

Palomino Valley General Improvement District

General Road Grading/Maintenance Guidelines*

Approved by Board of Trustees August 2021

Resubmitted/Revised by Trustee Don Otto March 2023

Revised by Trustee John Patterson April 2023

1. Attempt to raise and widen roads to original width using previously graded material adjacent to roadway (only if roadside material is of good quality). Not applicable to road surfaces with pavement or imported materials.
2. Maintain 4% slope to crown grading, unless full slope to one side is needed.
3. Attempt to minimize the use of high volume ditches. If operationally possible, utilize flat bottom widening. Swales are preferred. Minimize use of small v-ditches.
4. Water escape flow lines should be cut in lower than the ditch flow lines to force water outward. Slope escape entrance to force water outward.
5. Daylight road shoulders where adjacent grade is level with or sloping away from road surface.
6. Attempt to grade washboard surfaces to full depth of depressions utilizing water and roller compaction if operational schedule allows.
7. Attempt to maintain 20 ft road width at hill crests and curves.
8. Attempt to maintain current travel width of roadways.
9. Place imported gravel on road surface, leaving uncovered native space along road edge.
10. Transition grade driveways and road intersections smoothly.
11. Shoulder up hard surfaced road edges when needed.
12. Cross street culvert installation should use adequate length to reach natural slope/ditch flow line. Road crossing culverts should be kept clear and operational, and ditches graded to the ends of driveway culverts.

*Note: General Road Grading/Maintenance Guidelines are subject to operational schedule, weather/climate conditions, terrain and soil conditions.

Palomino Valley General Improvement District - April 2023

Road Grading and Maintenance Standard "GOALS" to Operations Crew and grading sub-contractors within the PVGID road system

Page 1 of 2

1. Prioritize pulling good material back onto the roadway as a standard grading method. Gradually, raise and widen roads to at least original width using the previously graded off material adjacent to roadway. (Ignore this if roadway has imported gravel or paving placed on it). Grading good material off roads is not acceptable.
2. Maintain 4% slope to crown grading, unless full slope to one side is needed for watershed.
3. Minimize high volume, deep ditches were impractical. Swales are preferred to help prevent traffic rollover accidents, vehicle damage, and ease of future maintenance. If operationally possible, flat ditch bottoms are good also. Minimize small, and steep V-ditches.
4. Water escape's flow elevations should be cut in lower than ditch flow line to force water outward. Build and slope the escape entrance also to force water outward. (Consult board if examples are needed.)
5. Fill in ditches wherever water can sheet drain away from roads. Road hill crests do not need ditches and should be filled (if present), to promote roadway widening. Preferably, wherever terrain allows, grade at least 20' width on hill crests and curves for obvious safety concerns.
6. Special attention to grade to full depth of washboarded areas of roadways to prevent them from developing again quickly.
7. Brush should be graded out of ditches and back slopes regularly to prevent accidental fires, to create fire breaks, to increase sight distance on curves, and to prevent ditch damming.
9. When placing imported gravel on roadway, keep this new material roughly 2 feet away from road edges unless road is very narrow. Do not push good import materials over the edges.
10. Transition roadway edges smoothly into driveways and road intersections.
11. 'Re-shoulder' hard surfaced roadway edges when needed.
12. Cross street culvert installation should be adequate length to at least reach the ditch flow line.
13. Keep road crossing culverts clear and operational, and grade ditches to conform to driveway culverts.
14. Board President, (or his designee), inspection of roadway 'shaping' will take place on large projects prior to applying purchased materials.

Page 2.

15. Prioritize using material from GID 'pits' to build up, shape, or surface roads. Use winter months to push and pile up a large quantity of good material for our use throughout the year.

16. A monthly minimum of 90 grading hours per Operation's employee should be achieved. Snow removal included.

17. Advise board President of training needs and any questions.

18. Board President, (or their designee), will give guidance to operations crew regularly, as they feel necessary. All Operations crew employees will remain receptive to all board members guidance and instructions.

