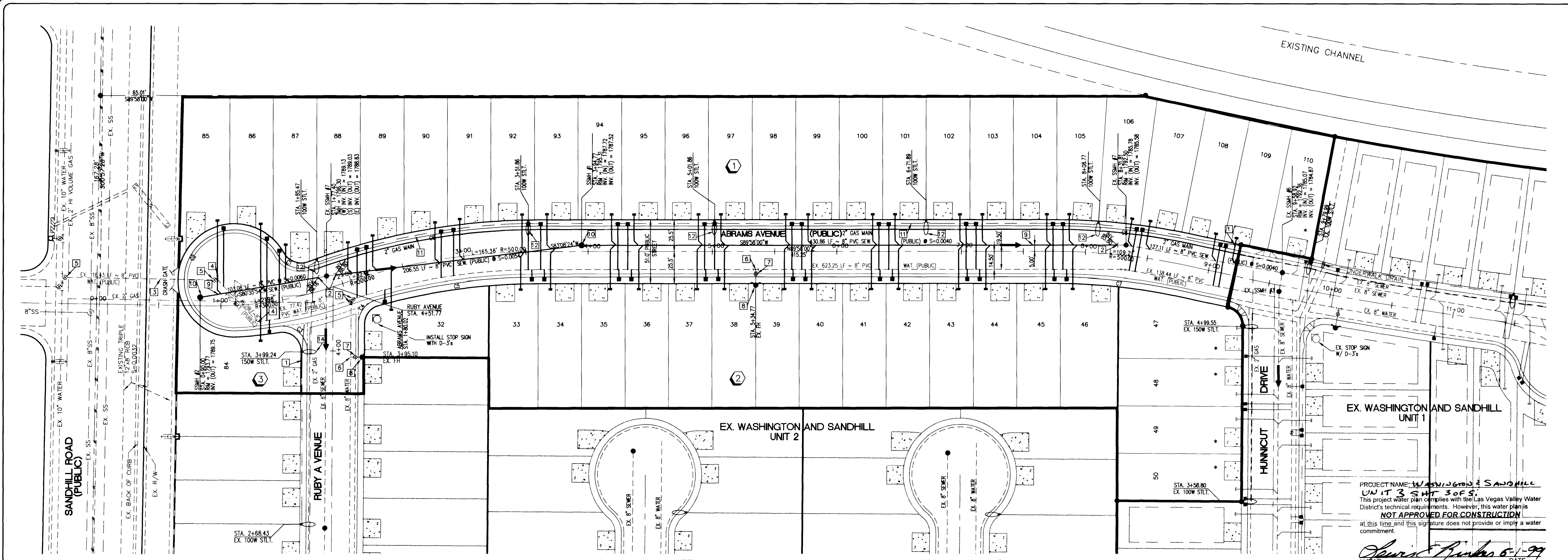


D:\NEW202-8011(3-59) (2081-1013.dwg) Thu May 27 03:46:05 1999 "HUNG"



MH #	NORTHING	EASTING
1	5559.0585	5398.4934
2	5517.5139	5091.7249
EX.6 (UNIT1)	5537.1835	5961.9678
EX.7 (UNIT1)	5559.3135	5836.3485
EX.7 (UNIT2)	5534.3529	5193.4237

LAS VEGAS FIRE DEPARTMENT:	
FIRE FLOW IS: 1,500 GPM AT 20 PSI RESIDUAL PRESSURE	
BASED ON:	
LARGEST SQUARE FOOTAGE:	2,250 S.F.
LARGEST AREA BETWEEN 4-HOUR AREA	
SEPARATION WALLS:	N/A
BUILDING HEIGHT:	34 FT
NUMBER OF STORIES:	2 FLOORS
TYPE OF CONSTRUCTION:	VNR
OCCUPANCY:	RESIDENTIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NONE

BENCHMARK

NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)

BEING CLARK COUNTY BENCHMARK NO. 0002 20SWS, BEING AN ALUMINUM RIVET AND PLATE IN TOP OF CURB IN THE NORTHEAST CORNER OF OWENS AVE. AND LAMB BLVD. NEAR THE PC OF OWENS AVE.

