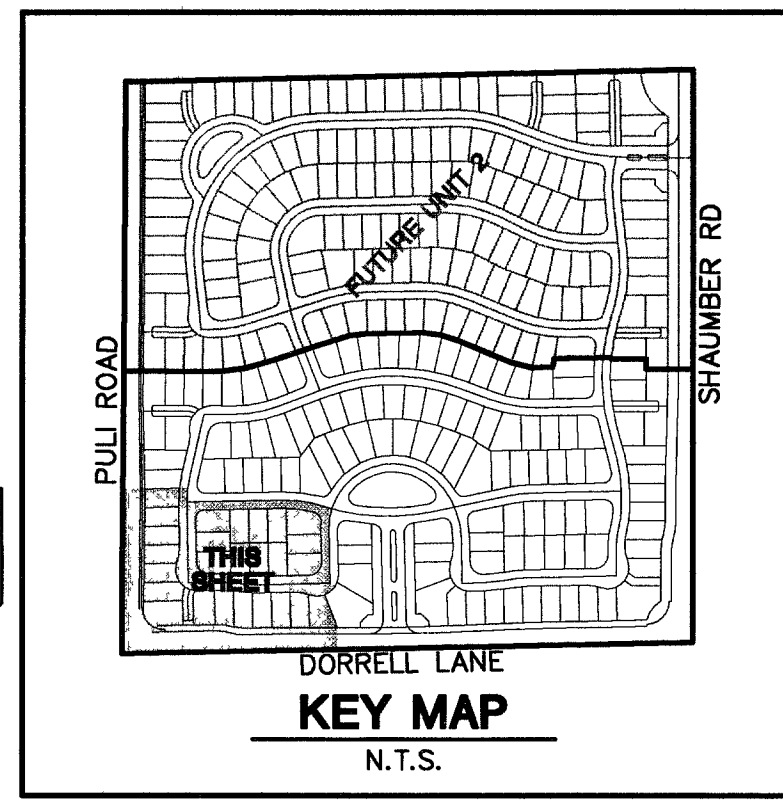
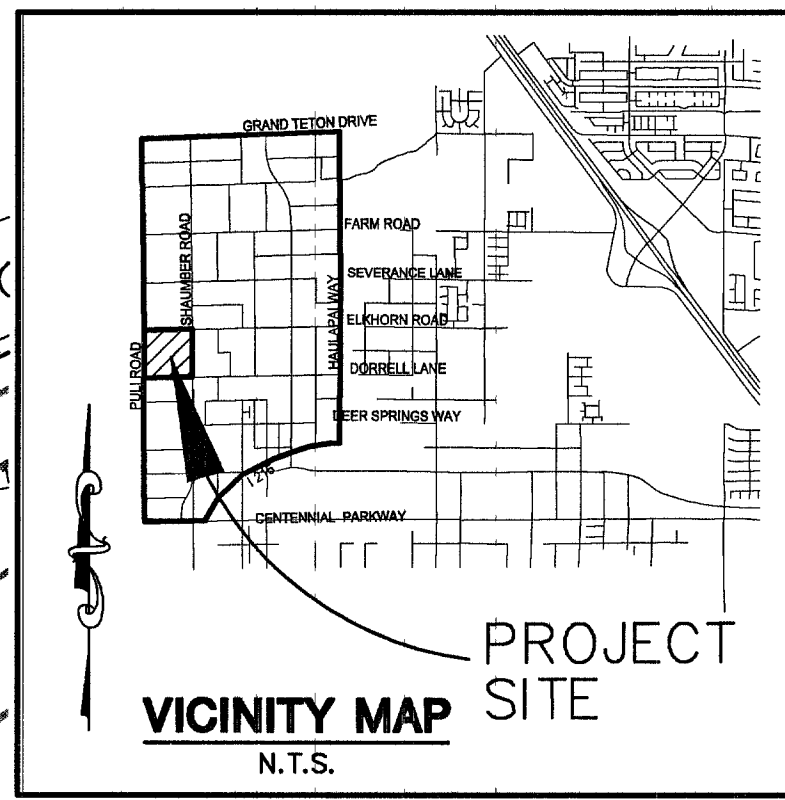
