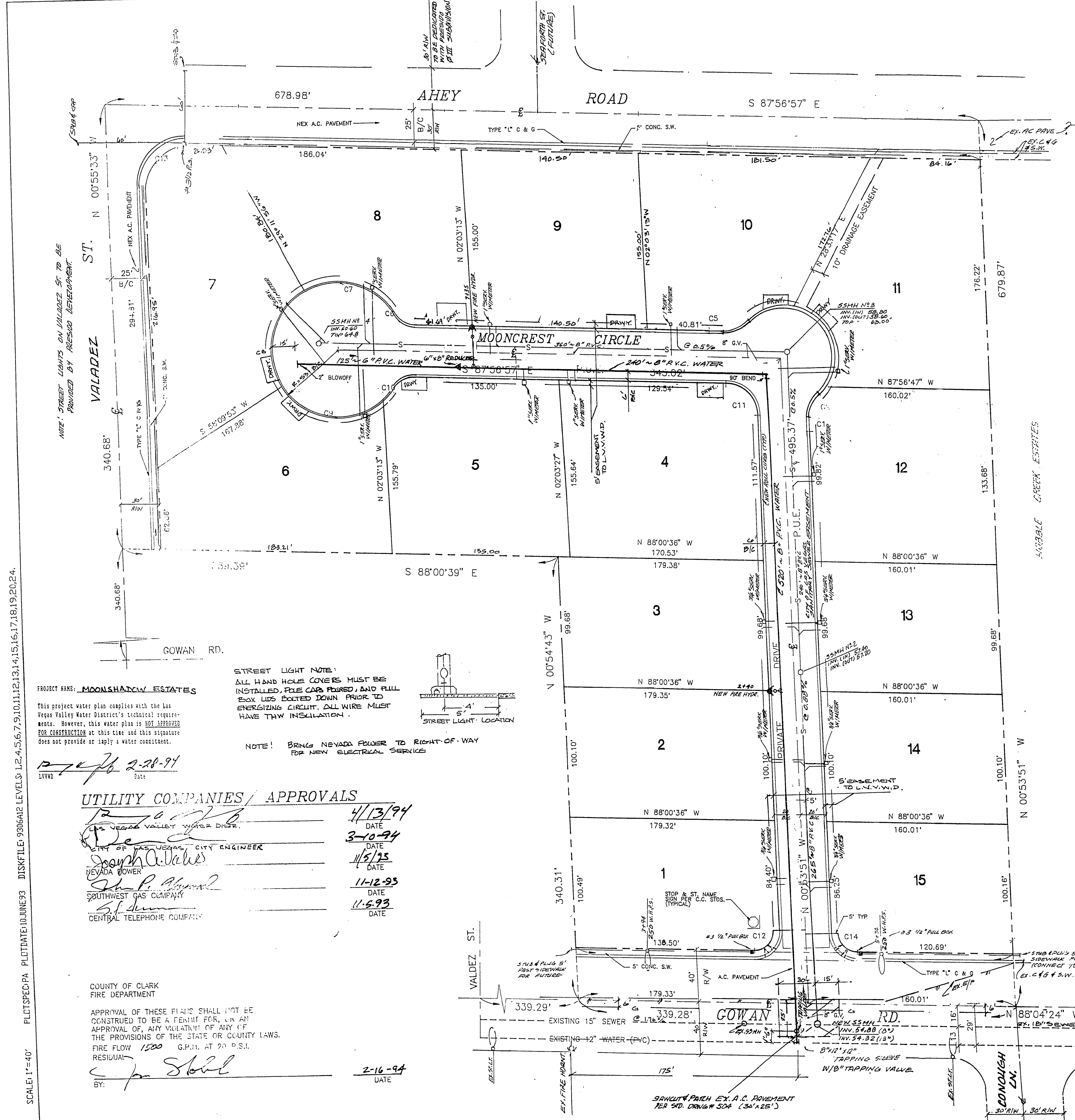




ESTIMATED QUANTITIES	
<u>WATER</u>	
6" PVC	125 LF
8" PVC	760 LF
UPPER SERV. LAT. W/METER (FROM LVWD)	9 EA.
LOWER SERV. LAT. W/METER (FROM LVWD)	6 EA
FIRE HYDRANT ASSEM.	2 EA.

STREET LIGHT

1 1/4" CONDUIT W/ CABLE	120 LF.
# 3 1/2" PULL BOX	2 EA.

SEWER

SEWER MANHOLE	4 EA.
8" P.V.C.	1386 L.

Public Management Division
 Clark County Public Works
ACCEPTED
 By: *[Signature]* 6/21/94
 Public Management Code
 THESE PLANS ARE NOT FOR
 REBID OR RETURN FOR AN APPROVAL OF
 ANY KIND. THE STUDENT SHALL FOLLOW THE
 CLARK COUNTY PUBLIC WORKS DEPARTMENT
 RULES AND REGULATIONS.

