

BENCHMARK NAVD 88

CITY OF LAS VEGAS BENCHMARK NUMBER 1LV002NNW6 BEING A RIVET AND SQUARE PLATE IN THE TOP OF CURB, LONE MOUNTAIN ROAD, 550 FEET EAST OF RANCHO ROAD, SOUTH CURB LINE

ELEVATION (NAVD88) = 705.4188 METERS = 2314.36 FEET

BASIS OF BEARINGS

SOUTH 00°04'13" WEST BEING THE EAST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 2, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN ON THAT CERTAIN RECORD OF SURVEY, FILE 95, PAGE 49, CLARK COUNTY OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

PROJECT NAME: BLM Storage Building
(Sub: 1-3 & 4)

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

Chris E. Banks 11.1.00
DATE

WATER QUANTITIES (PUBLIC) THIS SHEET ONLY

2" COPPER LINE	5 LF
2" METER	1 EA
2" 90° ELL	1 EA
2" RPPA	1 EA
10" PVC	170 LF
10" TAPPING GATE VALVE	1 EA
10" 45° ELL	1 EA
10"x10"x10" TEE	2 EA
12"x10" TAPPING SLEEVE	1 EA
10"x8" REDUCER	2 EA
10" GATE VALVE	5 EA
8" DCDA	2 EA
10" CAP W/2" BLOWOFF	1 EA

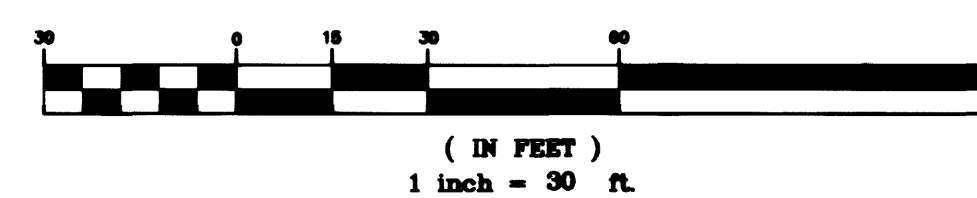
NOTES

QUANTITIES ARE SHOWN FOR INFORMATION ONLY TO ILLUSTRATE THE PROJECT SCOPE. IDENTIFY QUANTITIES INDEPENDENTLY AS REQUIRED FOR ALL OTHER PURPOSES.

WATER QUANTITIES (PRIVATE) THIS SHEET ONLY

2.5" COPPER LINE	220 LF
2.5" 90° ELL	3 EA
10" PVC	868 LF
10" 45° ELL	3 EA
10" 90° ELL	2 EA
10"x10"x10" TEE	2 EA
10"x6"x10" TEE	2 EA
10"x6" REDUCER	2 EA
10"x8" REDUCER	2 EA
10" GATE VALVE	2 EA
6" PVC	40 LF
6" 45° ELL	1 EA
6" 90° ELL	1 EA
FIRE HYDRANT ASSEMBLY	3 EA

