

**ASBUILT**

WESTERN STATES CONTRACTING, INC.  
4129 W. CHEYENNE AVE. SUITE B  
N. LAS VEGAS, NV 89002

INSTALLED  
PER  
PLAN

MATCHLINE - SEE SHEET U-1

**BOOSTER PUMP NOTE**  
THE BOOSTER PUMP WILL BE SIZED TO PROVIDE A MINIMUM OF 60 PSI AT THE POINT OF CONNECTION TO THE MOST REMOTE BUILDING. BOOSTER PUMP WILL BE DIFFERENT SUBMITTAL.

**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.

**WARNING FIRE LINE (NON-POTABLE WATER)**  
ALL EXISTING, RELOCATED OR PROPOSED HDPE/PPA INSTALLATIONS, TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.

**EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCKWALL OR FENCE**  
TREES, SHRUBS OR DECORATIVE ROCKS AND ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VALLEY(S), BACKFLOW ASSEMBLY AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

**NOTE**  
ALL ABOVE-GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 & 19.08

**ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.**

**FIRE FLOW CALCULATIONS**  
FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE.

USE/OCCUPANCY	BUILDING 1	BUILDING 2
TYPE OF CONSTRUCTION (IBC)	TYPE A-3	TYPE A-3
AUTOMATIC FIRE SPRINKLERS	YES	YES
SQUARE FOOTAGE	8,833 SF	5,142 SF
LARGEST AREA BETWEEN 4 HOUR WALLS	N/A	N/A
BUILDING HEIGHT	3'-2"	2'-4"
NO. OF STORES INCLUDING BASEMENT	NO	NO
HIGH PILED COMBUSTIBLE STORAGE	NO	NO
NO. OF HYDRANTS INSTALLED	NO	NO

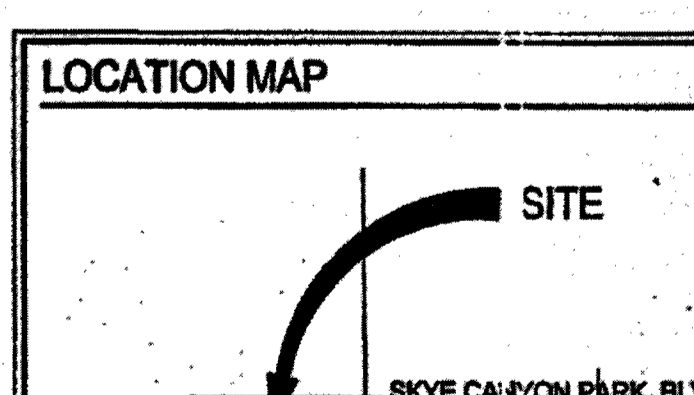
**WATER NOTES**

1. FIELD VERIFY LOCATION, AND CONNECT TO EXISTING WATER WITH NEW METER, SIZE PER PLAN, PER UDACS PLATE NO. 4
2. INSTALL RPPA, SIZE PER PLAN, PER UDACS PLATE NO. 8
3. INSTALL 10" RPPA (WATTS 90RPPA) PER UDACS PLATE NO. 89 AND PER LV TITLE 19.06/08 (UTILITY BOX INSTALLATIONS).
4. 4" C900 PVC WATER PIPE (3090 WP2)
5. 8" C900 PVC WATER PIPE (3090 WP2)
6. LESS THAN 1" PIPE DEFLECTION
7. 5 DEGREE BEND W/ RESTRAINED JOINTS, SIZE PER PLAN.
8. 11.25 DEGREE BEND W/ THRUST BLOCKS PER UDACS PLATE NO. 18 PER PLAN.
9. 22.5 DEGREE BEND W/ THRUST BLOCKS PER UDACS PLATE NO. 10
10. 45 DEGREE BEND W/ THRUST BLOCKS PER UDACS PLATE NO. 36
11. 90 DEGREE BEND W/ THRUST BLOCKS PER UDACS PLATE NO. 31, SIZE PER PLAN.
12. 180 DEGREE BEND W/ THRUST BLOCKS PER UDACS PLATE NO. 31, SIZE PER PLAN.
13. 2" W/ THRUST BLOCKS PER UDACS PLATE NO. 31, SIZE PER PLAN.
14. FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE PER UDACS PLATE NO. 31, SIZE PER PLAN.
15. GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39, SIZE PER PLAN.
16. SEE ARCHITECTURAL PLANS FOR CONNECTION TO BLDG.
17. 2" SOIL 40 PVC WATER PIPE (3090 WP2)
18. 4" SOIL 40 PVC WATER PIPE (3090 WP2)
19. 12" C900 PVC WATER PIPE (3090 WP2)
20. 10" C900 PVC WATER PIPE (3090 WP2)
21. 8" C900 PVC WATER PIPE (3090 WP2)
22. INSTALL CAP WITH THRUST BLOCK PER UDACS PLATE NO. 38 PER PLAN.
23. CROSS W/ THRUST BLOCKS PER UDACS PLATE NO. 31, SIZE PER PLAN.
24. 4" SOIL 40 PVC WATER PIPE (3090 WP2)
25. PROPOSED FDC, SEE ARCHITECTURAL PLANS
26. CONTRACTOR TO MAINTAIN CROSSING SEPARATION BY JOINT TRENCHING, BURY DEPTH OR REDUCTION OF AREA DRAIN.