19. Provide all board members exact copies of all Road Maintenance Requests electronically or on paper as they are received by the secretary

The above instructions will be our goal,

Operations Supervisor

Employee

Employee

THANK YOU ALL

Second Reading and Adoption
Regular Meeting
August 20, 2020

PALOMINO VALLEY GENERAL IMPROVEMENT DISTRICT

RESOLUTION NO. F20-R1

ROADS ACCEPTED FOR MAINTENANCE AND
LEVEL OF MAINTENANCE DESIGNATIONS

WHEREAS, Resolution No. F06-R1 - Roads Accepted for Maintenance and Level of Maintenance (LOM) Designation - was intended to supersede Resolution No. F77-R4 - Road Maintenance, Seasonal Roads - but the resolution, as written, did not specifically state that it superseded the earlier resolution; and;

WHEREAS, Resolution No. F93-R1 - Resolution for Accepting Seasonal and Future Roads for Normal Maintenance by Palomino Valley General Improvement District - was revised by Resolution No. F16-R2 - Revision of Resolution No. F93-R1 - Procedure for Accepting Roads for Maintenance by the PVGID and the Requisite Road Standards. The revised resolution did not include any language regarding roads designated and listed as "Seasonal Roads" in the 1977 resolution.

NOW, THEREFORE, be it RESOLVED:

1. This resolution supersedes previous resolutions F77-R4, F93-R1, and F06-R1 for maintenance of existing roads.
2. Acceptance of new roads for maintenance is covered by Resolution No. F16-R2.
3. The classification of "Seasonal Roads" described in previous Resolution No. F77-R4 is hereby terminated. These roads will be elevated to LOM 3. Residents on roads previously listed as seasonal who desire to have road improvements beyond normal grading shall bear the cost of road improvements. It will not be the responsibility of the PVGID to upgrade these roads except where deemed practical and cost effective by the Board. These roads shall be maintained in their present condition and width.
4. The list of Palomino Valley GID Accepted Roads and Level of Maintenance Amended August 20, 2020 is attached and made a part hereto. This list should be reviewed and possibly updated every ten (10) years as growth occurs within the District.
5. Upon a resolution to add, delete, or change the level of maintenance for an accepted road, the Board of Trustees must draft a resolution to amend the list of "Accepted Roads and Level of Maintenance." The resolution must include the following:
 - Name of Road
 - Portion of Road to be Added or Deleted (if applicable)
 - Number of Miles to be Added or Deleted (if applicable)
 - Level of Maintenance Designation (1, 2, or 3)

- 6. The Level of Maintenance designation for each road or road segment was based on the level of traffic when Resolution No. F06-R1 was written in 2006, and generally correlates with the number of residences served. The LOM classifications are not a guarantee of how many times a year any particular road segment will be graded since other factors such as weather events, and subgrade soil characteristics are also involved. The Operations Manager shall, on a regular basis, survey roadways and establish priorities for maintenance. Requests for maintenance received from residents shall be analyzed by the Operations Manager who will determine validity and establish priorities for grading and other maintenance. The LOM designations set standards that can be used as a guide with the understanding that in certain situations a road may require repair or maintenance that is not commensurate with its LOM, but is necessary to keep a road serviceable.
- 7. Roads throughout the District will not be maintained when weather and/or road conditions are unsafe or hazardous to GID personnel and/or equipment.

BE IT FURTHER RESOLVED that this Resolution be spread at large upon the minutes or attached thereto.

Upon motion by Trustee Dennis, and seconded by Trustee Currivan, the foregoing Resolution was passed and adopted this 20th day of August, 2020 by the following vote:

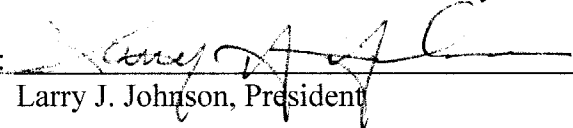
AYES: Trustee Dennis, Trustee Currivan, and Trustee Johnson

NAYS: Trustee Otto

ABSENT: Trustee Breitmeyer

ABSTAIN: None

Board of Trustees of the Palomino Valley General Improvement District

By: 

 Larry J. Johnson, President

NOTE: This Resolution cannot be amended or cancelled without a vote of the PVGID Board of Trustees.

