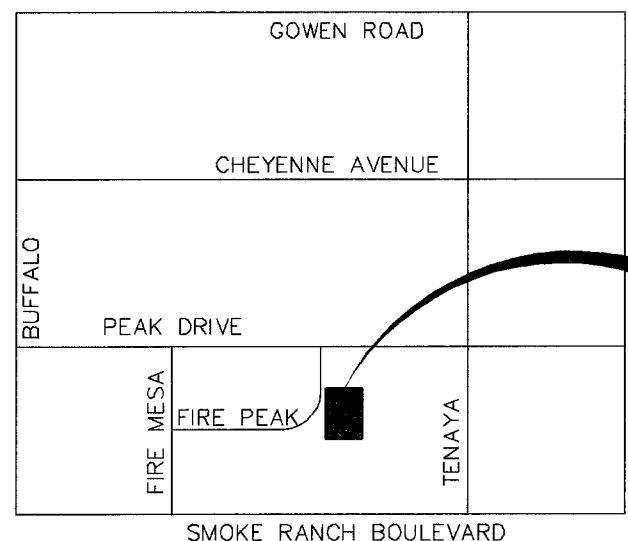


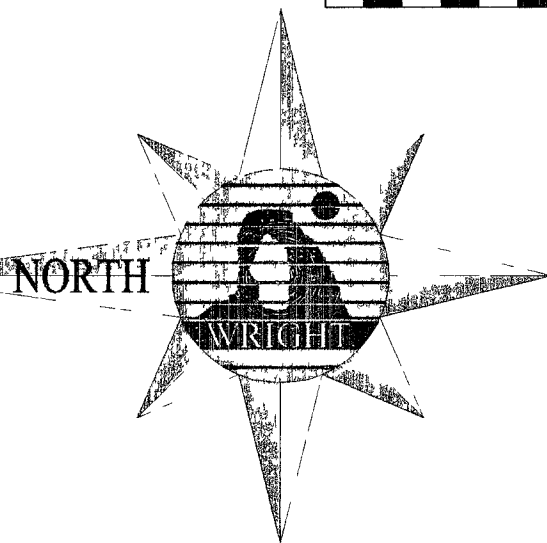
BUFFALO CHANNEL

EX. 42" RCP PER CLV
PLAN #107-V-3118-2



VICINITY MAP
NO SCALE

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft



LEGEND

- RIGHT OF WAY
- PROPERTY LINE
- STREET CENTER LINE
- EXISTING BUILDING
- EXISTING CURB
- PROPOSED CURB
- EXISTING EDGE OF A.C. PAVEMENT
- PROPOSED SEWER LINE
- PROPOSED WATER LINE
- PROPOSED SEWER CLEAN OUT
- PROPOSED SEWER MANHOLE
- EXISTING SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- 6" SEWER LATERAL W/ WYE
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- PROPOSED ON-SITE STREET LIGHT
- CONSTRUCTION NOTE
- WATER OR SEWER CAP

SEWER CONTRIBUTION:

DAILY AVERAGE FLOW 0.0056 MGD
PEAK FLOW 0.0167 MGD

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT
PROJECT NO. 111231

APPROVED FOR CONSTRUCTION

DATE: 02/23/05
BY: [Signature] 3,160.86

CLV FIRE DEPARTMENT APPROVED

DATE: 02/23/05
BY: [Signature] 3,160.86

BASIS OF BEARING

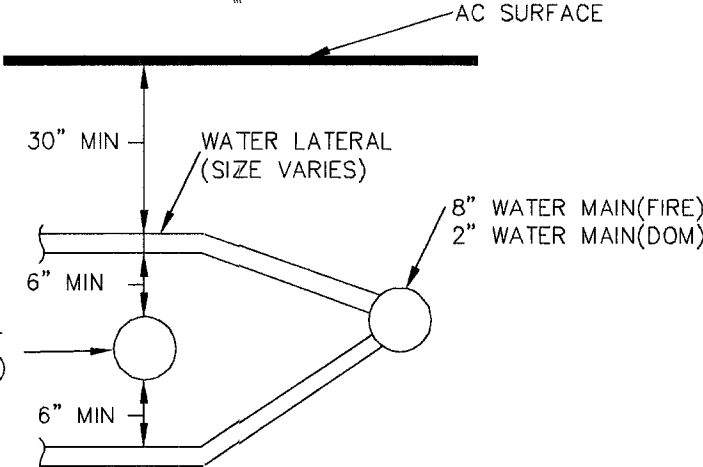
SOUTH 89°40'51" EAST
BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 15, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., SAME BEING THE CENTERLINE OF SMOKE RANCH ROAD AS SHOWN ON FILE 120, PAGE 35 OF SURVEYS