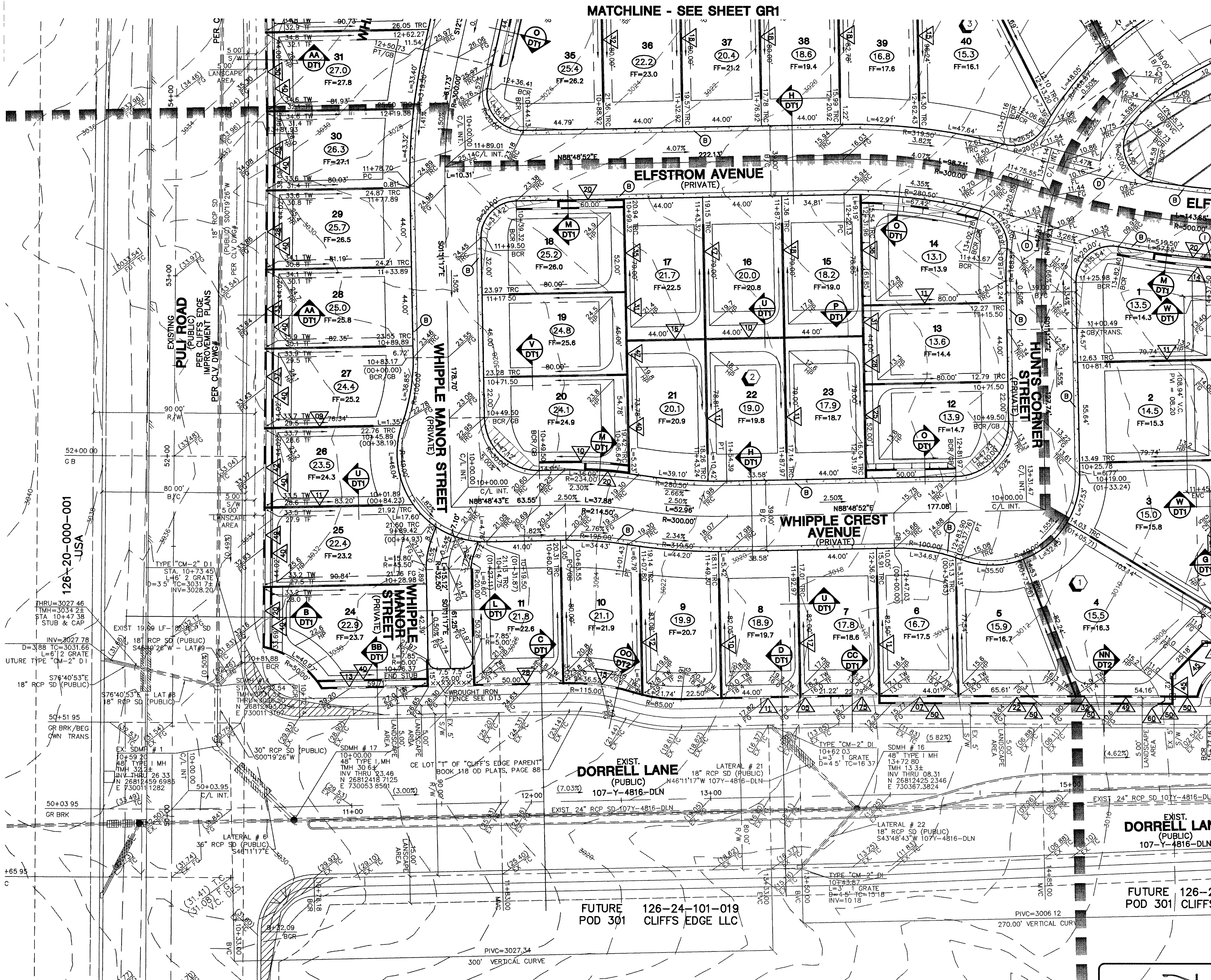
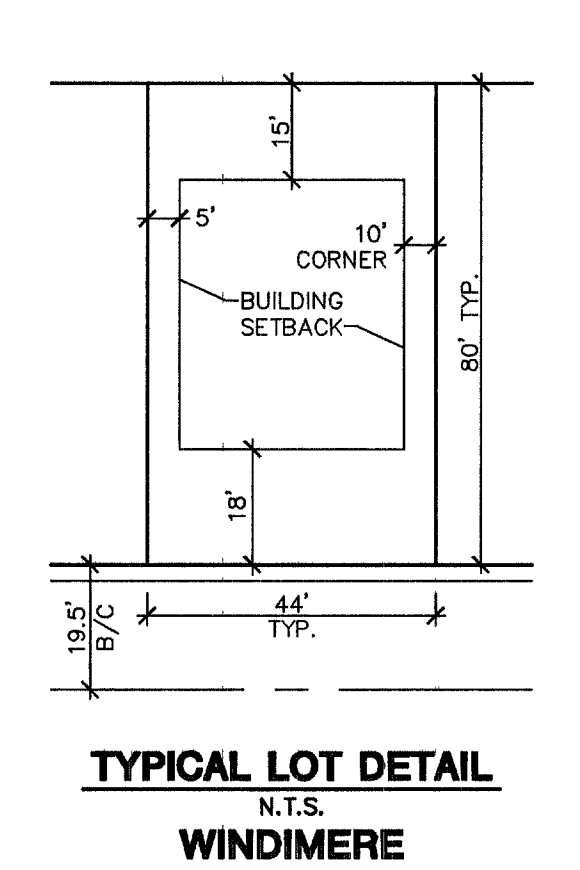




