



DREAM DESIGN INTERNATIONAL, INC.

CIVIL ENGINEERING • LANDSCAPE ARCHITECTURE
LAND DEVELOPMENT • CONSTRUCTION ADMINISTRATION

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MEMORANDUM

APR 27 2007

Rapid City Growth
Management Department

TO: Vicki Fisher, City of Rapid City Growth Management Department
FROM: Mike Stanley, Dream Design International, Inc.
SUBJECT: Rushmore Crossing Trash and Sound Levels – Final PCD, Phase I
DATE: 4/27/2007

TRASH

The retail store does not have trash dumpsters on site; however, they have an aggressive program to reduce waste and promote recycling. Each retail store has one 42 cubic yard internally loaded, enclosed compactor container and a corrugated materials baler for paper recycling. The baler, bales and other recycling containers are located inside the store. An average store generates:

- One compactor load of trash (16,000 lbs. each): 1-2 times per month depending on store volume.
- Recyclable corrugated material (900 lbs. each bale): 10 bales per week. Bales are picked up from the store on a weekly basis and in most cases by a local salvager.

SOUND LEVELS

- The retail store compactor and rooftop units conform to recommended Environmental Protection Agency guidelines for day and night residential standards.
- Roof top mechanical units produce 58 dba at 15 feet from source.
- The trash compactor produces less than 50 dba at 100 feet from source.
- Exterior emergency generator produces 61 dba at 100 feet from source.
- Comparable sound levels:

Quiet residential street45-55 dba
Normal speech at 3 feet from source60 dba
Single car driving by at 30 mph60-65 dba
Average city street.....70-85 dba
Shouting at 3 feet from source80 dba
Car horn at 5 feet from source85 dba
City bus driving by90 dba

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Target Tract Landscape Points

Phase I Final PCD Submittal
April 27, 2007

Landscape Points

Proposed Commercial Development Section I: Target	
Total Phase (sq.ft)	502,247
Building Coverage (sq.ft.)	126,842
Landscape Points Required	375,405

Item/Description	Point Value	Unit	Quantity	Point total
Existing Trees	1,000	Each	0	0
Conifer Trees	2,000	Each	3	6,000
Large Trees (45' min radius)	2,000	Each	21	42,000
Medium Trees (25' min radius)	1,000	Each	22	22,000
Small Trees (15' min radius)	500	Each	27	13,500
Hedge Row	500	per 15'	6.70	3,350
Shrubs	250	Each	776	194,000
Ground Cover	100	sq.yd.	632	63,200
Turf	10	sq.yd.	3,685	36,850
Landscape Points Provided - Phase I				380,900
Landscape Points Required - Phase I				375,405

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