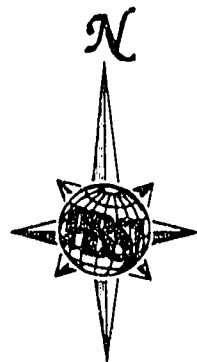


Call before you Dig
1-800-227-2600

PROJECT NAME: HERITAGE PLACE
PHASE II

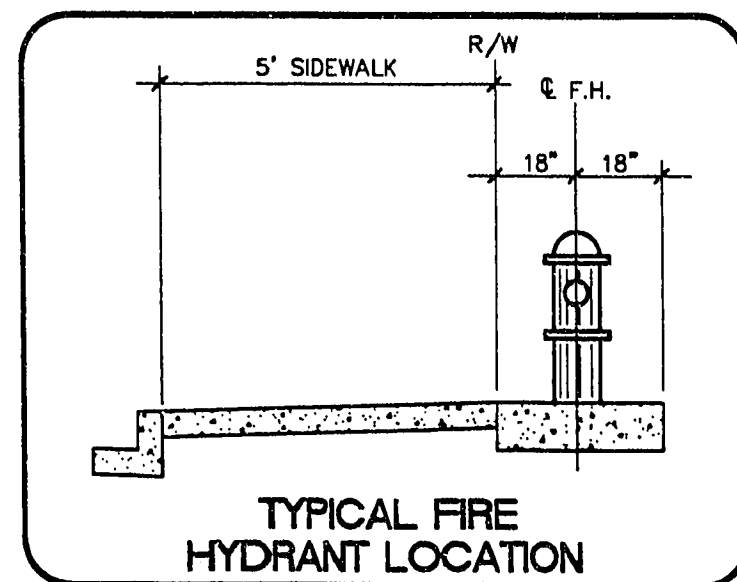
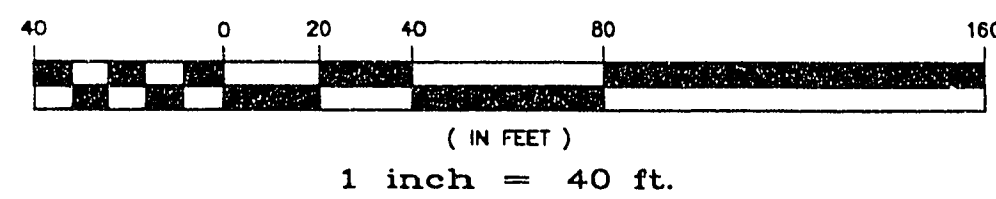
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is NOT APPROVED FOR CONSTRUCTION at this time and this signature does not provide or imply a water consultant.

DATE: 8/24/94

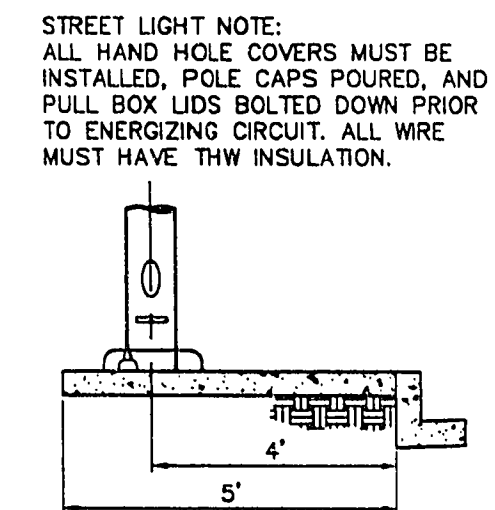


1" = 40'

GRAPHIC SCALE



TYPICAL FIRE HYDRANT LOCATION



STREET LIGHT LOCATION
N.T.S. (PER C.L.V. STD. DWG. #318)

