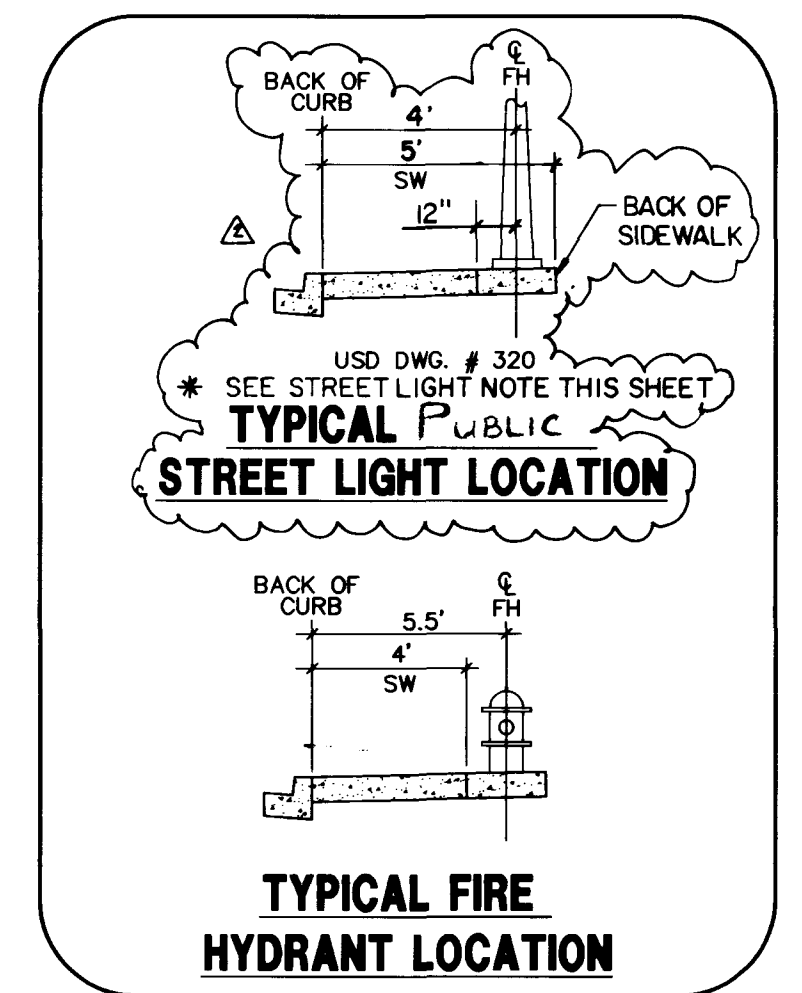
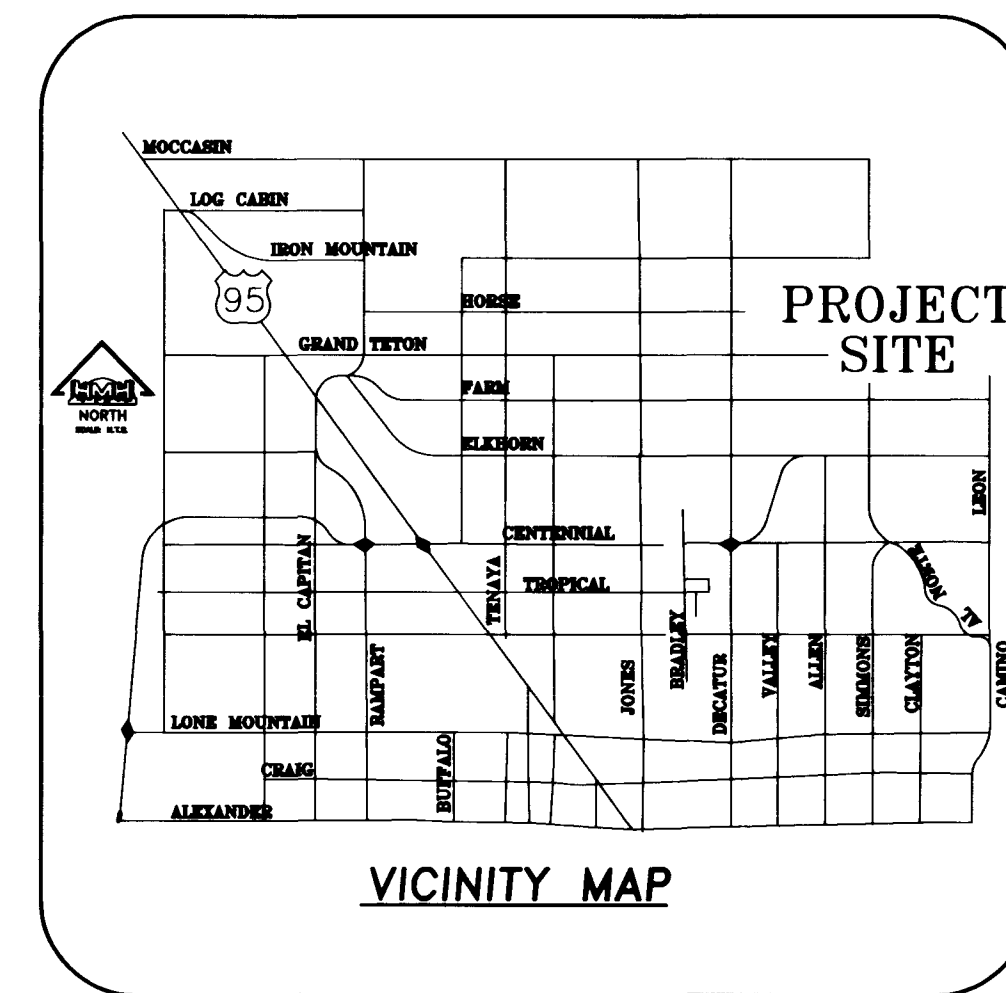