PUBLISHED ELEVATION = 546.243 METERS NAVD88 DATUM
CONVERTED ELEVATION = 1792.13 FEET NAVD88 DATUM

BASIS OF BEARING

BEING THE SOUTH LINE OF THE NORTHEAST QUARTER (NE1/4) OF SECTION 30, T.20S, R. 62E, M.D.M., CLARK COUNTY, NEVADA AS DEPICTED UPON A SURVEY FILED OF RECORD IN FILE 35, PAGE 15 OF SURVEY, OFFICIAL RECORDS, CLARK COUNTY, NEVADA. SAID LINE BEARS N.89°53'26"E.

- CONSTRUCTION NOTES:**
- 1 REMOVE CAP & CONNECT TO EXIST STREETLIGHT CONDUIT

2 REMOVE CAP AND CONNECT TO EXIST 8" PVC SEWER

3 EXISTING 8" PVC WATER LINE

4 EXISTING 8" 45° BEND

5 EXISTING 8" GATE VALVE

6 EXISTING 8" x 8" x 6" TEE

7 EXISTING 6" GATE VALVE

8 EXISTING FIRE HYDRANT ASSEMBLY
- 9 INSTALL 8" PVC SEWER LINE

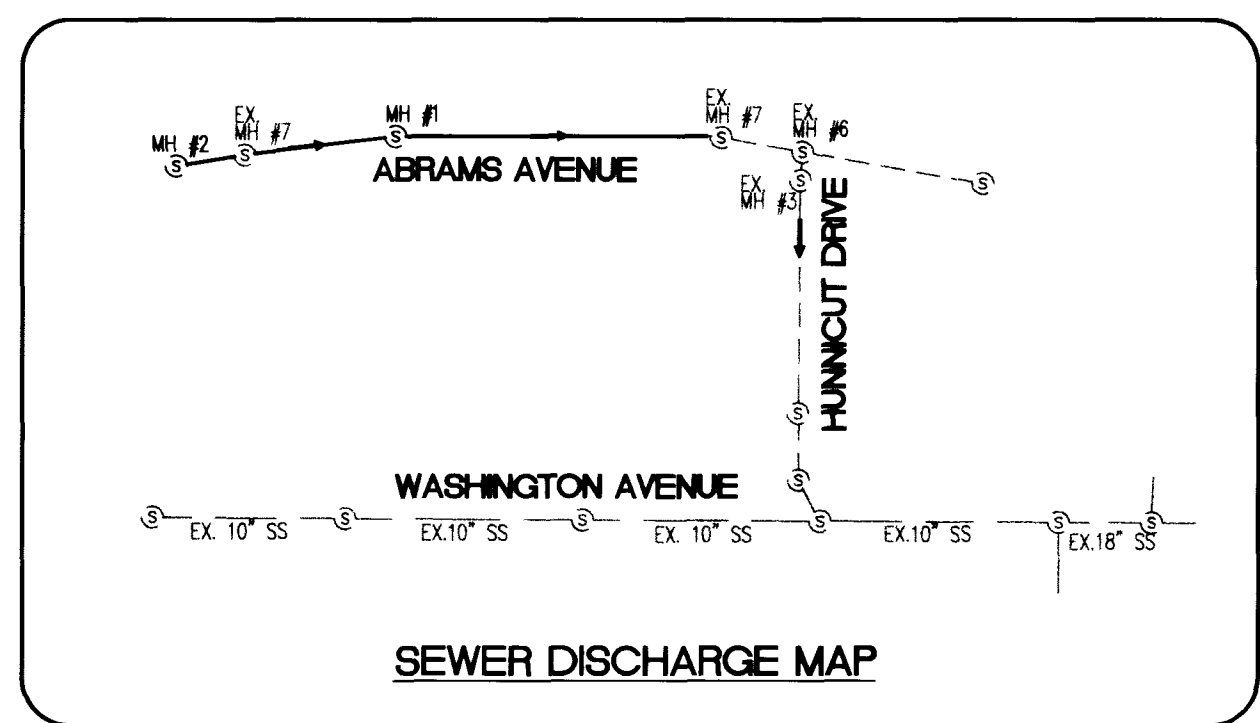
10 INSTALL 48" TYPE I SEWER MANHOLE

11 INSTALL 1 1/4" STREETLIGHT CONDUIT

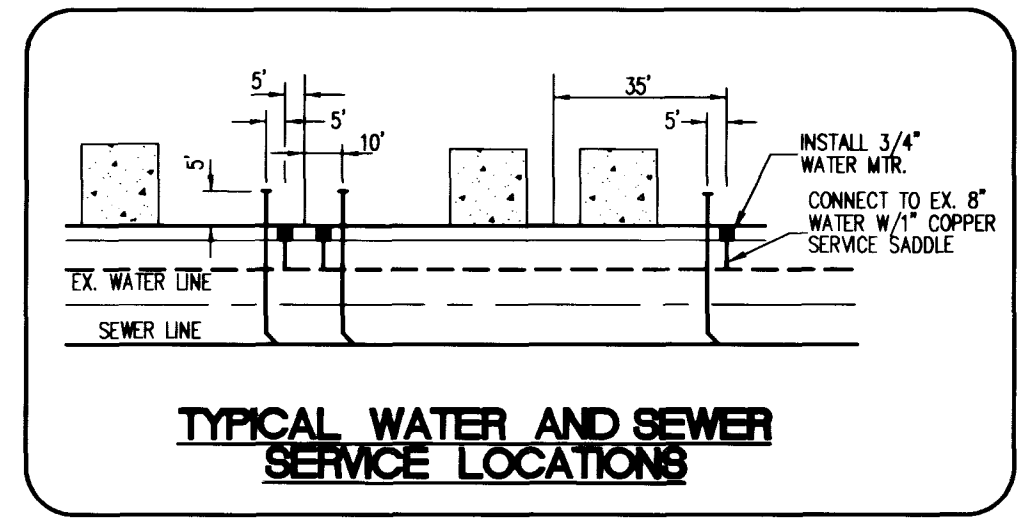
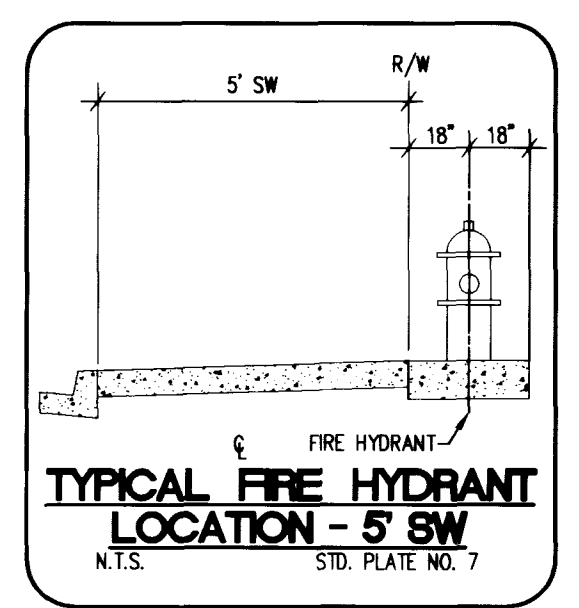
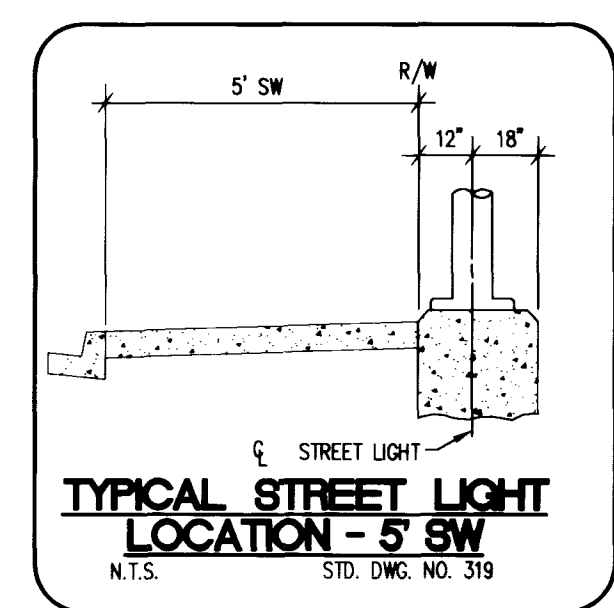
12 INSTALL 100W STREETLIGHT

