

APPENDIX E – MARSHALL WOODS RESTORATION PROJECT TRAVEL ANALYSIS PROCESS

A travel analysis meeting was held in the Spring of 2010. Nearly all Forest Service roads within the Marshall Woods project area that were mapped at that time were included. This meeting followed the first field season of ground assessments of the area.

The scope of the analysis included all foreseeable travel management actions under the preliminary project objectives of:

- Restore functioning ecosystems by enhancing natural ecological processes.
- Emulate fire's natural role on the landscape through vegetative treatments including using prescribed fire.
- Provide education opportunities to build support for restoration.
- Provide for diverse trail-based recreation opportunities and reduce road density in section 31.

For roads, this included the broad range of possible actions (separately or in combination) of decommissioning and storing (including appropriate closure levels), adding non-system roads to the official system, constructing new system roads, constructing temporary roads, retaining system roads and incorporating BMPs, putting roads under special use permits, recommending specific stream crossing structures for upgrades, and changes to travel management. These actions relate to both identifying the minimum road system appropriate for the area and to re-examining routes designated for motor vehicle use. (Route designations were part of the Forest Plan in 1986 and were also made in subsequent project decisions; these have been incorporated in the Forest Travel Plan portion of the Forest Visitors Map and are now shown on the Motor Vehicle Use Map). While the focus of the meeting was on roads, trails were also briefly included in the discussions.

The scale of the analysis was the Marshall Woods project area. Data that was used in the analysis included the Forest road and trail GIS layers, tabular road information in Infrastructure/ I-web, other resource specialists' GIS data, some detailed route reconnaissance information, and personal knowledge of field conditions.

The analysis process involved discussing each road, road segment, or group of roads in terms of access values and impacts from the road and rating the road by access needed (fire, veg, and human uses) and by impacts (water and wildlife). Ratings were High, Medium, or Low. Along with comments and ratings, the team developed a consensus recommendation for the road. If information was lacking or road conditions needed field verification, then that was noted. The comments, ratings, and recommendations were compiled in spreadsheet form that includes information such as road milepoints, length, travel management, and system/ jurisdiction.

After the initial travel analysis meeting, the travel analysis process continued as map updates were made, vegetation treatment proposals were refined, and better field information became available. The travel analysis process report includes this transportation assessment and the master spreadsheet of road data, comments, ratings, and recommendations. A summary of the master spreadsheet, showing Forest Service road segments, existing travel management, and

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recommendations from the travel analysis process, is included in this appendix. The full spreadsheet is available in the Project File.

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MARSHALL WOODS RESTORATION PROJECT FOREST SERVICE ROAD LISTING

ROAD #	NAME	BMP	EMP	SEG LENGTH	MAP CODE	TM DEVICE	DRIVABLE OTHER THAN TM DEVICE	CURRENT SYSTEM (WITH CHANGES PER 2008 DECISION)	RECOMMENDED RD MGMT	CLOSURE LEVEL
99	RATTLESNAKE CREEK	0.0000	4.3350	4.3350	A	BALLARD	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	Closure Level 1
2122	SHEEP MOUNTAIN	0.0000	3.0900	3.0900	A	GATE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	Closure Level 1
2122	SHEEP MOUNTAIN	3.0900	3.2800	0.1900	A	GATE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	Closure Level 1
2122	SHEEP MOUNTAIN	3.2800	4.2210	0.9410	A	GATE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	Store	Closure Level 3S
4391	RATTLESNAKE TRAILHEAD	0.0000	0.1300	0.1300	OPEN-HL	NONE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	Closure Level 1
16783	UPPER MARSHALL	0.0000	0.8200	0.8200	A	GATE	NO	NFSR - NATIONAL FOREST SYSTEM ROAD	Convert to Shared Route	Closure Level 1
16783	UPPER MARSHALL	0.8200	1.3000	0.4800	A	GATE	NO	NFSR - NATIONAL FOREST SYSTEM ROAD	Decommission	Closure Level 5
16803	MARSHALL RIDGE	0.0000	0.2810	0.2810	A	GATE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	Closure Level 1

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16803	MARSHALL RIDGE	0.2810	1.2990	1.0180	A	GATE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	Closure Level 1
16803	MARSHALL RIDGE	1.2990	1.6300	0.3310	A	GATE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	Closure Level 1
16803	MARSHALL RIDGE	1.6300	2.0830	0.4530	A	GATE	YES	UND - UNDETERMINED	Add Existing Road to Official Road System	Closure Level 1
16803	MARSHALL RIDGE	2.0830	2.3230	0.2400	A	GATE	YES	UND - UNDETERMINED	Add Existing Road to Official Road System	Closure Level 1
16803	MARSHALL RIDGE	2.3230	3.0720	0.7490	A	GATE	NO (1st 0.2 is drivable)	UND - UNDETERMINED	Decommission	Closure Level 5