PALOMINO VALLEY GID ACCEPTED ROADS AND LEVEL OF MAINTENANCE
AMENDED AUGUST 20, 2020

LEVEL OF MAINT	ROAD NAME	MILES	PORTION ACCEPTED	END GPS
1	Amy	2.45	Whiskey Springs South to	Ironwood
1	Amy	0.4	Ironwood South to	Wilcox Ranch
2	Amy	1.4	Wilcox Ranch South to	End
2	Amy	0.1	Whiskey Springs North to	N end: 39° 47.810N 119° 36.698W
3	Anniversary	0.5	All	
1	Axe Handle	3.0	All	39° 44.138N 119° 38.850W
2	Bacon Rind	1.5	Axe Handle So. to	39° 43.017N 119° 40.652W (Sage Cyn)
2	Bacon Rind	1.7	Axe Handle North to	End
3	Big Dog	0.6	Prairie to	39° 46.389N 119° 42.321W (4700 BD)
3	Bootstrap	0.5	Broken Spur East to	39° 48.336N 119° 36.694W
2	Broken Spur	2.4	Whiskey Springs South to	End
3	Broken Spur	0.2	Whiskey Springs North to	End
3	Chantry Flats	1.1	All	
3	Chieftan	0.8	Pasture View to	Vista Trail
2	Crazy Horse	1.1	All	
2	Crossover	0.6	Wild Horse South to	Twin Springs
3	Crossover	0.2	Wild Horse North to	N end: 39° 45.171N 119° 35.058W
2	Curnow Canyon	0.9	Axe Handle to	39° 43.676N 119° 39.229W (Quonset)
3	Curnow Canyon	1.7	39° 43.676N 119° 39.229W to	39° 43.018N 119° 38.404W (190 CC)
3	Easy Jet	0.4	All	
3	Flagstone	0.2	All	
3	Grass Valley	3.6	Pyramid Hwy West to	End
2	Grass Valley	3.1	Pyramid Hwy Southeast to . . .	Whiskey Springs
2	Grass Valley	0.8	Whiskey Springs South to	Turf Farm--39° 47.582N 119° 37.842W
2	Grass Valley	0.8	Sharrock North to	N End: 39° 46.722N 119° 37.835W
3	Grey Van	1.2	Range Land South to	End
3	Hay Canyon	0.3	All	
3	Hockberry	1.0	All	
1	Ironwood	4.9	Pyramid Hwy to	Amy
3	Ironwood (Little)	1.0	Whiskey Springs South to	Ironwood

Level of Maintenance: 1 = Primary 2 = Secondary 3 = Tertiary

PALOMINO VALLEY GID ACCEPTED ROADS AND LEVEL OF MAINTENANCE
AMENDED AUGUST 20, 2020

LEVEL OF MAINT	ROAD NAME	MILES	PORTION ACCEPTED	END GPS
3	Jackrabbit	1.0	All	
3	Lost Spring	1.0	All	
3	Mid	0.3	All	39° 42.108N 119° 32.838W
3	Morning Dove	0.2	All	
2	Pasture View	2.0	Whiskey Springs South to	End
3	Pasture View	0.8	Whiskey Springs North to	End
2	Peak	0.7	Winnemucca Ranch East to . .	Peak
2	Peak	1.7	Range Land South to	End
3	Pioche	0.2	All	
3	Piute Creek	1.7	Whiskey Springs to	39° 46.650N 119° 31.841W (2155 PC)
3	Pony Springs	0.8	All	
2	Prairie	1.0	All	
2	Quaking Aspen	1.4	Wilcox Ranch to	Hidden Canyon
2	Quaking Aspen	0.6	Hidden Canyon to	O'Hara
3	Quaking Aspen	3.3	O'Hara East to	Mountain Aspen
1	Range Land	2.9	All	
3	Rebel Cause	1.2	Range Land South to	End
2	Right Hand Canyon	3.2	Whiskey Springs to	Raptor: 39° 45.333N 119°32.592W
3	Right Hand Canyon	1.8	Raptor South to	End: 39° 44.853N 119°31.008W
3	Roadrunner	1.4	Winnemucca Ranch to	Ernie: 39° 50.814N 119° 42.884W
3	Sage Flat	1.3	Whiskey Springs North to	End
2	Sharrock	2.1	All	
3	Silver Horse	1.0	Wild Horse to	39° 45.383N 119° 34.498W
3	Space Test	0.5	All	
3	Tartan	0.2	All	
2	Twin Springs	0.3	Wilcox Ranch East to	Crossover
3	Twin Springs	1.9	Crossover East to	End
3	Two Forty	0.4	All	
2	Wayside	0.8	Grass Valley to	End: 39° 48.664N 119° 37.126W
1	Whiskey Springs	7.0	All	

