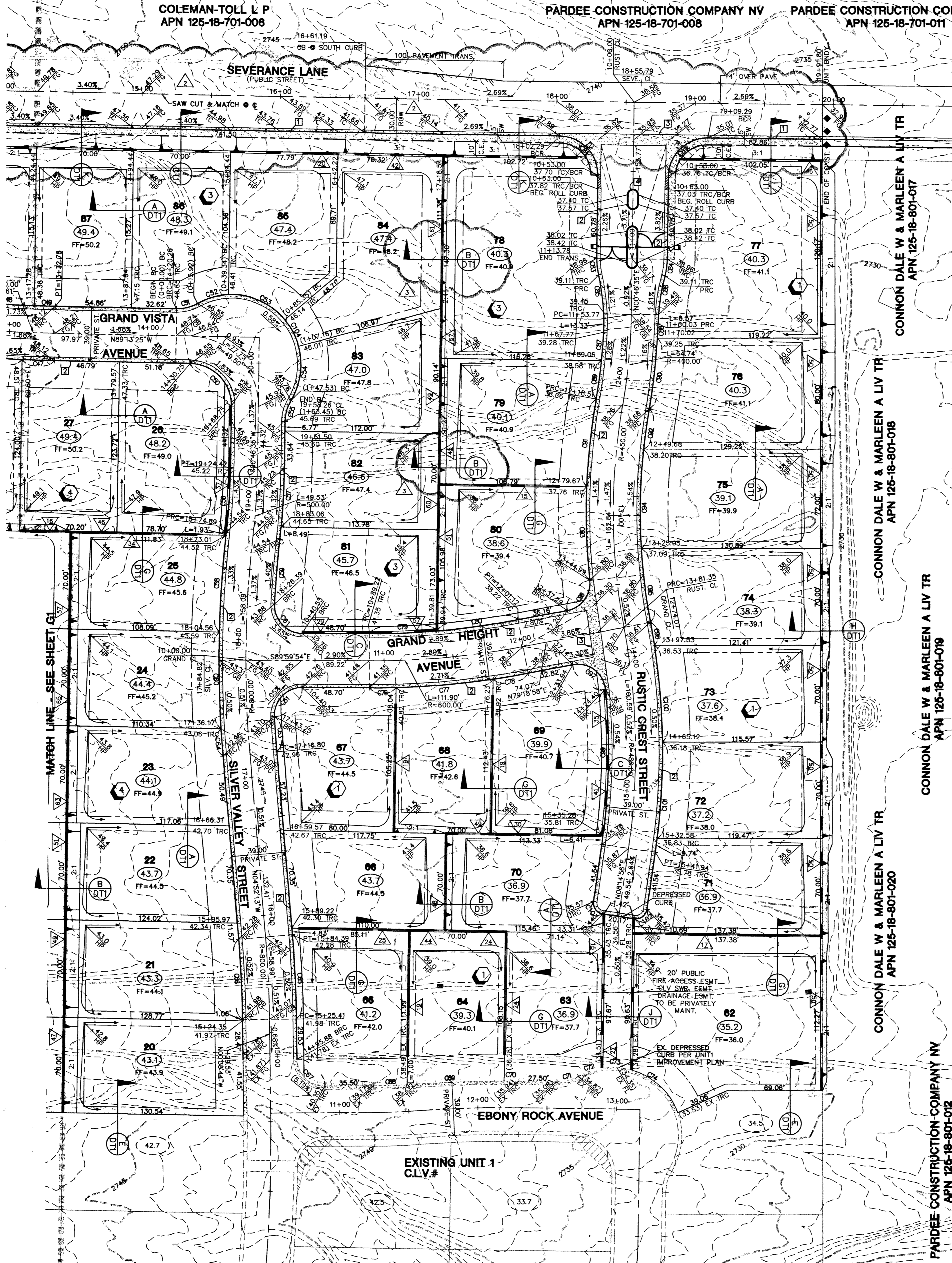


Call before you Dig
1-800-227-2600

Call before you Overhead
1-702-583-6111

BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
PROJECT BENCHMARK: CLARK COUNTY BENCHMARK 1C90304
NAVD88 ELEVATION: 819.508 METERS (2688.67 FEET)
RIVET AND SQUARE ALUMINUM PLATE IN THE SOUTHEAST CORNER OF A ELECTRICAL CABINET BASE (#00720), 200 FT. SOUTH AND 40 FT. WEST CENTENNIAL PKWY. AND GRAND CANYON DR.