LEGAL DESCRIPTION

BEING A PORTION OF THE LAS VEGAS TECHNOLOGY CENTER, COMMERCIAL SUBDIVISION, LOCATED IN THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 15, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., A PORTION OF APN 138-15-310-028

BENCHMARK

BENCHMARK NO.: 839
SLV00
22NNW6
RIVET & PLATE IN TOP OF CURB, @ SW CORNER OF SMOKE RANCH & BUFFALO CHANNEL
ELEVATION = 727.4462 METERS
(2386.63 U.S. SURVEY FEET) NAVD83 DATUM
METERS X (3937 / 125) = U.S. SURVEY FEET
1 THE ELEVATIONS SHOWN HEREON ARE BASED ON FEET.



WATER/SEWER CROSSING

PER UDACS SECTIONS 2.19.02 B1 THRU B3

FIRE FLOW CALCULATION

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 PSI RESIDUAL
BASED ON:
SQUARE FOOTAGE 16,245 S.F.
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: 16,245 S.F.
BUILDING HEIGHT 25'-0"
TYPE OF CONSTRUCTION TYPE III-B
OCCUPANCY GROUP B
FULL AUTOMATIC FIRE SPRINKLER SYSTEM YES

FIRE HYDRANT LOCATION DETAIL

SCALE: NONE

FIRE PEAK DRIVE (40' PRIVATE STREET)

ABANDONED VALVE CUT AND CAP

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON THE PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLAT #5 ESN.033 REV 6/1/04.

INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY (1) 8"

THE DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE U.D.A.C.S. PLATE No 11C

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE No 11-A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LAS VEGAS VALLEY WATER DISTRICT.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

INSTALLATION OF METER (1) 1"

THE METER(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE U.D.A.C.S. PLATE No. 1D, LATEST REVISION.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

CONSTRUCTION NOTES

1. INSTALL 8" D.C.D.A. PER UDACS PLATE #11C
2. INSTALL 1" METER FOR POTABLE WATER SUPPLY PER UDACS PLATE #1D
3. INSTALL 1" RPPA PER UDACS PLATE #11A
4. INSTALL FIRE HYDRANT AND APPURTENANCES PER UDACS PLATE #7
5. REMOVE CAP & CONNECT UTILITY
6. INSTALL 1" 90° BRASS ELBOW
7. INSTALL 90° ELBOW SAME SIZE PIPE W/ THRUST BLOCK PER UDACS PLATE #5
8. INSTALL 22.5° BEND SAME SIZE PIPE W/ THRUST BLOCK PER UDACS PLATE #5
9. INSTALL 8"x8" REDUCER W/ ANCHOR BLOCK PER UDACS PLATE #3
10. INSTALL 8"x6" TEE W/ THRUST BLOCK PER UDACS PLATE #5
11. 10'x15' LVVWD EASEMENT
12. REMOVE & RELOCATE EX. STREETLIGHT
13. STUB & CAP
14. REMOVE CAP AND BLOW OFF PER UDACS PLATE #4A, NOTE #1, & CONNECT TO EXISTING MAIN
15. INSTALL 1 1/2" 90° ELBOW

89240

WRIGHT ENGINEERS

7425 PEAK DRIVE
LAS VEGAS, NEVADA 89128
TEL (702) 933-7000
FAX (702) 933-7001



THOMAS & MACK DEVELOPMENT GROUP

WRIGHT WORLD HEADQUARTERS II

UTILITY PLAN

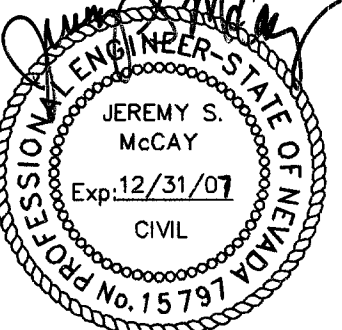
DATE: 02/23/05

DATE: 02/23/05

DATE: 02/23/05

SCALE: 1"=30'

PROJECT NO: 250901



3-15-04

SHEET

U1

6 OF 6 SHEETS

DRAWING NO

107Y 3620-Z