

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION 5LV09 34NE6

RIVET AND PLATE IN TOP OF CURB AT THE NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE.

ELEVATION = 1007.197 METERS (NAVD'88)
ELEVATION = 3304.45 US SURVEY FEET (NAVD'88)

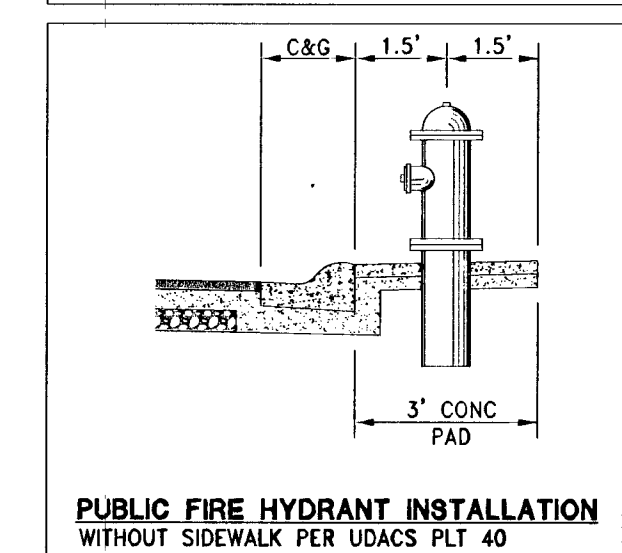
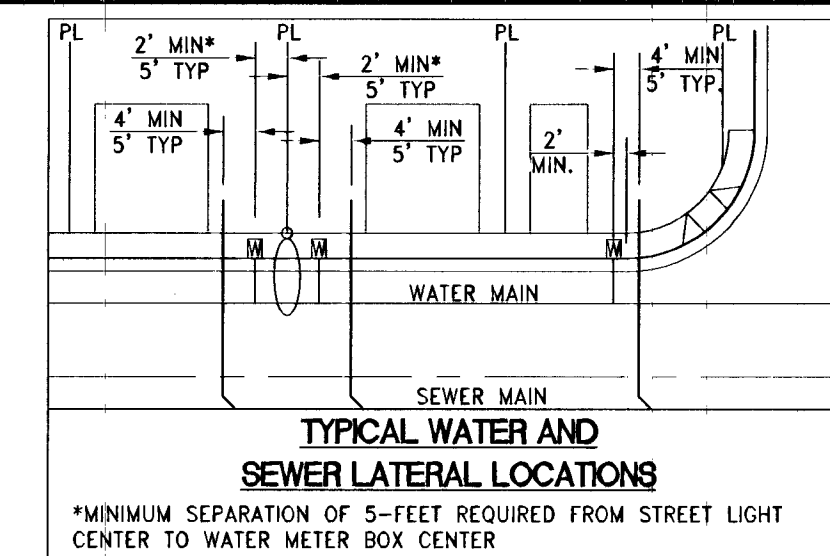
BASIS OF BEARINGS

NORTH 89°48'49" EAST, BEING THE BEARING OF THE NORTH LINE OF SECTION 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, W.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN BY MAP THEREOF ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

