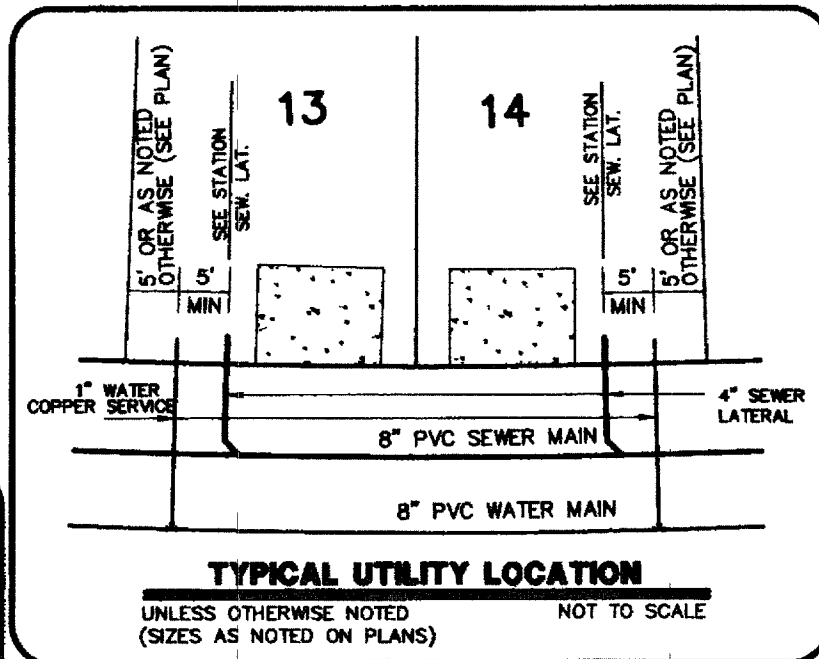


REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY 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. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

NOTE
LOTS 24-38, 86-97, 105-110
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

NOTE TO CONTRACTOR
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 27.



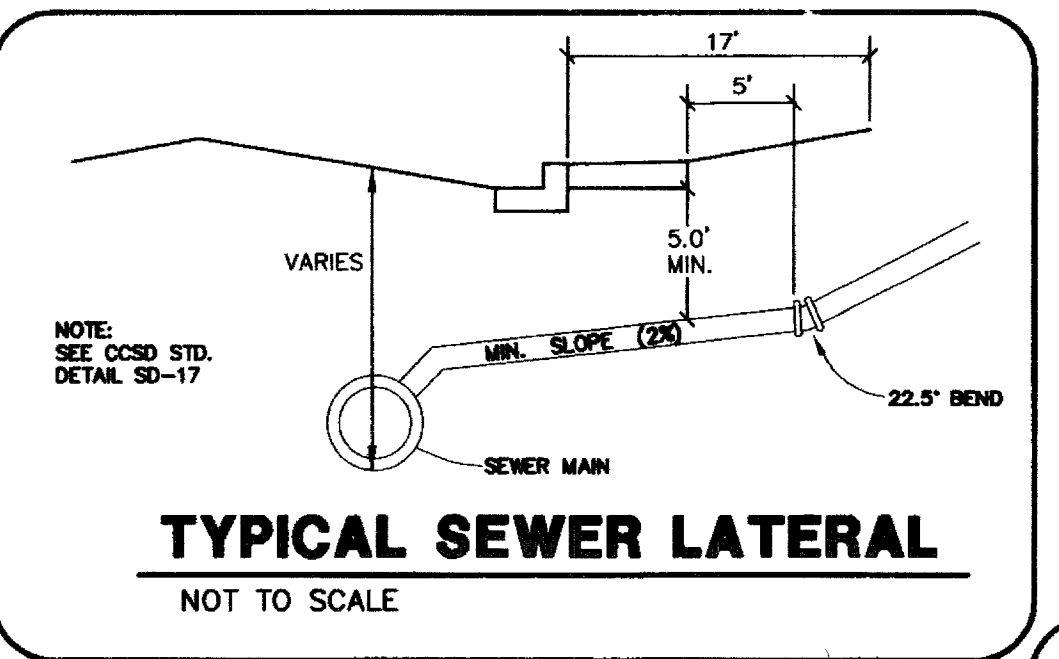
Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)
1-702-593-6111

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1500 gallons per minute at 20 psi residual pressure.

