APPENDIX B: IMPROVEMENT PLAN CHECKLIST

NOTE: Contact Oro Valley	Development	Services a	it (520)	229-4800	or visit	the	Town	of (Oro
Valley web site for the most	recent updates								

GENERAL ITEMS

	1.	A legible P.E. stamp and registered engineer's signature must be provided on each sheet.
	2	All sheets must be numbered.
		All necessary details must be included on the plans.
	4.	The lettering must be appropriately sized (minimum 0.125 except for reference data at 0.10 min.)
	5.	The plans must adhere to the Oro Valley Subdivision Street Standards.
	6.	The plans must be in compliance with the Town of Oro Valley Grading Ordinance.
	7.	Each sheet must include the scale, contour interval and north arrow, where applicable. Every effort should be made to have north oriented to the top of the sheet; however, if the north arrow shall point downward, prior staff approval will be necessary. In the
	8.	case of multiple sheets, the north orientation shall be the same on all sheets. All items not to scale must be labeled "NTS".
		All off-site easements must be recorded prior to improvement plan approval.
		A copy of the Arizona Department of Environmental Quality's (ADEQ) N.O.I. for projects 1 acre or greater, and Stormwater Pollution Prevention Plan for projects of any
п	11	size, must be provided prior to the issuance of a grading permit.
	11.	The following documents must be approved and on file with the Town of Oro Valley: a. Archeological Clearance
		b. Hydrology Report (Rip-rap sizing calculations will be provided.)
		c. Salvage Plan and Landscape Plan
		d. Geotechnical Report (including pavement design report). If the pavement design is revised during construction, an as-built pavement section shall be provided to be included with the approved plans.
DET	AII	SHEETS
	12.	All necessary cross-sections must be shown (roadway and drainage).
		a. Roadway cross-sections must correspond to the preliminary plat.
		b. Drainage cross-sections must correspond to the approved Hydrology Report.
_	12	Hydraulic data shall be provided with each section. (Q100, Depth, Slope and Velocity.)
	13.	All details must be correctly referenced. a. From sheet to sheet.
		b. From accepted/adopted standard literature.
	14	The pavement design and slope treatment must correspond to the soils report. If these
		items were not included in the approved soils report, they must be submitted at this time. A note shall be provided stating slope stabilization and slope treatment requirements.
]	15.	Typical lot drainage plan or spot elevations and flow arrows indicating lot drainage on each lot will be provided except in the case of custom lot grading.
		Provide street, we are an employed by framily.

COVER SHEET

	 16. Project Title must be centered at the top and contain: a. Project name b. Number of lots (if applicable) c. Phasing (if applicable) d. Public or Private streets e. Oro Valley case number f. Type of Plan(s) (ie. Grading, paving, sewer, etc.) 17. Symbol Legend must be provided. 18. Sheet Index which lists each sheet content must be provided; for example:
	Sheet Index
	Cover Sheet1 Grading Plan2
	Water Plan3
	19. Location Map must be provided in the upper right-hand corner and must include:
	a. Area showing, "This Project"
	b. Scale (3"=1 mile) and north arrow
	c. Brief legal description 20. Engineer Identification must include:
	a. Company Name
	b. Address
	c. Telephone Number
	21. Developer/Owner Identification must include:
	a. Name b. Address
	b. Address c. Telephone Number
	22. General Notes must be provided when necessary.
	23. Oro Valley Grading Notes and Paving Notes (attached) must be provided. Any
	deviation from these notes shall require the approval of the Oro Valley Public Works
	Department.
Ц	24. Project Overview Plan shall be provided and must contain: a. Scale (no smaller than 1"=400')
	b. Street names
	c. Phase lines
	d. Lot numbers
	e. Sheet index
	25. Vertical and horizontal bench datum must be provided.26. Acceptance block/date must be provided for:
	a. Town of Oro Valley
	b. P.C.W.W.M.
	c. Others as needed
	27. Design Certification Statement, if Design Certification, must be shown and executed.

	28. List of all PC/COT Details being referenced must be provided (include modification notes where applicable).
	29. Excavation quantities must be provided. (May be noted as approximate.)
PLA	N AND PROFILE SHEETS (PAVING OR GRADING)
	PAVING PLANS
00 0 00	 30. All uncurbed returns must have concrete headers. 31. Uncurbed returns must have a minimum 40-foot radius. Curbed returns must have a minimum 25-foot radius. Radii shall be noted at all locations. 32. Cul-de-sacs must meet or exceed minimum radius requirements per the Oro Valley Subdivision Street Standards. 33. The maximum grade break allowed without a vertical curve shall be 1.00%. 34. The turning radius must meet the minimum requirements for the design radius radius residues.
0000	 34. The turning radius must meet the minimum requirements for the design vehicle as approved on the preliminary plat or development plan. 35. "Trim, tack and join to existing pavement" shall be provided where applicable. 36. Centerline bearings, distances and curve data must be provided. 37. Survey monuments must be provided: a. At all P.C.'s and P.T.'s b. Cul-de-sac radius points (R.P. of eyebrow, if a non-conforming design) a. Interpretions of all public streets
00000000	 c. Intersections of all public streets 38. Handrails must be shown for all necessary areas. 39. All centerline grades must be shown in profile. 40. All vertical curve data must be shown. 41. Existing ground shall be shown in profile. 42. All points of change must be shown by station and elevation in plan and profile. 43. Vertical curves must meet Town standards. 44. "Tick marks" must be provided at 100-foot stations for road centerlines. 45. Warp sections shall be shown in profile. 46. Superelevation sections shall be shown in profile with elevations at gutter (left or right) given at all transition points, high points, low points and points relative to a centerline vertical curve, when applicable.
	GRADING PLANS
	 47. Detention/retention information must be addressed: a. Volume b. WSEL 48. Detention/retention barrier must be provided per PCDOT/FCD Stormwater Detention/Retention Manual requirements. 49. Filter fabric should be placed under all hand placed and dumped rip-rap. 50. Plans must conform with the Grading Ordinance and/or HDZ
	 a. Cut and fill slopes and heights must conform. 1. Slope ratio (for proper mitigation) b. All grading limits must be shown.

 c. Finish grades on all pads must be shown. d. F.F.E. of all buildings on flood prone lots must be provided. e. For all sites greater than five acres, 100 feet of additional topography outside the
grading limits will be provided. 51. Sight visibility triangles will be shown and the area within the sight visibility triangle shall be free of obstructions.
 52. All culverts must show: a. Invert elevations b. Size and type c. Length and skew 53. Profiles of culvert crossings when being constructed with the grading, shall be provided.
54. Culvert crossings shall be shown on road profiles (relative to street centerline).55. Post-development 100-year floodplain limits must be provided. Developed WSEL sections shall be shown.
56. Post-development concentration points shall be shown and developed Q100 drainage data shall be provided for each point.
57. Existing contours, and proposed contours when applicable, shall be identified at frequent intervals. Topography shall be accurate and legible.
58. A table of minimum F.F.E. for flood prone lots shall be provided. Minimum F.F.E. shall be WSE + 1 foot.
BOTH PAVING AND GRADING PLANS
59. All adjacent offsite parcels must be referenced. a. Show proposed lot lines, subdivision name and current zoning or,
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