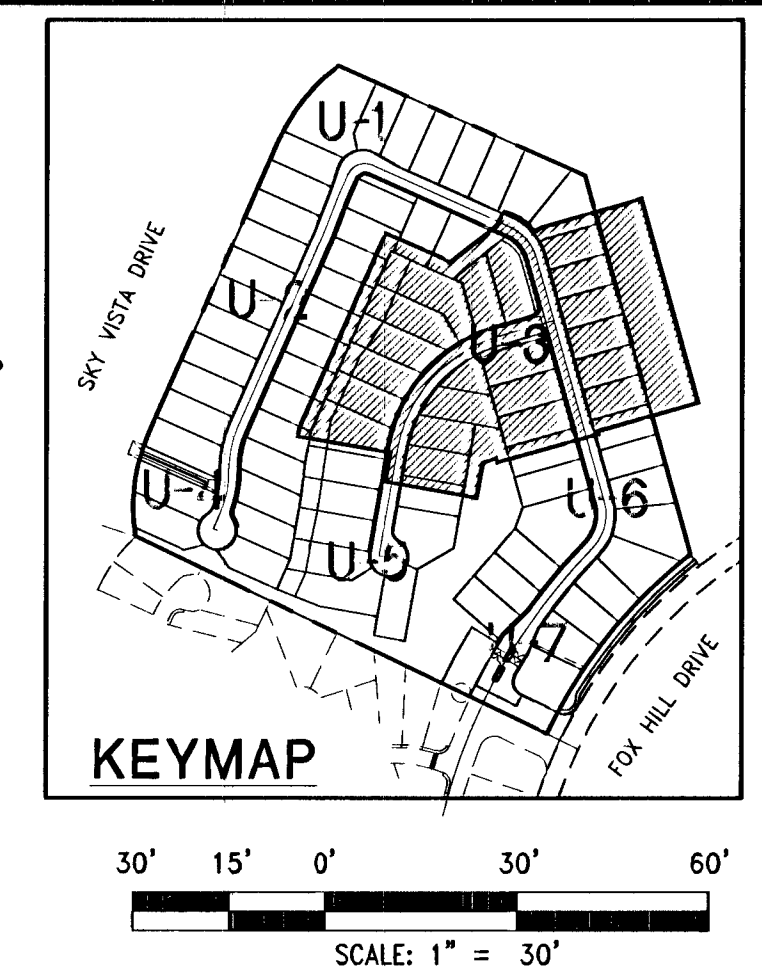
MATCHLINE SEE SHEET U-2

MATCHLINE SEE SHEET U-1

MATCHLINE SEE SHEET U-1



LOT UTILITY NOTE
THE PROPOSED RESIDENTIAL STRUCTURES ON LOTS 61A, 62A, 63A, 64A, AND 65A SHALL BE EQUIPPED WITH A FIRE SPRINKLER SYSTEM (TYPE 13-D)



- WATER CONSTRUCTION NOTES**
1. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 40 (INCLUDES 6" GATE VALVE)
 2. CONNECT TO EXISTING 8" WATER MAIN
 3. INSTALL 8" GATE VALVE PER UDACS PLATE No. 30 & No. 39
 4. INSTALL 8" X 8" TEE PER UDACS PLATE No. 31
 5. INSTALL 8" X 6" TEE PER UDACS PLATE No. 31
 6. INSTALL 12" X 8" REDUCER PER UDACS PLATE No. 30
 7. INSTALL 6" CAP WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE No. 36
 8. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" METER PER UDACS PLATE No. 2
 9. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" WATER METER (FOR IRRIGATION) WITH 1" RPPA PER UDACS PLATE No. 4 & 8 (1" BRASS WATERLINE BETWEEN METER AND RPPA)
 10. INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES
 11. INSTALL 8" 45° BEND PER UDACS PLATE No. 31
 12. INSTALL 8" 5° BEND PER UDACS PLATE No. 31 WITH RESTRAINTS
 13. INSTALL 8" 11.25° BEND PER UDACS PLATE No. 31
 14. COMMON ELEMENT/EASEMENT REQUIREMENTS PER NOTES AND TEST STATION DETAIL ON SHEET MU-1
 15. INSTALL 8" 22.5° BEND PER UDACS PLATE No. 31
 16. INSTALL 12" 90° BEND PER UDACS PLATE No. 31
 17. INSTALL 8" X 6" REDUCER PER UDACS PLATE No. 30
 18. INSTALL 6" 5° BEND PER UDACS PLATE No. 31 WITH RESTRAINTS
 19. INSTALL 8" VERTICAL 45° BEND PER UDACS PLATE No. 31
 20. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" METER PER UDACS PLATE No. 2 (INSTALL 13-D FIRE SPRINKLER SYSTEM) CUT CAP AND ABANDON 12" WTR LINE AT THIS POINT
 21. SEE (CUT AND CAP) NOTE
 22. INSTALL 1" SERVICE LATERAL WITH 3/4" METER PER UDACS PLATE No. 4
 23. INSTALL 6" 45° BEND PER UDACS PLATE No. 31
 24. INSTALL 6" 22.5° BEND PER UDACS PLATE No. 31

