY TO THE POINT THE LATERALS ARE CONNECTED INTO THE PUBLIC SEWER MAIN IN A CITY-OWNED RIGHT-OF-WAY OR EASEMENT.

EXISTING UTILITY EASEMENT  
 SEE AZRA SUBDIVISION  
 SEE DRAWING 107Y-4632

NOTE:  
 SEE AZRA SUBDIVISION  
 FOR EXISTING PRIVATE WATER  
 & SEWER MAINS WITHIN  
 EASEMENT. SEE DRAWING 107Y-4632

SIGHT VISIBILITY RESTRICTION EASEMENT  
 FOR 45 MPH 100' R-O-W  
 PER STD DWG 404.1600  
 DOC: 981221:00838

**FIRE FLOW CALCULATIONS**

FIRE FLOW REQUIREMENT = 1500 GPM  
 AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	= 2450 SQ.FT.
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS	= 2450 SQ.FT.
BUILDING HEIGHT	= 16 FT.
NUMBER OF STORIES	= 1 FLOORS
TYPE OF CONSTRUCTION	= V-N
OCCUPANCY	= M

FULL AUTOMATIC FIRE SPRINKLER SYSTEM BUILDING IS NOT SPRINKLERED

FIRE HYDRANTS REQUIRED 1  
 FIRE HYDRANTS PROVIDED 2 EXISTING 0 NEW

**SEWER QUANTITIES**

<b>PRIVATE</b>	
106 LF @ 6" PVC	
20 LF @ 4" PVC	
1 @ 4" 45° BEND	
1 @ 6" 45° BEND	
1 @ 6"x4" Y	
2 @ 4" C.O.	
1 @ GREASE INTERCEPTER PER PLUMBING DRAWINGS	

**WATER QUANTITIES**

<b>PUBLIC</b>		<b>PRIVATE</b>	
1 @ 2" SERVICE SADDLE		20 LF @ 2" PVC	
1 @ 2" METER		1 @ 4"x2" TEE	

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY!  
 Call before you Dig—  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT (USA)  
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

INGRESS/EGRESS EASEMENT TO BE VACATED  
 DOC: 981218:00831

PROJECT NAME: **Suds Carwash - Private**  
 ON SITE Facilities Only (Private)  
 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 Lunge* DATE: 6/2/00  
 LVVWD

LAS VEGAS VALLEY WATER DISTRICT  
*Phillip Kowalski* DATE: 6/2/00  
 NEVADA POWER CO.

OWENS					
WASHINGTON					
SANDHILL					
BONANZA					
LAMB					
MARION					

REVISION

REV	DATE	BY

PREPARED FOR:  
 PANAMA  
 3230 EAST FLAMINGO RD.  
 LAS VEGAS, NV 89121  
 (702) 269-2008

BY:  
**AFFLECK ENTERPRISES**  
 4987 IDAHO AVE.  
 LAS VEGAS, NEVADA 89104  
 (702) 431-4627

UTILITY PLAN  
 SUDS CARWASH  
 WASHINGTON AVE AT LAMB BLVD.  
 CITY OF LAS VEGAS, NEVADA

SHEET 12/7/99  
 TITLE 12/7/99  
 DESIGNED BY: L.H. AFFLECK  
 CHECKED BY: L.H. AFFLECK  
 PROJECT NO. 98156  
 SCALE: 1"=30'

DRAWN BY: L.H. AFFLECK  
 DESIGNED BY: L.H. AFFLECK  
 CHECKED BY: L.H. AFFLECK  
 PROJECT NO. 98156  
 SCALE: 1"=30'

REGISTERED PROFESSIONAL ENGINEER  
 LYNN H. AFFLECK  
 CIVIL  
 NO. 07678  
 STATE OF NEVADA

SHEET C3  
 3 OF 4 SHEETS  
 DRAWING NO. 107-V-3080

23074