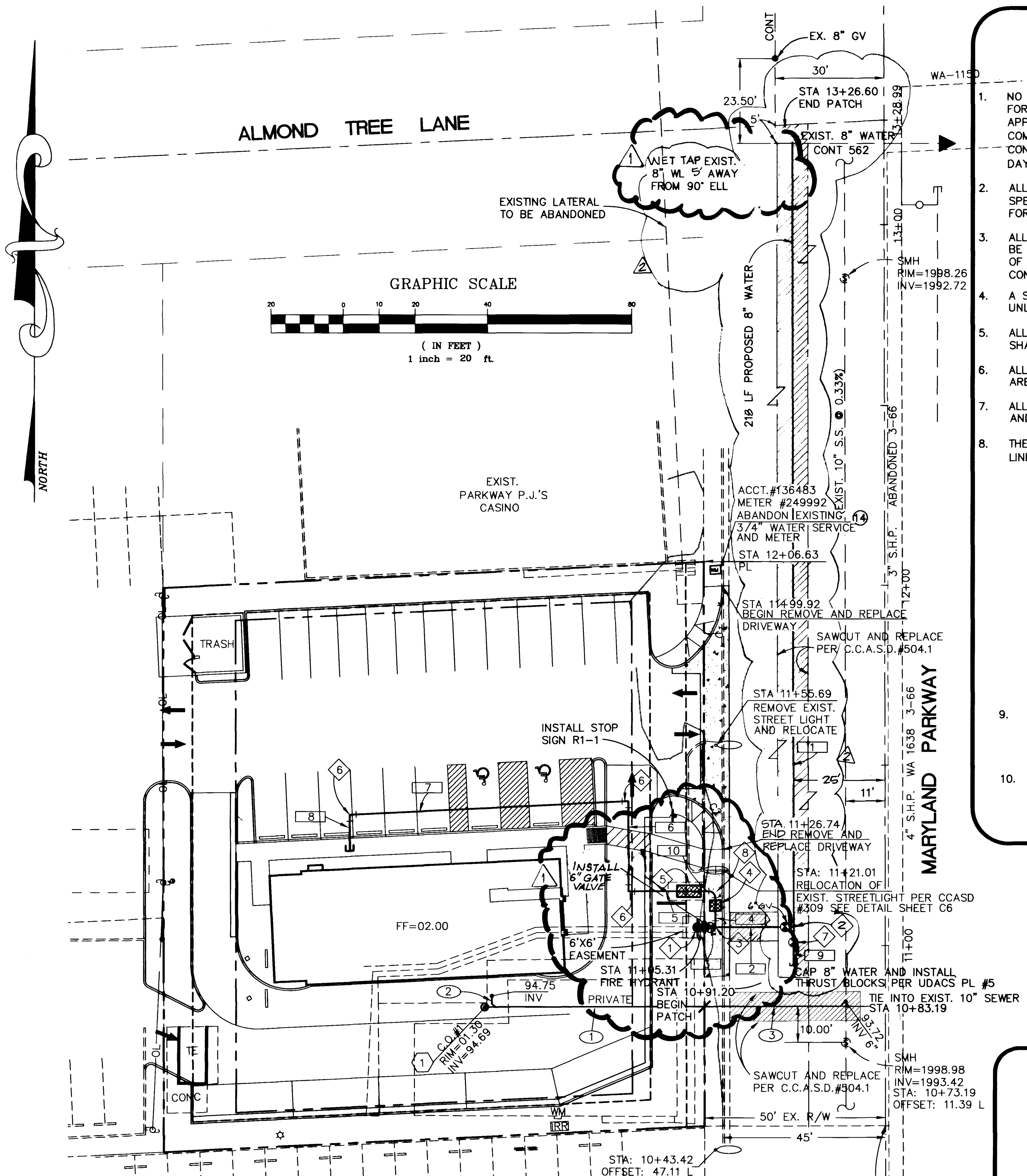


PROJECT NAME: KFC @ Maryland & Sahara
SHT C5
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is
NOT APPROVED FOR CONSTRUCTION
at this time and this signature does not provide or imply a water commitment.