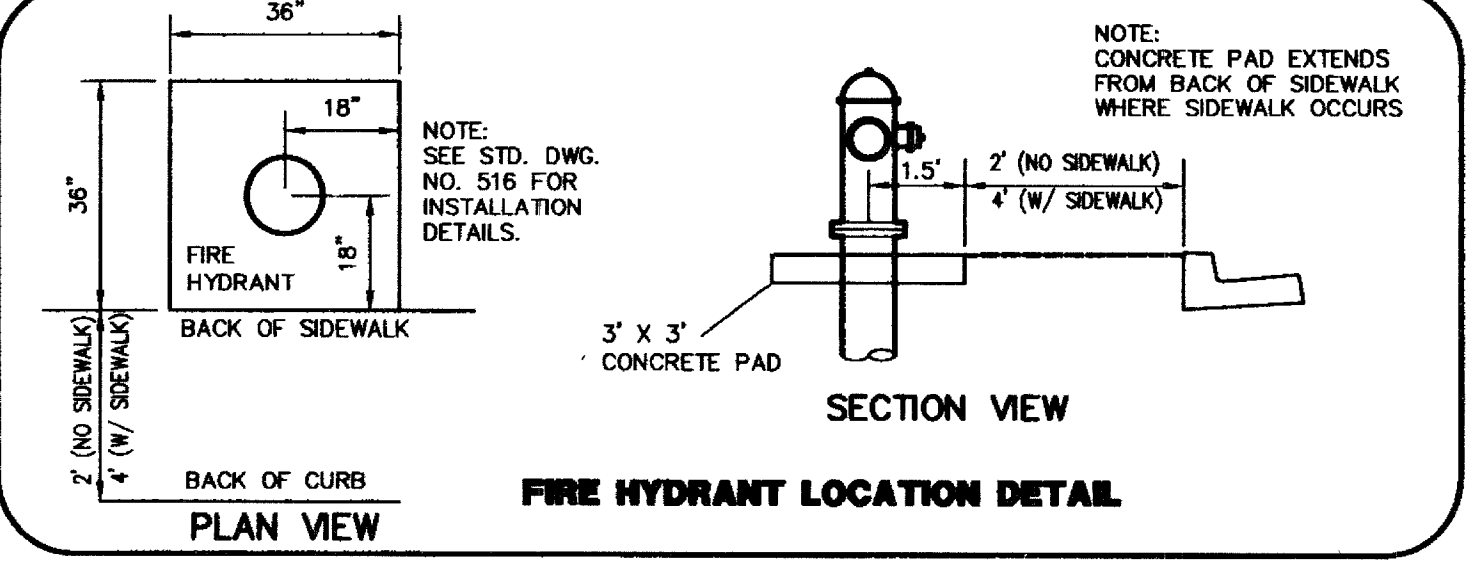
Based on:

BUILDING A:	
SQUARE FOOTAGE:	< 3600 SF
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SF
BUILDING HEIGHT:	30 FEET
NUMBER OF STORIES:	2
TYPE OF CONSTRUCTION:	TYPE V-N
OCCUPANCY:	R3
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO



BENCHMARK

CLV BM NO.	DESC.	NAVD 88 DATUM	NAVD 88 DATUM
D368 3	U.S.C. & G.S. BRASS DISC SET IN ROCK ON THE EAST SIDE OF CHARLESTON BOULEVARD AND SOUTH OF THE RED ROCK DETENTION BASIN.	3246.71 (FEET)	989.599 (METERS)



