

**LEGEND**

- EX. IMPROVEMENTS
- RETAINING BLOCK WALL
- BLOCK WALL
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- TW TOP OF RETAINING WALL
- FF FINISH FLOOR
- BW BOTTOM WALL
- FG FINISH GRADE
- FL FLOW LINE
- TC TOP OF CURB
- HP HIGH POINT
- AC ASPHALT CONCRETE
- WSE WATER SURFACE ELEVATION
- 99.9 PAD GRADE
- SIGHT VISIBILITY ZONE
- SCARP 2:1 MAX
- UNIT BOUNDARY

**LINE DATA TABLES**

No.	BEARING	DISTANCE
L1	N89°43'04"W	15.34
L2	S89°29'01"E	20.61
L3	N00°48'58"E	60.57
L4	N00°48'58"E	66.36
L5	S89°29'01"E	6.00
L6	S00°48'58"W	3.20
L7	S00°48'58"W	19.54
L8	N00°48'58"E	42.28
L9	N00°48'58"E	16.78
L10	N89°22'36"W	30.00
L11	N00°48'58"E	16.80
L12	N89°17'25"E	15.00
L13	N37°33'41"W	31.01
L14	S88°43'30"E	14.45
L15	S88°43'30"E	14.55
L16	S00°39'19"W	14.85
L17	N89°11'36"W	14.49
L18	N89°11'36"W	14.21
L19	S00°39'19"W	15.05
L20	S00°39'19"W	8.96
L21	N00°39'19"E	6.95
L22	N00°39'19"E	6.00
L23	N00°39'19"E	30.00
L24	N45°46'28"E	19.07

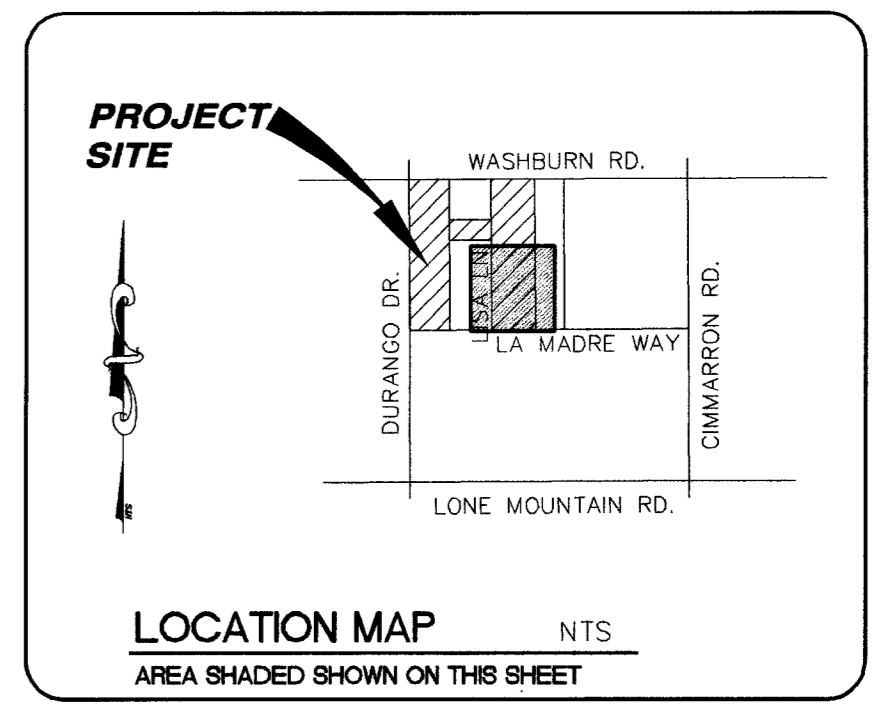
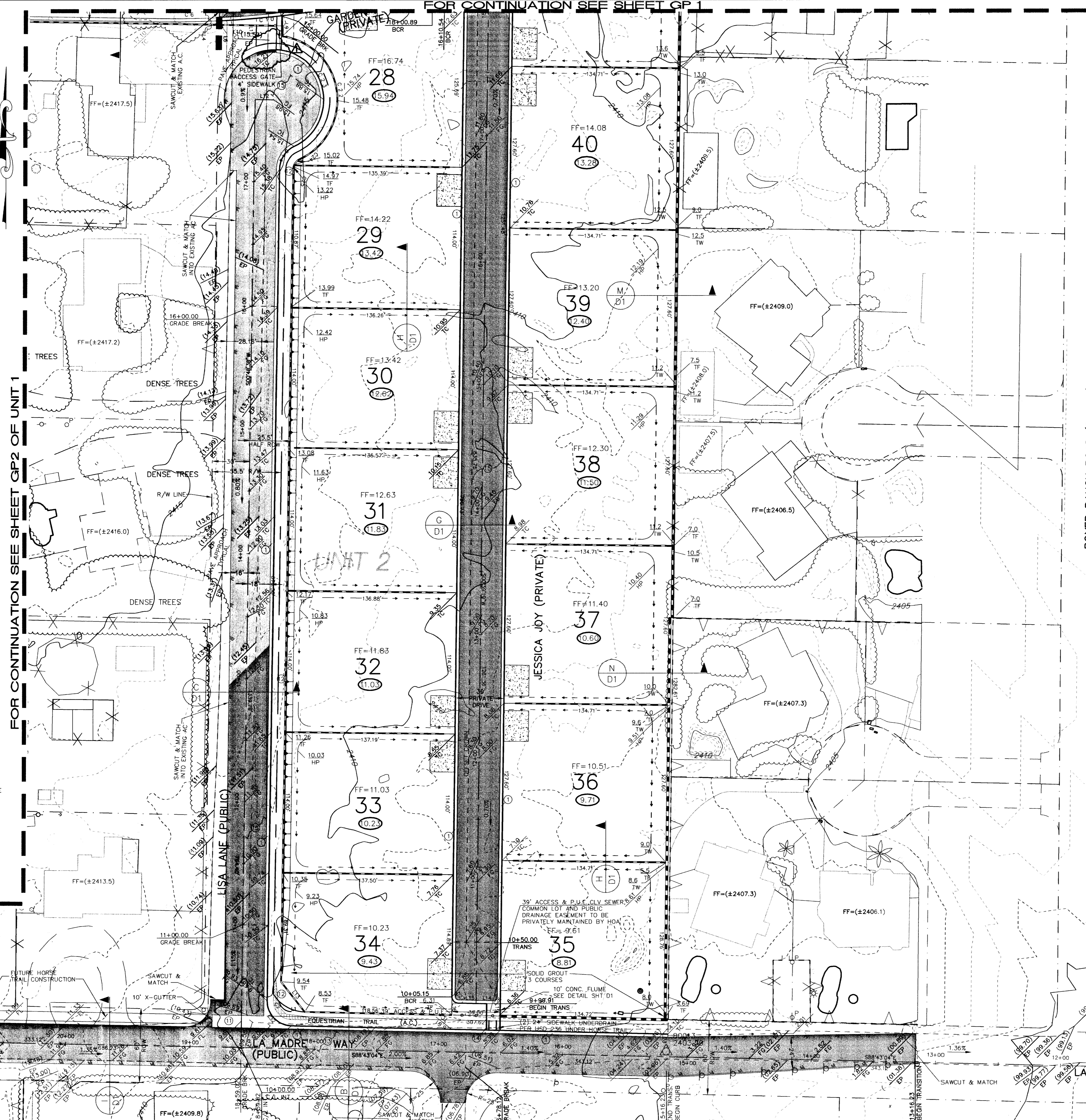
**CURVE DATA TABLES**