ESTIMATED QUANTITIES

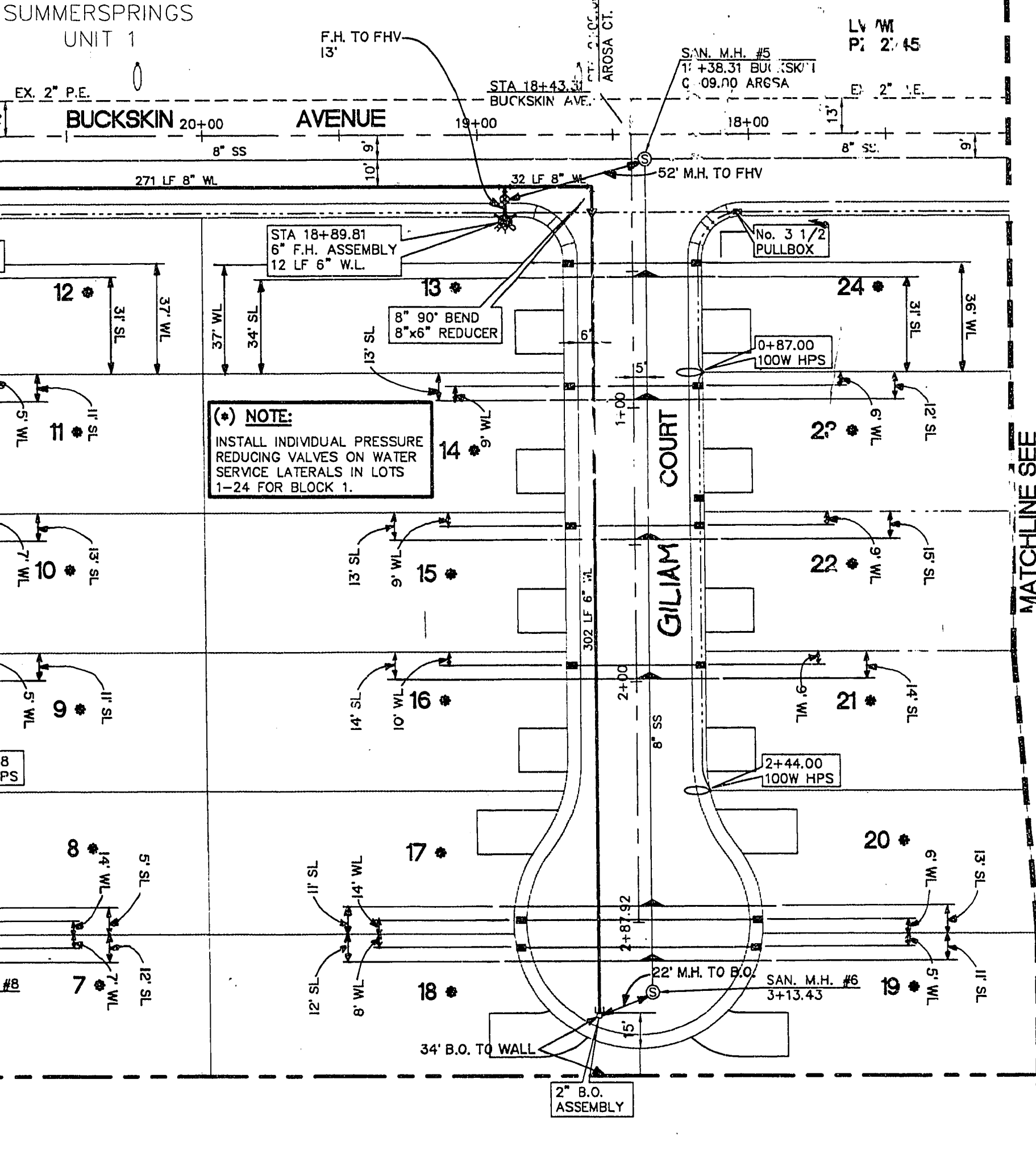
