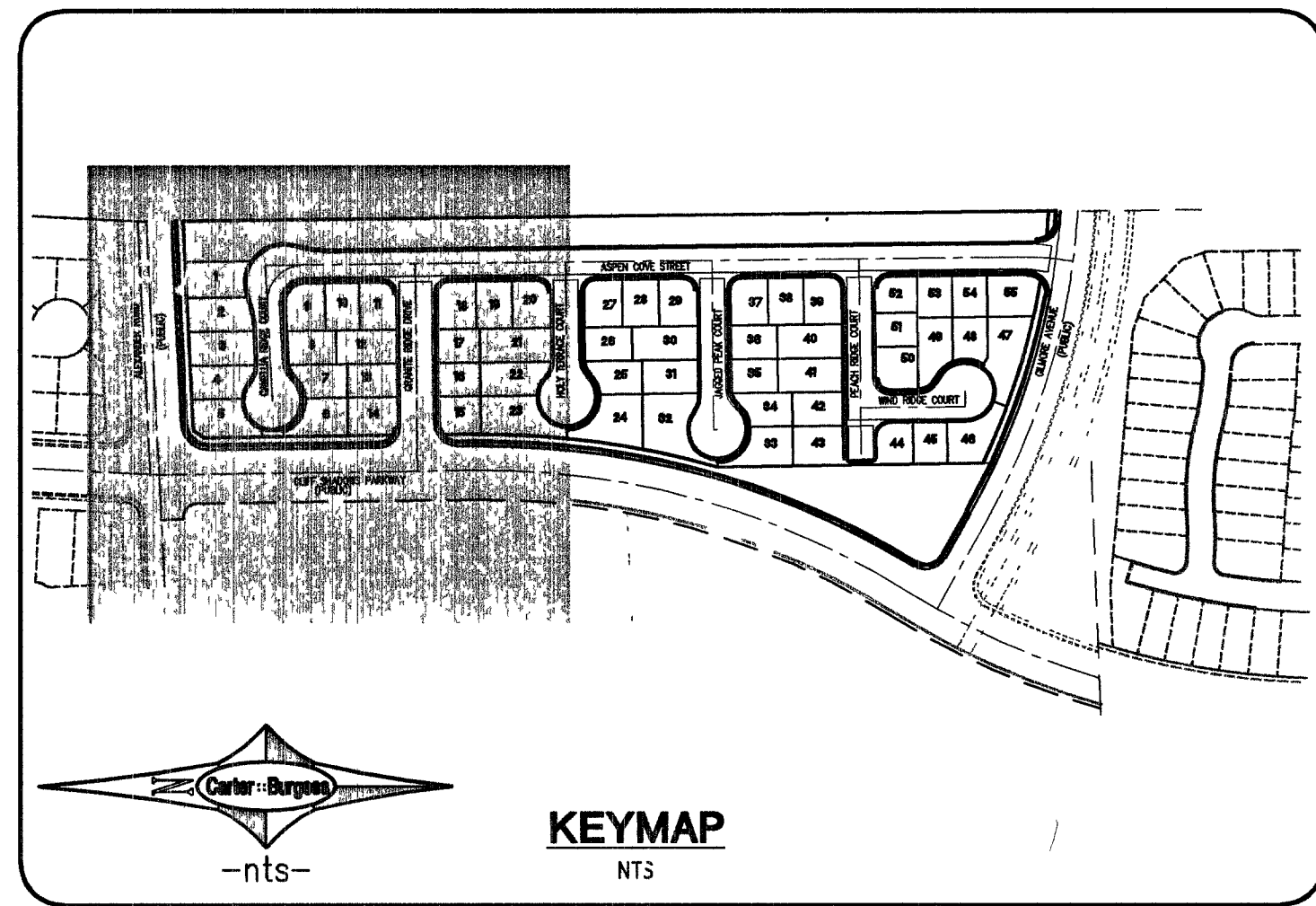
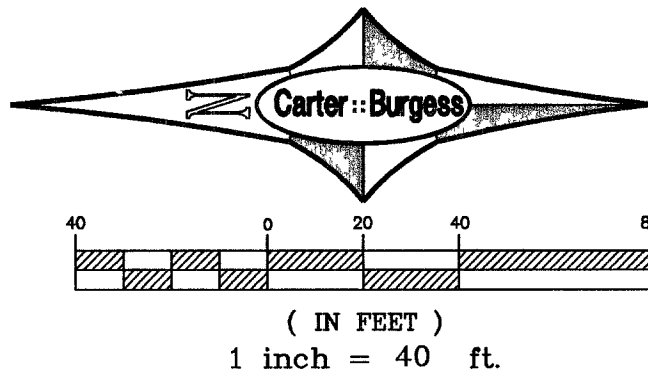
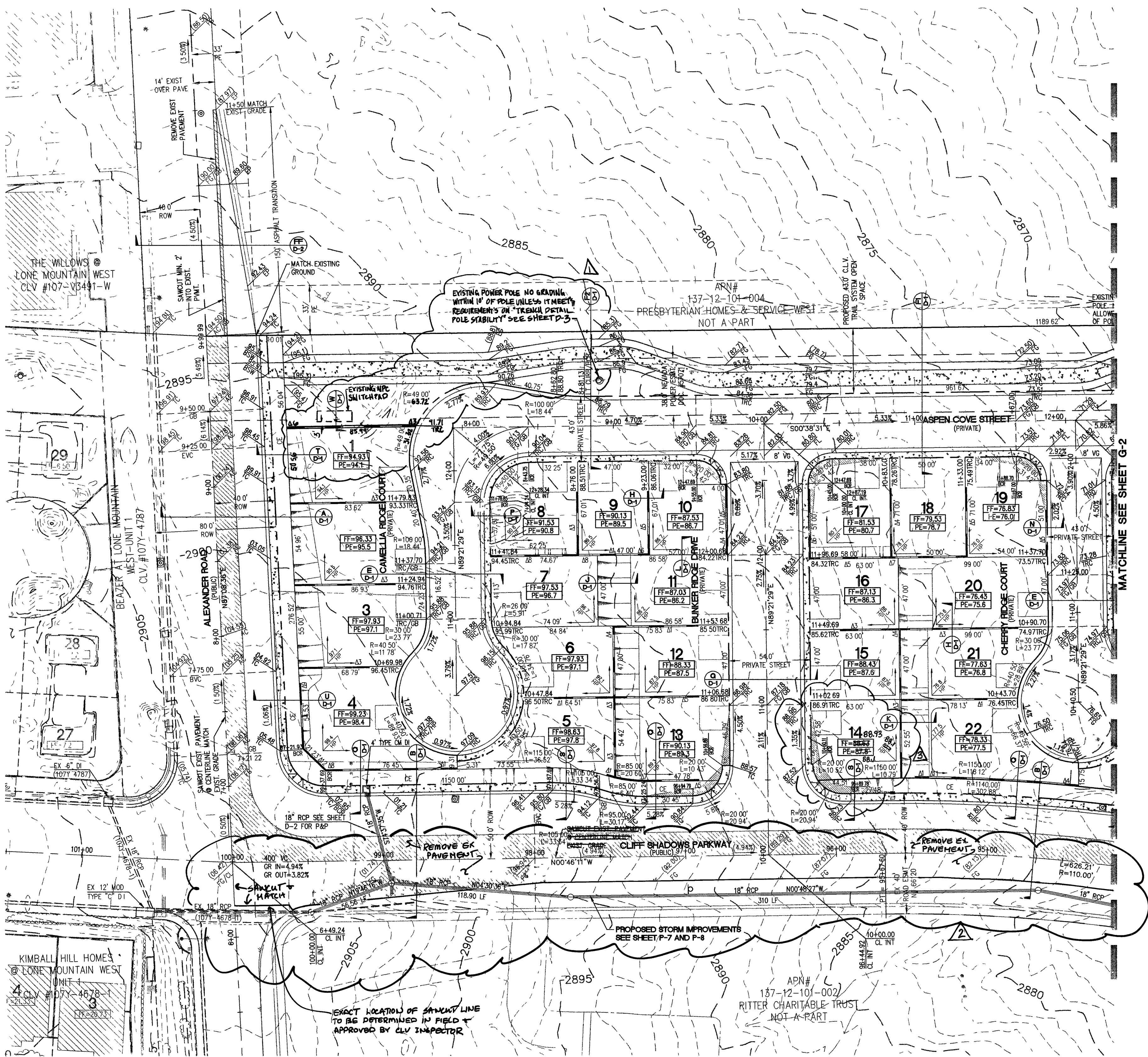




