

LEGEND & QUANTITIES

GENERAL

- EX. CLEWER
EX. WATER
100 W. H.P.S. ST. LIGHT POLE
AND FOUNDATION
SERVICE POINT & P.C.O.C.
4" STANDARD MANHOLE & 30" MAIN
FIRE HYDRANT ASSEMBLY
8" WATER MAIN & GATE VALVE
EX.
TRASH ENCLOSURE

WATER

- 1 STD. FIRE HYD. VALVE & G.S.S. 2 EA.
2 10" CROSS 1 EA.
3 10" x 6" TEE 1 EA.
4 2 1/2" GATE VALVE 1 EA.
5 4" GATE VALVE 1 EA.
6 10" GATE VALVE 5 EA.
7 6" DETECTOR CHECK VALVE & G.S.S. 1 EA.
8 2" METER & SERVICE 2 EA.

- 10' ACP WATER LINE 1070 L.F.
6" PVC WATER LINE 135 L.F.
4" PVC WATER LINE 135 L.F.
2 1/2" PVC WATER LINE 1 EA.
2 BLOW OFF ASSEMBLY 1 EA.
10' 18" REDUCER 1 EA.
10' 18" ELB. 1 EA.

SEWER

- 6" CLEAN-OUT
6" PVC SEWER LATERAL

STREET LIGHT

- 11 GA. STANDARD 14 EA.
100 WATT H.P.S. 15 EA.
1 1/2" PVC CONDUIT & CONDUCTOR 2345 L.F.
3 1/2" FULL BOX 4 EA.

NOTE: SEE SHTS 4 & 5 FOR TRAFFIC DELINEATION

C L V STREETLIGHT NOTES

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 OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.
2. NEW SERVICE REQUIRED

C L V FIRE DEPT. NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS" AND "HYDRANT INSTALLATION SPECIFICATIONS".
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
A - KENNEDY GUARDIAN
B - MUELLER A-423 CENTURIAN
3. ON ANY NEW HOME OR BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMPLETION OF CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
4. CONTRACTOR SHALL PLACE A GREEN REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANTS.
5. CALL THE LAS VEGAS FIRE DEPARTMENT AT 383-2888 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
6. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER THE "HYDRANT INSTALLATION SPECIFICATIONS" SHALL BE COMPLETED BEFORE APPROVAL OF THE HYDRANTS BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.

C L V SEWER NOTES

1. ALL SANITARY SEWER 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.
2. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
3. POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE II GRAVEL.
4. ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
5. THE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
6. ALL ONSITE SANITARY SEWER WILL BE PRIVATELY OWNED AND MAINTAINED.

Call before you Dig.

1-800-227-2600

CITY OF NORTH LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
General Water Line Construction Notes

1. All work shall conform to the City of North Las Vegas Standards and the most current edition of the Uniform Standard Specifications for Public Works Construction, Office Improvements, Clark County Area, Nevada.
2. Notice shall be given to the City of North Las Vegas Public Works Department 48 hours prior to actual construction.
3. Water service connections shall be made with capped collars or service clamps with double flat silicon bronze straps and bronze nuts. Double top collars shall not be permitted.
4. All valve boxes shall have an 8" thick concrete collar poured 2" below finish grade.
5. All lines shall be pressure tested to 250 p.s.i.
6. All water main and non-metallic services shall be installed with a locator ribbon in accordance with North Las Vegas Standard Drawings.
7. The installation of water meters shall be required on all water services.
8. Angle meter stops and angle tail pieces shall be installed on all 1/2" and 3/4" services.
9. Angle meter stops shall be installed at both the inlet and outlet side of all 1-1/2" and 2" meters.
10. All water meter boxes shall be equipped with a cast iron traffic cover.
11. Corporation stop, angle meter stop and service line shall be the same size.
12. Flared type couplings shall be used at all connections on copper lines.
13. Meter boxes shall be placed true to grade on plan. Where no curb exists, proposed elevation shall be obtained from the City Engineer.
14. Top of angle meter stop shall be a maximum of 8" and a minimum of 6" below meter box cover.
15. Meter assembly, consisting of angle meter stop, meter couplings and idler, shall be connected to water box.
16. All new fire hydrants to be installed shall conform to the most current edition of the Uniform Standard Specifications, Subsection 829.01, except that a 5/8" valve opening shall be required.
17. All water valves 12" and larger shall be butterfly valves and shall conform to the most current edition of the Uniform Standard Specifications, Subsection 829.02.23 (b).