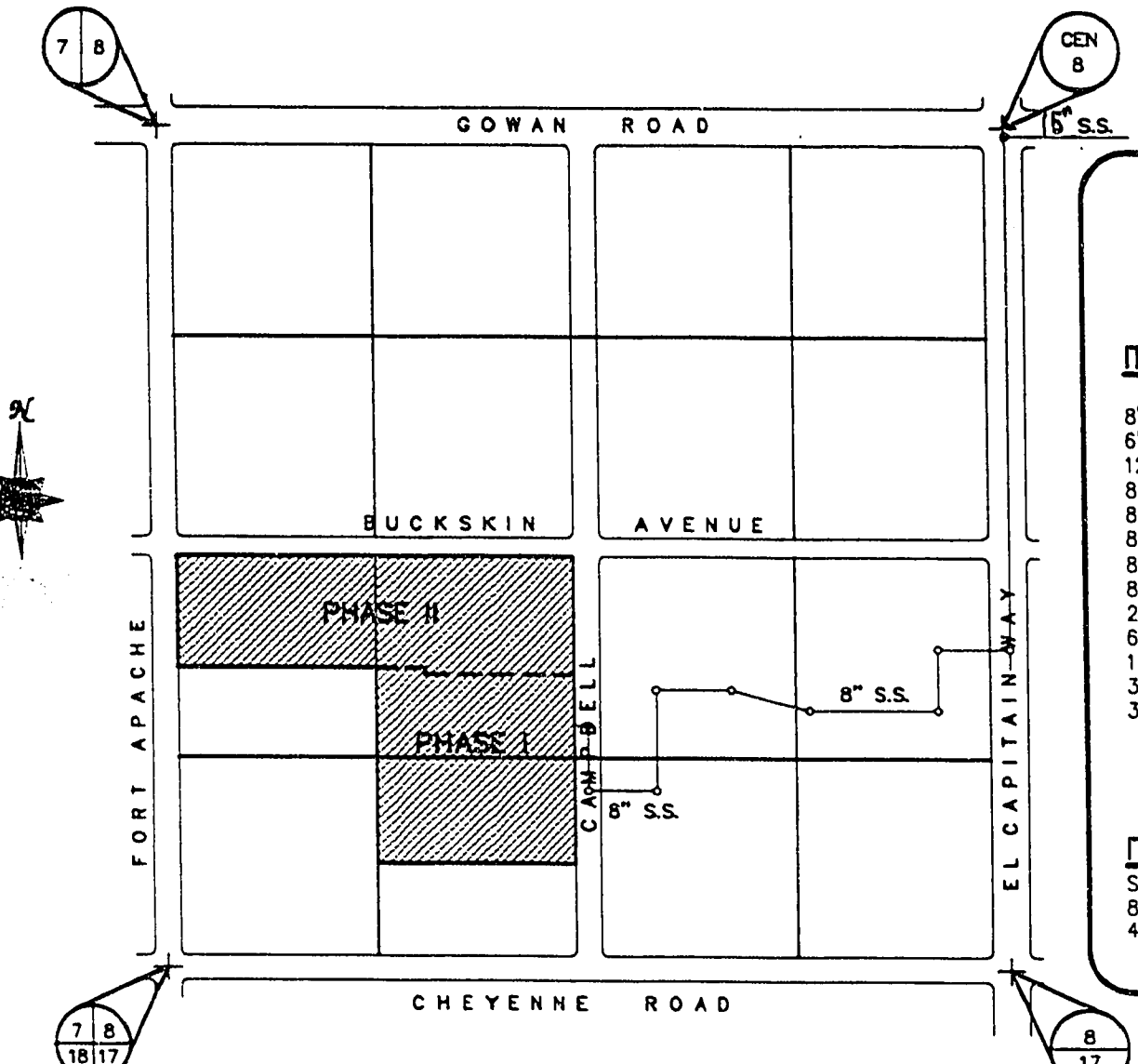
WATER

