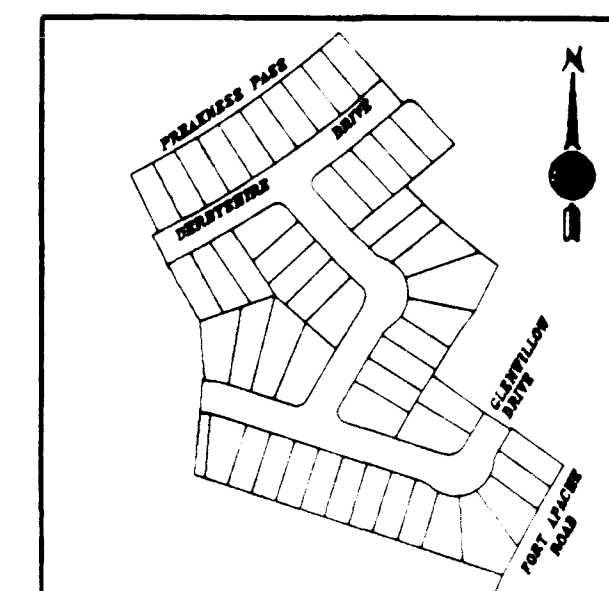
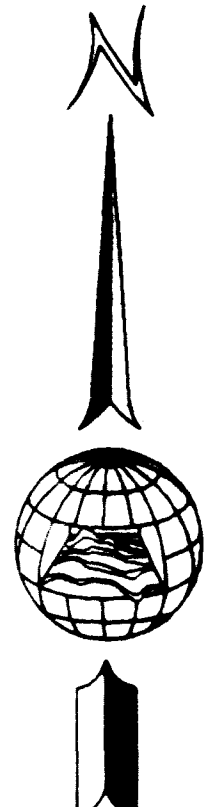


CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL CONFORM TO THE LATEST ISSUE OF 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, 1986 UNLESS OTHERWISE NOTED.
2. SEE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION CITY OF LAS VEGAS, DRAWING NO. 318.
3. ALL HAND HOLE COVERS MUST BE INSTALLED, POLE CAPS POURED, AND PULL BOX LIDS BOLTED DOWN PRIOR TO ENERGIZING CIRCUIT. ALL WIRE MUST HAVE THW INSULATION.

Call before you Dig
1-800-227-2600



KEY MAP
Not to scale

NOTE:
LATERAL INFORMATION SHOWN ON THIS PLAN WAS PROVIDED BY: LONGLEY CONSTRUCTION.

CITY OF LAS VEGAS FIRE DEPT. FIRE FLOW INFORMATION

THE FIRE FLOW REQUIREMENT IS 1500 gpm AT 20 psi RESIDUAL PRESSURE. THIS REQUIREMENT IS 6.0 GPM PER SQUARE FOOTAGE FOR TYPE VY CONSTRUCTION. THE FLOW INDICATED IS THE MINIMUM ALLOWED BY CLV FOR SINGLE FAMILY RESIDENTIAL CONSTRUCTION.

S.W. GAS NOTE:
REF. SOUTHWEST GAS DWGS. FOR PROPOSED ON-SITE GAS LINE CONSTRUCTION.

PROJECT NAME: Remington Crossing Phase III
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is NOT APPROVED FOR CONSTRUCTION at this time and this signature does not provide or imply a water commitment.