ENGINEER'S ESTIMATE OF FLOOD CONTROL QUANTITIES

1 COURSE SOLID GROUTED STEM WALL	388 L.F.
2 COURSE SOLID GROUTED FLOOD WALL	693 L.F.
3 COURSE SOLID GROUTED FLOOD WALL	1,160 L.F.
DRAINAGE EASEMENT	1,674 SQ. FT.
42" RCP	74.41 L.F.
22.5" D.I.	1 EA.

PROJECT BENCHMARK
 DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
 CITY OF LAS VEGAS BENCHMARK: BLV99-135ES
 NAVD88 ELEVATION: 869.606 METERS (2853.03 FEET)
 RIVET AND PLATE IN CONCRETE CYLINDER NW CORNER OF HUALAPAI AND ELKHORN
 NOTE: WHEN THE SURVEYING FOR THIS PROJECT BEGAN, THE ABOVE REFERENCED BENCHMARK BLV99-135ES WAS NOT PUBLISHED. THE BASIS FOR THE DATUM FOR THIS PROJECT IS SHOWN ON RECORD OF SURVEY FILE 124 PAGE 94. CLARK COUNTY BENCHMARK 1000-BN6, WHICH AT THE TIME OF THE ORIGINAL SURVEY (PRIOR TO THE CURRENT 2003 COUNTY BENCHMARK PUBLISHING) HAD AN ELEVATION OF 2564.61 FEET. TO CONVERT THE CURRENT CITY OF LAS VEGAS BENCHMARK BLV99-135ES TO MATCH THE ORIGINAL PROJECT DATUM, 0.34' NEEDS TO BE ADDED TO THE ELEVATION OF 2853.03 FEET.



BASIS OF BEARINGS
 THE BASIS OF BEARINGS FOR THIS PROJECT IS NORTH 00°08'16" EAST BEING THE EAST LINE OF THE NORTHWEST QUARTER (NE 1/4) OF THE SECTION 24, TOWNSHIP 19 SOUTH, RANGE 59 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 123 AT PAGE 32.

NOTE:
 ALL DRAINAGE EASEMENTS MUST BE COMMON LOTS & PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY H.O.A.

NOTES:
 1. ALL PRIVATE STREETS AND PRIVATE DRIVES ARE P.U.E., CLV PUBLIC SEWER EASEMENTS, & PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.
 2. SEE SHEET DT1 FOR SECTIONS AND DETAILS.

HC RAMP DATA

NO.	A"	B"	CASE
1	8	8	1

Call before you Overhead
 1-702-227-2929

Call before you Dig
 1-800-227-2600

CUT = 98,809 C.Y.
 FILL = 118,700 C.Y.
 (ADJUSTED)
 I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT CITY OF LAS VEGAS, NEVADA FOR THIS PROJECT, DS3685.
 Christopher R. Grubbs
 P.E. NO. 13956
 DATE 10/26/05

CONTRACTOR NOTE:
 CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

- CONSTRUCTION NOTES**
- CONSTRUCT 24" "L" TYPE CURB & GUTTER PER STD. DWG. NO. 216
 - CONSTRUCT 30" "ROLL" TYPE CURB & GUTTER PER STD. DWG. NO. 217A
 - CONSTRUCT "A" TYPE ISLAND CURB PER STD. DWG. NO. 219
 - CONSTRUCT CONCRETE CROSS GUTTER PER STD. DWG. NO. 228
 - CONSTRUCT 5" CONCRETE SIDEWALK PER STD. DWG. NO. 234
 - CONSTRUCT WHEEL CHAIR RAMP PER STD. DWG. NO. 235 CASE 1
 - CONSTRUCT 2" WIDE UNDER SIDEWALK DRAIN PER STD. DWG. NO. 236
 - CONSTRUCT DEPRESSED CURB SECTION PER DETAIL ON SHEET DT2
 - CONSTRUCT 10' "L" TO "ROLL" CURB TRANSITION PER DETAIL ON SHEET DT2.

