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BENCHMARK

Elevation = 3209.10 FEET (NAVD 88 DATUM)
CITY OF LAS VEGAS BENCHMARK No. 9LV19 2NWS
NDOT DISC SET IN CONCRETE, 50 FEET SOUTH OF THE CENTERLINE OF
CHARLESTON BLVD. AT P.T. COMING OUT OF RED ROCK, STAMPED STA.
787+19.42 PT ± MP 14.7
NAVD 88 ELEVATION = 978.1356 METERS

BASIS OF BEARINGS

NORTH 89°46'49" EAST, BEING THE BEARING OF THE NORTH LINE OF
SECTION 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS
VEGAS, CLARK COUNTY, NEVADA, AS SHOWN IN FILE 92 OF SURVEYS, PAGE
42, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

SEWER CONSTRUCTION KEY NOTES

1. INSTALL 48" SANITARY SEWER MANHOLE PER SOUTHERN NEVADA DESIGN &
CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS, 1997.
SD-1, SD-7.
2. INSTALL 8" SEWER MAIN, PER SD-16A PER SD-16A.
3. TRENCH BACKFILL UNPAVED AREA PER SUMMERLIN STD. DWG. NO. U-19
4. TRENCH BACKFILL PAVED AREA PER SUMMERLIN STD. DWG. NO. U-20
5. NOT IN USE
6. TRENCH BACKFILL PAVED AREA PER SUMMERLIN STD. DWG. NO. U-21
(PRIOR TO FINAL LIFT)
7. REMOVE PLUG AND EXTEND SEWER LINE
- (BWV) BACK WATER VALVE (FOR DETAIL SEE SHEET C2)

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS 1500 GPM AT 20 PSI RESIDUAL PRESSURE.

BASED ON:
SQUARE FOOTAGE: 2,358 S.F.
BUILDING HEIGHT: 19'
NUMBER OF STORIES: 1
OCCUPANCY: SINGLE FAMILY
FULL AUTOMATIC FIRE SPRINKLERS: NO

REVIEWED BY: *[Signature]* 25.03
DATE

LEGEND

- EXISTING FIRE HYDRANT LOCATION
- PROPOSED FIRE HYDRANT LOCATION
- PROPERTY LINE
- STREET CENTERLINE
- RIGHT OF WAY LINE
- EXISTING TRAFFIC SIGN
- PROPOSED TRAFFIC SIGN
- EXISTING UTILITY VALVE
- PROPOSED UTILITY VALVE
- EXISTING SEWER MAIN WITH MANHOLE
- PROPOSED SEWER MAIN WITH MANHOLE
- PROPOSED 4" SEWER LATERAL
- PROPOSED 1" WATER LATERAL
W/ 3/4" METER (UNLESS NOTED OTHERWISE ON PLAN)
- PROPOSED DRIVEWAY LOCATION
- AREA OF EX. AC OR SIDEWALK REMOVAL



