

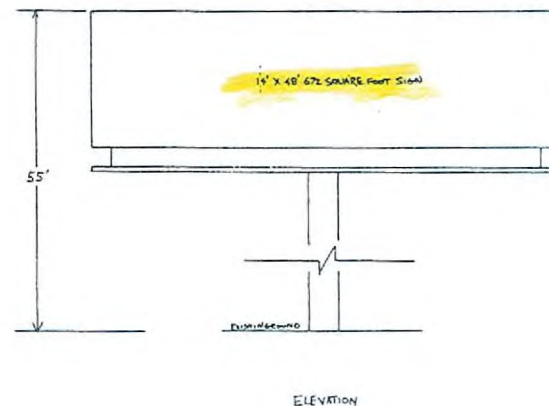
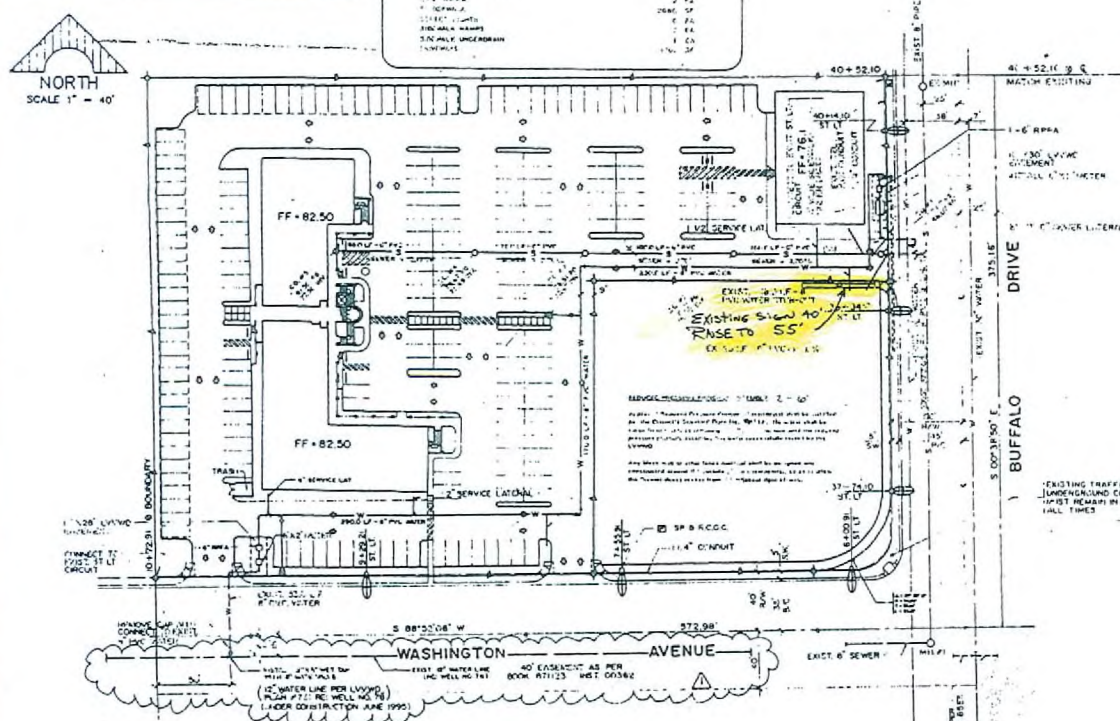
1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPOKOGRAPH", "HYDRANT INSTALLATION SPOKOGRAPH" AND ORDINANCE #8-75.
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 - a. EXISTING HYDRANT
 - b. HIGHER THAN CITY CENTER
 - c. LOW HOSE, 25' INSTALLATION
3. ON ANY PIPE OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMMENCING CONSTRUCTION COMMENCED AND THE FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
4. CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTRELINE OF STREET IN ACCORDANCE TO THE CITY OF LAS VEGAS IN ORDER TO BE IDENTIFIED BY THE CITY FIRE HYDRANT LOCATIONS.
5. CALL THE LAS VEGAS BUILDING DEPARTMENT AT (702) 251-1111 FOR UNDERGROUND UTILITIES, PRESSURE AND FLOW VERIFICATION OF ALL FIRE HYDRANTS AND THE LINES BEFORE CONSTRUCTION.
6. PLANTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE FOR ORDINANCE #8-75 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTORS MATERIAL AND TEST RESULTS FOR UNDERGROUND PHYSIC FLOW SHALL BE INSTALLED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGANNING.
8. A FLOW TEST MUST BE INSTALLED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
9. ALL ON-SITE FIRE PIPE MATERIALS MUST BE U.S. LISTED AND AWWA APPROVED.
10. FIRE HYDRANT SPACING:
 - a. RESIDENTIAL - 500 FEET MAXIMUM SPACING, 800 FEET SPACED.
 - b. COMMERCIAL - 500 FEET MAXIMUM SPACING, 1000 FEET SPACED.
 - c. INDUSTRIAL - 500 FEET MAXIMUM SPACING, 1000 FEET SPACED.
11. NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CURB OR SIDEWALK OR WITHIN 20 FEET OF THE JUNCTION OF THE JOINTS OF THE CURB OR SIDEWALK.
12. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 8 FEET OF ANY CURB OR RAMP, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
13. NOT MORE THAN 2 HYDRANTS CAN BE OFF OF SERVICE DUE TO A SINGLE MAIN BREAK.
14. THE RUNNING RADII OF ALL FIRE APPARATUS ACCESS ROADS AND/OR FIRE LINES, PUBLIC OR PRIVATE SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 33 FEET INSIDE RADIUS.
15. A FIRE APPARATUS ROAD SHALL BE DESIGNATED WITH ANY PORTION OF AN EXISTING OR NEW STREET THAT IS LOCATED MORE THAN 100 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. (SEE 6.06.01.01.01 SECTION 10.0.0.0)
16. ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LINES PUBLIC OR PRIVATE IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURNAROUND AND A 180° TURN.
17. ELECTRICAL LINES WITHIN 10 FEET OF ANY FIRE APPARATUS ACCESS ROAD OR FIRE LINE SHALL BE PROTECTED BY A 10' MINIMUM RADIUS TURNAROUND AND A 180° TURN.

ESTIMATE OF QUANTITIES

1. 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 OGT-WTE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.

[illegible]

 FIRE HYDRANT W/ 8" R.V.
 WATER LINE
 SEWER LINE
 SEWER LATERAL
 GATE VALVE
 SEWER MANHOLE
 1 1/2" PVC CONDUIT (ST. LT.)
 1500 NPS LAMINAIRE W/ 11 GA. POLE
 1000 NPS LAMINAIRE W/ 11 GA. POLE
 RD. 2 1/2" CONC. P.O.L. BOX W/ METAL COVER
 COVERED MANHOLE



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06/11/09 PC

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DeLUNA, INC.
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ROCK SPRINGS VISTA COMMERCIAL
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107-V2354