ITEM	QTY	UNIT
8" WATER LINE	1361	L.F.
6" WATER LINE	915	L.F.
12"x8" WET TAP AND VALVE	2	EA.
8" GATE VALVE	2	EA.
8"x6" REDUCER	2	EA.
8"x8" TEE	2	EA.
8" - 90° BEND	2	EA.
8" - 11 1/4" BEND	2	EA.
2" FLOW-OFF ASSEMBLY	4	EA.
6" FIRE HYDRANT ASSEMBLY (INCLUDES 12"x8" OR 8"x6" TEE & 6" GATE VALVE)	4	EA.
3/4" SERVICES W/METER BOX	54	EA.
3/4" METERS FROM (L.V.V.W.D.)	54	EA.

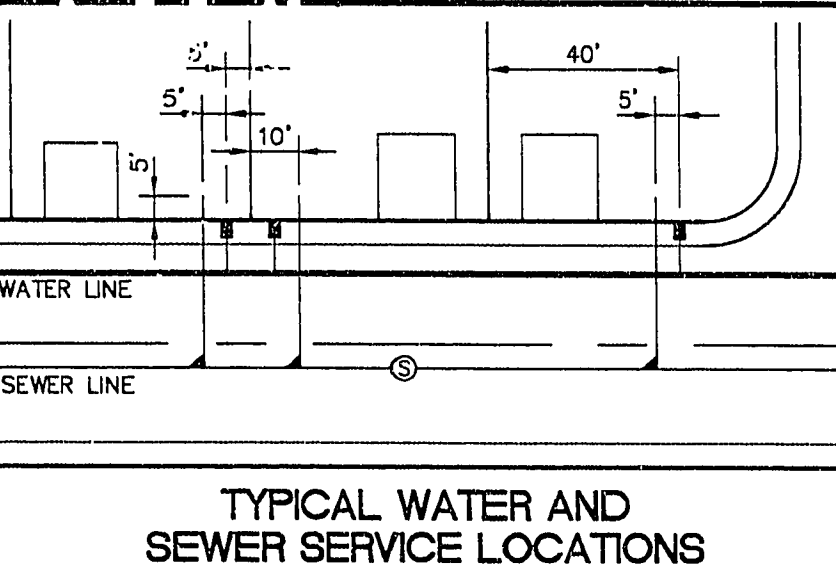
SANITARY SEWER

ITEM	QTY	UNIT
SEWER MANHOLE	8	EA.
8" SANITARY SEWER	2401	L.F.
4" SEWER LATERAL	54	L.F.

VICINITY MAP



NOTE:
INSTALL INDIVIDUAL PRESSURE REDUCING VALVES ON WATER SERVICE LATERALS IN LOTS 1-24 FOR BLOCK 1.