LEGEND

EXISTING WATER
EXISTING SEWER
NEW WATER LINE
NEW SEWER LINE
CENTERLINE OF ROADWAY
RIGHT-OF-WAY LINE

<u>SEWER CONTRIBUTION RATE</u>	
PROJECTED PEAK	0.01 MGD
AVERAGE DAILY FLOWS	0.008 MGD

11-10-3 310011

LAS VEGAS VALLEY WATER DISTRICT

1. NO WORK SHALL BEGIN ON THE WATER PLAYS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LWVMD. FOLLOWING THE APPROVAL OF THE PLANS, NOTICE MUST BE GIVEN TO THE LWVMO CUSTOMER 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 LWVMD 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 THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
5. 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. DOUBBLE TAPPED COLLARS ARE NOT PERMITTED.
6. COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS WILL BE OF COPPER TURNING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS AND STANDARD PLATES.
7. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP 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
8. ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20 FT. LENGTH OF FACTORY BELLED PIPE SHALL BE INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE AND 20 INCHES FOR 10" PIPE. IF THERE ARE JOINTS WITHIN THE 20 FEET LENGTH, THE JOINTS SHALL BE CONSIDERED AS ONE JOINT. THE MORE STRINGENT REQUIREMENT SHALL APPLY.
9. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
10. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY OUTLETS.
11. DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:
 - A). OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.
 - B). OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAINS.
12. ALL WATER MAINS ARE TO BE PRESSURE TESTED AT 200 PSI FOR A CONTINUOUS TWO HOUR PERIOD IN ACCORDANCE WITH DISTRICT STANDARDS.
13. ALL WATER MAINS SHALL BE DISINFECTED AND FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAIN(S) AND/OR LATERAL TO THE DISTRICT'S SYSTEM.
14. CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LWVMD CENTRAL STORES. TELEPHONE 258-3152 48 HOURS PRIOR TO PICKUP.

CLARK COUNTY FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH APPENDIX II-B OF THE CLARK COUNTY CODE.
2. ON ANY BUILDING CONSTRUCTION SITE, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SUCH HYDRANTS SHALL BE IN GOOD WORKING ORDER AND HAVE REQUIRED WATER SUPPLY.
3. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONCRETE CURB OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT MUST BE CONTACTED.
4. PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY PER FIRE INSTALLATION SPECIFICATIONS OF THE CLARK COUNTY FIRE DEPARTMENT.
5. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR IN FRONT OF OR TO THE SIDE OF ANY POWER, LIGHT OR TELEPHONE POLE OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURED AS A MINIMUM OF 15 FEET FROM THE HYDRANT SHALL BE MAINTAINED CLEAR, IF ALL OBSTRUCTIONS AT ALL TIMES.
6. AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROADS MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED AND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
7. PRIOR TO ACCEPTANCE OF ANY PRIVATE FIRE SERVICE MAIN, A SUBMITTAL OF HYDROSTATIC TEST PIPING JUNCTIONS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS TEST CERTIFICATE MUST BE PROVIDED AT THE TIME OF INSPECTION.
8. BLUE REFLECTIVE MARKERS INSTALLED PER SECTION 13.01.304(6) OF CLARK COUNTY ORDINANCE 10-2007 MUST BE PROVIDED BEFORE FINAL ACCEPTANCE CAN BE ATTAINED.

SANITARY SEWER - GENERAL NOTES:

1. 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 STANDARDS/PRESCRIPTIONS FOR PUBLIC UTILITY CONSTRUCTION OF OFF-PEAK WASTEWATER, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFIED BOOKS.
2. THESE STANDARDS SHALL APPLY TO ALL CONSTRUCTION.
3. SEWER MAINS ONLY TO BE LAID IN SEWER TRENCHES.
4. ALL LATERALS TO BE LAID AT NOT LESS THAN THE MINIMUM SLOPES SHOWN IN THESE STANDARDS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS, OR CHANGES. 5.1.1 FIRST MEET THE APPROVAL OF THE CONTROLLING AGENCY.
6. SOIL TESTING SHALL BE IN ACCORDANCE WITH SECTION 3.1.1 OF THESE STANDARDS.
7. ALL EXFILTRATION, INFILTRATION AND AIR TESTING OF LINES SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
8. CUT SHEETS MUST BE SUBMITTED TO THE AGENCY BEFORE CONSTRUCTION WILL BE PERMITTED TO START.
9. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A"

CONTRACTORS.
CITY OF LAS VEGAS SEWER NOTES
(SEE SHEET 4 OF 6)

NOTE: A "CITY OF LAS VEGAS" EXCAVATION PERMIT IS REQUIRED FOR ALL SEWER LINES AND MANHOLES.

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Professional Corp.

CONSULTANTS:
CIVIL: . . . C.S.A. ENGINEERING
STRUCT:

MASTER UTILITY PLAN
MOONSHADOW ESTATES
FOR: MR. SCOTT PETERSEN

COUNTY OF CLARK

PROJ.NO.	9729306.01
PROJ.ENG.	C.S.S./JCS
PROJ.MGR.	
TECH'N	JLF
ENG.CHK.	
DATE	8JUNE93

REVISIONS

1 JCS 6/20/94 EXHIBIT B
ST. LBS. ON AHEAD
RE REQUESTED BY
CLARK CO. TROOP UNIT

PRINTS REQUIRE ENGINEER'S SEAL
& SIGN. FOR PROOF OF VALIDITY

SHT.ND. 3 of 6

3074-2/309