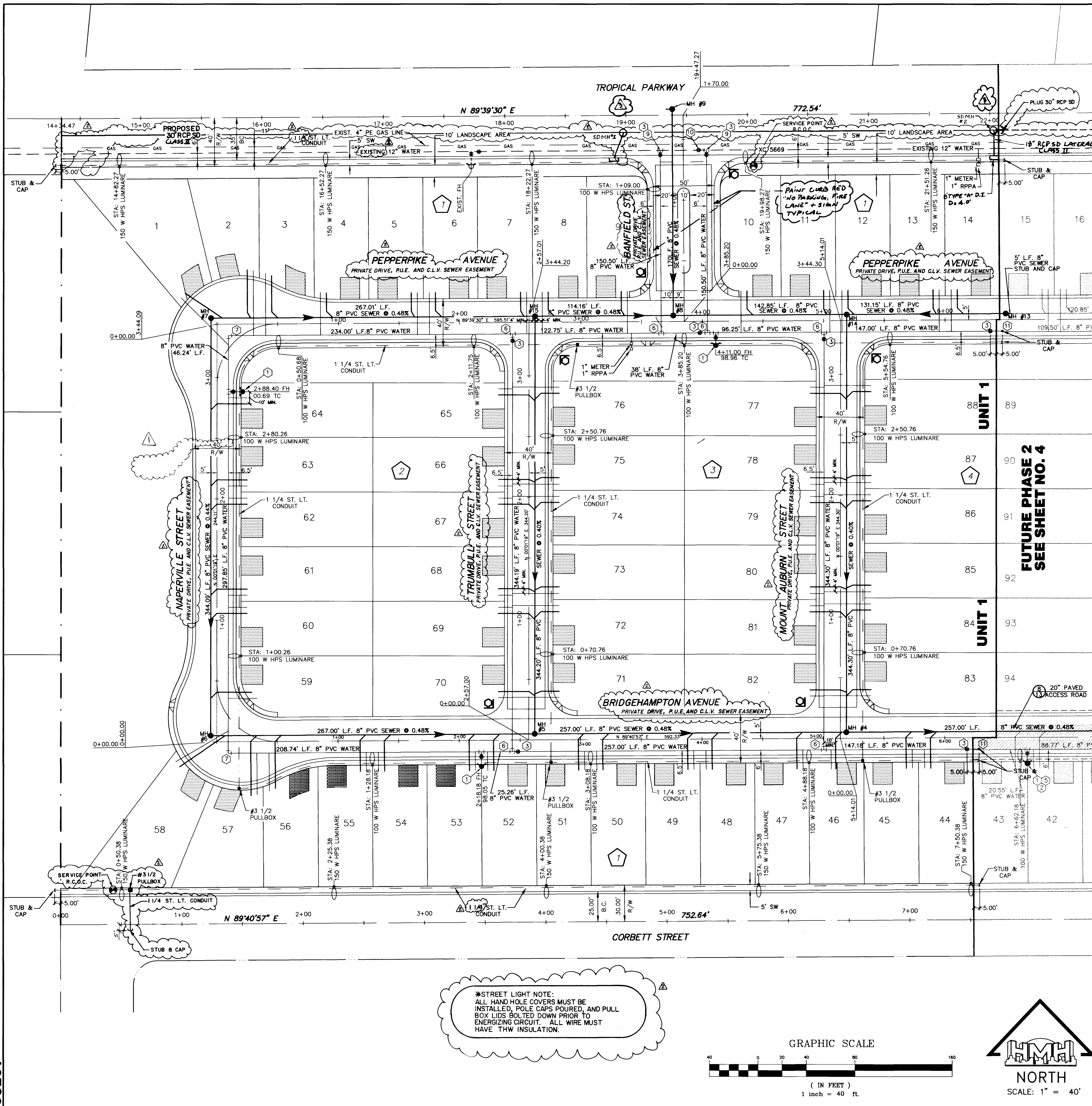