- LEGEND**
- EX. CONTOUR(5' INTERVAL)
 - EX. CONTOUR(1' INTERVAL)
 - PROPOSED CONTOUR
 - PROPOSED PAD GRADE
 - FUT./EXIST. PAD GRADE
 - SLOPE AND FLOW DIRECTION
 - EDGE OF EXIST. A.C.
 - SAW CUT & MATCH A.C.
 - SIDEWALK RAMP
 - PAD SWALE SLOPES
 - SCARP AREA
 - LOT NUMBER
 - BLOCK NUMBER
 - RETAINING HEIGHT (FEET) AS MEASURED FROM ROUGH GRADE
 - SIGHT VISIBILITY ZONES
 - PROJECT BOUNDARY LINE
 - SETBACK LINE
 - R/W OR P/L
 - EXIST. IMPROVEMENTS
 - FUTURE IMPROVEMENTS
 - CENTER LINE
 - RETAINING WALL
 - CONC. BLOCK WALL
 - EXIST. CONC. BLOCK WALL
 - EXIST. DIRT ROAD
 - EXIST. AC
 - CONSTRUCTION PHASE LINE OR UNIT BOUNDARY LINE
 - MATCHLINE

- ABBREVIATIONS**
- | | | |
|--------------------------------------|-----------------------------------|---------------------------|
| FG FINISH GRADE | BCR BEGIN CURB RETURN | TOP TOP OF CHANNEL/SCARP |
| FL FLOW LINE | GB GRADE BREAK | TOE TOP OF BOX |
| TC TOP OF CURB | PC POINT OF CURVATURE | PP POWER POLE |
| TRC TOP OF ROLL CURB | PT POINT OF TANGENCY | PP TRANS. TRANSITION |
| EAC EXIST. ASPHALT PAVEMENT | PRC POINT OF REVERSE CURVATURE | RET. RETAINMENT |
| FUT. FUTURE | PCC POINT OF COMPOUND CURVATURE | INT. INTERSECTION |
| EX. EXISTING (EX.) | PVC BEGIN VERTICAL CURVE | D.G. DESIGN GRADE |
| VG VALLEY GUTTER | MVC MID-POINT OF VERTICAL CURVE | TSW TOP OF SIDEWALK |
| NG NATURAL GROUND | END VERTICAL CURVE | FF= FINISH FLOOR |
| PRVC POINT OF REVERSE VERTICAL CURVE | END VERTICAL CURVE | GF= GARAGE FINISH FLOOR |
| L.P. LOW POINT | VP VERTICAL POINT OF INTERSECTION | BFE= BASE FLOOD ELEVATION |
| C/L CENTER LINE | TPW TOP OF PLANTER WALL | R/W RIGHT-OF-WAY |
| O/C OFFSET CROWN | TRW TOP OF RETAINMENT WALL | S/W SIDEWALK |
| BC BACK OF CURB | | |

Call before you Underground
 1-702-455-7511
 CLARK COUNTY TRAFFIC OPERATIONS AND
 1-702-229-6611
 LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

KIMBALL HILL
 8 SUNSET WAY, SUITE 101
 HENDERSON, NEVADA 89014
 (702) 436-4892

WINDIMERE
 PROVIDENCE / CLIFFS EDGE
 POD 211 - UNIT 1

GRADING PLAN 4

DESIGNED BY: BLM/TP
 CHECKED BY: BLM
 PROJECT NO: 5400
 SCALE: 1"=30' HORIZ.
 N/A VERT.

EXPIRES: 06-30-07
 SHEET
GR4
 15 OF 52 SHEETS
 DRAWING NO.
10744888-1

PROVIDENCE / CLIFFS EDGE
 2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148
 PH. (702) 873-7550 FAX (702) 392-2597
 nevada CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS