SEWER CONTRIBUTION

56 UNITS @ .7 ERU PER UNIT (90,000 GPY/ERU) = 3,577,000 GPY

365 DAYS PER YEAR
AVERAGE DAILY FLOW = 9,800 GPD
PEAK FACTOR = 3.3
APPROXIMATE PEAK FLOW = 321,340 GPD

QUANTITIES

SEE SHEET C4

DOUBLE CHECK VALVE ASSEMBLY (2)2"

APPROVED DOUBLE CHECK VALVE ASSEMBLY(S) SHALL BE INSTALLED PER THE DISTRICT'S STANDARD PLATE NO. 11C. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE DOUBLE CHECK VALVE ASSEMBLY HAS BEEN SUCESSFULLY TESTED BY THE LVVWD.
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

DOUBLE CHECK DETECTOR ASSEMBLY (2)8"

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 20B
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

BASIS OF BEARING

BEING THE SOUTH LINE OF THE NORTHEAST QUARTER (NE 1/4), OF THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY NEVADA PER RECORD OF SURVEY IN FILE 13, PAGE 34, WHICH BEARS: NORTH 89° 07' 17" WEST.

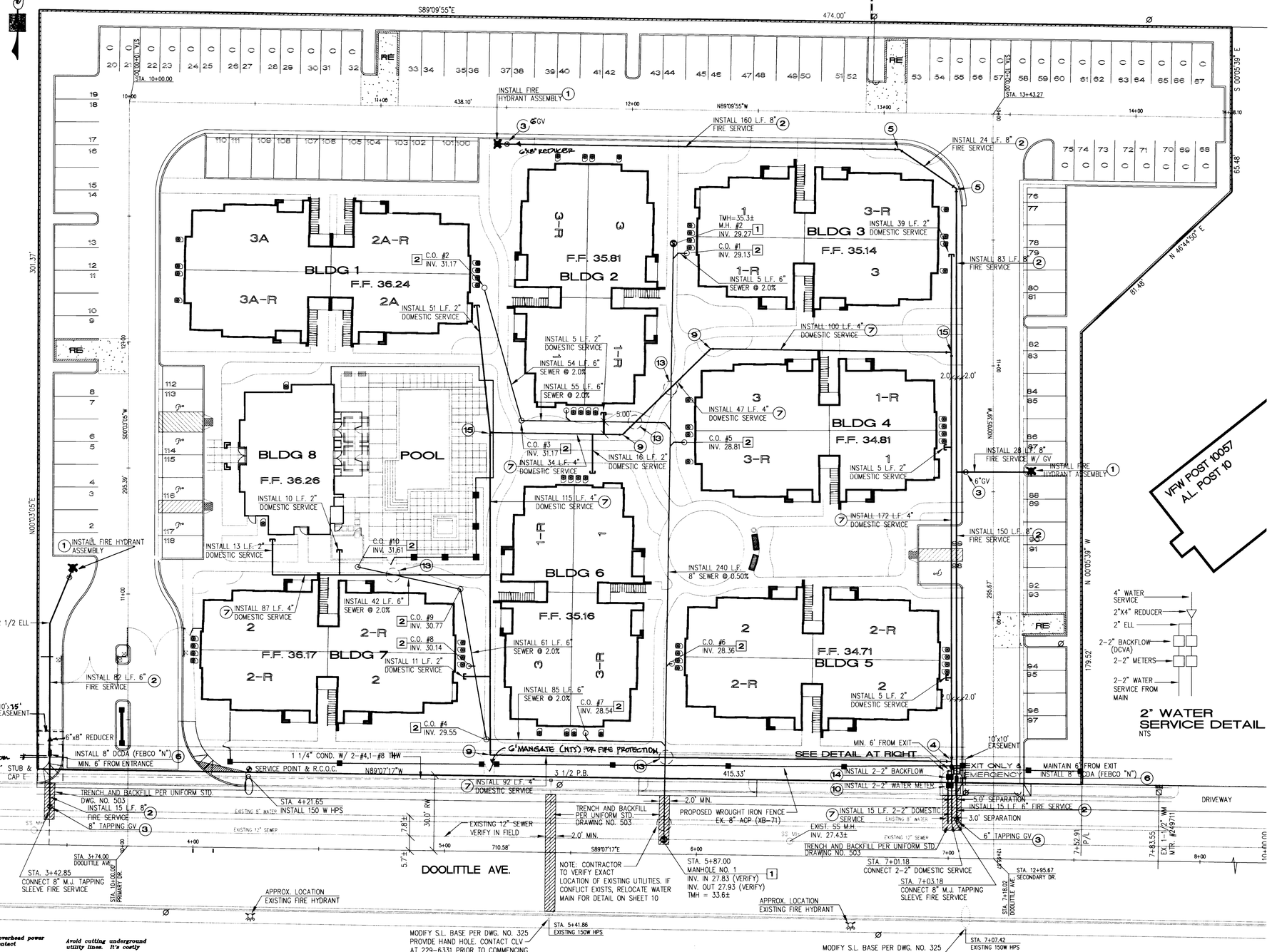
BENCHMARK

NO. 94, 2LV01 21SEE6
RIVET AND PLATE IN TOP OF CURB AT THE NW RETURN OF 'H' STREET AND DOOLITTLE STREET.
ELEVATION = 2030.38 FEET, 618.861 METERS (NGVD 29)
ADD 2.484 FOR NAVD 88

APN 139-21-703-005

GRAPHIC SCALE
20 0 10 20 40 80
1 inch = 20 ft.