LVWWD [signature] 9-2-99 DATE

NOTE:
FOR FIRE HYDRANT AND STREET LIGHT DETAILS SEE SHEET C6

10+00

207.74'

EXIST.
TACO BELL

CL SAHARA AVE
STA 8+42.49

BENCHMARK

6C11 2SWS ELEVATION = 609.638 METERS (2000.12 FEET)
RIVET AND SQUARE ALUMINUM PLATE IN TOP OF CURB AT THE NORTHEAST CORNER OF SAHARA AVENUE AND MARYLAND PARKWAY, NEAR THE PC OF SAHARA AVENUE.

2871XR1

F:\2871\DRAWINGS\PH1\2871UT1.dwg Mon Jan 25 14:40:34 1999 CRS - RTM

17930 18244 19404 19795

LAS VEGAS VALLEY WATER DISTRICT NOTES

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, FORTY-EIGHT (48) HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND THE UNIFORM DESIGN & CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO INCHES (2") IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, GUTTERS, CURBS AND ALLEY GUTTERS.
8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND A SANITARY SEWER OR STORM SEWER LINE CROSS:

   A MINIMUM EIGHTEEN INCH (18") VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:

   A. POTABLE WATER SUPPLY QUALITY MATERIAL,
   B. ENCASEMENT, WITH FOUR INCH (4") CONCRETE (MINIMUM)
   C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.

   EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE WTER MAIN, A MINIMUM 10 FOOT (10') DISTANCE PERPENDICULAR TO THE EXTERIOR OF MAIN.
9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX INCH (6") DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
10. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO INCHES (2") AND SMALLER FROM LVVWD CENTRAL STORES. TEL= 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES THAT MAY REQUIRE TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.
13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

. REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1 1/2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A OR 11B. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT OF WAY.

ABANDONMENT OF EXISTING SERVICE(S) – 2" AND SMALLER (1) 3/4" ACCT#136483, METER#249992

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702) 258-3227 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING OF THE METER. AFTER THE FINAL READING THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:
EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAIN, SHALL HAVE THE CORPORATION STOP TURNED OFF AT THE MAIN, A MINUMUM OF 12" OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE LVVWD. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER (702) 258-7171 FOR FURTHER DIRECTION.
THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES. FILL AND GRADE ANY AND ALL RESULTING VOIDS AND REPLACE VOIDS AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX.

L.V.V.W.D. [signature] 9/27/97 DATE

NOTES

1. THE ON-SITE WATER LINES AND APPURTENANCES ARE PRIVATE FACILITIES NOT TO BE OPERATED OR MAINTAINED BY THE CITY OF LAS VEGAS.
2. EXISTING SEWER TO BE LOCATED AND ABANDONED. IF LOCATED BENEATH PROPOSED BUILDING, REMOVE.
3. FOR CONTINUATION OF WATER AND SEWER LINES REFER TO MECHANICAL/PLUMBING PLAN.

SEWER TABLE

PIPE	DIA (IN)	LF	PIPE	SLOPE (%)
1	6	60.20	SDR35	0.97
2	6	3.00	SDR35	2.00
3	6	39.20	SDR35	0.97

WATER TABLE

PIPE NO.	SIZE (IN)	TYPE OF PIPE	LF
1	8	C900	218
2	6	C900	22
3	6	C900	5.00
4	1.5		10.00
5	1.5	SCH40	13.42
6	1.5	SCH40	25.00
7	1.5	SCH40	77.32
8	1.5	SCH40	10.00
9	8	C900	10.00
10	1.5		4.00

SEWER CONSTRUCTION NOTES

(1) INSTALL 6" CLEANOUT W/ 45° BEND

WATER CONSTRUCTION NOTES

1. INSTALL FIRE HYDRANT & APPURTENANCES PER UDACS PLATE NO. 7 SEE DETAIL SHEET C6
2. INSTALL 8"X8"X8" TEE W/ THRUST BLOCKS PER UDACS PLATE NO. 5
3. INSTALL 1-1/2" SERVICE SADDLE
4. INSTALL 1-1/2" WATER METER PER UDACS PLATE NO. 10
5. INSTALL 1-1/2" RPPA PER UDACS PLATE NO. 11A
6. INSTALL 1-1/2" 90° BEND
7. INSTALL 8" GATE VALVE
8. INSTALL 1-1/2" SWEEPING CURVE (2' MIN. RADIUS)

SEWER CONTRIBUTION

AVG. FLOW
2511 x 0.10 gal/sf/day = 251 gpd

PEAK FLOW
0.0003mgd x 3.4 = 0.00102 mgd
(1020 gpd)

