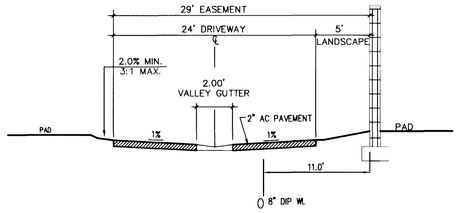
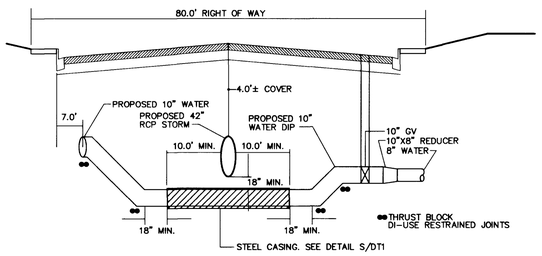


A / UT1 EASEMENT SECTION
NTS



NOTE: SEWER/STORM DRAIN CROSSING SHALL CONFORM TO SECTION 2.19 OF UDACS. SEE UDACS PLATES NO. 15 & 16

B / UT1 10" WATER/ STORM DRAIN CROSSING
NTS

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 1500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	1750	SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR	N/A	SQUARE FEET
BUILDING HEIGHT:	25±	FEET
NUMBER OF STORIES:	2	FLOORS
TYPE OF CONSTRUCTION:	V-N	
OCCUPANCY:	RESIDENTIAL	
FULL AUTOMATIC FIRE SPRINKLER SYSTEM :	NO	
ROOF CONSTRUCTION	BRICK, TILE	

REVIEWED BY: SEE SIGNATURE BLOCK ON RIGHT OF PAGE

DATE:

SEWER KEY NOTES AND QUANTITIES

1	CONSTRUCT TYPE I MANHOLE PER U.S.D.C.A.S. DWG. NO. 403.	5 EA
2	INSTALL 8" PVC SEWER MAIN	1356± LF
3	INSTALL 4" PVC SEWER LATERALS	39 EA

SEWER CONTRIBUTION

.009750 (MGD) AVG. PER DAY

.0283 (MGD) PEAK HR.

WATER QUANTITIES AND KEY NOTES

A	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATE NO.7	5 EA
B	8" GATE VALVE (PER U.D.A.C.S. PLATE No. 8)	6 EA
C	CAP AND 2" BLOW OFF PER UDACS STD. PLATE 4A	3 EA
D	5/8" METER AND 1" LATERAL (PER U.D.A.C.S. PLATE # 1B)	39 EA
E	8" x 6" – TEE	4 EA
F	8" x 8" – 90° ELBOW	2 EA
G	10" x 8" REDUCER	1 EA
H	10" x 10" – 90° TEE	1 EA
I	10" GATE VALVE (PER U.D.A.C.S. PLATE No. 8)	1 EA
J	8" x 8" – TEE	1 EA
K	8"X6" REDUCER	1 EA
L	3/4" METER AND 1" LATERAL (PER UDACS PLATE 1B) (LOT 31)	1 EA
M	3/4" METER AND 1" LATERAL (PER UDACS PLATE 1D) (LOT 53)	1 EA
	8" PVC WATER MAIN	1408± LF
	10" PVC WATER MAIN	246± LF

DISCLAIMER NOTE:

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

NOTIFY ENGINEER IMMEDIATELY IF DESCREPENCIES ARE ENCOUNTERED

NOTE:

ALL PRIVATE STREETS & DRIVES ARE PUBLIC DRAINAGE EASMENTS TO BE PRIVATELY MAINTAINED. CITY OF LAS VEGAS SEWER EASEMENTS PUBLIC UTILITY EASEMENTS.