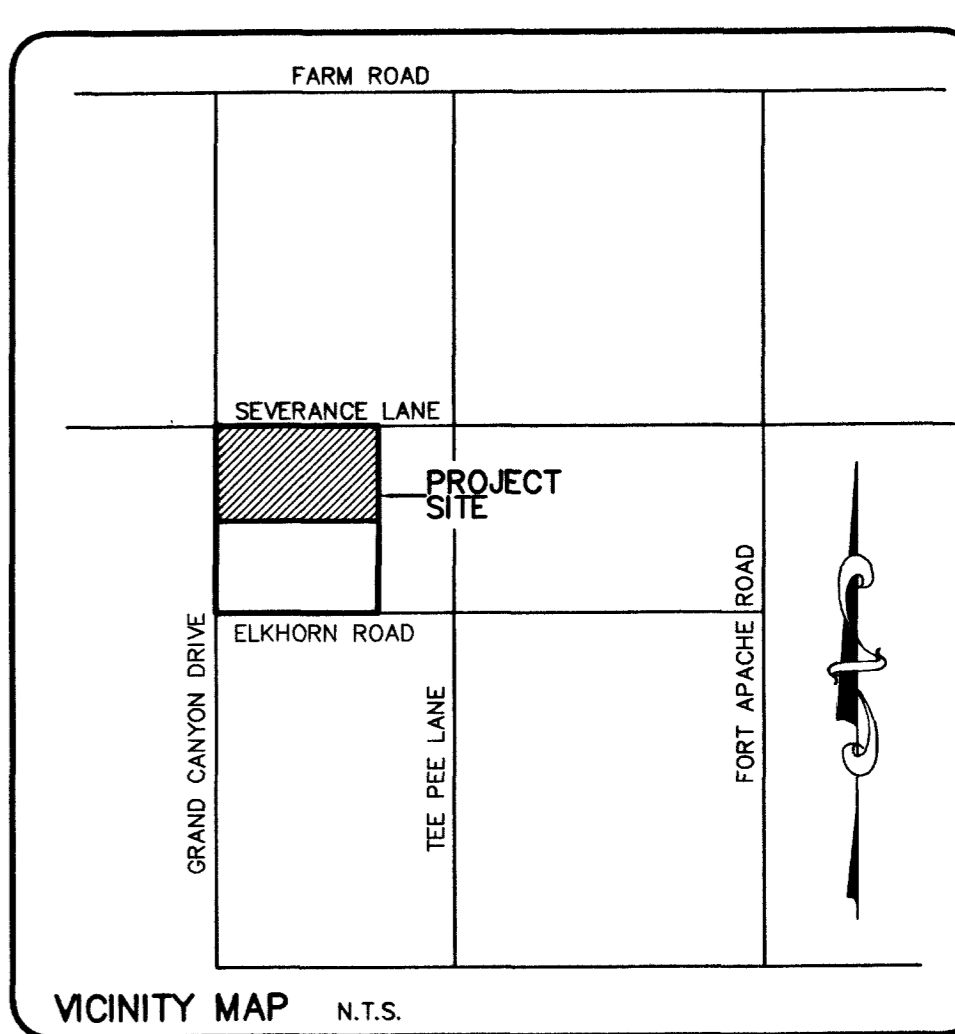
BASIS OF BEARING
THE BASIS OF BEARINGS FOR THIS PROJECT IS NORTH 0°06'46" WEST BEING THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 18, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE, IN FILE 114 AT PAGE 57.



PRIVATE FLOOD CONTROL IMPROVEMENTS	QUANTITY
BLOCK WALL WITH 1 COURSES SOLID GROUT	957 L.F.
2 COURSES STEM WALL	1,660 L.F.