ESTIMATE OF UNIT 1 QUANTITIES			
WATER		WATER SERVICE	
1 FIRE HYDRANT W/ ASSEMBLY	3 EA.	3/4" METER FROM L.V.V.W.D.	59 EA.
2 8" GATE VALVE	8 EA.	1" COPPER SERVICE	61 EA.
3 8" X 8" TEE	6 EA.	SEWER	
4 8" X 90" ELBOW	2 EA.	48" DIAMETER STANDARD MANHOLE (PUBLIC)	12 EA.
5 12" X 12" X 8" TAPPING TEE & TAPPING VALVE	2 EA.	8" PVC SEWER MAIN	3064 LF
6 12" CUT IN GATE VALVE	1 EA.	4" PVC SERVICE LATERAL	1587 LF
7 8" END CAP W/ BLOW OFF ASSEMBLY	2 EA.	SEWER WYE	59 EA.
8 1" METER	2 EA.	STREET LIGHTS	
9 1" RPPA	2 EA.	150W HPS LUMINAIRE (PUBLIC)	10 EA.
10 8" WATER MAIN	2610 LF	100W HPS LUMINAIRE (PRIVATE)	14 EA.

NOTE: THIS PROJECT IS IN THE 2420 PRESSURE ZONE. WATER PRESSURE WILL BE APPROXIMATELY 50 PSI.

Avoid cutting underground utility lines. It's costly.

Call before you Dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

REDUCED PRESSURE PRINCIPAL ASSEMBLY(S)

APPROVED REDUCED PRESSURE PRINCIPAL ASSEMBLY(S) SHALL BE INSTALLED PER THE WATER DISTRICT'S STANDARD PLAN NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPAL ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE L.V.V.W.D.

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

SERVICE LATERALS FOR 10" LANDSCAPE AREA ALONG TROPICAL PARKWAY WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE L.V.V.W.D.

FIRE HYDRANT INSTALLATION

FIRE HYDRANT(S) TO BE INSTALLED IN ACCORDANCE WITH THE UDAC'S STANDARD PLATE NO. 7

SEWAGE CONTRIBUTION

59 RESIDENTIAL UNITS X 250 G.P.D. = 14,750 G.P.D. PEAKING FACTOR = 3.1 (FROM TABLE C, PG. T-3) PEAK FLOW: 14,750 X 3.1 = 45,725 G.P.D.

PROFESSIONAL ENGINEER SEAL
DAVID P. HUCKLE
CIVIL
No. 5258
4/13/98

TYPICAL SERVICE LOCATION

NOTE: SPECIAL CONDITIONS MAY REQUIRE ADJUSTMENT OF LOCATION OF SEWER AND WATER LATERAL LOCATION; SEE PLAN LEFT FOR ADJUSTMENTS

FIRE FLOW DATA

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL

BASED ON SQUARE FOOTAGE AREA	1775
LARGEST AREA BETWEEN AREA SEPARATION	N/A
HEIGHT	ONE STORY
TYPE OF CONSTRUCTION	SN
EXPOSURES	10' MIN
SPRINKLER SYSTEM	NONE
OCCUPANCY	SINGLE-FAMILY
ROOF CONSTRUCTION	TILE

BENCHMARK

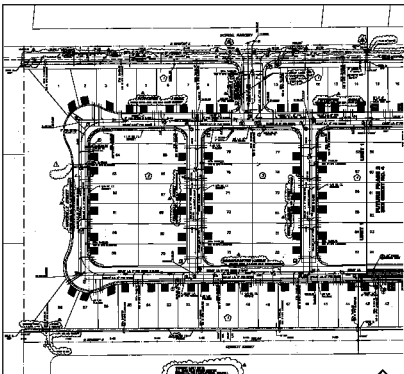
CITY OF LAS VEGAS VERTICAL CONTROL #38-1LV90-36N4 RIVET AND PLATE IN SOUTH TOP OF CURB, ANN ROAD AT CURB ANGLE POINT, 1530' EAST OF CALVERTS STREET.
NAVD88 DATUM ELEVATION: 696.2262 METERS (2284.20 FEET)

