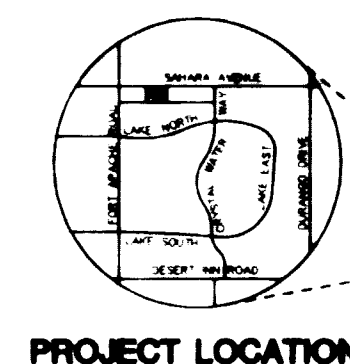


LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- No work shall begin until the water plans have been released for construction by the LVVWD. Following water plan approval, 48 hour notice shall be given to the LVVWD Communication Support Center (258-7171) prior to the start of construction. Notices must be given by 2:00 p.m. the business day prior to a LVVWD inspection.
- All work shall conform to the LVVWD's Standard Plans, Drawings, and Specifications and the Uniform Design and Construction Standards for Water Distribution Systems (UDACS), latest edition.
- All work, except as modified by these plans or by Note 2, shall be done in accordance with the most current draft or edition of the Uniform Standard Specifications for Public Works Construction Office Improvement, Clark County Area.
- A single piece material shall be used throughout the project unless otherwise approved by the LVVWD.
- All service laterals (2 inches in diameter and smaller) shall be supported with LVVWD approved service saddles.
- All water meter boxes shall be located outside of driveway areas.
- All valves shall be located outside of driveways, valley and curb gutters.
- The following requirements must be met in the event a water line and sanitary or storm sewer line cross:
 - A minimum eighteen (18) inch vertical separation (outside to outside) must be maintained when the water line is installed over the sanitary or storm sewer line. If the vertical separation cannot be maintained or the water line must be placed under the sanitary or storm sewer line, the sanitary or storm sewer line must be constructed with one of the following as shown on these plans:
 - Potable Water supply quality material.
 - Encasement, with four (4) inch concrete minimum.
 - Sleeving with potable water supply quality pipe.
 - Each provision must extend along the sanitary or storm sewer, on either side of the main, a minimum 10 foot distance perpendicular to the main in accordance with Standard Plate No. 27.
- Warning tape shall be required over all mains, all six (6) inch diameter and larger service laterals, and any service lateral not installed perpendicular to the main in accordance with Standard Plate No. 27.
- All water facilities shall be filled, disinfected, pressure tested, flushed, filled and an acceptable water sample obtained, prior to connection to the LVVWD's distribution system.
- The contractor must obtain all meters two (2) inches and smaller from LVVWD Central Stores. Telephone 258-3152 forty eight (48) hours prior to pickup.
- Construction may interrupt service, with LVVWD approval and proper notification, between the hours of 10 PM and 6 AM, Sunday through Thursday. Circumstances may require temporary service feeds to be installed, without LVVWD reimbursement. Any temporary service feed must have prior LVVWD approval.
- All water facility construction materials used must be as listed on the LVVWD's Pre-Approved Materials and Manufacturers Listing for New Facilities, latest revision, or specifically approved on these plans.



VICINITY MAP

QUANTITY ESTIMATES WATER

- ① FIRE HYDRANT W/ ASSEMBLY (INCL 8" TEE & 6" G.V.) 2 EA
LOCATED WITHIN A 6' x 6' EASEMENT (REQUIRED BY LVVWD.)

③ 6" CAP W/ 1" BLOWOFF	5 EA
④ 45° ELBOW	3 EA
⑤ 6" GATE VALVE	5 EA
⑥ 8" GATE VALVE	6 EA
6" WATER MAIN	175 LF
8" 90° BEND	1 EA
8" WATER MAIN	527 LF
8" x 6" REDUCER	1 EA
8" x 6" TEE	4 EA

SEWER

4" DIAMETER MANHOLE	4 EA
8" SEWER MAIN (PUBLIC)	785 LF
6" SEWER LATERALS	265 LF

NOTE: THESE QUANTITIES ARE ONLY ESTIMATES. CONTRACTOR TO VERIFY.

