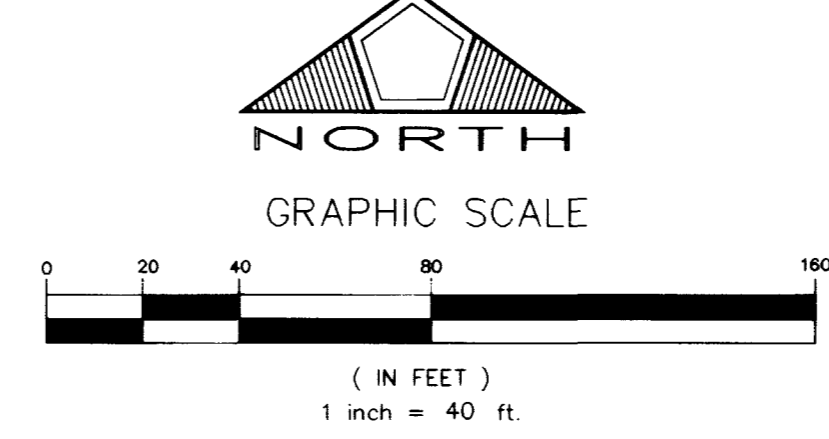


S.M.H COORDINATES

SMH #	NORTHING	EASTING
1	15236.7674	11217.3062
2	15228.1509	11177.3341
3	14878.1561	11179.2380
4	14700.0081	11180.2070
5	14697.8323	10780.2129
6	14799.6438	10711.0995
7	14800.2770	10641.1023
8	14669.6193	10618.3383
9	15224.9221	10418.5098
10	15225.4567	10516.7902

LEGEND

- EX. 18" ACP --- EXISTING WATER LINE
- 8" FIRE --- PROPOSED WATER LINE
- 2 1/2" W --- PROPOSED WATER LINE
- 2" W --- PROPOSED WATER LINE
- EX. 8" SWR --- EXISTING SEWER LINE
- 8" SWR --- PROPOSED SEWER LINE
- 6" SWR --- PROPOSED SEWER LINE
- 4" SWR --- PROPOSED SEWER LINE
- EX. MH --- EXISTING SEWER MANHOLE
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER LATERAL
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING STREET LIGHT
- PASSENGER LOADING AREA
- HANDICAPPED ACCESS ROUTE
- FIRE LANE (PAINTED RED) ---
- NO PARKING ---



BASIS OF BEARINGS

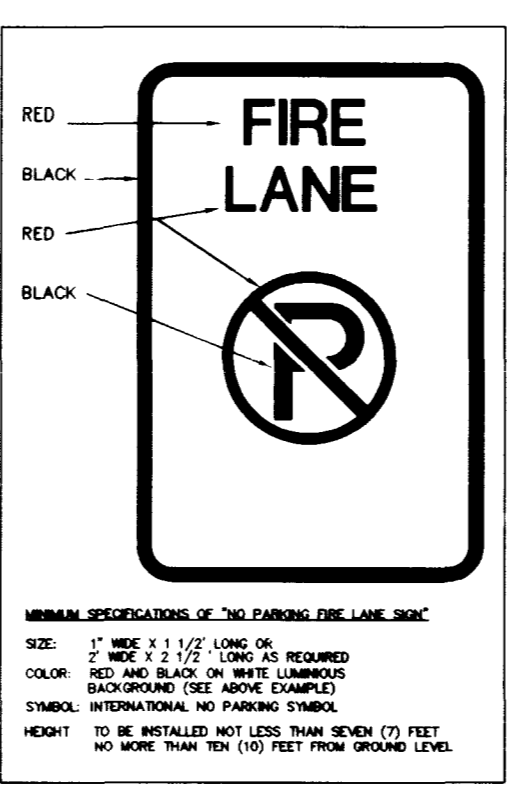
NORTH 89°41'18" EAST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 31, TOWNSHIP 20 SOUTH, RANGE 60 EAST, MOUNT DIABLO MERIDIAN, AS SHOWN ON A MAP ON FILE IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE IN FILE 76, PAGE 85 OF PARCEL MAPS.

THE ABOVE REFERENCED LINE IS ALSO THE APPROXIMATE CENTERLINE OF CHARLESTON BOULEVARD, DIRECTLY EAST OF HUALAPAI WAY.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK # 01000 3155W6, BEING A RIVET AND PLATE IN TOP OF CURB ON CHARLESTON BLVD., 1690' WEST OF GRAND CANYON DRIVE, NORTH CURB LINE AT DROP INLET.