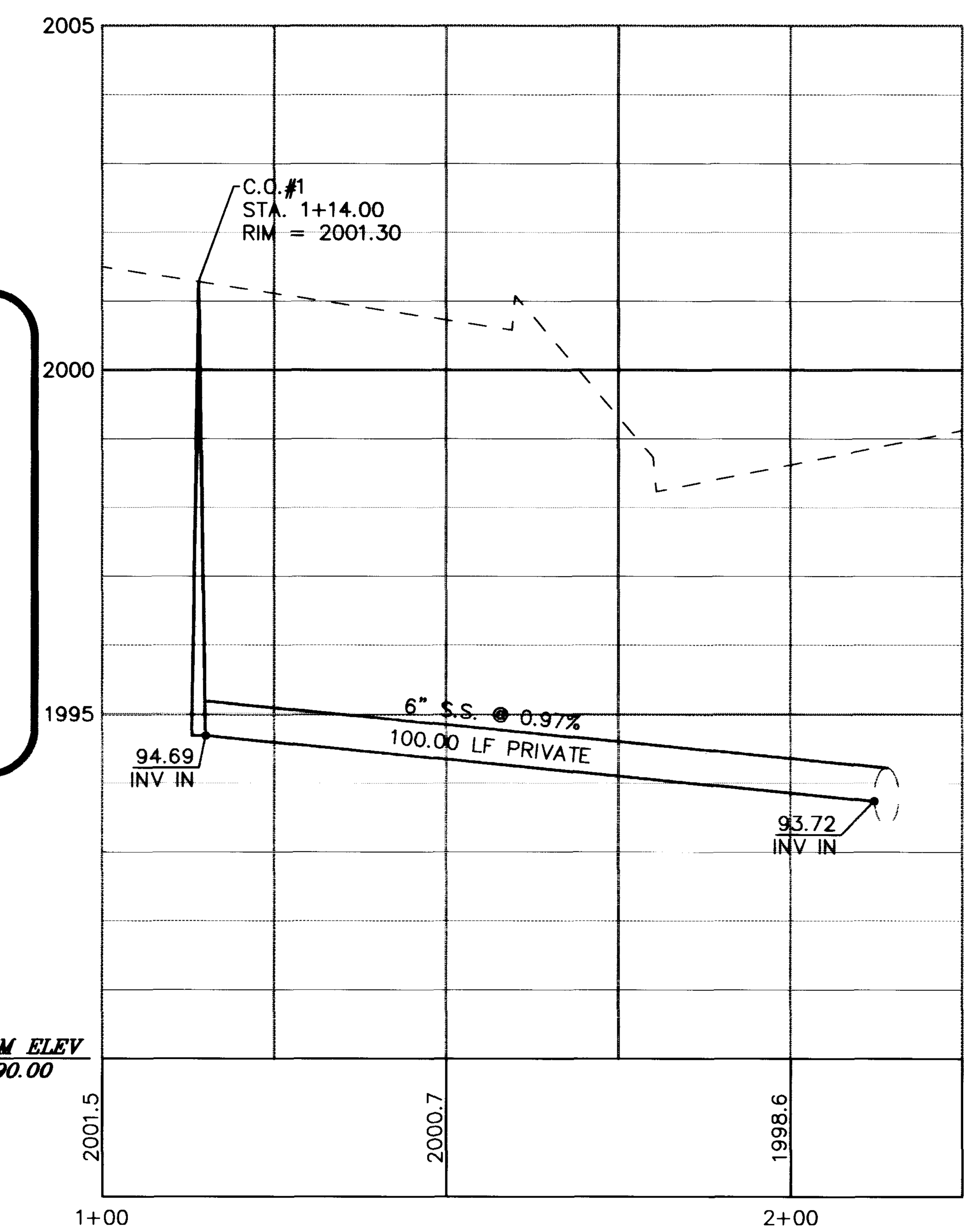
WATER QUANTITIES

PUBLIC

1 1/2" WL	14 LF
6" WL	27 LF
8" WL	228 LF
1 1/2" WATER METER	1 EA
1 1/2" RPPA	1 EA
FIRE HYDRANT	1 EA

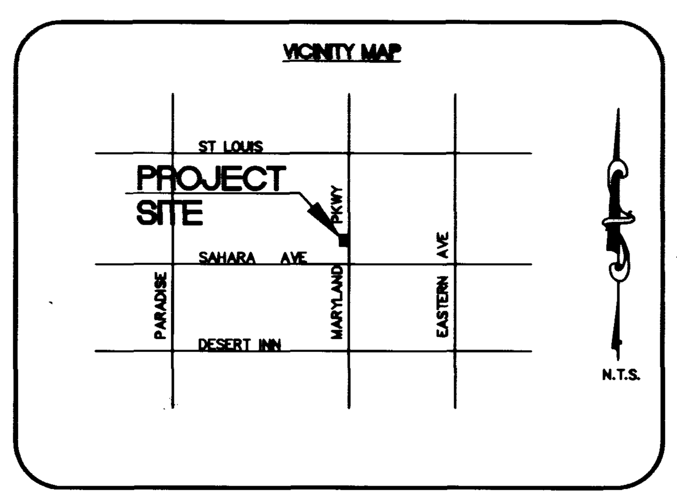
PRIVATE

1 1/2" WL	126 LF



SEWER - PROFILE

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'



AREA MAP

NTS

FIREFLOW DATA

FIRE FLOW REQUIREMENT IS : 1500 gpm
AT 20 psi RESIDUAL PRESSURE.
BASED ON:

SQUARE FOOTAGE : 2596 SQUARE FEET

STATIC PRESSURE: 71.9

TYPE OF CONSTRUCTION : VN

FULL AUTOMATIC FIRE SPRINKLER SYSTEM : NO

REVIEWED BY : [signature]

DATE : 1,27,99

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

Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600

KFC, 1900 COLONEL SANDERS LANE LOUISVILLE, KY 40232 ((502) 456-8655

REV	DATE	BY	REVISION
1	11/19/99	KS	WATER REVISIONS CAJ 11/19/99
2	12/2/99	KS	WATER REVISIONS PER CLV INSPECTOR

CAJ 12/6/99

TRICON
5767 MOCKINGBIRD LANE
PARADISE VALLEY, ARIZONA