CONDITIONAL APPROVAL OF VALVED OUTLET (8" and larger)

The water plans show one or more valved outlets extending out of paved areas. Installation of these outlets is acceptable, however, if the outlets are incorrectly located or not used for any reason when the property is actually developed, the developer shall abandon the outlets at the connection to the active main in accordance with the District's standards and at the Developer's expense.

EXISTING "STYLE" OF THE LAKES UNIT



SECTION A-A
N.T.S.

MANHOLE CONTROL TABLE

MH #	NORTHING	EASTING
1	4632.91	5950.79
2	4685.13	5904.67
3	4837.18	5910.22
EXISTING MANHOLE		
(6)	4618.88	6334.97
REFERENCE POINTS		
1	4948.81	6402.05
2	4425.15	5721.06

"RECORD DRAWINGS"

THE INFORMATION SHOWN HEREON IS BASED UPON FIELD MEASUREMENTS PROVIDED BY LONGLEY CONSTRUCTION RECEIVED FEB. 11, 1997

NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN 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.

BENCHMARK

CLV BM #24/1LV1055WS
RIVET & PLATE IN CURB, NE QUAD OF
FORT APACHE & SAHARA
ELEVATION = 2786.505'

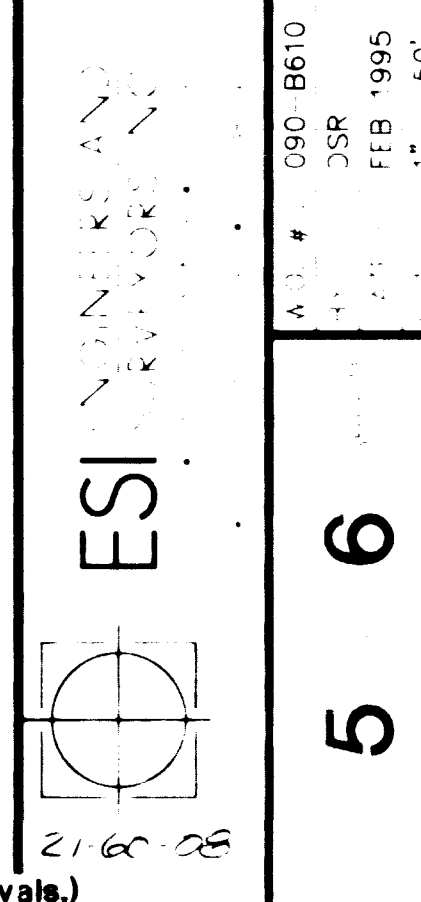
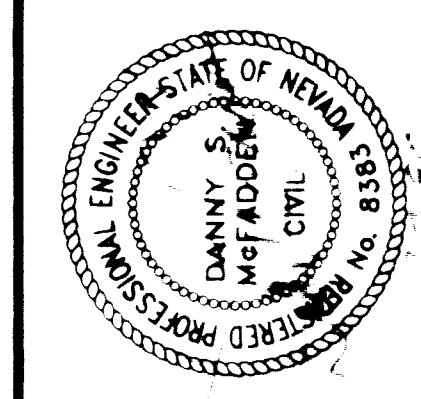
APPROVAL

[Signature]
LAS VEGAS VALLEY WATER DISTRICT

[Signature]
6-1-95
LAS VEGAS VALLEY WATER DISTRICT
(Approval is for watermain only as shown on these plans, subsequent building additions and plan revisions will require further approvals.)

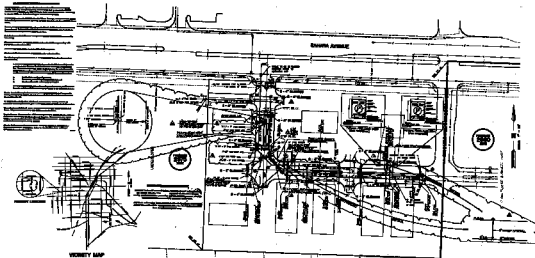
MASTER UTILITY PLAN

LAKES BUSINESS PARK II



REVISION
DATE BY
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"As Built" 307Y-4375



MASTER UTILITY PLAN

LANDER FLUMMERS PARK II



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