APN 139-21-703-004



2" WATER SERVICE DETAIL

NTS

UTILITY NOTE

1. NOTIFY HUSAKER AND ASSOCIATES IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL LOCATE AND VERIFY SIZE, MATERIAL DEPTH, CONDITION, PRESSURE AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. HUNSAKER & ASSOCIATES SHALL BE CONTACTED ONCE THE UTILITY IS LOCATED.
3. PLANS MAY NOT INDICATE ALL EXISTING UTILITY LINES. CONTRACTOR IS TO EXERCISE EXTREME CAUTION DURING EXCAVATION IN ORDER TO AVOID DAMAGING ANY EXISTING UTILITY LINES. IF THE UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES. BACKFILL AND PATCH ALL TRENCHES ACCORDING TO CITY OF LAS VEGAS STANDARDS.
5. ALL WATER SERVICE LINES AND METERS SHALL BE INSTALLED PER LAS VEGAS VALLEY WATER DISTRICT STANDARDS AND SPECIFICATIONS.
6. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT OF MANHOLE PRIOR TO CONSTRUCTION. HUNSAKER & ASSOCIATES SHALL BE CONTACTED ONCE THIS INFORMATION HAS BEEN OBTAINED.
7. ALL ONSITE SEWERS ARE PRIVATELY OWNED AND MAINTAINED.

CONSTRUCTION KEY NOTES

SEWER

[1] INSTALL SANITARY SEWER MANHOLE PER DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION NO. SD-1
[2] INSTALL SANITARY SEWER CLEANOUT (POINT OF CONNECTION)
[3] INSTALL SEWER MAIN (SIZE AS INDICATED ON PLAN) TRENCH SECTION BACKFILL PER D.C.S.W.C.S. NO. SD-16, SD-16A

WATER

(1) INSTALL FIRE HYDRANT ASSEMBLY PER U.D.A.C.S. PLATE NO. 7
(2) INSTALL 8" FIRE MAIN, TRENCH AND BACKFILL PER U.D.A.C.S. PLATE NO. 6B
(3) GATE VALVE (SIZE SHOWN) PER U.D.A.C.S. PLATE NO. 8
(4) 6" TEE
(5) 6" 45° ELBOW
(6) 8" D.C.D.A. 'N' PATTERN FEBCO 876 (N) PER U.D.A.C.S. PLATE NO. 20B
(7) 4" DOMESTIC WATER, TRENCH AND BACKFILL PER U.D.A.C.S. PLATE NO. 6B
(8) 4" TEE
(9) 4" 45° ELBOW
(10) 2" WATER METER PER U.D.A.C.S. PLATE NO. 1D
(11) 2" WATER SERVICE -BUILDING POINT OF CONNECTION
(12) 1" IRRIGATION SERVICE W/ BACKFLOW PREVENTOR
(13) UTILITY CROSSING PER DETAIL ON SHEET 10
(14) BACKFLOW PREVENTOR PER UDACS PLATE NO.11C
(15) 4" 90° ELBOW

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 2250 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.

SQUARE FOOTAGE: 7640 S.F. (TYPE 2)

LARGEST AREA BETWEEN SEPARATION WALLS: 1134 S.F.

HEIGHT: TWO STORY

TYPE OF CONSTRUCTION: TYPE 5 - NON RATED

OCCUPANCY: MULTI FAMILY RESIDENTIAL

ROOF CONSTRUCTION: TRUSS WITH CONCRETE TILE

REVIEWED BY: _____ DATE: _____

Amy Chong 4/29/98
CITY OF LAS VEGAS FIRE DEPARTMENT DATE

LAS VEGAS VALLEY WATER DISTRICT DATE

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT TECHNICAL APPROVAL

PROJECT NAME: _____

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.

LAS VEGAS VALLEY WATER DISTRICT 4/29/98 DATE

Avoid overhead power line contact
Call before you OVERHEAD
1-702-383-4111
NEVADA POWER ENVIRONMENT SAFETY SERVICES DEPARTMENT

Avoid cutting underground utility lines. It's costly
Call before you Dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

NOTE: ALL ON SITE SEWER AND WATER IS A PRIVATE SYSTEM

REV.	DATE	BY	REVISION

KAUFMAN BROAD
100 BAYVIEW CIRCLE, SUITE 2060, NEWPORT BEACH, CA 92660
(714)509-7505, FAX (714)854-0753

HUNSAKER & ASSOCIATES NEVADA, INC.
PLANNING ENGINEERING SURVEYING
Las Vegas San Bernardino San Diego Irvine
401 N. Buffalo Dr. Suite 100, Las Vegas, Nevada 89128 (702) 242-4200