(602) 609-8745

CRS CONSULTING ENGINEERS OF NEVADA, INC.
CALDWELL RICHARDS SORENSEN
6700 S. PARADISE RD., # A-1
LAS VEGAS, NEVADA 89119
PHONE (702) 897-2825
FAX (702) 897-2826

SHEET: UTILITY PLAN

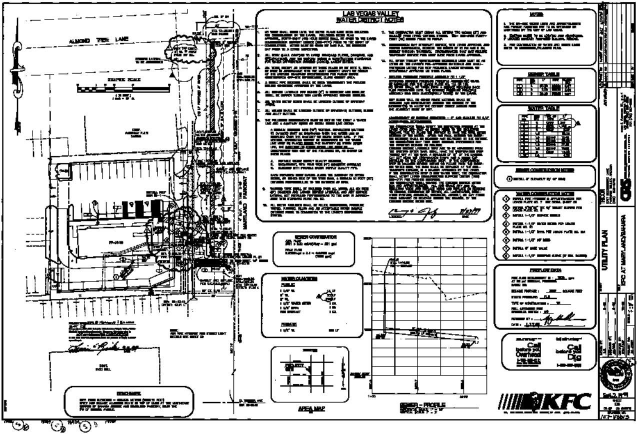
TITLE: KFC AT MARYLAND/SAHARA

DRAWN BY: S.S. 9-98
DESIGNED BY: KS/JHB 9-98
CHECKED BY: RTM/DDW 10-98
PROJECT NO: 30-22871
SCALE: 1" = 20' HOR. 1" = 2' VERT.

PROFESSIONAL ENGINEER - STATE OF NEVADA
KRISTINA L. SWALLOW
CIVIL
No. 13714
Sept 2, 1999

SHEET
C5
05 OF 06 SHEETS

DRAWING NO.
107-V3013



ALMOND TREE LANE
GRAPHIC SCALE
MARYLAND PARKWAY
LAS VEGAS VALLEY
WATER DISTRICT NOTES
NOTES
SEWER TABLE
WATER TABLE
SEWER CONSTRUCTION NOTES
WATER CONSTRUCTION NOTES
INSTALL 1-1/2" SERVICE SADDLE
INSTALL 1-1/2" AF BEND
INSTALL 4" GATE VALVE
SEWER CONTRIBUTION
WATER QUANTITIES
PUBLIC
PRIVATE
FIREFLOW DATA
SQUARE FOOTAGE
STATIC PRESSURE
DATE
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