

Summary of Changes

Section	What	Why	Assembly Resolution 17-003 Task
Throughout document	Remove gendered pronouns Standardize language, vocabulary, acronyms Refer to “latest edition” of referenced publications	Clarity	2, 4
Introduction	Tie in subdivision code Add commonly reoccurring problems w/ ROW, bridges, fish passage	Clarity	4
Index	Add List of Figures Add List of Tables Add Acronyms Add Definitions	Clarity	4
A03.1	Increase ROW widths to 60’ Delete shoulder width, added roadway (trafficway + shoulders) width Increase required roadway widths for gravel roads Increase required roadway width for pioneer roads Increase minimum foreslope for paved roads Increase minimum foreslope for Residential Collectors Move ditch depth footnote to D02	ROW width set by Title 43 Clarity To allow for future paving without having to widen the road and move ditches Safety, fire trucks need a 20’ wide road Shallower foreslopes improve safety – 3:1 foreslopes are traversable Shallower foreslopes improve safety – 4:1 foreslopes are recoverable Clarity	4, 12 4 3,10 2 2 4, 5
A03.2	Add “local roads” to Residential and Residential Subcollector and “minor collector” to Residential Collector descriptions	Terminology consistent with FHWA	1
A04.1	Delete total calculated traffic volume on loop streets	Confusing, redundant	4
A04.3	Clarify gravel shoulder	Clarity	4
A04.4	Add reference to AASHTO design criteria Clarify 100’ tangent between horizontal and vertical curves Decrease maximum grade within 50 feet of a controlled intersection approach, clarify wording Add Residential Street Typical Section	Clarity Clarity Safety, consistent with driveway standards Moved from Appendix A, updated to reflect these changes, clarity	2 4 4, 7 4, 16
A04.5	Clarify cul-de-sac length measurement Add cul-de-sac dimension figure	Clarity	4, 7
A04.6	Add t-turnaround subsection & figure	Same limitations as residential cul-de-sacs, moved from A18	7
A05.1	Delete total calculated traffic volume on loop streets & figure	Confusing, redundant	4
A05.2	Delete first paragraph, repeat of service restriction from previous subsection Change “arterial” to “higher classification”	Clarity To include major collectors, highways, etc	4 4
A05.3	Clarify gravel shoulder	Clarity	4
A05.5	Add reference to AASHTO design criteria Clarify 100’ tangent between horizontal and vertical curves Decrease maximum grade within 50 feet of a controlled intersection approach, clarify wording Add Residential Subcollector Street Typical Section	Clarity Clarity Safety, consistent with driveway standards Moved from Appendix A, updated to reflect these changes, clarity	2 4 4, 7 4, 16

Section	What	Why	Assembly Resolution 17-003 Task
A05.6	Reword cul-de-sac description	Clarity	4
A06.1	Add "topographical and physical constraints" to allowance for residential frontage	To clarify what makes 'no residential frontage' not possible	4
	Increase minimum frontage to 200 feet	To space out driveways	14
	Clarify Percent of Allowable Frontage table	To define an allowable frontage for ADTs less than 1000	4
A06.3	Clarify gravel shoulder	Clarity	4
A06.5	Add reference to AASHTO design criteria	Clarity	2
	Clarify 100' tangent between horizontal and vertical curves	Clarity	4
	Add Residential Collector Street Typical Section	Moved from Appendix A, updated to reflect these changes, clarity	4, 16
	Delete Sample Layout figure	Confusing, doesn't add anything	4
A07.1	Clarify where alleys are allowed	Collectors are not appropriate due to frontage limitations	4
A08.2	Clarify wording for maximum grades near intersections	Clarity	4, 10
	Add Mountain Access Road Typical Section	Moved from Appendix A, updated to reflect these changes, clarity	4, 16
A09	Change subsection name from Access Roads to Pioneer Roads	Clarity	4, 10
A09.1	Delete "waiver subdivisions", add "where allowed by the current subdivision code"	Clarity	4, 10
	Move construction requirements to Section C	Clarity	4, 10
A09.2	Add subsection for Engineering Criteria, refer to Residential street standards	Clarity	4, 10
	Add Pioneer Road Typical Section	Moved from Appendix A, updated to reflect these changes, clarity	4, 10, 16
A11	Definition of stub street added to front	Clarity	4, 9
A11.2	Add "to undeveloped parcels" for collector stub streets	Clarify need for Residential Collector standard stub streets to undeveloped parcels (with no other access) for future development	4, 9
A11.3	Change constructed turnaround from 80' diameter to a turnaround meeting the standards of that class of street	Allows for t-turnaround on residential and requires 85' diameter on residential Subcollectors	4, 7, 9
	Change 100 to 120 foot diameter turnaround easement	Per Title 43	4, 12
A13.1	Add allowance for alternate intersection control	Clarity	4, 7
	Update figure	Hard to read, doesn't label lettered dimensions as referred to in the text	4, 7
	Clarify greater of design or posted speed limits in the table	Clarity	4, 7
	Update minimum sight distance in the table	Consistent with AASHTO standards	2, 4, 7
	Add conditions for when less than desirable or less than minimum sight distances can be used	Clarity	2, 4, 7
A13.2	Corner radii determined by the highest class of street at the intersection	Clarity	4, 7
A13.3	Delete "Four way intersections shall be minimized"	4-way intersections are often more desirable than multiple 3-way intersections	2, 4, 7
	Add 650' spacing on higher class roads with a provision for less when preexisting conditions do not allow	Staff often has no standard to apply for Major Collectors, Minor Arterials, etc, or they MSB standards are inconsistent with DOT's standards.	2, 4, 7
A13.5	Add subsection to require a paved apron when connecting to an existing paved road	Existing policy	7
A14.1	Increase ROW widths to 60'	ROW width set by Title 43	4, 12