SHEET
TITLE
UTILITY PLAN
CITY OF LAS VEGAS NEVADA
H STREET APARTMENTS
H STREET AND DOOLITTLE

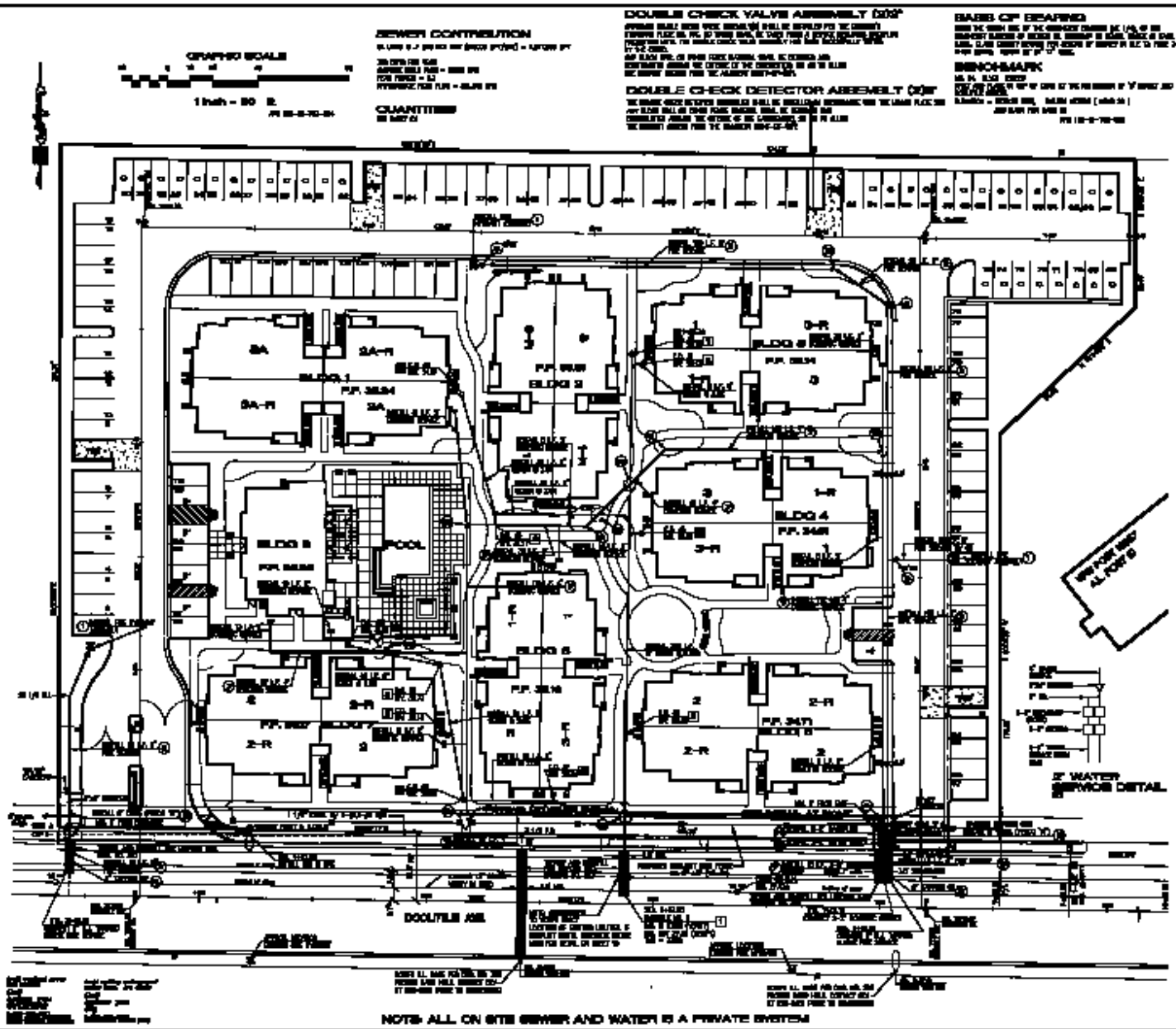
DRAWN BY: E. QUIJANA
DESIGNED BY: A. SALCIDO
CHECKED BY: F. ALBA
QUALITY CONTROL BY: F.A.A.
QUALITY CONTROL BY: P.A.A.
SCALE: SHOWN
PROJECT NO. 1506-28

SEAL
REGISTERED PROFESSIONAL ENGINEER-STATE OF NEVADA
LARRY W. BROSS No. 9115 CIVIL
4-29-98

SHEET UT1
8 OF 10
DRAWING NO. 107V2742

P:\1506-28\1MP\1506-UT1 Tue Apr 28 16:27:51 1998 Plotted By: AS

8901



KAUFMAN BROAD

KUMBAKER & ASSOCIATES

H STREET APARTMENTS
H STREET AND DOOLITTLE

UTILITY PLAN

CITY OF LAS VEGAS NEVADA

UT1

8 - 10