Level of Maintenance: 1 = Primary 2 = Secondary 3 = Tertiary

PALOMINO VALLEY GID ACCEPTED ROADS AND LEVEL OF MAINTENANCE
AMENDED AUGUST 20, 2020

LEVEL OF MAINT	ROAD NAME	MILES	PORTION ACCEPTED	END GPS
1	Wilcox Ranch	4.0	Amy to	Goodher
2	Wilcox Ranch	1.0	Goodher to	Mid
2	Wild Horse	3.4	Whiskey Springs South to	End
3	Wild Horse	0.8	Whiskey Springs North to	End
3	Wrangler	0.8	Right Hand Canyon to	39°45.782N 119° 32.381W
2	Yellow Tail	2.1	All	
TOTAL Miles Maintained		93.25		
	Miles of Asphalt	19.95		
	Miles of Dirt	73.30		
LEVEL OF MAINTENANCE (LOM) DEFINITIONS				
PRIMARY -- LOM 1:		24.65	Miles	
> High Traffic				
> Main Collector Road (Most of these roads connect with Pyramid Hwy)				
SECONDARY -- LOM 2:		34.7	Miles	
> Moderate Traffic				
> Secondary Collector Road (One or more roads connect with these roads)				
> Seasonal Maintenance--Road will not be maintained when weather and/or road conditions are unsafe or hazardous to GID crew and/or equipment.				
TERTIARY -- LOM 3:		33.9	Miles	
> Low Traffic				
> Not a Collector Road				
> Seasonal Maintenance--Road will not be maintained when weather and/or road conditions are unsafe or hazardous to GID crew and/or equipment.				