No.	RADIUS	DELTA	LENGTH	TANGENT
C1	15.00	89°59'44"	23.56	15.00
C2	10.00	89°34'41"	15.63	9.92
C3	9.00	53°33'17"	8.41	4.54
C4	9.00	117°27'	7.77	0.89
C5	319.50	71°59'40"	62.24	31.22
C6	16.00	87°37'17"	22.94	14.39
C7	15.00	92°59'58"	24.35	15.81
C8	280.50	102°27'31"	51.61	25.88
C9	300.00	133°27'	70.90	35.62
C10	744.47	103°36'31"	91.25	25.63
C11	744.47	06°27'44"	80.72	40.40
C12	724.97	100°47'40"	127.30	63.87
C13	45.00	24°53'17"	16.15	8.53
C14	15.00	64°50'58"	16.98	9.53
C15	51.00	149°32'31"	132.83	185.30
C16	51.00	69°22'39"	61.75	35.30
C17	705.47	05°55'41"	72.17	36.22
C18	705.47	01°52'54"	23.17	11.58
C19	705.47	08°02'48"	74.45	37.25
C20	705.47	08°29'17"	122.64	61.47
C21	705.47	03°50'46"	47.36	23.69
C22	31.00	149°05'35"	131.82	178.40
C23	45.00	11°47'14"	18.91	99.20
C24	9.00	44°30'44"	6.99	3.68
C25	9.00	20°20'13"	3.19	1.61
C26	5.00	92°37'08"	7.91	5.05
C27	5.00	89°22'54"	7.80	4.95
C28	5.00	89°50'57"	7.84	4.99
C29	5.00	89°08'03"	7.87	5.01
C30	20	89°58'44"	31.41	20
C31	20	90°00'16"	31.42	20
C32	20	89°31'41"	31.25	19.84

**NOTE:**  
ALL PRIVATE STREETS AND DRIVES ARE COMMON LOTS, P.U.E., PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE MAINTAINED BY HOA.

**PRIVATE DRIVE NOTE**

ALL STREETS AND DRIVES SHOWN ARE PRIVATE UNLESS OTHERWISE NOTED.