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17150	MADERA DRIVE	0.0000	0.6700	0.6700	OPEN-HL	NONE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	None
19154	RATTLESNAKE HORSE TRAILHEAD	0.0000	0.1540	0.1540	K	GATE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	Closure Level 1
33348		0.0000	0.1700	0.1700	A	BERM	NO	UND - UNDETERMINED	Decommission	Closure Level 5
33349		0.0000	0.0500	0.0500	A	BERM	NO	UND - UNDETERMINED	Decommission	Closure Level 5
33349		0.0500	0.2300	0.1800	A	BERM	NO	UND - UNDETERMINED	Decommission	Closure Level 3D-N
33350		0.0000	1.1000	1.1000	A	GATE	NO	UND - UNDETERMINED	Convert to Shared Route	Closure Level 1
33710		0.2300	0.4500	0.2200	N-YL	SIGN	YES	UND - UNDETERMINED	NF Road	Closure Level 1
33710-A		0.0970	0.2800	0.1830	N-YL	SIGN	?	UND - UNDETERMINED	Decommission	Closure Level 5
53033		3.1010	3.1750	0.0740	N-YL	GATE	YES	UND - UNDETERMINED	Add Existing Road to Official Road System	Closure Level 1
53033		3.1750	5.1800	2.0050	N-YL	GATE	YES	UND - UNDETERMINED	Store	Closure Level 3S
53033		5.1800	5.7500	0.5700	N-YL	GATE	YES	UND - UNDETERMINED	Decommission	Closure Level 5

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53412		0.0000	0.2820	0.2820	A	GATE	NO (first part is, then single track)	NOT - NOT NEEDED	Decommission	Closure Level 5
53413		0.0000	0.3060	0.3060	A	GATE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	Add Existing Road to Official Road System	Closure Level 1
53413		0.3060	0.7800	0.4740	A	GATE	NO	NOT - NOT NEEDED	Decommission	Closure Level 3D-N
53413		0.7800	1.0800	0.3000	A	GATE	NO	NOT - NOT NEEDED	Decommission	Closure Level 5
53414		0.0000	0.6440	0.6440	A	GATE	NO (1st 0.41 is to draw, then marginally brushed in to trail 513.	UND - UNDETERMINED	Convert to Trail	Closure Level 3
53414		0.6440	1.0800	0.4360	A	GATE	NO	UND - UNDETERMINED	Convert to Trail	Closure Level 3
53415		0.0000	0.3850	0.3850	A	GATE	YES	UND - UNDETERMINED	Convert to Trail	Closure Level 3

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53415		0.3850	0.8450	0.4600	A	GATE	YES	NOT - NOT NEEDED	Decommission	Closure Level 5
53416		0.0000	0.5900	0.5900	N-YL	GATE	YES	UND - UNDETERMINED	Decommission	Closure Level 5
53417		0.6050	1.7500	1.1450	N-YL	GATE	YES	UND - UNDETERMINED	NF Road	Closure Level 1
63135		2.1970	2.6200	0.4230	A	GATE	YES	UND - UNDETERMINED	Add Existing Road to Official Road System	Closure Level 1
63135		2.6200	2.7150	0.0950	A	GATE	YES	UND - UNDETERMINED	Decommission	Closure Level 5
63136	Mt. Jumbo	0.0000	2.1000	2.1000	A	GATE	YES	NFSR - NATIONAL FOREST SYSTEM ROAD	NF Road	Closure Level 1
63136-A		0.0560	0.1400	0.0840	A	GATE	YES	UND - UNDETERMINED	Convert to Trail	Closure Level 3
63136-B	Mt. Jumbo	0.1090	0.3960	0.2870	A	GATE	YES	UND - UNDETERMINED	Need More Info	Need More Info
63219		0.0000	0.0600	0.0600	N-YL	GATE	YES	UND - UNDETERMINED	NF Road	Closure Level 1
63220	Sec. 33	0.0000	1.0500	1.0500	N-YL	GATE	YES	UND - UNDETERMINED	Decommission	Closure Level 5
63221	Sec. 33	0.0000	0.2000	0.2000	N-YL	GATE	YES	UND - UNDETERMINED	Decommission	Closure Level 5

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63233	Sec. 33	0.0000	0.1000	0.1000	N-YL	GATE	YES	UND - UNDETERMINED	Re-Align/ Store	Closure Level 3S
63233	Sec. 33	0.1000	1.4740	1.3740	N-YL	GATE	YES	UND - UNDETERMINED	Store	Closure Level 3S
63233	Sec. 33	1.4740	2.1400	0.6660	N-YL	GATE	YES	UND - UNDETERMINED	Decommission	Closure Level 5
63234	Sec. 33	0.0000	0.6340	0.6340	N-YL	GATE	YES	UND - UNDETERMINED	Decommission	Closure Level 5
63235	Sec. 33	0.0000	0.2400	0.2400	N-YL	GATE	YES	UND - UNDETERMINED	Store	Closure Level 3S
63245	Sec. 33	0.0000	0.1900	0.1900	N-YL	GATE	YES	UND - UNDETERMINED	Decommission	Closure Level 5