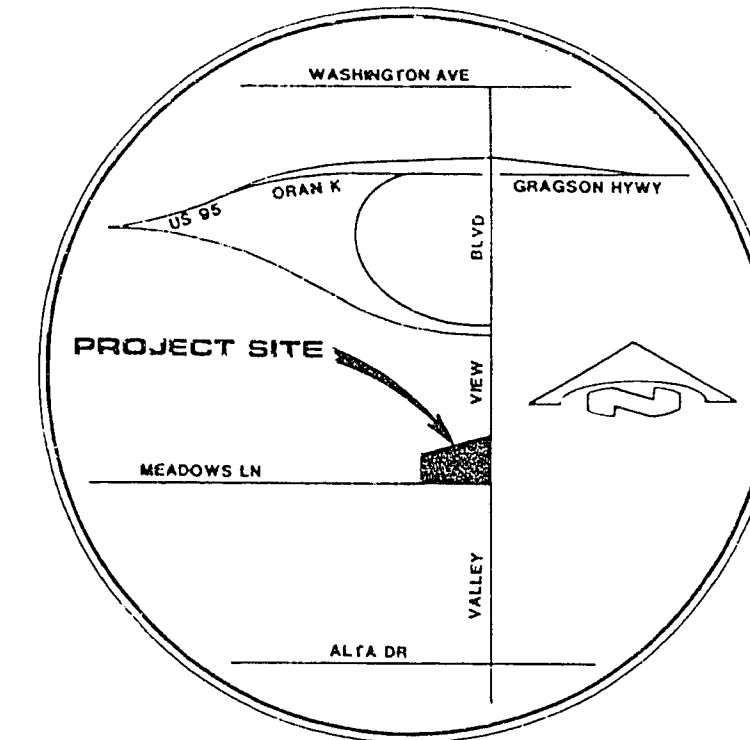


WATER DISTRICT NOTES

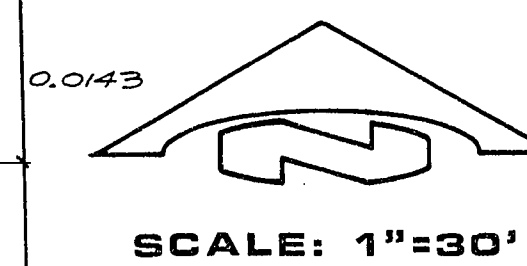
1. ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT STANDARD PLATES AND SPECIFICATIONS.
2. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE NO. 1, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY, NEVADA.
3. NOTICE TO BE GIVEN ENGINEERING DEPARTMENT OF THE LAS VEGAS VALLEY WATER DISTRICT 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.
4. 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.
5. ALL LINES TO BE PRESSURE TESTED TO 200 PSI.
6. DEFLECTION ANGLE SHALL NOT EXCEED 2.5 DEGREES PER 13 FOOT SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 14 INCHES, AND SHALL NOT EXCEED 2 DEGREES FOR PIPES SIZES BETWEEN 14 INCHES AND 16 INCHES.
7. ALL METERS SHALL BE LOCATED OUTSIDE OF DRIVEWAYS.
8. DETECTOR TAPE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED AND AS FOLLOWS:
 - A. OVER ALL MAINS NOT INSTALLED AT 6 FEET FROM BACK OF CURB.
 - B. OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAINS.
9. CALL BEFORE YOU DIG: 1-800-227-2600
10. ALL WATER PIPE FOUR INCHES (4") AND GREATER SHALL BE ASBESTOS-CEMENT PIPE (ACP), CLASS 150. PIPE TWO INCHES (2") OR LESS SHALL BE POLYETHYLENE (PE) SDR-7 WITH A PRESSURE RATING OF 160 PSI. ALL VALVES, PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH LAS VEGAS VALLEY WATER DISTRICT STANDARDS.

SEWER NOTES

1. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS STANDARD REQUIREMENTS.
2. THE CONTRACTOR SHALL PROVIDE BARRICADING ON ALL OPEN TRENCHES AND PROVIDE TRAFFIC CONTROL AS REQUIRED BY THE CITY OF LAS VEGAS.
3. ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE SDR-35 POLYVINYL CHLORIDE (PVC) UNLESS OTHERWISE NOTED.
4. ALL CONTRACTORS INSTALLING SEWER MAINS WHICH WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE CLASS "A" CONTRACTORS.
5. SEWER MAINS ONLY TO BE LAID IN SEWER TRENCHES.
6. CALL BEFORE YOU DIG: 1-800-227-2600.
7. CHISEL "S" OR "R" WHEREVER SEWER OR GAS LINES PASS UNDER THE CURB 1" HIGH IN CURB FACE.



VICINITY MAP
NO SCALE



SCALE: 1"=30'

Avoid cutting underground utility lines. It's costly.

Call
before you
Dig.

1-800-227-2600
UNDERGROUND SERVICE (USA)

REVISIONS		
NO.	DESCRIPTION/DATE	BY
1	RELOCATE TRASH	7/1/87
2	RELOCATE TRASH	7/1/87
3	RELOCATE TRASH	7/1/87
4	RELOCATE TRASH	7/1/87
5	RELOCATE TRASH	7/1/87
6	RELOCATE TRASH	7/1/87
7	RELOCATE TRASH	7/1/87
8	RELOCATE TRASH	7/1/87
9	RELOCATE TRASH	7/1/87
10	RELOCATE TRASH	7/1/87

