

C.L.V. FIRE DEPT. NOTES

- All work shall be done in strict accordance with the City of Las Vegas Fire Department "Hydrant Specifications", "Hydrant Installation Specifications" and Ordinance #3318.
- Authorized hydrants for this project are:
A - Kennedy Guardian
B - Mueller 2-425 Centurian
C - Low Model 2546 McAllister
- On any new home or building construction, accessible fire hydrants shall be installed before combustible construction commences and said fire hydrants shall be in good working order with an adequate water supply.
- Contractor shall place a green reflective marker at center-line of street adjacent to fire hydrants.
- Call the Las Vegas Fire Department at 363-2888 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 #3318 shall be completed before approval by the City of Las Vegas Fire Department.
- A permit is required from the Fire Department for water line and fire hydrant installations on the private side of the meter.
- A flow test must be witnessed by the Fire Department for verification of on-site water supply.
- All on-site fire main materials must be U.L. listed and F.M. approved.
- Fire hydrant spacing:
Residential - 500 ft. Maximum
Commercial, including multi-family - 500 ft. Maximum
Fire hydrants shall be located within 500 ft. of any construction or combustible open storage.
- No fire hydrant shall be located within the required radius of a cul-de-sac or within 20 ft. of the perimeter of the radius of the cul-de-sac.
- No fire hydrant shall be located within 5 ft. of any curb return, driveway, power pole, street light or any other obstruction.
- Ensure that fire hydrants are connected to a dependable water supply capable of supplying the required fire flow.

C.L.V. SEWER NOTES

- All sanitary sewer installation shall conform to the STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE UNIFORM SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.
- CHISEL "H" OF "O" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL MEET ASTM D-3034 PER 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE II GRAVEL.
- ALL MANHOLES IN PAVED STREETS 8' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE BANGLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. 2" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- A SEWER MAIN CROSSING OVER A WATER MAIN OF LESS THAN 18" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE EXCAVED PIPE FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.

L.V.V.W.D. NOTES

- No work shall begin on the water main until they have been released for construction by the LVWD. Following approval of the plans, notice must be given to the LVWD Customer Service Department (878-4194), 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 plans, drawings, and specifications.
- All work, except as modified herein or by Note 3, shall be done in accordance with the most current edition of the Uniform Standard Specifications for Public Works Construction Offsite Improvements, Clark County Area.
- District approved service building or tapped collars will be required on all 3/4" and 1" service laterals. Service saddles only will be permitted on 1/2" and 3/4" service laterals. Double tapped collars are not permitted.
- CUTTER SERVICE LATERALS: All 3/4" to 2" service laterals will be of copper tubing in accordance with the District specification titled "2003 - Copper Water Piping".
- The maximum allowable joint deflection for ACP and Ductile iron pipe shall be as follows:

Pipe Sizes	ACP	Ductile iron
6 inch	2.5 degrees	2.5 degrees
8 - 12 inch	2.5 degrees	2.5 degrees
14 - 16 inch	2.5 degrees	1.5 - 1.5
18 - 24 inch	2.5 degrees	1.5 - 1.5

On PVC pipe, the maximum offset for a 30' length of factory belled pipe shall be 17 inches for 6" pipe, 12 inches for 8" pipe, 11 inches for 10" pipe, and 9 inches for 12" pipe.
- All water meter boxes shall be located outside of driveway areas.
- All valves shall be located outside of driveway areas and valley gutters.
- Detector tape is required in accordance with Standard Plate No. 27 where indicated, and as follows:
a) over all mains not installed 6 feet from back of curb.
b) over all service laterals not installed at right angles to main.
- All water mains are to be pressure tested at 200 psi for a continuous 2 HOURS AND CAP 5' BEYOND FE.
- All water mains and laterals shall be disinfected & flushed, and an acceptable water sample obtained, prior to acceptance by the District.

C.L.V. STREETLIGHT NOTES

- All street light installations shall conform to the STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.

NOTES: VTN HAS FIELD VERIFIED THAT VTN'S VERTICAL DATUM AND THE VERTICAL DATUM USED BY NDOT FOR THE CHEYENNE AVENUE IMPROVEMENTS ARE EQUAL.

BENCHMARK

C.C.B.M. #C0015144, BLM BRASS CAP ABOUT 50' EAST OF DIRT ROAD (LORENZI) WITH ROCK PILE AROUND IT. CAP IS 0.93' ABOVE NATURAL GROUND. 1/4 CORNER. ELEVATION: 2309.11

ON-SITE SEWER

8" PVC SEWER MAIN	880 LF
4" PVC SEWER LATERAL	60 LF
STD. MANHOLE	6 EA
CLEAN-OUT	5 EA

ON-SITE WATER

10" ACP WATER MAIN	1162 LF
10" X 8" REDUCER	2 EA
10" TEE	8 EA
10" GATE VALVE	3 EA
10" 90° BEND	7 EA
10" 45° BEND	3 EA
8" GATE VALVE	1 EA
6" GATE VALVE	1 EA
FIRE HYDRANT ASS'Y	4 EA
8" WATER LINE	58 LF
2" SERVICE LINE	57 LF
10" X 6" REDUCER	1 EA
10" X 6" TEE	1 EA
10" X 8" TEE	1 EA
6" WATER LINE	40 LF