CURVE TABLE

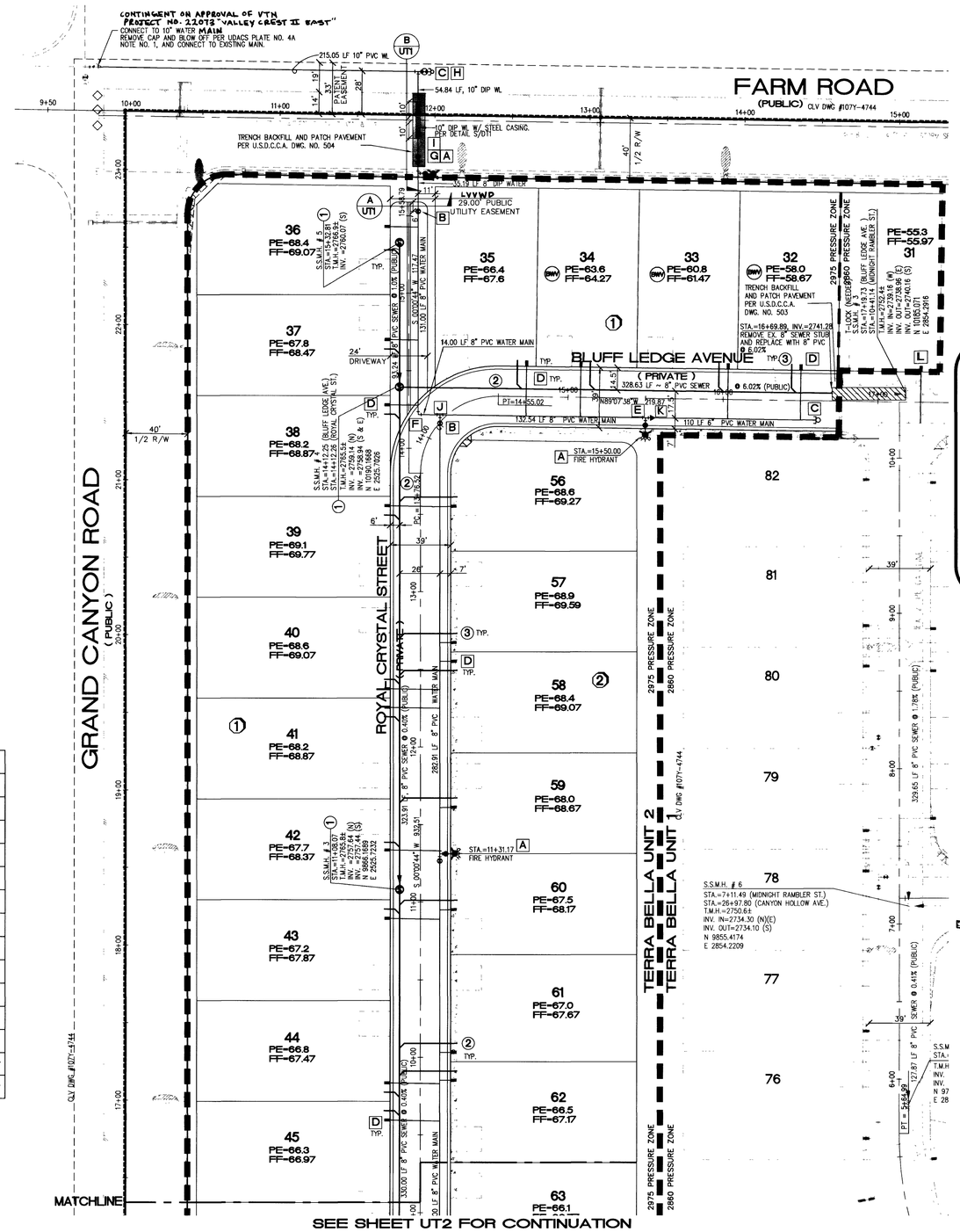
C1	Δ=90°51'38"	R=49.50'	L=78.50	T=50.25
C2	Δ=89°09'04"	R=49.50'	L=77.02	T=48.77

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

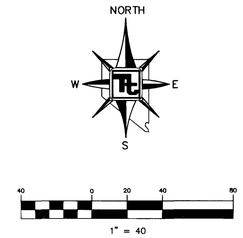
Avoid overhead power line contact.
Call before you Overhead
1-702-593-6111
NEVADA POWER ENVIRONMENT SAFETY SERVICES DEPARTMENT