ELEVATION = 874.0618 METERS (NAVD 88)
ELEVATION = 2867.651 U.S. SURVEY FEET (COMPUTED NAVD 88)



FITTING LEGEND:

- 1 FIRE HYDRANT ASSEMBLY
- 2 8" DCDA
- 3 6" DCDA
- 4 10" x 8" REDUCER
- 5 8" x 6" REDUCER
- 6 8" GATE VALVE
- 7 8" TEE
- 8 8" x 8" x 6" TEE
- 9 8" - 90° BEND
- 10 6" - 90° BEND
- 11 8" - 45° BEND
- 12 8" - 22 1/2° BEND
- 13 8" - 11 1/4° BEND
- 14 6" - 11 1/4° BEND
- 15 6" GATE VALVE
- 16 6" x 6" TEE

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, FORTY-EIGHT (48) HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER 9258-7171 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 LVVWD STANDARD PLATES, DRAWING, AND SPECIFICATIONS AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOT 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, 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 INCHES (2") 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, GUTTERS, CURBS AND ALLEY GUTTERS.
8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND A SANITARY SEWER OR STORM SEWER LINE CROSS:
 - A. A MINIMUM EIGHTEEN INCH (18") 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 INCH (4") CONCRETE (MINIMUM)
 - C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX INCH (6") 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, FILED AND AN ACCEPTABLE WATER SAMPLE OBTAINED PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO INCHES (2") AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICK-UP.
12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M. SUNDAY THROUGH THURSDAY. CIRCUMSTANCES THAT MAY REQUIRE 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.

PROJECTED SEWER FLOWS

PEAK = 0.0028 MGD
AVERAGE DAILY = 0.0009 MGD

APPROVAL:

Juanita B. Barton 8/26/98 DATE
LAS VEGAS VALLEY WATER DISTRICT

K. G. Miller 6/5/98 DATE
CITY OF LAS VEGAS FIRE DEPARTMENT

Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)

Call before you OVERHEAD
1-702-593-6111
OVERHEAD POWER CONSTRUCTION DEPARTMENT

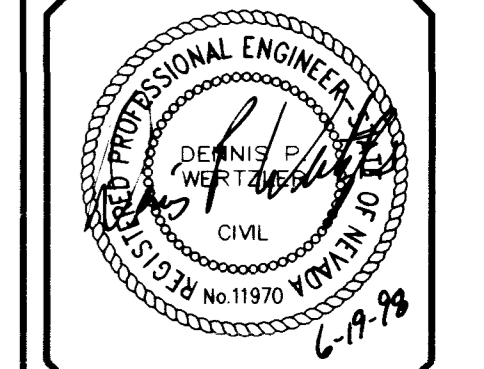
NO.	DESCRIPTION	DATE	APP'D.
1	ADD SERVICE TIE-IN & LATERALS FOR SHOP 3	1/1/99	KOP
2	ADD 1" P.V.C. DOMESTIC WATER MAIN	1/14/99	KOP
3	ADD 6" P.V.C. DOMESTIC WATER MAIN	1/14/99	KOP
4	CONNECT TO 6" P.V.C. TREATMENT PLANT	2/1/99	KOP

PECOLLE NEVADA CORP.
851 SOUTH RAMPART, SUITE 100
LAS VEGAS, NEVADA, 89128
(702) 933-1111

PENTA CORE
CIVIL ENGINEERING & ARCHITECTURE
CONSTRUCTION MANAGEMENT & ADA CONSULTING
6763 WEST CHARLESTON BOULEVARD
LAS VEGAS, NEVADA 89122 (702) 258-9015

MASTER UTILITY PLAN II
PECOLLE RANCH, PHASE II
SMITH'S COMMERCIAL

DATE: 6/3/98
PN: C. SPITZ
DRAWN BY:
DESIGNED BY:
CHECKED BY: ADA
JOB NO.: 0145.0033
SCALE: 1"=40'



SHEET **5** OF 12
C.L.V. DWG # 107-V2960

G:\045\0033\CIVIL PLANS\124-ut.11.dwg Thu Jun 04 17:06:47 1998 Duwayne A

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