NOTE: ALL ON-SITE PRIVATE STREET ARE PUBLIC DRAINAGE EASEMENTS AND PUBLIC SEWER EASEMENTS (PRIVATELY MAINTAINED)

NO.	A'	B'	CASE
1	4.5'	21.5'	
2	4.5'	9.5'	
3	4.5'	12.0'	



CURVE	BACK OF CURB CURVE TABLE			
	LENGTH	RADIUS	TANGENT	DELTA
C47	23.42	869.50	11.71	132°35'
C48	42.13	830.50	21.07	234°23'
C49	15.14	830.50	7.57	100°31'
C50	47.12	30.00	30.00	90°00'00"
C51	15.92	30.00	8.15	302°06'
C52	23.42	30.00	11.83	285°22'
C53	46.01	50.00	24.78	52°43'11"
C54	40.37	50.00	21.36	461°52'4"
C55	15.92	30.00	8.15	302°06'
C56	47.60	480.50	23.82	5°40'33"
C57	42.98	519.50	21.50	4°44'23"
C58	70.12	819.50	35.08	43°40'07"
C59	47.31	780.50	23.66	328°24'
C60	70.06	819.50	35.05	45°53'3"
C61	32.46	20.00	21.07	82°58'38"
C62	70.06	819.50	35.05	45°53'3"
C63	25.81	780.50	12.91	153°41'
C64	19.84	819.50	9.92	123°33'
C65	49.43	819.50	30.23	43°32'07"
C66	57.55	780.50	28.79	43°32'07"
C67	31.42	20.00	20.00	80°00'00"
C68	24.17	480.50	12.09	252°56'
C69	63.13	819.50	31.58	42°44'49"
C70	10.80	819.50	5.40	0°45'18"
C71	15.92	30.00	8.15	302°06'
C72	18.87	50.00	9.55	213°06'
C73	20.16	50.00	10.22	230°06'04"
C74	48.13	50.00	26.12	55°09'27"
C75	20.31	50.00	10.30	231°6'27"
C76	19.43	819.50	9.72	1°47'49"
C77	70.41	819.50	35.24	83°02'42"
C78	25.70	619.50	12.85	222°36'
C79	48.84	580.50	24.48	4°49'49"
C80	59.32	580.50	29.69	5°51'19"
C81	43.98	28.00	28.00	80°00'00"
C82	42.83	27.00	27.42	80°53'21"
C83	12.13	50.00	6.10	135°40'8"
C84	12.35	50.00	6.21	143°09'07"
C85	28.32	150.00	14.20	10°49'05"
C86	28.13	150.00	14.11	10°44'39"
C87	20.25	380.50	10.13	302°57'
C88	10.48	419.50	5.24	125°55'
C89	28.01	380.50	14.01	41°30'3"
C90	50.84	419.50	25.45	83°30'39"
C91	83.82	489.50	31.96	7°47'18"
C92	29.83	430.50	14.92	358°11'
C93	68.15	489.50	34.14	81°02'2"
C94	80.12	430.50	40.18	10°39'49"
C95	53.86	430.50	26.96	71°04'4"
C96	29.80	20.00	18.45	85°22'17"
C97	33.19	20.00	21.86	95°04'31"
C98	16.83	505.50	8.42	154°28'
C99	106.42	466.50	53.45	13°04'19"
C100	70.30	505.50	35.21	75°08'05"
C101	70.16	505.50	35.14	75°17'0"
C102	12.57	8.00	8.00	90°00'00"
C103	12.57	8.00	8.00	90°00'00"
C104	21.81	50.00	11.08	245°9'14"

CONSTRUCTION NOTE:
 1 "L" CURB PER STD. DWG. #116
 2 30" ROLL CURB PER STD. DWG. #117A
 3 VALLEY GUTTER PER STD. DWG. #228
 4 "A" CURB PER STD. DWG. #119

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

PERMA-BILT HOMES
7158 FOLLOCK HOME, SUITE 104
LAS VEGAS, NEVADA 89119
(702) 898-9100

CITY OF LAS VEGAS, NEVADA

GRADING PLAN

ELKHORN / GRAND CANYON UNIT 2

DESIGNED BY: 05/09/02
CHECKED BY: 05/01/02
PROJECT NO: 5897-2
SCALE: 1"=40' HORZ. NONE VERT.

EXPIRES 06-30-05

DANIEL J. ROOD
REGISTERED PROFESSIONAL ENGINEER - STATE OF NEVADA
NO. 12811

SHEET **G2**
8 OF 25 SHEETS
DRAWING NO. 1074736-2

DRAWN BY: M.V.P.
DESIGNED BY: B.F.
CHECKED BY: K.C.
PROJECT NO: 5897-2
SCALE: 1"=40' HORZ. NONE VERT.

DATE: 9.22.03
DANIEL J. ROOD P.E. NO. 12811