LEGEND & QUANTITY ESTIMATE

FIRE FLOW REQUIREMENTS :

- $F = 10 \text{ C.A.S.}$
 $F = 10 (1.0)(20,750)^{.5}$
 $F = 2945.90$
 - SPRINKLERS, 4 HR. FIREWALLS
 $F = 2500 \text{ G.P.M.}$
- DENOTES FIRE LANE

STREETLIGHTS

250 WATT H.P.S.	2 EA.
1/4" PVC CONDUIT	120 LF

CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF SEWER STUB(S) PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER.

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APPROVAL :

L.V.V.W.D. DATE

Richard A. Barnes 6-26-90
C.L.V. FIRE MARSHALL DATE

Laurel Jackson 6-6-90
NEVADA POWER CO. DATE

NEVADA POWER COMPANY APPROVAL IS ONLY FOR THE PLACEMENT AND CLEARANCE OF STREET LIGHT AND SIGNAL LIGHT INSTALLATIONS.

PROJECT NAME: Cheyenne Village Shopping Center
This project after plan compliance with the Las Vegas Valley Water District's technical requirements; however, this water plan is NOT APPROVED FOR CONSTRUCTION at this time.

27-76 9-11-90
L.V.V.W.D. DATE

TITLE

WD NO. 3310

BY MAP

DATE 4-6-90

SCALE 1" = 40'

SHEET

3

OF 3 SHEETS

3074-1059 a

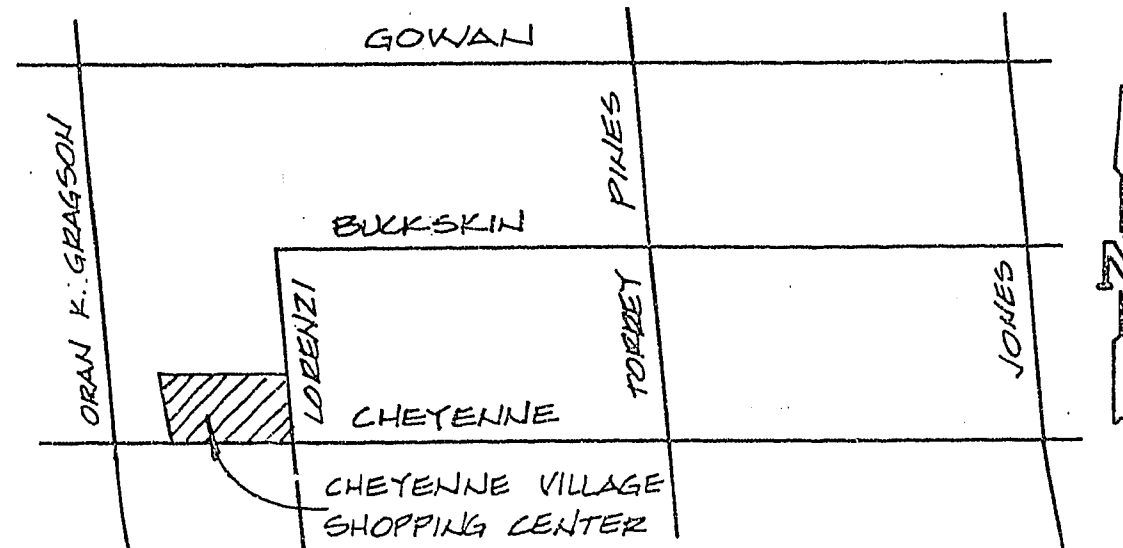
MASTER UTILITY PLAN

CHEYENNE VILLAGE SHOPPING CENTER

VTN nevada

CONSULTING ENGINEERS - PLANNERS
2300 PASEO DEL PRADO BUILDING A SUITE 100
LAS VEGAS, NEVADA 89102 PHONE (702) 873-7550

VICINITY MAP



Call before you Dig
1-800-227-2600

EXACT LOCATION OF GAS LINE UNKNOWN. CONTRACTOR TO USE EXTREME CAUTION WHEN DIGGING IN THIS AREA.

REV. 9-7-94

CHARLESTON HEIGHTS DEV. CO.
CITY OF LAS VEGAS

REVISION	DATE	BY	REVISION
1	15-6-92	TEH	REV. WATER MAINS, SCOPE OF PROJECT, ON-SITE
2	11/11/92	TEH	REV. TO SHOW AS-BUILT PLOT/CLIP LOCATION
3	12/11/92	TEH	PENETRATION LATERAL MAP AS EXISTING
4	11/04/94	TEH	STREETLIGHT CONSTRUCTION NOTE 11-09-94