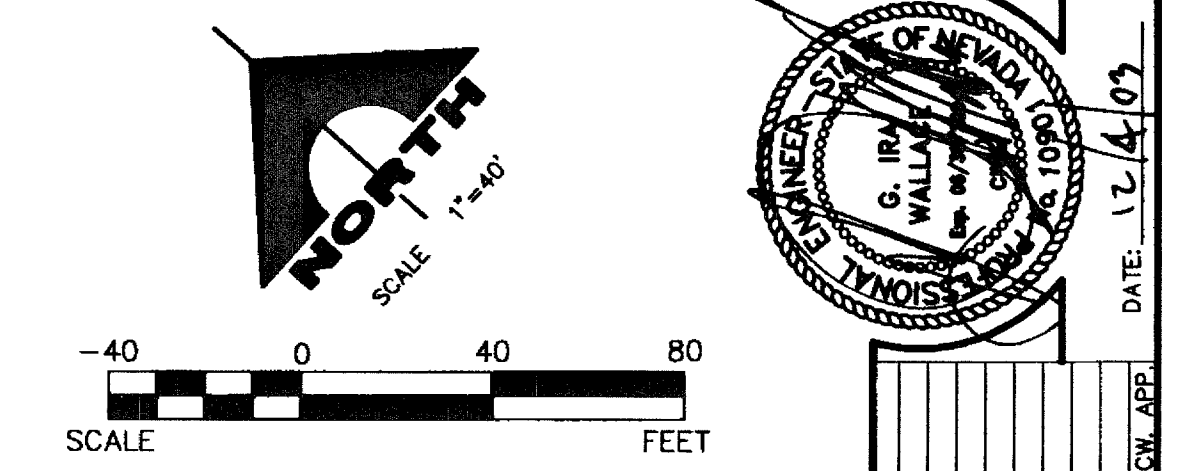
SEE SHEET C-03 FOR SEWER MANHOLE TABLE

ALL SEWER/STORM DRAINS CROSSING WATER LINE MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

NOTE: CONCRETE PAD EXTENDS FROM BACK OF SIDEWALK WHERE SIDEWALK OCCURS.

NOTE: ALL PRIVATE ST. ARE P.U.E.'S, PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

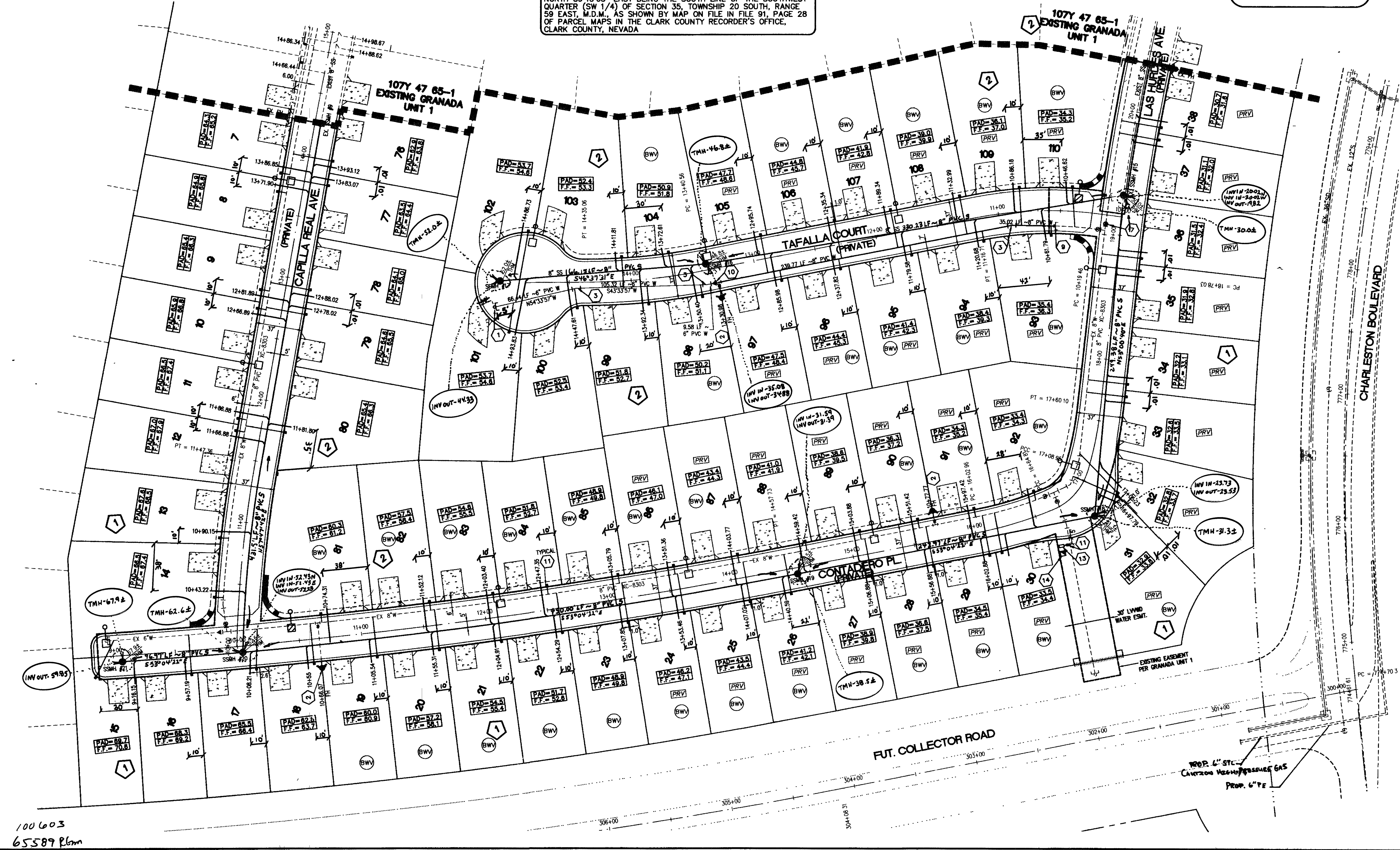
SERVICE LATERAL FOR LOTS : 7-38, 76-92, 110 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVVWD.