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	30.89	250.00	7.08	15.47
C2	20.24	250.00	4.64	10.13
C3	221.93	1197.05	10.62	111.29
C4	104.89	100.00	60.10	57.85
C5	87.87	100.00	50.35	47.00
C6	62.08	39.50	90.05	39.53
C7	45.31	500.00	5.19	22.67
C8	45.31	500.00	5.19	22.67
C9	91.52	210.50	24.91	46.49
C10	91.52	210.50	24.91	46.49
C11	337.49	300.00	64.46	189.13

- SEWER CONSTRUCTION NOTES**
1. INSTALL 48" STANDARD MANHOLE (PER DCSWS STD. No. 20-1A, SD-4, SD-5 & SD-9)
 2. INSTALL 4" SEWER LATERAL (PER DCSWS STD. No. SD-17, SD-22 & SD-25) AND 1 CU-FT THRUST BLOCK @ CAP
 3. TYPICAL LOCATION FOR SEWER LATERAL AT WATER MAIN CROSSING. ALL SEWER LATERALS MUST MAINTAIN 24" VERTICAL CLEARANCE BELOW WATER MAIN AT CROSSINGS.
- REDUCED PRESSURE PRINCIPLE ASSEMBLY (0) 1"**
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLIES SHALL BE INSTALLED PER THE UDACS PLATE No. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW 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 TO ALLOW THE DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

WATER MAIN JOINT DEFLECTION (PVC 4'-24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET. PER UDACS 2.07.01 AND 2.07.02
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.
NOTE:
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE No. 15

- NOTES**
1. ADJUST WATER VALVE BOXES TO FINISH GRADE PER UDACS PLATE No. 39. VALVES SHALL BE ACCESSIBLE AT ALL TIMES.
 2. ALL SEWER/STORM DRAINS CROSSING WATERLINES MUST CONFORM TO SECTION 2.22 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
 3. ALL WATER PIPE DIMENSIONS SHOWN ARE GIVEN FROM FITTING TO FITTING AND ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL DIMENSION PRIOR TO CONSTRUCTION.

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL
BY: *[Signature]* DATE: 9/19/14
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR ANY APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD.
FIRE FLOW 1.750 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION 1ST APPROVED ON 05/22/14
BY: *[Signature]* DATE: 9/19/14
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT # 122465
LVVWD APPROVED FIRE FLOW 1.750 GPM AT 20 PSI RESIDUAL

BACKWATER VALVE
ALL LOTS WITH THIS SYMBOL REQUIRE A BACKWATER VALVE

WASTEWATER FLOW CALCULATION
CALCULATIONS:
78 ERU (78 LOTS) * 250 GPD = .0195 MGD
= 0.0195 MGD PEAK

UTILITY LATERAL NOTE
WATER AND SEWER LATERAL STATIONS SHOWN ON THIS PLAN SET ARE CALCULATED AT THE BACK OF CURB

EXISTING UTILITY NOTE
1. EXISTING UTILITIES AS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY BOTH VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ENGINEER ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN INCORRECTLY OR OTHERWISE NOT SHOWN.

DISCLAIMER NOTE:

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

Avoid overhead power line contact. It's costly.
Call before you dig
before you overhead
1-702-227-2929
Nevada Power
Environment and Safety
Services Department

Call before you dig
before you overhead
1-800-227-2600
CLARK COUNTY TRENCH OPERATIONS
1-702-455-7544

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LAS VEGAS, NV 89144
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RCI Engineering
4325 Dean Martin Drive Suite 300, Las Vegas, NV 89103
PHONE: 702-453-0800 FAX: 702-453-0801

**MONTECITO AT SUMMERLIN VILLAGE 23B PARCEL X
A SINGLE FAMILY RESIDENTIAL SUBDIVISION
UTILITY PLAN (SHEET 3 OF 7)**

CITY OF LAS VEGAS
8/30/14

JOHN I. LAND
Exp. 12/31/2015
NO. 16441
STATE OF NEVADA

U-3
SHEET 16 OF 40
CLV DRAWING NUMBER
1074997
H#-53318