GENERAL NOTES

1. C.V. CONSULTANTS, INC. SHALL BE NOTIFIED IMMEDIATELY OF ANY
DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. ALL UTILITY INSTALLATION SHALL CONFORM TO THE CITY OF LAS VEGAS
STANDARDS, LAS VEGAS VALLEY WATER DISTRICT STANDARDS AND
THE UNIFORM PLUMBING CODE.
3. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND
ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN
PERMISSION AND EASEMENT HAVE BEEN OBTAINED FROM THE OFFSITE
OWNER.
4. ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY AND OUTSIDE
THE PROJECT BOUNDARY SHALL BE PERFORMED UNDER A SEPARATE
ENCROACHMENT PERMIT ISSUED BY THE CONTROLLING AUTHORITY.
5. ALL HYDRANTS SHALL BE PLACED A MIN. OF 18" BACK OF
SIDEWALK.
6. WATER AND SEWER LINES SHALL BE INSTALLED IN SEPARATE TRENCHES
WITH AT LEAST TEN (10) FEET OF SEPARATION MEASURED HORIZONTALLY
FROM THE EXISTING PIPE WALLS.
7. ADD 3200' TO ALL ELEVATIONS SHOWN.
8. 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.
9. 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.
10. CONTRACTOR IS TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE
AS NECESSARY FOR UTILITY TRENCHES. BACKFILL AND PATCH ALL
TRENCHES ACCORDING TO SUMMERLIN STANDARDS.
11. FIRE HYDRANT STATIONING REFERENCES TEE LOCATION.
12. IN THE EVENT SEWER LATERAL LOCATIONS ARE PLACED ABOVE WATER LATERALS,
OR REQUIRED CLEARANCES ARE NOT MAINTAINED, WATER QUALITY PIPE SHALL
BE USED FOR SEWER INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR
INCLUDING ANY ADDITIONAL COSTS IN THEIR BIDDING.
13. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF
PIPE UNLESS INDICATED OTHERWISE.
14. ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION
AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE
(i.e. WY. BOX, WMH, ANNOCE BOX, FH, TEL. BOX, ETC.).
15. THIS SITE IS LOCATED WITHIN THE LAS VEGAS VALLEY WATER DISTRICT
(LVWD) 3435 WATER PRESSURE ZONE.
16. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH
HORIZONTAL ELBOW FITTING PER MANUFACTURER INSTRUCTIONS.

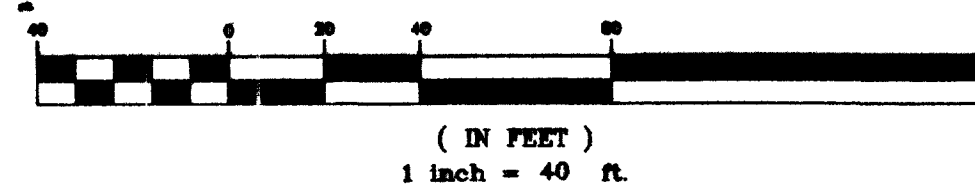
WATER CONSTRUCTION KEY NOTES AND QUANTITIES

1. INSTALL 8" PVC WATER LINE 379 LF
7. INSTALL FIRE HYDRANT ASSEMBLY PER UNIFORM DESIGN AND
CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
(UDS) PLATE No. 7, INCLUDES TEE, 6" PIPE, GATE VALVE AND
RISER AND THE LOCATION SHALL BE DETERMINED BY CLARK
COUNTY AREA STD. DWG. 516 VALVES SHALL NOT BE LOCATED
IN STREET VALLEY OUTLETS OR WITHIN PROPOSED CURB AND
OUTLET LOCATIONS. 2 EA
9. INSTALL 3/4" WATER METER AND 1" COPPER SERVICE LATERAL 30 EA
(PER UDAC'S PLATE No.18)
14. INSTALL 1" WATER METER AND 1" COPPER SERVICE LATERAL 3 EA
(PER UDAC'S PLATE No.10)
17. INSTALL 45 BEND 3 EA
18. REMOVE CAP AND BLOWOFF AND EXTEND WATER LINE 2 EA
19. 8"x8" TAPPING SLEEVE WITH 6" TAPPING VALVE 2 EA