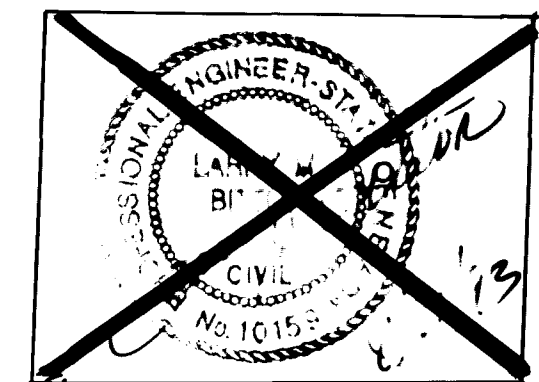
12/19/93
LWVD Date

CITY OF LAS VEGAS FIRE DEPT. NOTES

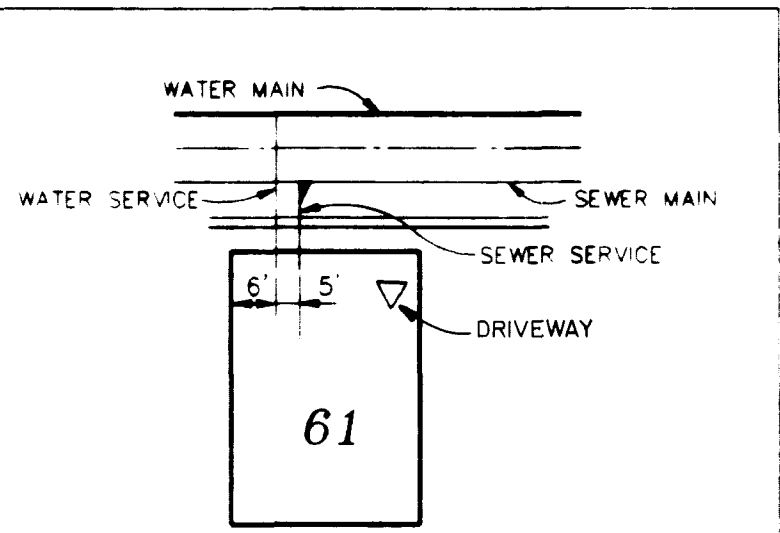
1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS", AND ORDINANCE NO. 3318.
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
A - KENNEDY GUARDIAN
B - MUELLER A-423 CENTURION
C - GLOW MODEL 2546 MEDALLION
3. ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES, AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
4. CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AS REQUIRED IN ORDINANCE NO. 3545 TO IDENTIFY FIRE HYDRANT LOCATIONS.
5. CALL THE LAS VEGAS BUILDING DEPARTMENT AT 799-2071 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 ORDINANCE NO. 3545 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR WATER LINE AND FIRE HYDRANT INSTALLATION ON THE PRIVATE PROPERTY OF THE METER. THE PERMIT AND THE WORKERS WATER AND TEST CERTIFICATE FOR UNDERGROUND FIRE LINES SHALL BE SUBMITTED TO THE FIRE DEPARTMENT PRIOR TO ANY WORK BEGINNING.
8. A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
9. ALL ON-SITE FIRE MAINS AND LATERALS MUST BE U.L. LISTED AND F.M. APPROVED.
10. FIRE HYDRANT LOCATIONS:
RESIDENTIAL - 500 FEET UNSPRINKLERED, 600 FEET SPRINKLERED
COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 400 FEET SPRINKLERED
11. 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.
12. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6' OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT, OR ANY OTHER OBSTRUCTION.
13. ENSURE THAT FIRE HYDRANTS ARE CONNECTED TO A DEPENDABLE WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW.
14. NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
15. 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.
16. FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM FIRE DEPARTMENT VEHICLE ACCESS. (SEE EXCEPTIONS IN U.F.C. 88, SECTION 10.207).
17. 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.
FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL.

QUANTITIES - THIS SHEET

8" PVC SEWER LINE	1515 LF
SEWER MANHOLES	26 EA
6" PVC WATERLINE	1240 LF
FIRE HYDRANT ASSEMBLY	4 EA
STREETLIGHTS	9 EA
PULLBOX	2 EA
STREET/STOP SIGNS	4 EA
6" VALVES	3 EA
BLOWOFFS	2 EA
SEWER SERVICES	52 EA
6" TEES	3 EA
6" ELBOWS	2 EA
CONDUIT	1342 LF
8" PVC WATERLINE	563 LF
8" 45° TEE	2 EA
8" 90° ELBOW	2 EA
3/4" COPPER SERVICE LATERAL	52 EA



FIRE HYDRANT NOTE:
PLACE HYDRANT BEHIND SIDEWALK, SEE CLEARANCE DETAIL, SHEET 8.



UTILITY LOCATION DETAIL

BENCHMARK

STAMPED 11/10/94
1" x 2" ALUMINUM PLATE TOP OF CURB NEAR INTERSECTION OF REDHILLS AND FORT APACHE
ELEV. = 2774.54

LWVD STANDARD NOTES

1. NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LWVD FOLLOWING APPROVAL OF THE PLANS. NOTICE SHALL BE GIVEN TO THE LWVD DISTRICT SERVICE DEPARTMENT (870-4194) 48 HOURS PRIOR TO ACTUAL CONSTRUCTION, AND 24 HOURS PRIOR TO AN INSPECTION.
2. CALL BEFORE YOU DIG - 1-800-227-2600
3. ALL WORK SHALL CONFORM TO LWVD LATEST STANDARD PLATES, DRAWINGS AND SPECIFICATIONS.
4. 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.
5. 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.
6. COPPER SERVICE LATERALS, ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICTS SPECIFICATIONS AND STANDARD PLATES.
7. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR A C.P. AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACP	DUCTILE IRON SLIP JOINT	DUCTILE IRON MECHANICAL JOINT
6 INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
8-12 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
14-16 INCH	2.0 DEGREES	1.5 DEGREES	1.5 DEGREES
18-24 INCH	N/A	1.5 DEGREES	1.5 DEGREES