**SEWER NOTES**

1. INSTALL 40" DIAMETER SANITARY SEWER MANHOLE WITH PRECAST BASE PER UDACS 30-1A
2. INSTALL 4" SDR35 PVC SANITARY SEWER PIPE
3. INSTALL SS CAP, SIZE PER PLAN
4. GREASE INTERCEPTOR, PER PLUMBING PLANS
5. REMOVE PLUG & CONNECT TO EXISTING SANITARY SEWER.
6. INSTALL 4" SDR35 PVC SANITARY SEWER LATERAL
7. SEE ARCHITECTURAL PLANS FOR CONNECTION
8. INSTALL 6" (PRIVATE) SDR35 PVC SANITARY SEWER PIPE
9. INSTALL SANITARY SEWER CLEANOUT, SIZE PER PLAN, PER UDACS DWG NO. 30-26
10. INSTALL 2" SDR35 PVC SANITARY SEWER BACKFLOW VALVE IN COMPLIANCE WITH UPC SECTION 710.1
11. INSTALL 12" SDR35 PVC SANITARY SEWER PIPE
12. INSTALL 320 GAL SAND/OIL INTERCEPTOR W/ SAMPLE BOX

**REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) (WATTS 90RPPA)**  
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE NO. 89. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS 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.



**RPPA (4) 1-1/2"**  
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 89. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. 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.

**GENERAL NOTES**

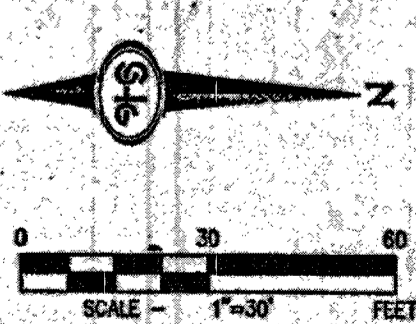
1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES INCLUDING LOCATION, ELEVATION, DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. SEE DETAIL SHEET D-1 FOR STREET SECTIONS AND DETAILS.
3. SEE SHEET C-2 FOR LEGEND, ABBREVIATIONS AND QUANTITIES.

APPROVAL  
*[Signature]* 9/24/15  
LAS VEGAS FIRE AND RESCUE  
DATE

APPROVED FOR CONSTRUCTION  
*[Signature]* 9/24/15  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER  
DATE: 9/24/15 PROJECT NO. 323572  
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
CALL BEFORE YOU DIG  
1-702-227-2929

Call before you Dig  
Call 811  
1-800-227-2600  
CALL BEFORE YOU DIG  
1-702-455-6000  
1-702-432-5300



**SLATER HANIFAN GROUP**  
CONSULTING ENGINEERS & PLANNERS  
8740 S. ARVILLE STREET #216, LAS VEGAS, NV 89119  
PHONE (702) 984-8300 FAX (702) 244-5389

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITS	9/24/15	AKK
2	ISSUED FOR PERMITS	9/24/15	AKK

CITY OF LAS VEGAS, NEVADA  
**NINETY-FIVE MANAGEMENT LLC**  
**SKYE CANYON PARK PHASE 1 ASBUILT**  
**UTILITY PLAN II**

DATE: 4/10/15  
DRAFTER: CS  
DESIGNER: DW  
CHECKED: DW  
PROJECT NO. **OLY1401.000**  
**U-2**  
SHEET 13 OF 15  
11458343  
650.109