13 INSTALL 3 1/2" PULLBOX

14 INSTALL 150W STREETLIGHT



SEWER CONTRIBUTION
(46 LOTS)
AVERAGE FLOW = 0.0115 gpd
PEAK FLOW = 0.0391 mgd



NOTE

ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

SEWER QUANTITIES:	
8" P.V.C. SEWER LINE	740 LF
48" DIA. MANHOLES	2 EA.
4" P.V.C. SEWER LATERAL	1,277 LF

WATER QUANTITIES:	
3/4" METER W/ 1" SERVICE SADDLE	41 EA.

SIGNAGE QUANTITY:	
STOP SIGN W/ D-3's	1 EA.

STREETLIGHT QUANTITIES:	
100W HPS STREET LIGHT	5 EA.
150W HPS STREET LIGHT	1 EA.
1 1/4" STREET LIGHT CONDUIT	823 LF.

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD 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.

before Call you Dig
1-800-227-2600

before Call you Overhead
1-702-593-6111

SERVICE LATERAL FOR LOTS #32-#46 & #84-#109

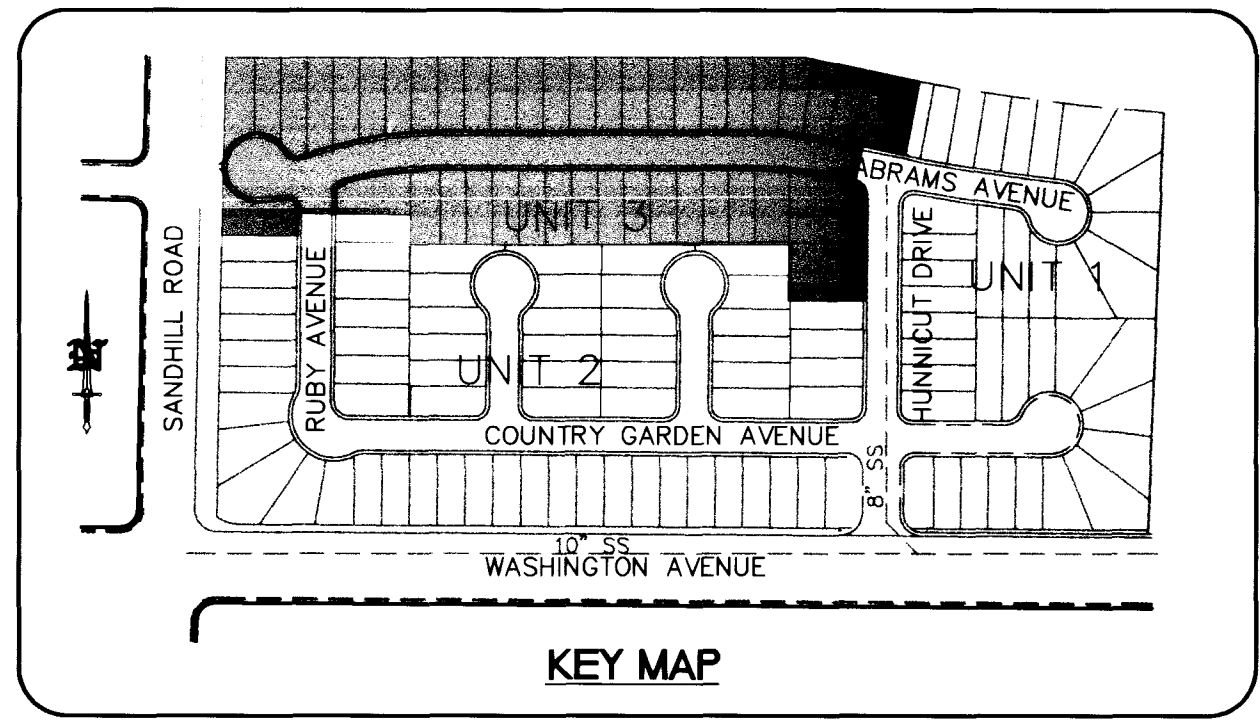
WILL BE TAPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LAS VEGAS VALLEY WATER DISTRICT.

