

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE MUST BE GIVEN TO THE LVWD CUSTOMER SERVICE DEPARTMENT (872-1194) 48 HOURS PRIOR TO ACTUAL CONSTRUCTION AND 24 HOURS PRIOR TO AN INSPECTION.
- CALL BEFORE YOU DIG 1-800-227-2600.
- ALL WORK SHALL CONFORM TO LVWD LATEST STANDARD PLATES, DRAWINGS AND SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF SITE IMPROVEMENTS, CLARK COUNTY AREA.
- DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY WILL BE PERMITTED ON 1-1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
- COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS WILL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT SPECIFICATIONS TITLED "2003-COPPER WATER TUBING".
- THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACI	DUCTILE IRON	DUCTILE IRON
		SLIP JOINT	MECHANICAL JOINT
6 - 12 INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
14 - 18 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
18 - 24 INCH	2 DEGREES	1.5 DEGREES	1.5 DEGREES
		N/A	1.5 DEGREES

ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 1/2" FOR A 6" PIPE, 12 INCHES FOR 8" PIPE, 11 INCHES FOR 10" PIPE AND 9 INCHES FOR 12" PIPE.

- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS AND VALLEY GUTTERS.
- DETECTOR TAPE IS REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:
 - OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.
 - OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.
- ALL WATER MAINS ARE TO BE PRESSURED TESTED AT 200 PSI FOR A CONTINUOUS TWO HOUR PERIOD.
- ALL WATER MAINS AND LATERALS SHALL BE DISINFECTED AND FLUSHED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO ACCEPTANCE BY THE DISTRICT.
- CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LVWV.D. CENTRAL STORES. TELEPHONE: 258-3152. FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

RECOMMENDED DATE OF CONSTRUCTION: 10/27/10
 DATE OF ISSUE: 11/05/10
 MICHAEL D. ROSSIGNALE, P.E.
 P.E. NO. 10000
 CLARK COUNTY

Call before you Dig.
 1-800-227-2600
 (NEVADA STATE) (N.S.)

CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LVWV.D. CENTRAL STORES. TELEPHONE: 258-3152 - 48 HOURS PRIOR TO PICKUP.

STREET LIGHTING NOTE
 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. SEE UNIFORM STANDARD DRAWING NO. 319.

APPROVED FOR CONSTRUCTION
 DEL WEBB COMMUNITIES, INC. DATE

This approval is only for the placement and clearance of street light and signal light installations.
 (DATE)
 BY: NEVADA POWER COMPANY

FIRE DEPT. NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #3318.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 - A - KENNEDY GUARDIAN
 - B - MUELLER A-425 CENTURIAN
 - C - CLOW MODEL 2548 MEDALLION
- 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.
- CONTRACTOR SHALL PLACE A GREEN REFLECTIVE MARKER AT CENTER-LINE OF STREET ADJACENT TO FIRE HYDRANT.
- CALL THE LAS VEGAS FIRE DEPARTMENT AT 383-2888 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL PRIVATE FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
- PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #3318 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR WATER LINE AND FIRE HYDRANT INSTALLATIONS ON THE PRIVATE SIDE OF THE METER.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT FOR VERIFICATION OF ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND F.M. APPROVED.
- FIRE HYDRANT SPACING:
 - RESIDENTIAL - 800 FT. MAXIMUM
 - COMMERCIAL, INCLUDING MULTI-FAMILY - 500 FT. MAXIMUM
- FIRE HYDRANTS SHALL BE LOCATED WITHIN 500 FT. OF ANY CONSTRUCTION OR COMBUSTIBLE OPEN STORAGE.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT. OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FT. OF ANY CURB RETURN, BRINKING, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- ENSURE THAT FIRE HYDRANTS ARE CONNECTED TO A DEPENDABLE WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW.

LAS VEGAS FIRE DEPARTMENT
 Fire Flow Requirement is 1763 gallons per minute at 20 pounds per square inch residual.
 Based on:
 Square footage 5264
 Largest area between area separation walls: N/A
 Height: 21 FEET
 Type of Construction: FRAME/STUCCO
 Exposures: 15 FEET
 Sprinkler System: NONE
 Occupancy: RESIDENTIAL
 Roof Construction: TILE
 Review By: *Richard A. Barman*
 Date: 10/25/10