10-15-87

SPARKS, NEVADA
LAS VEGAS, NEVADA
incorporated

ENGINEERS/PLANNERS

NEVADA

MASTER UTILITIES PLAN
SHOPPES ON MEADOWS LANE
A PORTION OF THE NW1/4, NE1/4, SECTION 31, T20S, R61E, MDM

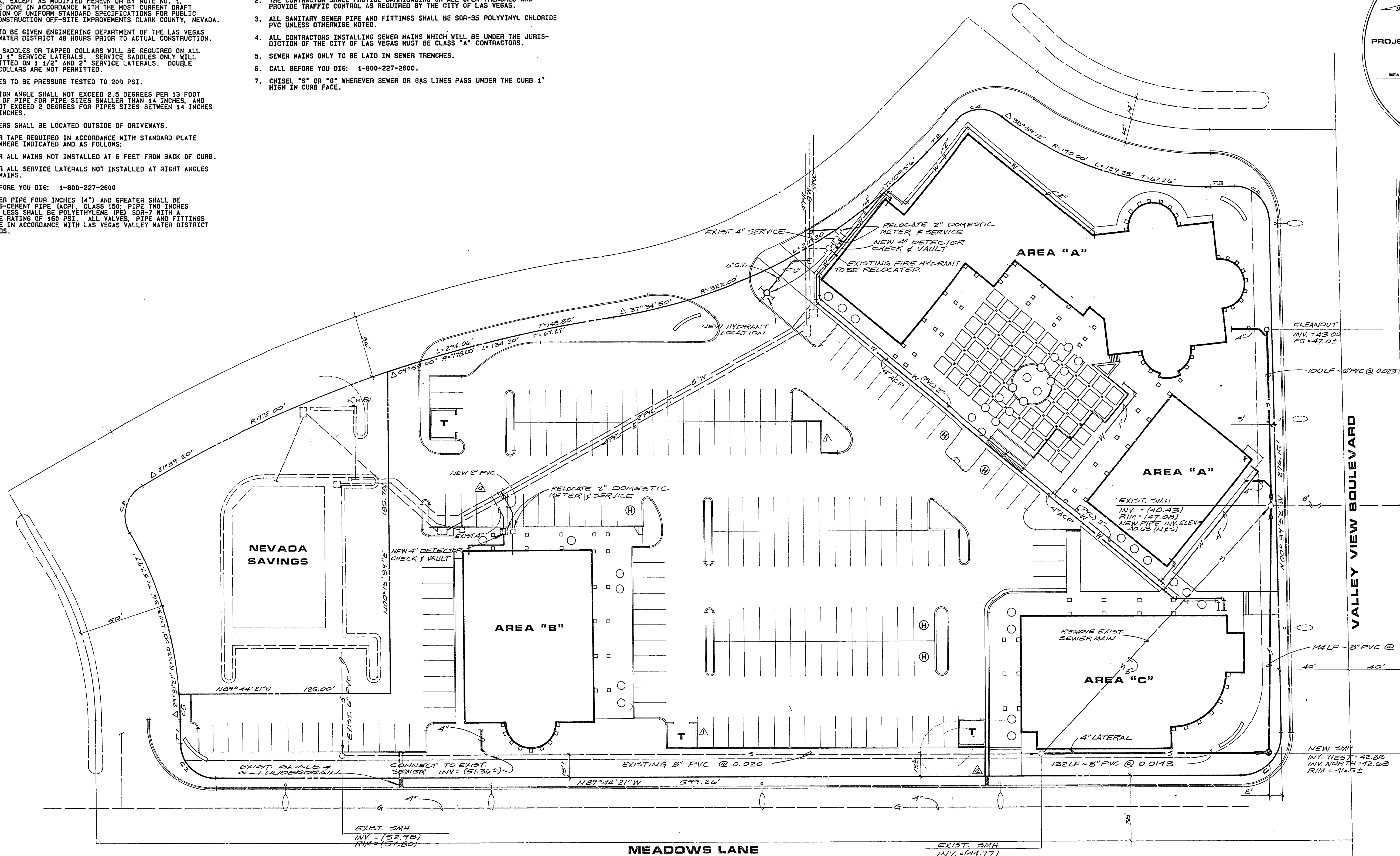
CLARK COUNTY

LAS VEGAS

JOB NO. 2-487-002-871
DESIGNED MK/IM
DRAWN PF
COMP.
CHECKED
DATE JULY 1987

3

3 OF 4 SHEETS
107-V1572



NUMBERED COURSES

REF. NO.	BEARING	DISTANCE
T 1	N 0°15'39"E	14.00
T 2	N 44°20' 8"E	25.47
T 3	N 89°20' 8"E	14.00

CURVE DATA

CURVE NO.	DELTA	RADIUS	LENGTH	TANGENT	CHORD
CC 1	90°55'31"	24.00	38.09	24.39	34.21
CC 2	90° 0' 0"	20.00	31.42	20.00	28.26
CC 3	89°31'19"	20.00	31.25	19.83	28.17
CC 4	83°59'12"	20.00	29.32	18.00	26.76
CC 5	3°54'34"	220.00	15.01	7.51	15.01

NOTE:

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. CALL BEFORE YOU DIG: 1-800-227-2600.

ESTIMATE OF WATER QUANTITIES

RELOCATE FIRE HYDRANT	1 EA
4" DETECTOR CHECK	2 EA
2" DOMESTIC TAPS	2 EA
4" ACP PIPE	500 LF
2" PVC	700 LF

FIRE FLOW REQUIREMENTS:
2000 G.P.M. @ 20 P.S.I.

ESTIMATE OF SEWER QUANTITIES

8" PVC	376 LF
4" LATERALS	4 EA
8" CLEANOUT	1 EA
MANHOLE (48")	1 EA
MANHOLE RECONSTRUCT	1 EA

NOTE:
ALL QUANTITY RELIEFS ARE
PRIVATELY OWNED & MAINTAINED.