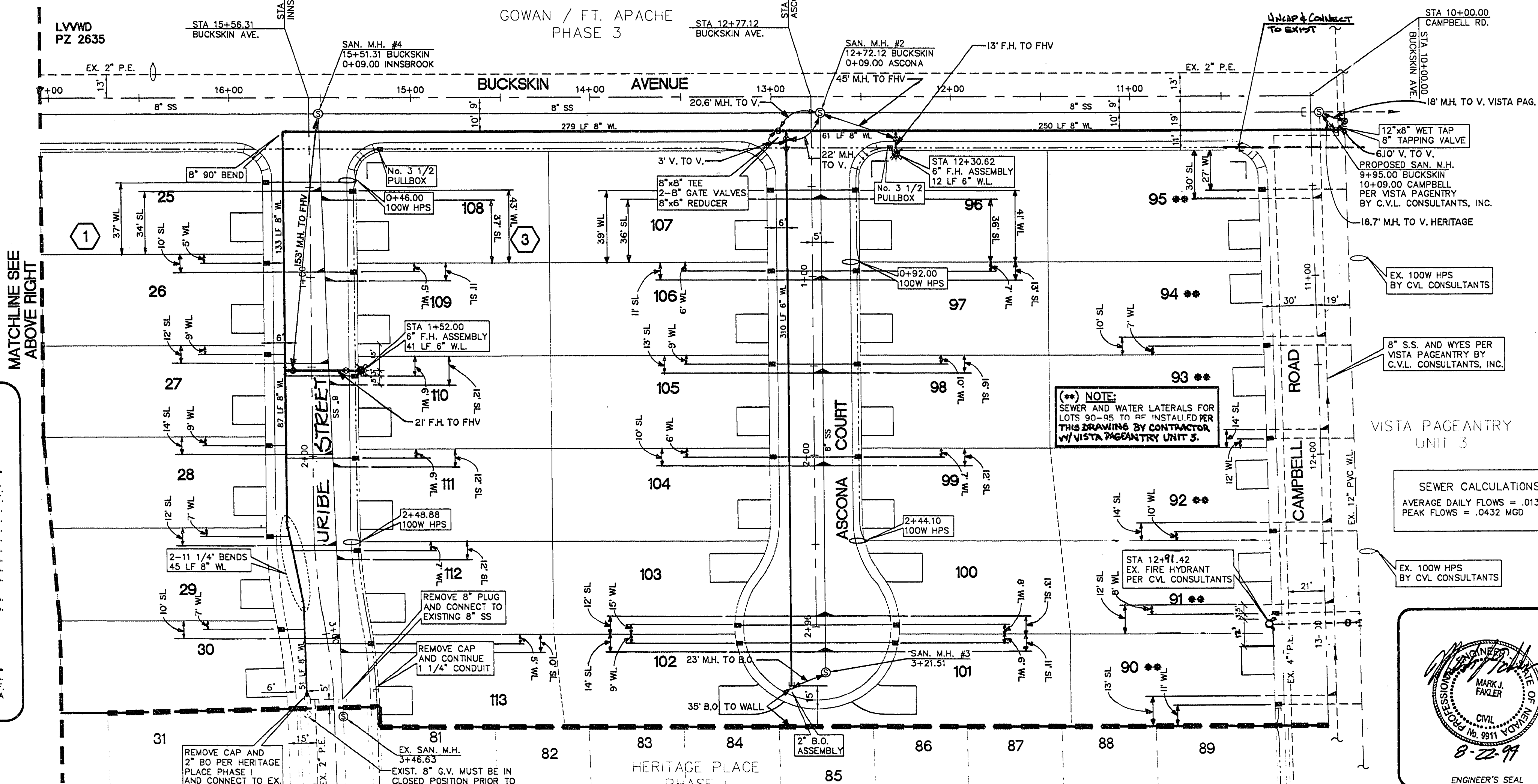


TYPICAL WATER AND SEWER SERVICE LOCATIONS

DRIVEWAY LOCATIONS SHOWN ARE GRAPHIC REPRESENTATIONS ONLY. DIMENSIONS AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

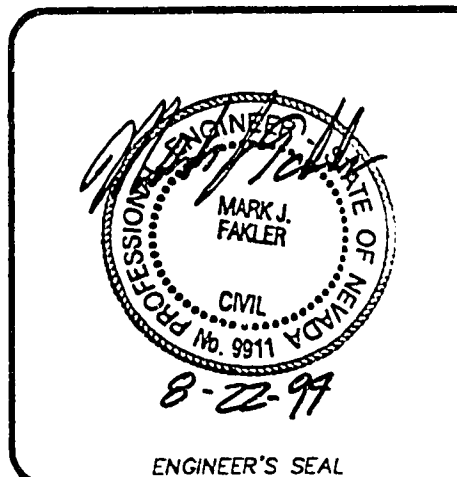
LEGEND	
W	WATERLINE
SS	SEWERLINE
---	PROPERTY LINE
---	PHASE LINE
100W	100W STREETLIGHT
W	WATER SERVICE LATERAL W/METER
W	SEWER LATERAL
W	SEWER MANHOLE
W	FIRE HYDRANT ASSEMBLY (INCLUDES 12"x8" OR 8"x6" TEE & 6" GATE VALVE)
W	BLOW-OFF ASSEMBLY
W	STREET NAME SIGN (D3)
W	STOP SIGN (R1-1)
W	1 1/4" PVC ELEC. CONDUIT

REFER TO SHEET 13 FOR UTILITY NOTES.



NOTE:
SEWER AND WATER LATERALS FOR LOTS 90-95 TO BE INSTALLED PER THIS DRAWING BY CONTRACTOR VV VISTA PAGEANTRY UNIT 3.

SEWER CALCULATIONS
AVERAGE DAILY FLOWS = .0135 MGD
PEAK FLOWS = .0432 MGD



LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN 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	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 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 WITH 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.V.W.D. CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

DATE: 9/16/94
LAS VEGAS VALLEY WATER DISTRICT

HERITAGE PLACE PHASE II

AS-BUILTS PHASE II UTILITY PLAN

Job Number	7214-573	Drawn by	Scale
Sheet Number	4 OF 13	Checked by	1" = 40'
		Date	08-22-94
		File No.	573MP

11-10-126 "As Built" 307Y-4303-2