LEGAL DESCRIPTION

THE EAST HALF (E 1/2) OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 12, TOWNSHIP 20 SOUTH, RANGE 99 EAST, M.D.M., CLARK COUNTY, NEVADA; TOGETHER WITH THE EAST HALF (E 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SAID SECTION 12, CONTAINING AN AREA OF 10 ACRES.

BENCHMARK

CITY OF LAS VEGAS STATION 11V09 12NNW6
RIVET AND IN CONCRETE PAD (TRANS SW7040) ON THE EAST OF CLIFF SHADOWS +/- 175 FT NORTH OF ALEXANDER.

ELEVATION = 887.6822 meters (NAVD'88 PUBLISHED)
ELEVATION = 2912.34 U.S. SURVEY FEET (NAVD'88 PUBLISHED)

BASIS OF BEARINGS

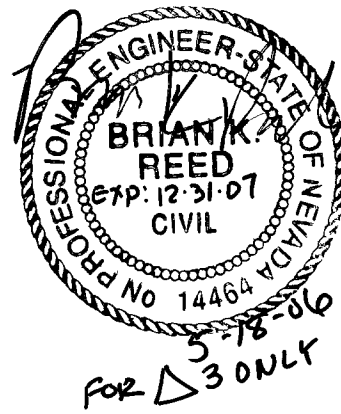
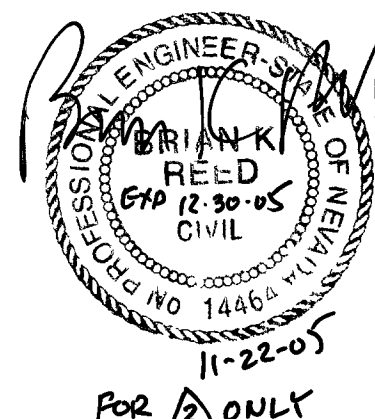
NORTH 01°09'30" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 12, TOWNSHIP 20 SOUTH, RANGE 99 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 120, PAGE 83 OF SURVEYS.

NOTE

1. ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.
2. SEE SHEETS P-1 TO P-14 FOR CONSTRUCTION NOTES, BOR STATIONS, SIDEWALK RAMPS, AND A & B TRANSITIONS.

DRAINAGE QUANTITY ESTIMATE - PUBLIC

DESCRIPTION	QUANTITY
RCP 18" PIPE	817 LF
RCP 24" PIPE	359 LF
RCP 30" PIPE	7 LF
6" MODIFIED TYPE "CM" DROP INLET	1 EA
4" MODIFIED TYPE "CM" DROP INLET	1 EA
48" STORM DRAIN MANHOLE	5 EA
60" STORM DRAIN MANHOLE	1 EA
12" THICK d50=6" GROUTED RIP-RAP	800 SF



DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

Avoid cutting underground utility lines. If's contact.
Call before you Dig
1-800-227-2600
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Avoid hitting underground traffic signal systems and street light systems conduits. IT'S COSTLY.
Call before you Dig
Underground
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
1-702-229-6611
NEVADA AREA COMPUTERIZED TRAFFIC SYSTEM