EXISTING 3/4" METER (PER UNIT 1) 5 EA.

PROJECT NAME: WASHINGTON & SANDHILL UNIT 3 SHF 30FS

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.

David Hunter 6/1/99 DATE



CONSTRUCTION NOTE:

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE. (I.E. WV, BOX, WMH, ANNODE BOX, FH, TEL. BOX, ETC.)

NOTE:

THIS PROPERTY MAY HAVE STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVE BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF THE LVWD FACILITIES. ESN. 041

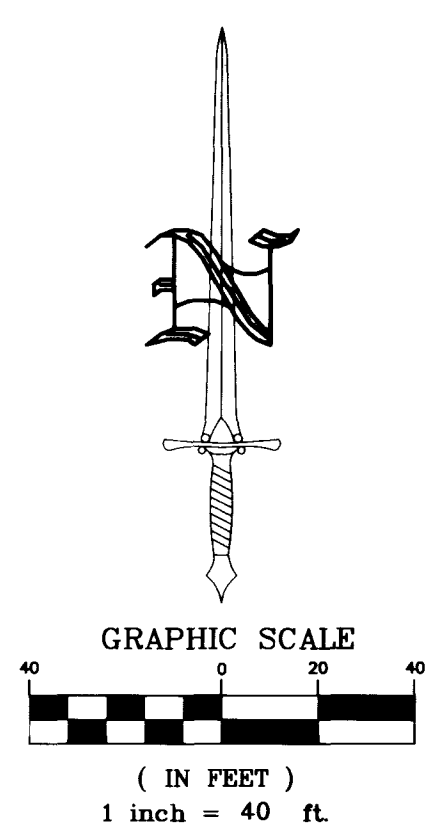
APPROVALS

Amy Chang
CITY OF LAS VEGAS FIRE DEPARTMENT

6/1/99
DATE

LAS VEGAS VALLEY WATER DISTRICT

DATE



DESIGNED BY: _____ DATE: _____

CHECKED BY: _____ REVISION: _____

NO. _____

UTILITY PLAN

WASHINGTON & SANDHILL UNIT 3

HELLER DEVELOPMENT COMPANIES

NEVADA

CITY OF LAS VEGAS

ORION ENGINEERING AND SURVEYING, INC.

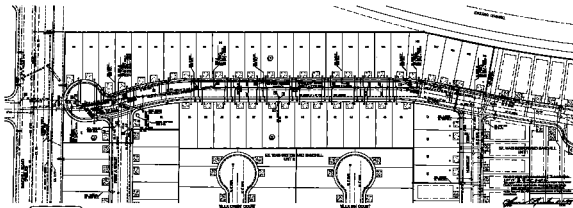
3088 E. SUNSET ROAD, SUITE 9

LAS VEGAS, NEVADA, 89120

(702) 739-5921 FAX (702) 739-5929

SHEET 3

of 5



LEGEND

SYMBOL	DESCRIPTION
[Symbol]	Building
[Symbol]	Parking
[Symbol]	Walkway
[Symbol]	Driveway
[Symbol]	Other

NOTES

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL DIMENSIONS ARE TO THE CENTER OF THE ROAD.
3. ALL DIMENSIONS ARE TO THE CENTER OF THE ROAD.

TABLE OF DIMENSIONS

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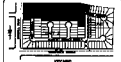
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UTILITY PLAN
WASHINGTON & BANCHELL LOTS 3
HOLLER CONSTRUCTION COMPANY
BY L. B. SMITH

CHUCK BROWNING AND ASSOCIATES, INC.
1000 N. 10TH STREET, SUITE 100
OAK RIDGE, TN 37830

1000 N. 10TH STREET, SUITE 100
OAK RIDGE, TN 37830