**BENCH MARK**  
CITY OF LAS VEGAS VERTICAL CONTROL RIVET AND PLATE IN TOP OF CURB, NE RETURN OF DURANGO DRIVE & WASHBURN RD. STATION 11.990  
ELEVATION = 740.8191 METERS 2430.50 FEET (NAVD88) OLD  
740.7932 METERS 2430.42 FEET NEW  
OLD - 0.08' = NEW

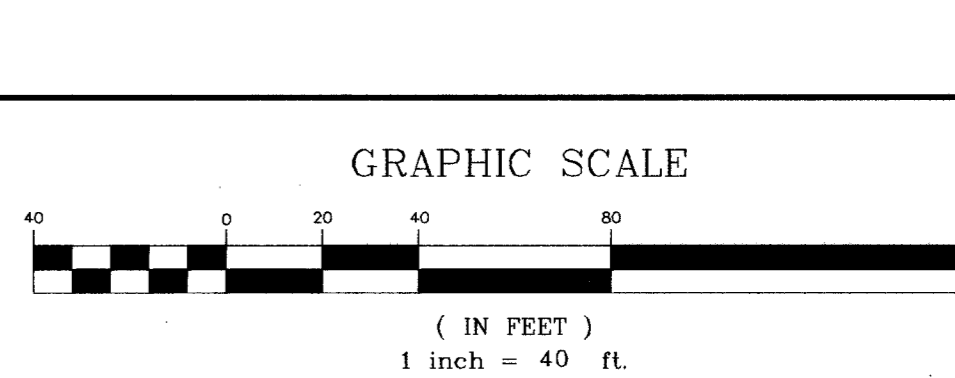
**BASIS OF BEARING**  
NORTH 88°58'14" WEST BEING THE EAST-WEST LINE CENTER OF SECTION LINE BETWEEN THE WEST QUARTER (1/4) CORNER AND THE WEST SIXTEENTH (1/16) CORNER OF SECTION 33, TOWNSHIP 19 SOUTH, RANGE 60 EAST M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA. AS SHOWN BY MAP IN THE OFFICE OF THE CLARK COUNTY, NEVADA RECORDER IN FILE 82 OF PARCEL MAPS PAGE 75.

**GRADING NOTES**

- FINAL GRADES ADJACENT TO STRUCTURE AFTER LANDSCAPING SHALL BE 0.5 FEET BELOW FINISH FLOOR (MIN).
- THE QUANTITIES SHOWN ARE ESTIMATES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER BEFORE BEGINNING WORK.
- FINISH FLOOR ELEVATION IS TO BE 0.8 FOOT ABOVE PAD GRADE.
- ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION.
- MAXIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
- SEE DETAIL SHEETS FOR STREET SECTIONS AND DETAILS.
- ALL WORK PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENT HAVE BEEN OBTAINED FROM THE OFFSITE OWNER.
- ALL WORK PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL BE PERFORMED UNDER A SEPARATE ENCROACHMENT PERMIT ISSUED BY THE CONTROLLING AUTHORITY.
- FINISH GRADE CONTOURS ARE INDICATED WITH TEXT INTERIOR TO BROKEN LINE.

**CONSTRUCTION NOTES**

- CONSTRUCT 30 IN. "ROLL" TYPE CURB & GUTTER PER USD#217A
- 10' TRANSITION "ROLL" TO "L" PER DETAIL ON SHEET D1
- NOT USED
- CONSTRUCT "L" CURB AND GUTTER PER USD#216
- NOT USED
- NOT USED
- CONSTRUCT SIDEWALK PER USD#234
- CONSTRUCT HC RAMP PER USD#235 USE CASE 1 A=B=8" UNLESS OTHERWISE SHOWN ON PLAN
- NOT USED
- NOT USED
- CONSTRUCT 8" VG PER USD#228
- CONSTRUCT 10" VG PER USD#228
- LANDSCAPE PER OWNER
- 3" ASPHALT CEMENT & 4" TYPE II BASE (SEE ASPHALT CONCRETE PAYMENT ON SECTION J.1. PER SOIL'S FILE # 20001099E1)
- PREPARED BY GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.
- CONSTRUCT (2) 24" SIDEWALK UNDER DRAIN PER CLARK COUNTY AREA STANDARD DWG. No. 236.
- 2" ASPHALT CEMENT & 4" TYPE II BASE (SEE ASPHALT CONCRETE PAYMENT ON SECTION J.1. PER SOIL'S FILE # 20001099E1)
- PREPARED BY GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.



**CALL BEFORE YOU OVERHEAD**  
1-702-593-6111  
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

**NOTICE!**  
EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.

**Call BEFORE YOU Dig**  
1-800-227-2600  
UNDERGROUND SERVICE LOCAL

**DRAINAGE CERTIFICATION**  
I CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS.  
12/3/04  
DATE

**TOLL BROTHERS & DURANGO UNIT 2**  
(AKA - NORTH CANYON ESTATES)

**GRADING PLAN 2 OF 2**

ENGINEERING COMPANY  
50 So. Jones #202, Las Vegas, NV, 89107  
Telephone: (702) 877-1300

ALPHA & COMPANY

DESIGNED BY: 05/13/03  
CHECKED BY: 05/13/03  
PROJECT NO: 516710  
SCALE: 1"=40'

DATE: 12/3/04

SHEET 4 OF 14 SHEETS  
DRAWING NO. 10744789-2