SEWER
8" SDR-35 J.M. HFG

WATER
8" C-90 J.M. HFG
G.V. MUELLE 1000
F.H. MUELLE MADE

GRAPHIC SCALE

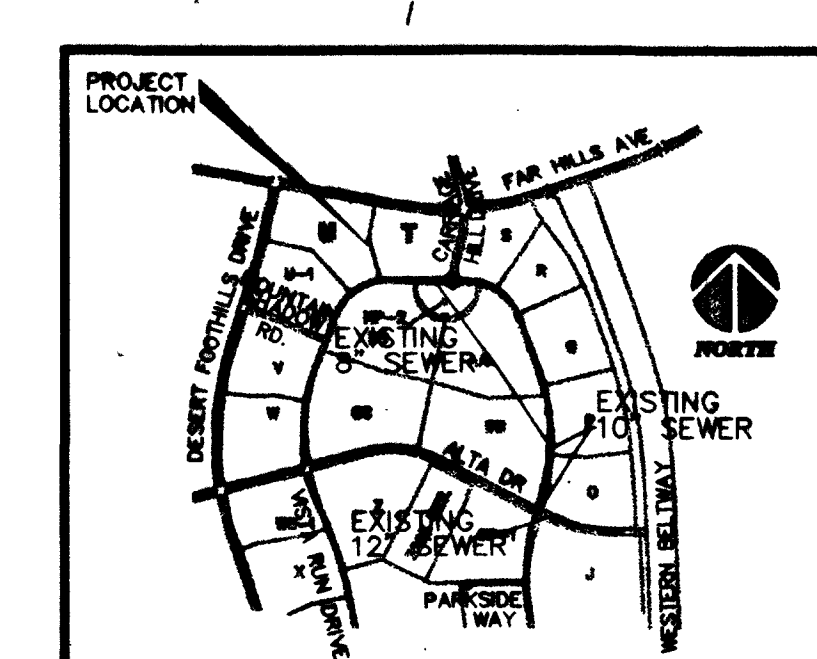
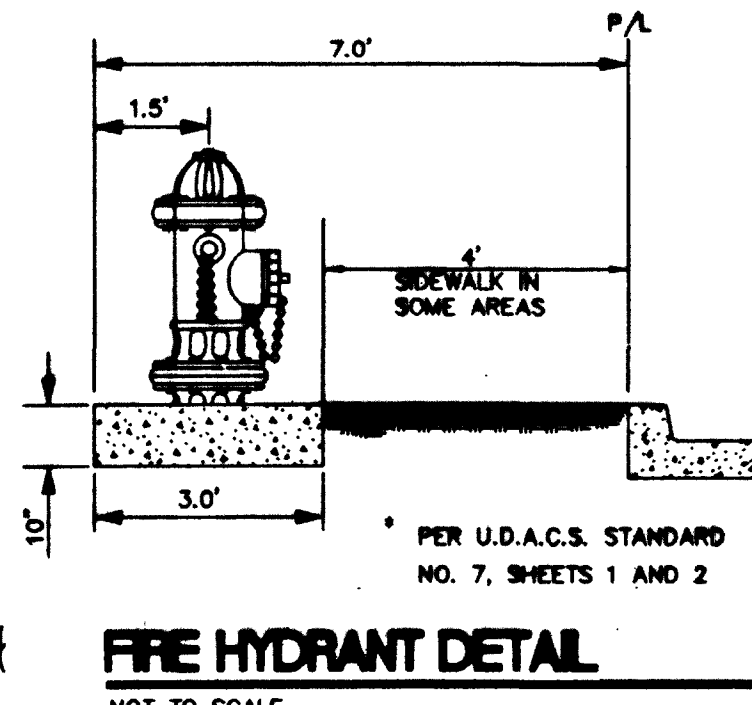
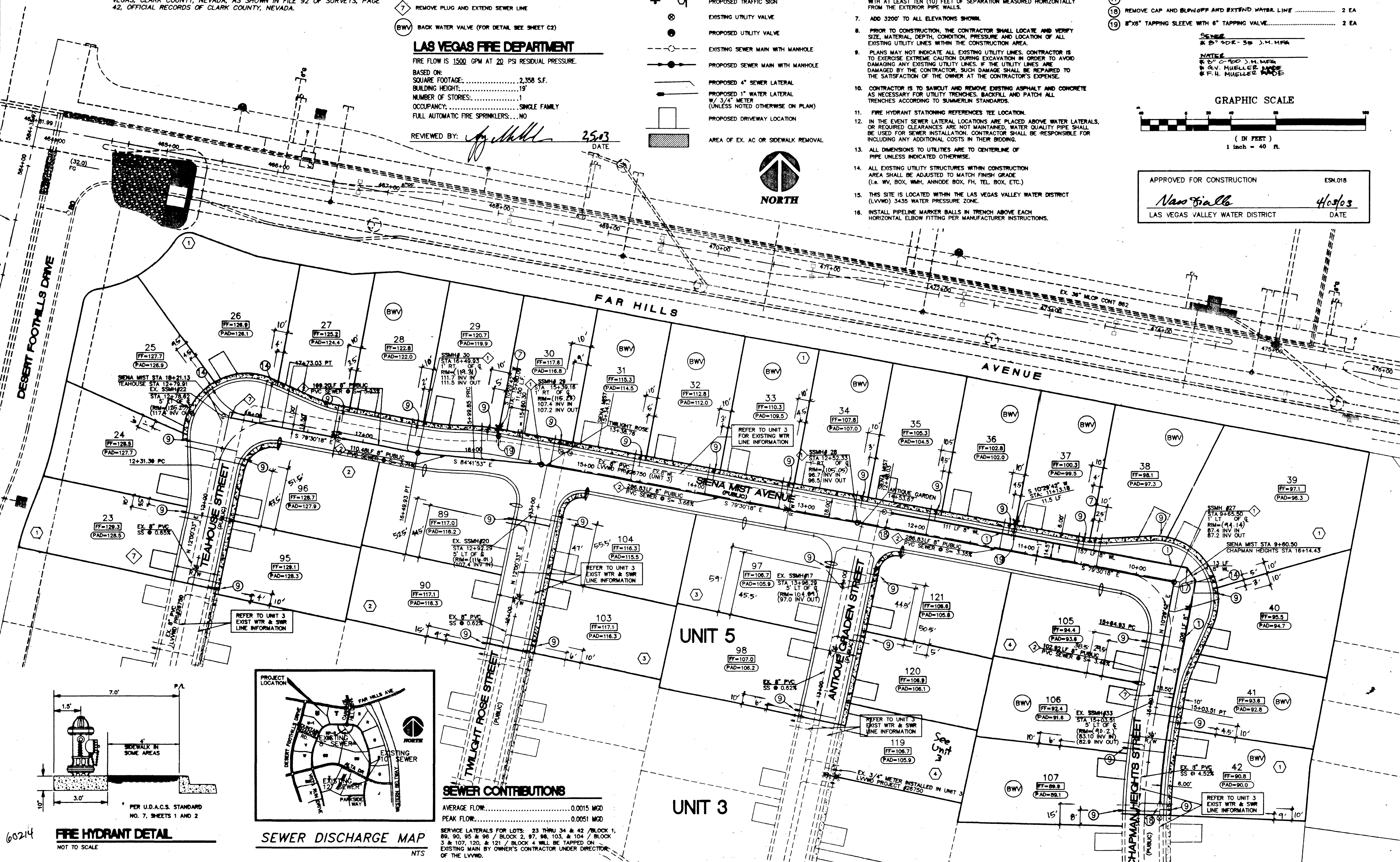