LEGEND

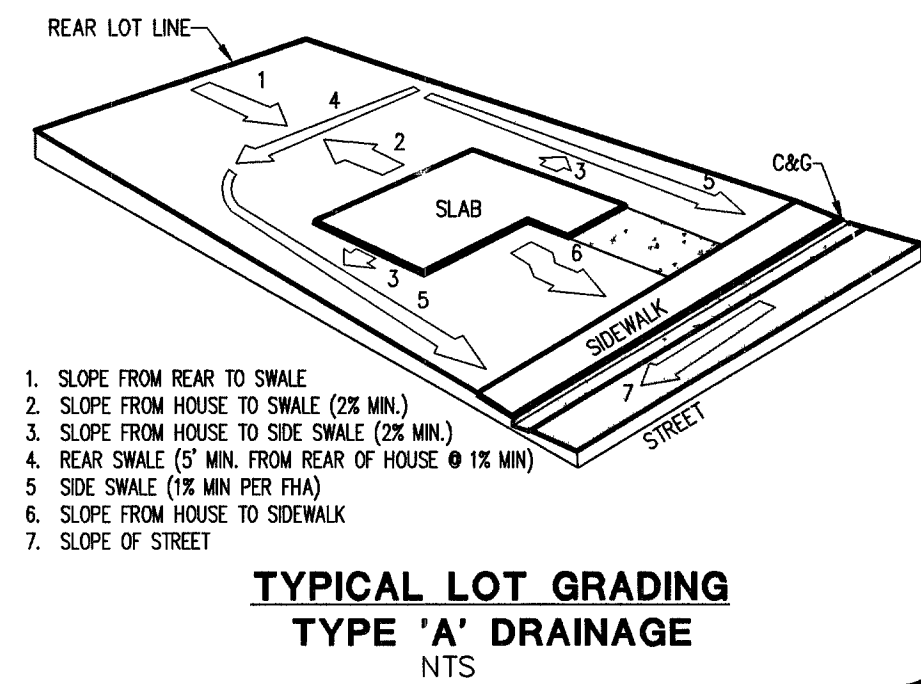
FINISHED FLOOR ELEVATION	F.F.=2861.05
PAD ELEVATION	PAD=60.22
PROPOSED GRADE	---
EXISTING GRADE	---
RIGHT-OF-WAY/PROPERTY LINE	---
PROPOSED SLOPE	1.0%
PAVEMENT SWALE	---
PROPOSED HEAVY AC PAVEMENT	---
PROPOSED CONCRETE	---
SIGHT VISIBILITY ZONE	---
RETAINING WALL	---

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
GB	GRADE BREAK
HP	HIGH POINT
TC	TOP OF CURB
BCR	BEGIN CURB RETURN
ECR	END CURB RETURN
R	RODLINE
PROP	PROPOSED
SVZ	SIGHT VISIBILITY ZONE

RETAINING WALL TABLE

# OF COURSES	RETAINER HEIGHT	TOTAL WALL HEIGHT (WITH 6" SCREEN WALL)	USE THESE GRADE DIFFERENCES TO CALCULATE THE RETAINING WALL TO BE USED
Δ1	0.67'	6.67' - (6'-8")	0.00'-0.40'
Δ2	1.33'	7.33' - (7'-4")	0.71'-0.83'
Δ3	2.00'	8.00' - (8'-0")	0.84'-1.50'
Δ4	2.67'	8.67' - (8'-8")	1.51'-2.17'
Δ5	3.33'	9.33' - (9'-4")	2.18'-2.83'
Δ6	4.00'	10.00' - (10'-0")	2.84'-3.50'
Δ7	4.67'	10.67' - (10'-8")	3.51'-4.17'
Δ8	5.33'	11.33' - (11'-4")	4.18'-4.83'
Δ9	6.00'	12.00' - (12'-0")	4.84'-5.50'
Δ10	6.67'	12.67' - (12'-8")	5.51'-6.17'
Δ11	7.33'	13.33' - (13'-4")	6.18'-6.83'
Δ12	8.00'	14.00' - (14'-0")	6.84'-7.50'



I CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY ON RECORD WITH THE CITY OF LAS VEGAS, FOR THIS PROJECT, D33843.
James B. Cooper, P.E. No. 16264
2/1/05

KBHOME
750 Flat Road, Suite F
Las Vegas, NV 89119
(702) 644-2500
6655 Bermuda Road
Las Vegas, NV 89119
(702) 938-5400 Fax: (702) 938-5454
Carter-Burgess
Consultants in Planning, Engineering,
Construction Management, and Related Services
GRADING PLAN
DRAWN BY: SEPT. 2004
DESIGNED BY: SEPT. 2004
CHECKED BY: SEPT. 2004
PROJECT NO: 241090
SCALE: 1"=40' HORIZ.
VERT.
SHEET
G-1
3 OF 25 SHEETS
DRAWING NO.
10744856