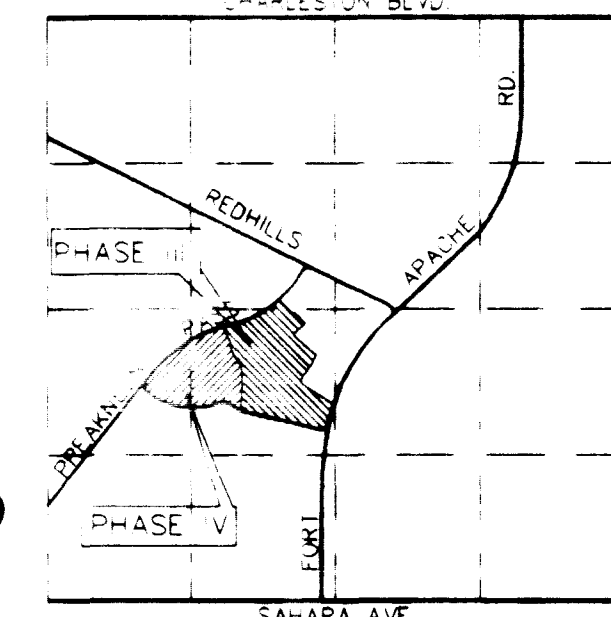
ON P.V.C. PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLIED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE, AND 8 INCHES FOR 10" AND 12" PIPE. IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURER'S RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
8. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
9. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.
10. DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:
a) OVER ALL MAINS NOT INSTALLED 5 FEET FROM BACK OF CURB.
b) OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.
11. ALL WATER MAINS SHALL BE PRESSURE TESTED AT 200 P.S.I. FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
12. ALL WATER MAINS SHALL BE DISINFECTED, FLUSHED, AND AN ACCEPTABLE HEALTH DISTRICT SAMPLE OBTAINED PRIOR TO THE CONNECTION OF THE WATER MAINS, AND/OR LATERAL(S) TO THE DISTRICT'S SYSTEM.
13. CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LWVD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF NORTH LAS VEGAS STANDARDS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THE CITY OF NORTH LAS VEGAS 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.
2. THE ABOVE MENTIONED STANDARDS SHALL APPLY TO ALL CONSTRUCTION.
3. SEWER MAINS ONLY SHALL BE INSTALLED IN 12" MINIMUM SLOPES AS SHOWN IN THESE STANDARDS.
4. ALL LATERALS SHALL BE INSTALLED AT A MINIMUM SLOPES AS SHOWN IN THESE STANDARDS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE CONSTRUCTION AS SHOWN IN THESE STANDARDS, DELETIONS, OR CHANGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO THE CITY OF NORTH LAS VEGAS.
6. SOIL TESTING SHALL BE IN ACCORDANCE WITH CITY OF NORTH LAS VEGAS STANDARD.
7. ALL EXFILTRATION, INFILTRATION, AIR TESTING, AND TELEVISION OF LINES SHALL BE IN ACCORDANCE WITH CITY OF NORTH LAS VEGAS STANDARDS.
8. OUT SHEETS MUST BE SUBMITTED TO THE CITY OF NORTH LAS VEGAS BEFORE CONSTRUCTION WILL BE PERMITTED TO START.
9. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF NORTH LAS VEGAS MUST BE CLASS "A" CONTRACTORS.

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT
DATE 8-15-91
CITY OF LAS VEGAS FIRE MARSHAL
DATE 8-15-91



VICINITY MAP
Not to scale

Job Number	134-113	Drawn by	MM	Scale	1"=40'
Sheet Number	5 OF 8	Checked by	MM	File No	323IMP
Date	8-5-91	Date	8-5-91		
REVISIONS: 1. REVISED FOR CLV APPL. 2. REVISED FOR CLV APPL. 3. CLV & LWVD COMMENTS					
APPROVED BY: Church Engineering of Nevada, Inc. 6800 N. Charleston Blvd. Las Vegas, NV 89102 (702) 878-6244					
MASTER UTILITY PLAN PHASE III (LATERAL AS-BUILT)					