Level of Maintenance: 1 = Primary 2 = Secondary 3 = Tertiary

**PALOMINO VALLEY GID ACCEPTED ROADS AND LEVEL OF MAINTENANCE
AMENDED AUGUST 20, 2020**

NUMBER OF MILES BY LEVEL OF MAINTENANCE				
LEVEL OF MAINT	ROAD NAME	MILES	PORTION ACCEPTED	END GPS
1	Amy	2.45	Whiskey Springs South to	Ironwood
1	Amy	0.4	Ironwood South to	Wilcox Ranch
1	Axe Handle	3.0	All	
1	Ironwood	4.9	Pyramid Hwy to	Amy
1	Range Land	2.9	All	
1	Whiskey Springs	7.0	All	
1	Wilcox Ranch	4.0	Amy to	Goodher
	LOM 1 Miles	24.65		
LEVEL OF MAINT	ROAD NAME	MILES	PORTION ACCEPTED	END GPS
2	Amy	1.4	Wilcox Ranch South to	End
2	Amy	0.1	Whiskey Springs North to	N end: 39° 47.810N 119° 36.698W
2	Bacon Rind	1.5	Axe Handle South to	End
2	Bacon Rind	1.7	Axe Handle North to	End
2	Broken Spur	2.4	Whiskey Springs South to	End
2	Crazy Horse	1.1	All	
2	Crossover	0.6	Wild Horse South to	Twin Springs
2	Curnow Canyon	0.9	Axe Handle to	39° 43.676N 119° 39.229W
2	Grass Valley	3.1	Pyramid Hwy Southeast to . . .	Whiskey Springs
2	Grass Valley	0.8	Whiskey Springs South to	Turf Farm--39° 47.582N 119° 37.842W
2	Grass Valley	0.8	Sharrock North to	N End: 39° 46.722N 119° 37.835W
2	Pasture View	2.0	Whiskey Springs South to	End
2	Peak	0.7	Winnemucca Ranch East to . .	Peak
2	Peak	1.7	Range Land South to	End
2	Prairie	1.0	All	
2	Quaking Aspen	2.0	Wilcox Ranch to	O'Hara: 39° 43.286N 119° 32.715W
2	Right Hand Canyon	3.2	Whiskey Springs to	Raptor: 39° 45.333N 119° 32.592W
2	Sharrock	2.1	All	
2	Twin Springs	0.3	Wilcox Ranch East to	Crossover
2	Wayside	0.8	Grass Valley to	End: 39° 48.664N 119° 37.126W
2	Wilcox Ranch	1.0	Goodher to	Mid
2	Wild Horse	3.4	Whiskey Springs South to	End
2	Yellow Tail	2.1	All	
	LOM 2 Miles	34.7		

Level of Maintenance: 1 = Primary 2 = Secondary 3 = Tertiary

**PALOMINO VALLEY GID ACCEPTED ROADS AND LEVEL OF MAINTENANCE
AMENDED AUGUST 20, 2020**

LEVEL OF MAINT	ROAD NAME	MILES	PORTION ACCEPTED	END GPS
3	Anniversary	0.5	All	
3	Big Dog	0.6	Prairie to	39° 46.389N 119° 42.321W
3	Bootstrap	0.5	Broken Spur East to	39° 48.336N 119° 36.694W
3	Broken Spur	0.2	Whiskey Springs North to	End
3	Chantry Flats	1.1	All	
3	Chieftan	0.8	Pasture View to	
3	Crossover	0.2	Wild Horse North to	N end: 39° 45.171N 119° 35.058W
3	Curnow Canyon	1.7	39° 43.676N 119° 39.229W to	39° 43.018N 119° 38.404W
3	Easy Jet	0.4	All	
3	Flagstone	0.2	All	
3	Grass Valley	3.6	Pyramid Hwy West to	End
3	Grey Van	1.2	Range Land South to	End
3	Hay Canyon	0.3	All	
3	Hockberry	1.0	All	
3	Ironwood	1.0	Whiskey Springs South to	Ironwood
3	Jackrabbit	1.0	All	
3	Lost Springs	1.0	All	
3	Mid	0.3	All	39° 42.108N 119° 32.838W
3	Morning Dove	0.2	All	
3	Pasture View	0.8	Whiskey Springs North to	End
3	Pioche	0.2	All	
3	Piute Creek	1.7	Whiskey Springs to	39° 46.650N 119° 31.841W
3	Pony Springs	0.8	All	
3	Quaking Aspen	3.3	O'Hara East to	End: 39° 42.282N 119° 32.710W
3	Rebel Cause	1.2	Range Land South to	End
3	Right Hand Canyon	1.8	Raptor South to	End: 39° 44.853N 119°31.008W
3	Roadrunner	1.4	Winnemucca Ranch to	Ernie: 39° 50.814N 119° 42.884W
3	Sage Flat	1.3	Whiskey Springs North to	End
3	Silver Horse	1.0	Wild Horse to	39° 45.383N 119° 34.498W
3	Space Test	0.5	All	
3	Tartan	0.2	All	
3	Twin Springs	1.9	Crossover East to	End
3	Two Forty	0.4	All	
3	Wild Horse	0.8	Whiskey Springs North to	End
3	Wrangler	0.8	Right Hand Canyon to	39°45.782N 119° 32.381W
	LOM 3 Miles	33.9		
	TOTAL Miles Maintained	93.25		

Level of Maintenance: 1 = Primary 2 = Secondary 3 = Tertiary