

Call before you Dig
1-800-227-2600

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGON ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE SHALL BE GIVEN TO THE LVWD CUSTOMER SERVICE DEPARTMENT (870-4194) 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 UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA.
- DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS SHALL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY SHALL 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 SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS AND STANDARD PLATES.
- THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR A.C.P. AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	A.C.P.	DUCTILE IRON SLIP JOINT	DUCTILE IRON MECHANICAL JOINT
8 INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
10 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
12 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
14 INCH	2.0 DEGREES	1.5 DEGREES	1.5 DEGREES
16 INCH	N/A	1.5 DEGREES	1.5 DEGREES

- ON P.V.C. PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE AND 9 INCHES FOR 10" AND 12" PIPE. IF THESE OFFSETS CONFLICT W/ THE PIPE MANUFACTURER'S RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
 - ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.
 - DETECTOR TAPE SHALL BE 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 SHALL BE PRESSURE TESTED AT 200 P.S.I. FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
 - ALL WATER MAINS SHALL BE DISINFECTED, FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAIN(S) AND/OR LATERAL(S) TO THE DISTRICT'S SYSTEM.
 - CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM L.V.W.D. CENTRAL STORES, TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

CITY OF LAS VEGAS SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- THESE STANDARDS SHALL APPLY TO ALL CONSTRUCTION.
- SEWER MAINS ONLY TO BE LAID IN SEWER TRENCHES.
- ALL LATERALS TO BE LAID AT NOT LESS THAN MINIMUM SLOPES AS SHOWN IN THESE STANDARDS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS, OR CHANGE, SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- SOILS TESTING SHALL BE DONE IN ACCORDANCE WITH SECTION 3.11 OF THESE STANDARDS.
- ALL EXFILTRATION, INFILTRATION, AIR TESTING AND TELEVISION OF LINES SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
- OUT SHEETS MUST BE SUBMITTED TO THE AGENCY BEFORE CONSTRUCTION WILL BE PERMITTED TO START.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.

NOTE: EMERGENCY CRASH GATE SHALL BE INSTALLED ON R. AND SHALL CONFORM TO THE EMERGENCY ACCESS DESIGN STANDARDS, CITY OF LAS VEGAS, NEVADA.

37" WIDE EMERGENCY ACCESS AND PUBLIC UTILITY EASEMENT

CONNECT TO EXIST. 12" WATERLINE STUB, STA. 17+32.00± 4' LT.

CITY OF LAS VEGAS 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 NO. 3545.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 - KENNEDY GUARDIAN
 - MUELLER A-423 CENTURION
 - CLOW MODEL 2546 MEDALLION
- ON ANY NEW HOME OR BUILDING INSTALLATION, 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 BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE NO. 3545 TO IDENTIFY FIRE HYDRANT LOCATIONS.
- CALL THE LAS VEGAS BUILDING DEPARTMENT AT 229-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL 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 NO. 3545 SHALL BE COMPLETED BEFORE APPROVAL, BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTORS MATERIAL, AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND F.M. APPROVED.
- FIRE HYDRANT SPACING:
 - RESIDENTIAL - 300 FEET UNSPRINKLERED 500 FEET SPRINKLERED
 - COMMERCIAL - 300 FEET UNSPRINKLERED 400 FEET SPRINKLERED (INCLUDING MULTI-FAMILY) 400 FEET SPRINKLERED
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6' OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT, OR ANY OTHER OBSTRUCTION.
- NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
- THE TURNING RADIUS OF ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
- A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. (SEE EXCEPTIONS IN U.F.C. 88, SECTION 0207).
- ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LANES PUBLIC OR PRIVATE IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURNAROUND AREA. SEE ORDINANCE NO. 3545.

SUMMERLIN STREETLIGHT NOTES

- ALL STREET LIGHTING INSTALLATIONS SHALL CONFORM TO THE LATEST ISSUE OF THE SUMMERLIN REVISED IMPROVEMENT STANDARDS, SEPTEMBER 1992.

TPC DRIVING RANGE

TPC GOLF COURSE

PHASE 2

PHASE 2 REFERENCE SHEET 10 FOR UTILITY PLAN

NOTE: SANITARY SEWERLINE LENGTHS SHOWN ARE MEASURED TO THE INSIDE FACE OF MANHOLE.

SEWER MATERIAL
8" PVC - JM SEWER FITTING, INC.

NOTE: AN "S" THREE (3) INCHES IN HEIGHT HAS BEEN CHISELED INTO THE TOP OF CURB DIRECTLY OVER THE SEWER LATERALS.

EXISTING SERVICES: LOTS 62, 63, 64, AND 112 INSTALLED W/ PHASE 2
IF ANY OF THE EXISTING SERVICES ARE INCORRECTLY LOCATED OR ARE NOT USED FOR ANY REASON, THE DEVELOPER SHALL ABANDON THE LATERALS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE.

BENCHMARK

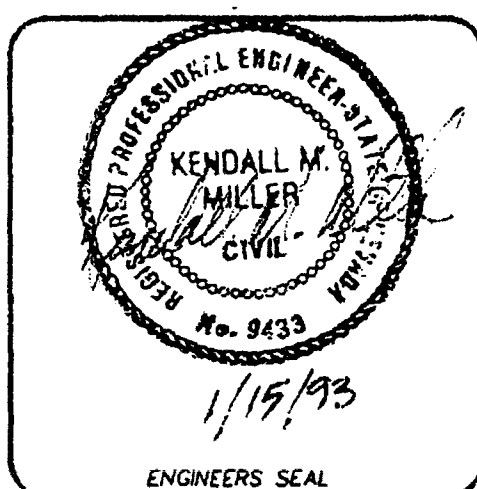
CHISELED IN TOP OF CURB AT END OF CURB ON WEST SIDE OF DURANGO, 250 FEET SOUTH OF WESTCLIFF.
ELEVATION PER CITY OF LAS VEGAS DATUM: 2610.16

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENTS ARE 1500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.
BASED ON _____ 3500 S.F.
SQUARE FOOTAGE _____
LARGEST AREA BETWEEN AREA SEPARATION WALLS _____ N/A
HEIGHT _____ TWO STORY
TYPE OF CONSTRUCTION _____ TYPE 5
EXPOSURES _____ 75' FRONT, 10' SIDE, 20' BACK
SPRINKLER SYSTEM _____ NONE
OCCUPANCY _____ SINGLE FAMILY
ROOF CONSTRUCTION _____ TILE

David Bowman 11/9/93
H. Braymache 3.18.93
LVWD DATE

Date	Appr.	Date	Rev.	By	Scale	Drawn by	Checked by	Date	Job Number	Sheet Number
11/9/93		11/9/93	1	MM	1" = 40'	7155.361	7155.361	11 OF 22	361IMP	11 OF 22
LAS VEGAS FIRE DEPARTMENT										
REVISIONS										
No.	1	2	3	4	5	6	7	8	9	10
Church Engineering of Nevada, Inc.										
TAYLOR WOODROW										
"AS BUILT SEWER" UTILITY PLAN PHASE 3										
Montaire Estimators										



AS-BUILT 10-2216 3074-4222

