

**GENERAL NOTES**

1. DEFLECTION ANGLE SHALL NOT EXCEED 5° PER 13' SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 10 INCHES AND SHALL NOT EXCEED 3° FOR PIPE SIZES 10 INCHES AND LARGER.
2. ALL WATER VALVES SHALL BE OPERATED ONLY UNDER THE DIRECTION OF THE WATER DISTRICT.
3. ALL WORK, EXCEPT AS MODIFIED HEREON, SHALL BE DONE IN STRICT ACCORDANCE WITH CLARK COUNTY STANDARD SPECIFICATIONS.
4. SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL SERVICES. DOUBLE TAPPED COLLARS NOT ALLOWED.
5. PARALLEL WATER AND SEWER LINES SHALL HAVE A MINIMUM OF 10' HORIZONTAL SEPARATION, AND 3' VERTICAL.
6. NOTICE TO BE GIVEN ENGINEERING DEPARTMENT OF LAS VEGAS VALLEY WATER DISTRICT 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.
7. CONTRACTOR SHALL PROVIDE THRUST BLOCKS AS REQUIRED.
8. ALL LINES TO BE PRESSURE TESTED TO 200 P.S.I.
9. ALL WORK SHALL CONFORM TO L.V.V.W.D. STANDARD SPECS., S.I. & STD. PLATES.
10. ALL FLANGED FITTINGS TO BE COATED WITH EC-244 AND WRAPPED WITH 6 MIL THICK POLYETHYLENE (2 LAYERS).
11. ALL VALVE BOXES SHALL HAVE CONCRETE COLLARS ON SURFACE OF PAVED AREAS.
12. NO OTHER UTILITY LINES MAY BE PLACED IN SAME TRENCH WITH WATER LINE.
13. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND "WATER RESOLUTION REQUIREMENTS".
14. ON ANY NEW HOME OR BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE ACTUAL CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
15. PAINTING OF CURBS AND STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY... PER CLARK FIRE DEPARTMENT "HYDRANT INSTALLATION SPECIFICATIONS"... SHALL BE COMPLETED BEFORE APPROVAL OF THE HYDRANTS BY THE CLARK COUNTY FIRE DEPARTMENT CAN BE OBTAINED.
16. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 15' OF A DRIVEWAY, AND 6' OF A POWER POLE, LIGHT STANDARD OR OTHER OBSTRUCTION... FOR WALL, FENCE AND PLANTER LOCATIONS, DRAWING 44.0 "B" SHALL BE USED.
17. ALL WATER LINES TO BE FLUSHED TO A VELOCITY OF 10 FEET PER SECOND.
18. CONTRACTOR TO FURNISH & INSTALL METER BOXES TO DISTRICT SPECS.
19. METER BOXES SHALL NOT BE PLACED IN DRIVEWAYS.
20. UNLESS OTHERWISE SHOWN DEPTHS OF COVER ON NEW LINES SHOULD BE:
  - 60' STREET WIDTH OR LESS = 36" WITH ESTABLISHED GRADE
  - 80' STREET WIDTH OR MORE = 42" WITH ESTABLISHED GRADE
  - NO GRADE OR 14" PIPE = 48"
21. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE NO. 1 SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS CLARK COUNTY AREA, 1976.

**NOTE**

CENTER LINE OF FIRE HYDRANT'S SHALL BE 18" FROM BACK OF CURB.