- CONSTRUCTION NOTES**
- CAP & 2" B.O. ASSEMBLY (PER UDACS PLT. 4A)
 - FIRE HYDRANT ASSEMBLY (PER UDACS PLT. 7)
 - 8" 11 1/4" BEND
 - REMOVE EXISTING B.O. ASSEMBLY & CAP AND CONNECT TO EX. WATERLINE. CONTRACTOR SHALL VERIFY SIZE, LOCATION, AND INVERT OF EX. WATERLINE (SEE UDACS PLATE 4A NOTE 1)
 - 8" X 6" REDUCER
 - UDACS 10 (5/8")
 - RPPA PER UDACS PLATE 11A (1")
 - SERVICE PEDESTAL FOR IRRIGATION METER
 - Install 8" Gate Valve

SEWER
DAILY AVERAGE: 77 ERU'S X 250 GPD/ERU = 19,250 GPD
PEAK FLOW: 19,250 X 3.4 (PF) = 65,450 GPD

BASIS OF BEARINGS
NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, W.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA



- UTILITY LEGEND**
- BLOCK NUMBER
 - PRV PRESSURE REDUCING VALVE
 - W WATER LINE
 - W EXISTING WATER LINE
 - W WATER SERVICE 5/8" TYP.
 - GV GATE VALVE
 - EX GV EXISTING GATE VALVE
 - W 2" BLOW OFF
 - FW FIRE HYDRANT
 - EX FW EXISTING FIRE HYDRANT
 - PRV PRESSURE REDUCING VALVE
 - WV BACK WATER VALVE
 - SL SEWER LATERAL
 - SLW SEWER LINE/SSMH
 - EX SMH EXISTING SEWER MANHOLE
 - CONCRETE DRIVEWAY
 - FF=19.9 FINISH FLOOR
 - SL SUMMERLIN TYPE 3B 100W HPS LUMINAIRE
 - SL SUMMERLIN TYPE 3A 150W HPS LUMINAIRE
 - SL FUTURE STREET LIGHT

APPROVED FOR CONSTRUCTION
[Signature]
CLV FIRE DEPARTMENT
DATE: 2/26/04

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT
DATE: 2/26/04