APPROVALS

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. G.P.M. 1.200

CLV. [Signature] FIRE DEPARTMENT 4-16-98 DATE

[Signature] LAS VEGAS VALLEY WATER DISTRICT 4-27-98 DATE



ESTIMATE OF UNIT 1 QUANTITIES			
ITEM		UNIT PRICE	TOTAL PRICE
1	1000 LBS OF PORTLAND CEMENT	2.50	2500.00
2	1000 LBS OF SAND	1.50	1500.00
3	1000 LBS OF GRAVEL	2.00	2000.00
4	1000 LBS OF ASPHALT	3.00	3000.00
5	1000 LBS OF FILL	1.00	1000.00
6	1000 LBS OF FILL	1.00	1000.00
7	1000 LBS OF FILL	1.00	1000.00
8	1000 LBS OF FILL	1.00	1000.00
9	1000 LBS OF FILL	1.00	1000.00
10	1000 LBS OF FILL	1.00	1000.00
11	1000 LBS OF FILL	1.00	1000.00
12	1000 LBS OF FILL	1.00	1000.00
13	1000 LBS OF FILL	1.00	1000.00
14	1000 LBS OF FILL	1.00	1000.00
15	1000 LBS OF FILL	1.00	1000.00
16	1000 LBS OF FILL	1.00	1000.00
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24	1000 LBS OF FILL	1.00	1000.00
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33	1000 LBS OF FILL	1.00	1000.00
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41	1000 LBS OF FILL	1.00	1000.00
42	1000 LBS OF FILL	1.00	1000.00
43	1000 LBS OF FILL	1.00	1000.00
44	1000 LBS OF FILL	1.00	1000.00
45	1000 LBS OF FILL	1.00	1000.00
46	1000 LBS OF FILL	1.00	1000.00
47	1000 LBS OF FILL	1.00	1000.00
48	1000 LBS OF FILL	1.00	1000.00
49	1000 LBS OF FILL	1.00	1000.00
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51	1000 LBS OF FILL	1.00	1000.00
52	1000 LBS OF FILL	1.00	1000.00
53	1000 LBS OF FILL	1.00	1000.00
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66	1000 LBS OF FILL	1.00	1000.00
67	1000 LBS OF FILL	1.00	1000.00
68	1000 LBS OF FILL	1.00	1000.00
69	1000 LBS OF FILL	1.00	1000.00
70	1000 LBS OF FILL	1.00	1000.00
71	1000 LBS OF FILL	1.00	1000.00
72	1000 LBS OF FILL	1.00	1000.00
73	1000 LBS OF FILL	1.00	1000.00
74	1000 LBS OF FILL	1.00	1000.00
75	1000 LBS OF FILL	1.00	1000.00
76	1000 LBS OF FILL	1.00	1000.00
77	1000 LBS OF FILL	1.00	1000.00
78	1000 LBS OF FILL	1.00	1000.00
79	1000 LBS OF FILL	1.00	1000.00
80	1000 LBS OF FILL	1.00	1000.00
81	1000 LBS OF FILL	1.00	1000.00
82	1000 LBS OF FILL	1.00	1000.00
83	1000 LBS OF FILL	1.00	1000

Call before you Dig
1-800-277-2800



FIRE FLOW DATA

NAME	ADDRESS	PHONE	SEX	AGE	HEIGHT	WEIGHT	HAIR	EYES	SKIN
JOHN	1234	555-1234	M	25	5'10"	180	B	B	F
JANE	5678	555-5678	F	30	5'8"	150	B	B	F
BOB	9012	555-9012	M	40	6'2"	220	B	B	F
ALICE	3456	555-3456	F	20	5'6"	120	B	B	F
CHARLIE	7890	555-7890	M	35	5'9"	170	B	B	F
DAN	2345	555-2345	M	28	5'11"	190	B	B	F
EVE	6789	555-6789	F	32	5'7"	140	B	B	F
FRANK	0123	555-0123	M	45	6'0"	200	B	B	F
GRACE	4567	555-4567	F	22	5'5"	110	B	B	F
HELEN	8901	555-8901	F	38	5'9"	160	B	B	F

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HELEN	8901	555-8901	F	38	5'9"	160	B	B	F

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 01-11-2001 BY 60322 UCBAW

APPROVAL

[Signature] 4/2/97

[Signature] 4/2/97