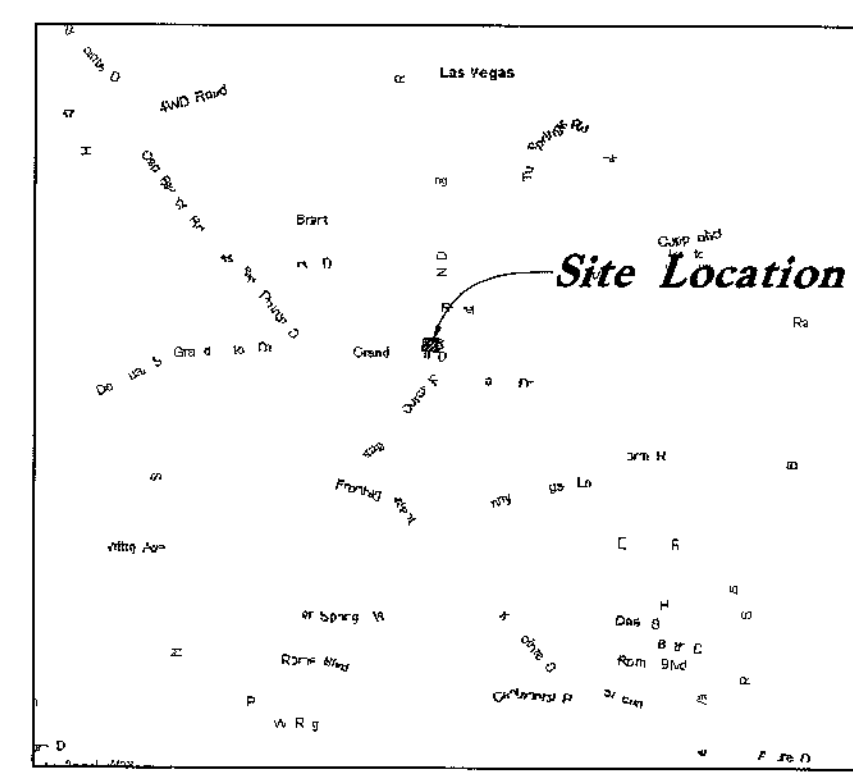
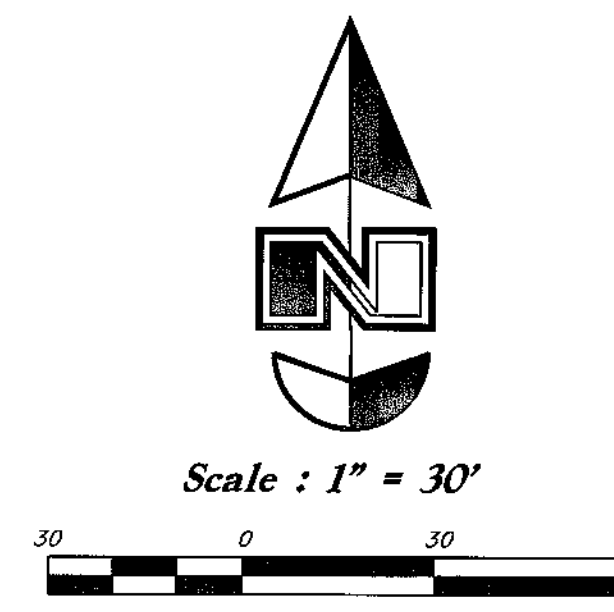
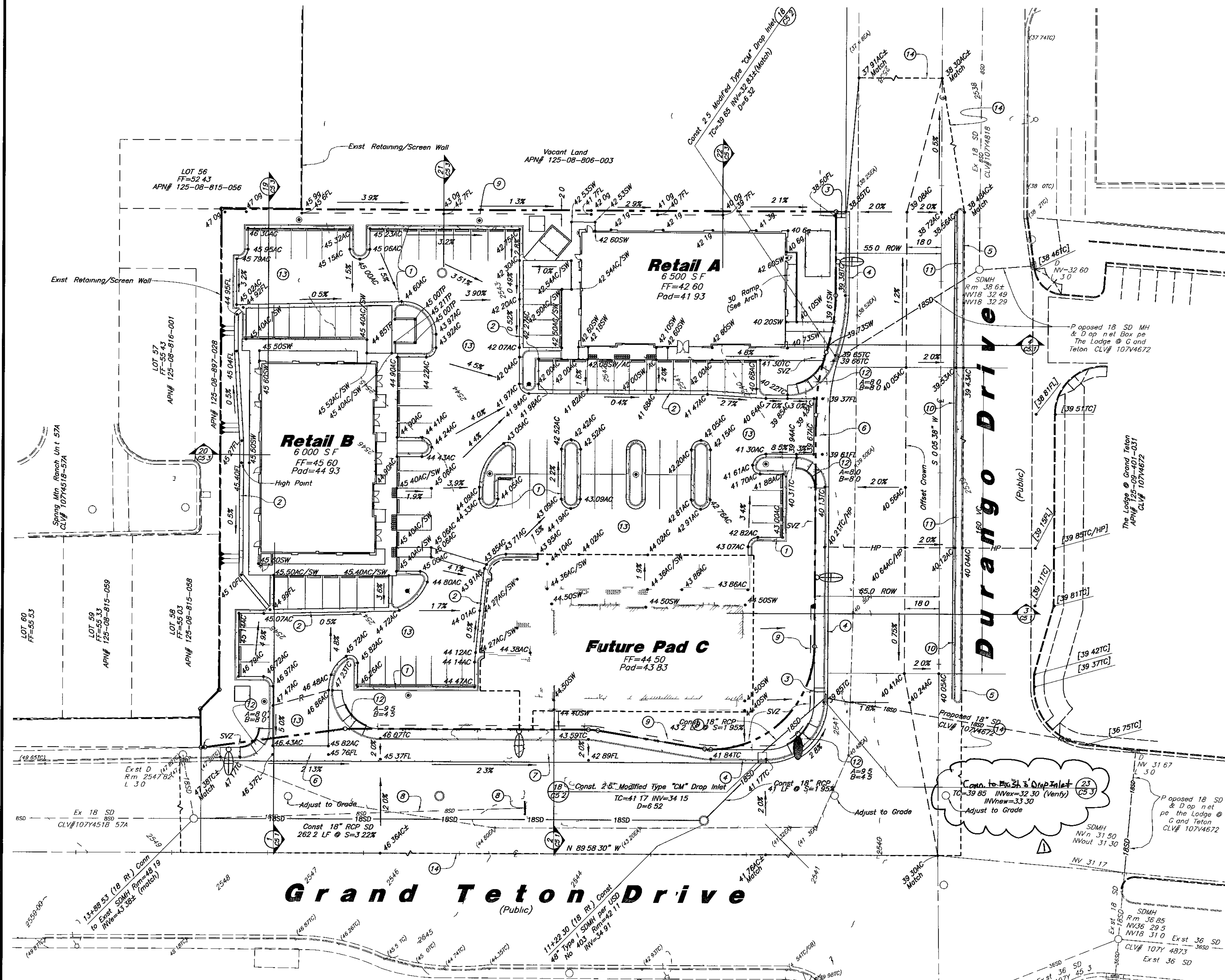