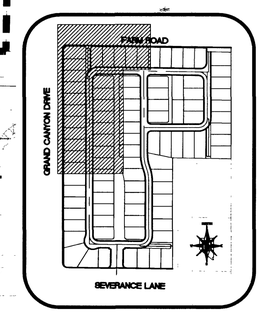
ABOVE BEFORE UNDERGROUND
TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEMS CONDUITS IT'S COSTLY
CALL PRIOR TO UNDERGROUND
Call before you
UnderGround
1-702-455-7511
24 HOURS BEFORE DIGGING
1-702-229-6611
LAS VEGAS VALLEY IRRIGATION WATER SYSTEMS

6139/ 63402
XI

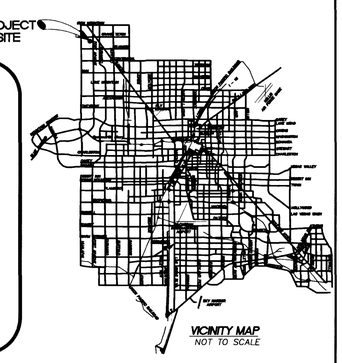


SEE SHEET UT2 FOR CONTINUATION





KEYMAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

BENCHMARK

CITY OF LAS VEGAS BENCHMARK – 2C90 – 20W4

REBAR ±124 FT. NORTHEAST OF DEER SPRINGS AND FORT APACHE.

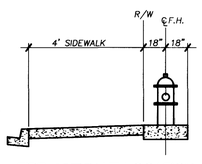
ELEVATION = 806.867 METERS (NAVD88)
ELEVATION = 2647.20 FEET (NAVD88)

BASIS OF BEARING

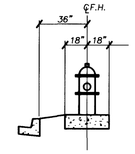
BEARING NORTH 00°37'43" EAST, BEING THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 18, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON FILE 114, PAGE 17 OF SURVEYS.

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY
- "L" TYPE CURB AND GUTTER
- EXISTING CURB AND GUTTER
- CROSS GUTTER
- WHEELCHAIR RAMP
- CUT OR FILL SLOPE
- PROPOSED AC PAVEMENT AREA
- PROPOSED DRIVEWAY AREA
- PHASE LINE
- BLOCK WALL
- RETAINING WALL
- 25 LOT NUMBER
- WATER METER
- GATE VALVE
- 8" x 10" REDUCER
- 90° BEND
- "T" FITTING
- FIREHYDRANT
- BACKWATER VALVE
- BLOCK NUMBER
- EX. STREETLIGHT PER UNIT 1



FIRE HYDRANT LOCATION WITH SIDEWALK
NOT TO SCALE



FIRE HYDRANT LOCATION NO SIDEWALK
NOT TO SCALE

UTILITY NOTE

1. NOTIFY TETRA TECH, INC. IMMEDIATELY OF ANY DISCREPANCIES IN THE PLAN 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. TETRA TECH, INC. 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. TETRA TECH, INC. SHALL BE CONTACTED ONCE THIS INFORMATION HAS BEEN OBTAINED.

ALL SEWER/ STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

NOTE: INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27.

ALL LOTS, EXCEPT #31:
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PIS. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

SERVICE LATERALS FOR LOT #31 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVVWD.

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 — DATE 11/14/03

LAS VEGAS VALLEY WATER DISTRICT — DATE 1/29/04

CITY OF LAS VEGAS FIRE DEPARTMENT — DATE 10-14-03

REV.	DATE	BY	REVISION

TOLL BROTHERS
1635 VILLAGE CENTER CIRCLE, SUITE 100
LAS VEGAS, NEVADA 89134
(702) 243-9800

TETRA TECH, INC.
INFRASTRUCTURE SOUTHWEST GROUP
401 N. Buffalo Dr. Suite 100, Las Vegas, Nevada 89145 (702) 242-4200

SHEET: UTILITY PLAN

TITLE: TERRA BELLA – UNIT 2
CITY OF LAS VEGAS

DRAWN BY: | DESIGNED BY: | CHECKED BY: | QUALITY CONTROL BY: | QUALITY CONTROL BY: | SCALE: 1"=40'

PROJECT NO. P08513.0004

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH D. THOMPSON CIVIL No. 11907 STATE OF NEVADA 10-14-03

SHEET UT1
5 OF 13

DRAWING NO. 107Y4744-2

P:\P08513-0004\dwg's\NEW\UNIT2-UT.dwg 08/29/2002 02:23:22 PM PDT