GRAPHIC SCALE



SEE SHEET C5.1 FOR CONTINUATION

UTILITY CONSTRUCTION KEYNOTES

- INSTALL 12" x10" M.J. TAPPING SLEEVE, 10" TAPPING VALVE 10" 45° VERT ELL
- INSTALL 10" PVC WATER LINE IN ACCORDANCE WITH UDACS AND DETAIL
- INSTALL 8" DCDA IN ACCORDANCE WITH UDACS AND UDS PLATE NO. 20 B
- INSTALL 2" SERVICE CONNECTION AND METER IN ACCORDANCE WITH UDACS AND UDS PLATE NO. 1D
- INSTALL 2" RPPA IN ACCORDANCE WITH UDACS AND UDS PLATE NO. 11A
- INSTALL 6" PVC WATER LINE IN ACCORDANCE WITH UDACS AND DETAIL
- INSTALL NEW FIRE HYDRANT IN ACCORDANCE WITH UDACS AND UDS PLATE NO. 7
- INSTALL 2.5" COPPER WATER LINE IN ACCORDANCE WITH UDACS
- INSTALL 6" SEWER LATERAL IN ACCORDANCE WITH DCSWCS AND DETAIL
- INSTALL CLEAN OUT IN ACCORDANCE WITH DETAIL
- INSTALL 48" ECCENTRIC MANHOLE IN ACCORDANCE WITH DCSWCS DWG. SD-1.
- CONSTRUCT 8" PVC SDR 35 SEWER LINE IN ACCORDANCE WITH DCSWCS AND DETAIL.
- INSTALL 2.5" 90° ELL IN ACCORDANCE WITH UDACS
- INSTALL 10" 90° ELL IN ACCORDANCE WITH UDACS
- INSTALL 10" 45° ELL IN ACCORDANCE WITH UDACS
- INSTALL 10"x10"x10" TEE IN ACCORDANCE WITH UDACS
- INSTALL 10"x6"x10" TEE IN ACCORDANCE WITH UDACS
- INSTALL 10"x8" REDUCER IN ACCORDANCE WITH UDACS
- INSTALL 10"x6" REDUCER IN ACCORDANCE WITH UDACS
- INSTALL 10" GATE VALVE IN ACCORDANCE WITH UDACS
- INSTALL 6" 90° ELL IN ACCORDANCE WITH UDACS
- INSTALL 2" 90° ELL IN ACCORDANCE WITH UDACS
- INSTALL SEWER LINE ENCASUREMENT 10' BEFORE AND 10' AFTER WATER LINE CROSSING IN ACCORDANCE WITH DCSWCS DWG. SD-22.
- INSTALL 2"x2.5" REDUCER IN ACCORDANCE WITH UDACS

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2875 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE BASED ON:

SQUARE FOOTAGE	44765 SQ FT
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS	N.A. SQ FT
BUILDING HEIGHT	21.33' (LARGER PORTION OF SF 16.67')
NUMBER OF STORIES	1 FLOOR
TYPE OF CONSTRUCTION	V-N (WITH AREA INCREASE)
OCCUPANCY	B
FULL AUTOMATIC FIRE SPRINKLER SYSTEM	YES

SEWER AVERAGES
AVERAGE DAILY FLOW RATE: 1100 GAL/DAY
PEAK FLOW RATE: 1320 GAL/DAY

FIRE KEYNOTES

- PAINT CURBS WITH INDUSTRIAL GRADE ENAMEL (SAFETY RED) WHERE INDICATED
- INSTALL 12" x 18" (R7-ID) NO PARKING SIGNS, WITH SEPARATE SUPPLEMENTAL "FIRE LANE" PLATE MOUNTED BELOW THE SYMBOL PLATE
- FIRE LANE PER CLV FIRE NOTE 22, SHEET C2.2. 45 FEET OUTSIDE AND 22 FEET INSIDE TURNING RADIUS.

APPROVALS

Chris E. Banks 11.30.00
DATE
FIRE DEPARTMENT
(APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM LVWD)
LAS VEGAS VALLEY WATER DISTRICT
DATE

UTILITY NOTE:

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



WA FRANCIS CONSTRUCTION P.O. BOX 71371 SALT LAKE CITY, UTAH 84171 (801) 973-9774		POGEMEYER DESIGN GROUP ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS 2601 NORTH TENAYA WAY LAS VEGAS, NEVADA 89128 (702) 255-9100	
UTILITY PLAN		BLM STORAGE BUILDING RANCHO/TORREY PINES DR.	
DRAWN BY: <u>CHB</u> DESIGNED BY: <u>SLW</u> CHECKED BY: <u>KLS</u> PROJECT NO: <u>00044</u>	DATE: <u>09.07.00</u> DATE: <u>09.07.00</u> DATE: <u>09.07.00</u>	SCALE: 1" = 30 HOR. 1" = 10 VERT.	
SHEET: <u>C5</u>		TOTAL SHEETS: <u>13</u>	
107-V-3368		107-V-3368	