Section	What	Why	Assembly Resolution 17-003 Task
A15.1	Change “corner lots” to “lots bordered by multiple streets” Add provision for variance authorized by permitting authority Limit lots with 50’ of frontage to 1 driveway Update driveway standards Add requirement for a 2’ paved apron on paved roads Driveway permit removed from Appendix A, add link to driveway permit page	Clarity To allow flexibility for things such as topography, land use, etc State standard Per current driveway permit Per current driveway permit Update to current driveway permit	4, 14 14 14 14 14 14
A15.2	Change subsection title to include non-residential driveways	Clarity	4, 14
	Replace 1000 ADT with 500 ADT	Inconsistent with street classifications	4, 14
A16.1	Remove multiple, conflicting references to MUTCD and Alaska Traffic Manual	Clarity	2, 4
A16.2	Add sign installation standards	Per current policy and Alaska Traffic Manual	2, 4
A17	Update trip generation rate	Consistent with ITE Standards	1, 2, 11
Section B	Rename section “Major Road Corridors”	Consistent with Title 43	4
B01	Delete reference to 1986 MSB Construction Manual	Not current	4
B02	Change pavement width to standard lane width, update shoulder width	Consistent with FHWA standards	2, 4
B03	Change all instances of “Comprehensive Development Plan: Transportation” to the LRTP and OS&HP	Clarity	4
C01.1	Delete provision for slit trenching	Current policy	4
C01.2	Add provision to remove all organics below the road prism Change road embankment material from “NFS” to specified criteria Change road topping from 3” minus to 1.5” minus Add crown slope requirement for gravel roads Add provision to substitute road topping with pavement Change entire road prism to be compacted to 95% Allow for oversize rocks to be trackwalked into backslope	From typical sections Criteria consistent with AKDOT&PF’s Selected Material Type B Maintenance contracts require a 2” minus surface; 3” minus is rough and dusty, 1.5” minus is similar to a screened version of ADOT&PF’s E-1 From typical sections Current policy Industry standard consistent with AKDOT&PF’s Standard Specifications Current policy	2, 4 2, 4 2, 4 4 4 2, 4 4
C01.3	Add requirement for geotextile separation fabric	Industry standard	4
C01.4	Insert subsection for Pioneer Road Construction Requirements	Moved from A09	4, 10
C01.5	Extend inspection window to October 31 st	Clarity	8
C03	Update figure, remove section line easement	Parking not allowed in section line easements	2, 4
D01	Change “topographic map” to “drainage plan” Add mapping standards for contours Change “drainage swales” to “existing drainage patterns” Add provision for drainage improvements to not adversely impact adjacent property or ROW, runoff retained on-site or routed to a drainage course or ditch capable of handling the runoff	Clarity Clarity Clarity Carryover from No Engineer Left Behind, stormwater best management practice, supported by MSB Stormwater Management Plan	4 2, 4 4 2, 4

Section	What	Why	Assembly Resolution 17-003 Task
D02	Add "Normal ditch depth shall be 30 inches" which can be reduced with DPW approval	From table in A03.1	4, 5
	Remove provision for driveway swales	Current policy. Driveway swales require costly additional maintenance (which this manual intends to avoid) and are very difficult to make work in Alaska.	4, 5
	Change minimum driveway culvert size to 12", require metal	Current policy.	4, 5
	Allow for 18" cross culverts	Current policy	4, 5
D03	Add requirement for plan submittal to DPW	Current policy	4, 5
D03.1	Add dynamic stability definition	Clarity	4, 5
	Change "baffles" to "sills"		
	Add provision for crossings with high entrenchment		
	Delete allowance for smooth walled pipes		
D03.2	Add provision for culvert slope	Clarity	4, 5
	Add specifications for low flow channel, substrate material, and in-culvert constructed channels		
	Change hydraulic method designed culverts to a separate subsection		
E01	Update links to more information	Current policy	4, 8
	Clarify hydraulically designed culverts must meet fish passage criteria 90%		
E01	Add "the engineer will be the spokesperson for the developer throughout the process"	Current policy	4, 8
E01.1	Reorganize	Clarity	4
E01.2	Delete section and add requirement for submittal of plans outside the scope of the manual, conforming to ADOT&PF standards	Current policy	4, 8
E01.3	Delete section and add purpose, timeline, attendance, and submittal requirements	Current policy	4, 8
E01.4	Add requirement for developer's engineer to supervise all phases of construction, any changes require approval from all parties	Current policy	4, 8
E01.5	Add subsection for Final Report. Add timeline, submittal requirements	Current policy, clarify timeline	4, 8
E01.6	Add timeline and process for final inspection	Current policy, clarify timeline	4, 8
E01.7	Add subsection for Warranty. Add timeline, process, developer's maintenance requirements.	Current policy, clarify timeline	4, 8
Section F	Delete section	Subdivision agreements addressed in Title 43	4, 8
Section H	Delete section	Inspection fees set by Assembly	4, 8
I01	Add reference to Title 11	Current policy	4, 6
	Change preferred utility location from ROW to utility easement		
I01.1	Add requirement for encroachment permits from MSB		
	Clarify parallel utility location restrictions	Current policy	4, 6
	Add above ground utility location restrictions, requirements	Current policy	4, 6
	Add Location for Utilities Inside ROW figure	Moved from Appendix A, updated with current policy	4, 6, 16
References	Add reference section	Clarity	2, 4
Appendix A	Update and move figures into body of text	To reflect changes to the manual, clarity	4, 16
	Delete driveway permit	Out of date, link is provided in A15	14