GENERAL NOTES

1. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
2. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CITY INSPECTOR.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE CITY ENGINEER.
4. EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF THE UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS.
5. CONSTRUCTION TO BE PER UNIFORM STANDARD SPECIFICATIONS AND DRAWINGS, CLARK COUNTY AREA, NEVADA (LATEST EDITION).
6. TYPE V CEMENT TO BE USED IN ALL CONCRETE.
7. ALL MANHOLES, WATER VALVES, AND CLEANOUTS THAT LIE WITHIN THE LIMITS OF ROADWAY CONSTRUCTION SHALL BE PLACED AT SUBGRADE LEVEL. AFTER PLACEMENT OF THE ASPHALT PAVEMENT AND BASE MATERIALS, THE MANHOLES SHALL BE BROUGHT TO FINISH GRADE AND A COLLAR SHALL BE CONSTRUCTED FOR EACH MANHOLE. INSPECTORS ARE TO BE NOTIFIED IN ADVANCE TO INSPECT WORK AT THE TIME OF ADJUSTMENT.
8. CONTRACTOR SHALL FURNISH THE ENGINEER WITH AS-BUILT DRAWINGS SHOWING THE EXACT LOCATIONS OF ALL HOUSE CONNECTIONS.
9. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA", LATEST EDITION; THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY OF LAS VEGAS; DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CITY OF LAS VEGAS; ANY OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.
10. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
11. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY ALTERATIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
12. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE DESIGNED FOR A 2.5 BAG MIX WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45 (OR AS DESIGNED BY THE ENGINEER). MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.
13. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 1460 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:
AREA SEPARATION FIRE WALLS MUST BE IDENTIFIED.
SQUARE FOOTAGE 47,515
LARGEST AREA BETWEEN AREA SEPARATION WALLS 41,000
HEIGHT 1 STORY
TYPE OF CONSTRUCTION II NON-RATED
EXPOSURES NA
SPRINKLER SYSTEM YES
OCCUPANCY SCHOOL
ROOF CONSTRUCTION II NON-RATED
REVIEWED BY:
DATE:
GPM REQUIRED WITHIN 500 FT. OF ALL BUILDING AREAS.

NOTE: TOP OF CLEANOUTS TO BE ADJUSTED TO FG. UPON COMPLETION OF LANDSCAPING

CURVE DATA TABLE

CURVE	DELTA	RADIUS	TAN LENGTH
C1	89° 03' 03"	15.00	14.75
C2	89° 03' 03"	15.00	14.75
C3	89° 03' 03"	15.00	14.75
C4	89° 03' 03"	15.00	14.75

NOTE

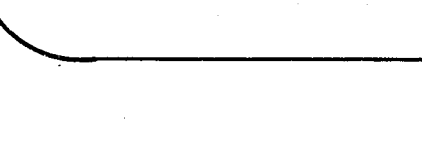
EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE ENGINEER BEARS NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE STARTING CONSTRUCTION AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES WITH THE UTILITY COMPANIES.

Larry K. McCallister
C.L.V. UTILITIES
9-15-88
DATE

PROJECT SITE



VICINITY MAP



SOUTHWEST ENGINEERING

LAND PLANNING • MAPPING • DEVELOPMENT

1725 S. RAINBOW BLVD. STE. 214 LAS VEGAS, NEVADA 89102
(702) 363-9790

MASTER UTILITY PLAN

CLAUDE H. & STELLA PARSONS
ELEMENTARY SCHOOL

W.O. No. 871022
BY BM
DATE 6/88
SCALE 1"=40'
SHEET 7
OF 7 SHEETS

715-63