**APPROVALS:**

*William Thomas*  
LAS VEGAS CITY ENGINEER  
DATE: 1/4/77

*John W. ...*  
CITY OF LAS VEGAS FIELD OPERATIONS ENGINEER  
DATE: 2/10/77

LAS VEGAS VALLEY WATER DISTRICT  
DATE: \_\_\_\_\_

*J. H. Middleton*  
CITY OF LAS VEGAS FIRE DEPARTMENT  
DATE: 2/10/77

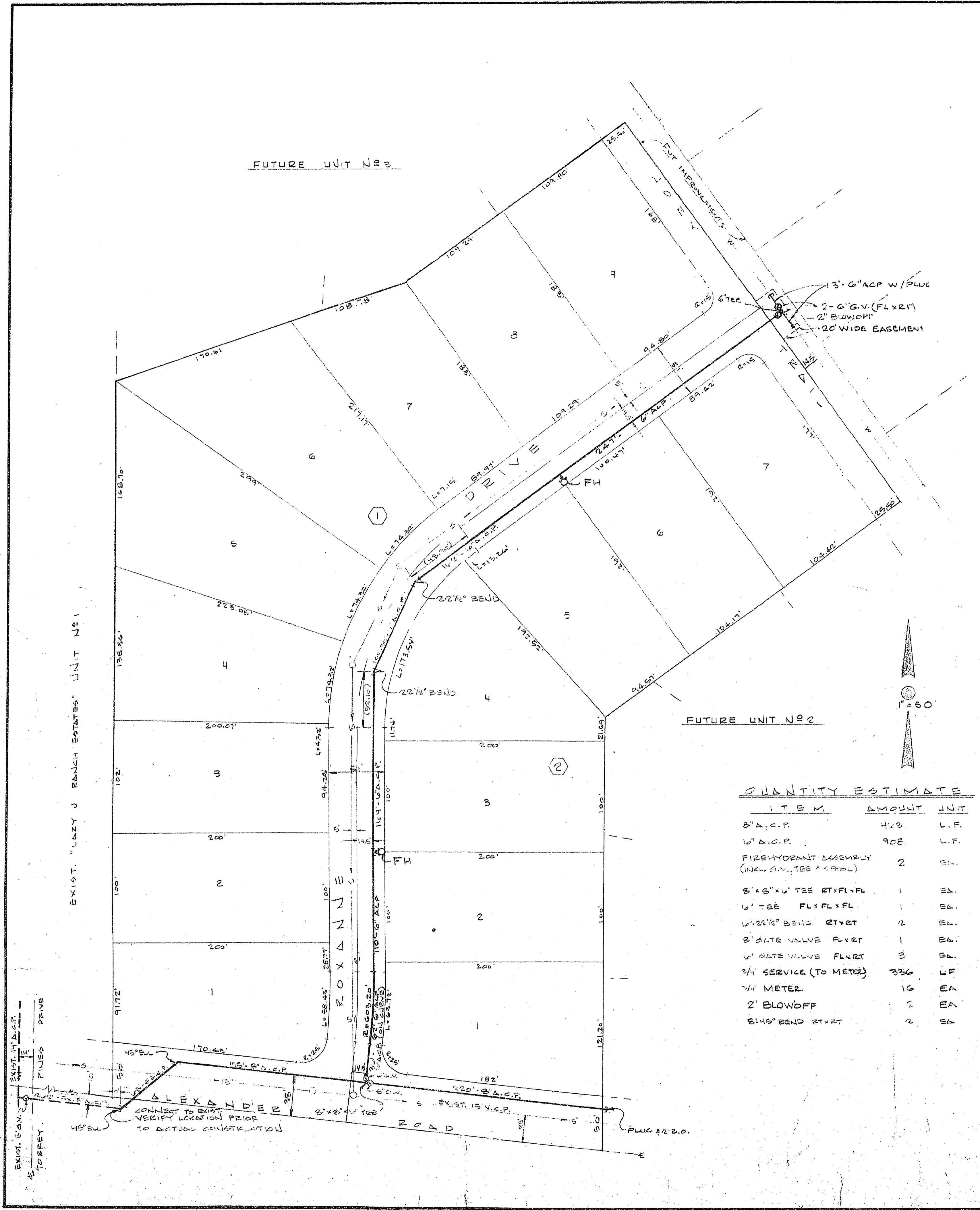
*[Signature]*  
SUPERVISOR OF QUALITY CONTROL  
DATE: 2/10/77

**SUBMITTED BY:**

*[Signature]*  
PROFESSIONAL ENGINEER  
NO. 3340  
STATE OF NEVADA  
DATE: 12-20-76

**QUANTITY ESTIMATE**

ITEM	AMOUNT	UNIT
8" A.C.P.	428	L.F.
6" A.C.P.	902	L.F.
FIRE HYDRANT ASSEMBLY (NEW CON. TEE ASSEMBLY)	2	EA.
6" X 6" X 10" TEE RT/FL/FL	1	EA.
6" TEE FL/FL/FL	1	EA.
4" X 2 1/2" BEND RT/RT	2	EA.
8" GATE VALVE FL/RT	1	EA.
6" GATE VALVE FL/RT	3	EA.
3/4" SERVICE (TO METER)	326	L.F.
1/4" METER	16	EA.
2" BLOWOFF	2	EA.
8" X 4" BEND RT/RT	2	EA.



**DELTA ENGINEERING INC.**  
4801 W. SAHARA AVE.  
LAS VEGAS, NEV. 89102  
PHONE 702-876-0330

**BIG SKY RANCH ESTATES**  
UNIT 1  
MASTER WATER PLAN

DRWN: D.W.B. DES: D.B.P. CHKD: M.N.M. DATE: 12-20-76  
JOB NO: 761003 H. SCALE: 1" = 60' V. SCALE: SHEET 5 OF 5

FROM SAT. 1954

AREA BELIEVED

**QUANTITY ESTIMATE**

U.S. UNIT	ESTIMATE	SCALE
Excavation	100	1:1
Gravel	100	1:1
Concrete (including curbs and sidewalks)	100	1:1
Gravel for base	100	1:1
Gravel for subgrade	100	1:1
Gravel for base	100	1:1
Gravel for subgrade	100	1:1
Gravel for base	100	1:1
Gravel for subgrade	100	1:1
Gravel for base	100	1:1
Gravel for subgrade	100	1:1



**GENERAL NOTES**

1. EXISTING CURB SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE. THE CURB SHALL BE REPAIRED TO THE ORIGINAL GRADE AND WIDTH.
2. ALL CURB SHALL BE MAINTAINED TO THE ORIGINAL GRADE AND WIDTH.
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**NOTE**

SEE SHEET 10 FOR DETAILS

**APPROVALS**

*[Signature]*  
*[Signature]*  
*[Signature]*

**SUBMITTED BY**