- Curb and Gutter Construction Notes**
1. Open face gutter shall be constructed where drainage is directed away from curb.
 2. Open face gutter locations are indicated by shading and notes on site and grading plan.
 3. It is the responsibility of the surveyor to adjust top of curb grades at the time construction staking.
 4. Refer to the typical details for a standard and open face curb and gutter for dimensions.
 5. Transitions between open face and standard curb and gutter are to be smooth. Hand form these areas if necessary.

Legend

Direction of Drainage	AC
Top of Asphalt	SW
Edge of Asphalt	EA
Flowline	FL
Top of Curb	TC
Top of Grate	TC
Top of Pavement	TP
Ridge line	---
Ground	g
Std Curb & Gutter	TRW
AC to TC=0.42	
Open Face C & G	BRW
AC to TC=0.54	
Finish Grade	
Top of Retaining Wall	
Finish Grade -	
Bottom of Retaining Wall	
Ext Spot Elev	(55.47)
Proposed Spot Elev	• 56.79
Future Spot Elev	• [56.79]
Drainage Swale	
Existing Manhole	
Proposed Manhole	

- General Grading Notes**
1. All work shall be in accordance with the Las Vegas City Public Works Standard.
 2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
 3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
 4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
 5. Areas to receive fill shall be properly prepared and approved by the City Inspector and geotechnical Engineer prior to placing fill.
 6. Fills shall be benched into competent material as per specifications and geotechnical report.
 7. All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
 8. A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
 9. The final compaction report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
 10. Dust shall be controlled by watering.
 11. The location and protection of all utilities is the responsibility of the permittee.
 12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
 13. All public roadways must be cleared daily of all dirt, mud, and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the city engineer.
 14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
 15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
 16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
 17. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
 18. The recommendations in the following Geotechnical Engineering Report by Owens Geotechnical Inc are included in the requirements of grading and site preparation. The report is titled: Geotechnical Exploration Report Durango Square-Retail Development NWC Durango Drive and Grand Teton Drive Las Vegas Nevada. Job No. E-05-297. Dated December 7, 2005.
 19. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.

Basis of Bearings

North 89 58 30 West being the South line of the Southeast quarter (SE 1/4) of section 8 Township 19 South range 60 East M.D.M. as shown on plot book 98 page 7 on file in the office of the county recorder Clark County Nevada.

Benchmark

City of Las Vegas vertical control no. OLV90 17NES rvet and plate n top of curb @ SW corner of Grand Teton & Durango

Elevation - 774.1140 (Meters) / 2539.74 (Feet)
North American Vertical Datum of 1988

Call before you Dig

1-800-227-2600

Call before you OVERHEAD

1-702-227-2929

- Key Notes:**
1. Const 24" Curb & Gutter
 2. Const 2 Waterway
 3. Const Sidewalk Drain per USD No 236
 4. Const 2" Curb & Gutter per USD No 216
 5. Const 7" Curb per USD No 219
 6. Const 8" Cross Gutter per USD No 228
 7. Const Bus Turnout per USD No 234.1
 8. Remove Exist 18" Storm Drain & Headwall
 9. Const Drainage Swale
 10. Const 2" Type Median Curb per USD No 219
 11. Const Median Concrete per USD No 218
 12. Const Sidewalk Ramp per USD No 235 Case 1 Using Armor Tile Truncated Domes or Approved Equal
 13. Const Asphalt Pavement
 14. Sawcut Asphalt

Drainage Compliance Note

I certify that the grading plan is in conformance with the approved drainage study on file with the city of Las Vegas for this project. 8/23/06

Bret Wahlen 11109

Designed by JR
Drafted by SP
Client Name
Novo Source
05-1180R

GREAT BASIN ENGINEERING - SOUTH
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Salt Lake City, Utah 84116
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Grading Plan
Durango Center
NW Corner of Durango Drive & Grand Teton Drive
Las Vegas Nevada

21 Aug, 2006
SHEET NO
C4
6 of 13
107V4699