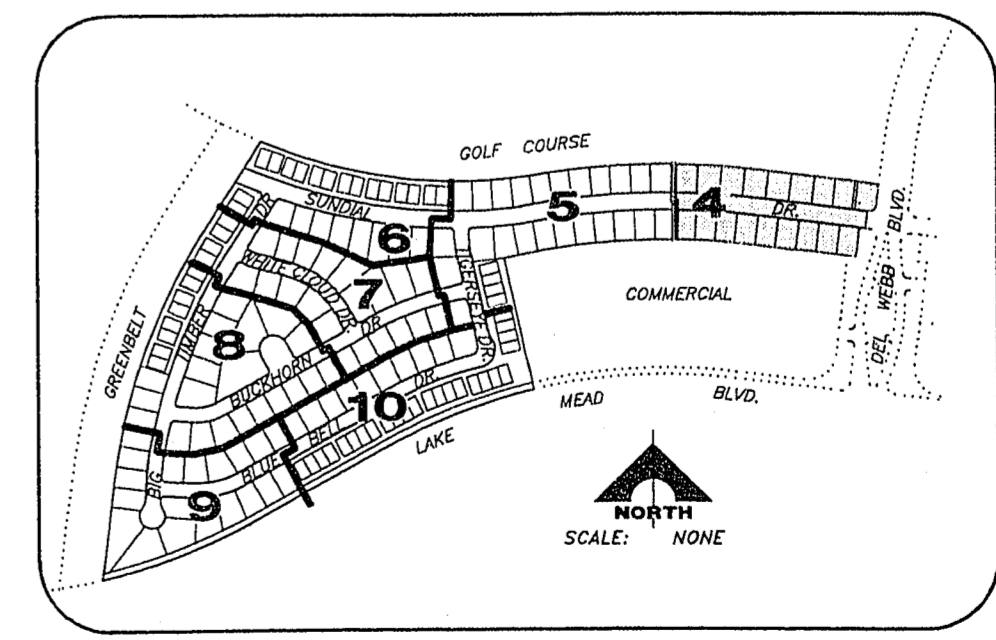
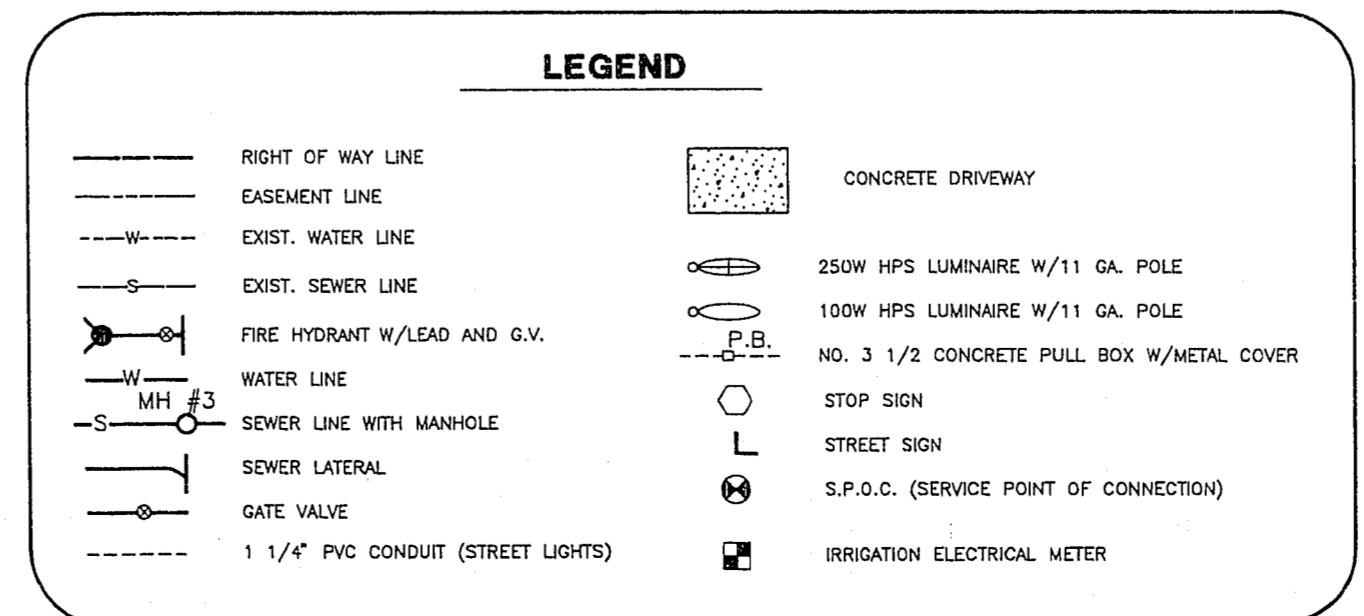
BENCHMARKS
 CLV BENCHMARK: TOP OF CURB AT END OF CURB, WEST SIDE OF DURANGO DRIVE, 250' SOUTH OF WESTCLIFF BOULEVARD. ELEVATION: 2610.16
 PROJECT BENCHMARK: BRASS CAP IN WEST CURB OF DEL WEBB BLVD., 100' SOUTH OF THE INTERSECTION OF DEL WEBB BLVD. AND SUN CITY BLVD. ELEVATION: 2593.15

ESTIMATE OF QUANTITIES

1. STD. F.H. W/6" G.V. & 6" A.C.P. LATERAL	10	EA.
2. 6" PVC	4,619	L.F.
3. 6" GATE VALVE	6	EA.
4. 6"-22 1/2" BEND	2	EA.
5. 6"-45" BEND	1	EA.
6. 6" X 6" TEE	8	EA.
7. 3/4" SERVICE W/METER BOX	172	EA.
8. 5/8" METER BY LVWV.D.	172	EA.
9. IRRIGATION METER	13	EA.
10. 6" X 6" REDUCER	3	EA.
11. 8" X 6" X 6" TEE	1	EA.
12. 8" PVC	1,710	L.F.
13. 8" GATE VALVE	4	EA.
14. 8" X 8" TEE	1	EA.
15. BLOWOFF	2	EA.

TRAFFIC SIGN QUANTITIES

1. 6" D-3 STREET NAME SIGN	9	EA.
2. 30" R1-1 STOP SIGN	1	EA.



APPROVED FOR CONSTRUCTION
 LAS VEGAS WATER DISTRICT
 DATE: 11-05-10

DESCRIPTION
 REV. DATE
 RECOMMENDED DATE OF CONSTRUCTION: 10/27/10
 DATE OF ISSUE: 11/05/10
 MICHAEL D. ROSSIGNALE, P.E.
 P.E. NO. 10000
 CLARK COUNTY

1555 SOUTH RAINBOW BLVD., LAS VEGAS, NEVADA 89102
G.C. WALLACE, INC.
 Engineering/Architecture

DEL E. WEBB COMMUNITIES, INC.
 SUN CITY SUMMERLIN UNIT NO. 23
UTILITY PLAN I

SHEET
4
 OF 26 SHEETS

JOB NO. 701.093