APPROVED FOR CONSTRUCTION

ESN.018

Nava Fialla
LAS VEGAS VALLEY WATER DISTRICT

4/6/03
DATE



SEWER CONTRIBUTIONS

AVERAGE FLOW: 0.0015 MGD

PEAK FLOW: 0.0051 MGD

SERVICE LATERALS FOR LOTS: 23 THRU 34 & 42 / BLOCK 1,
89, 90, 95 & 96 / BLOCK 2, 97, 98, 103, & 104 / BLOCK
3 & 107, 120, & 121 / BLOCK 4 WILL BE TAPPED ON
EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION
OF THE LVWD.

DESIGNED BY: *[Signature]*
DRAFT BY: *[Signature]*
CHECKED BY: *[Signature]*
PROJECT DATE: *[Signature]*

UTILITY PLAN 1

SUMMERLIN, VILLAGE 20
PARCEL U (ENCANTO)
PARCEL T (SANTALINA)
UNIT 5

William Lyon Homes, Inc.

ENGINEER - STATE OF NEVADA
DARREN M. BERRY
PROFESSIONAL
No. 10574

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Las Vegas, NV 89118
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Fax: (702) 368-0047

CONSULTANTS, INC.
ENGINEERING · PLANNING · LAND SURVEYING

SHEET
U1
7 OF 12

AGENCY DWG. NO.
LVV-4705-5

"AS-BUILT"