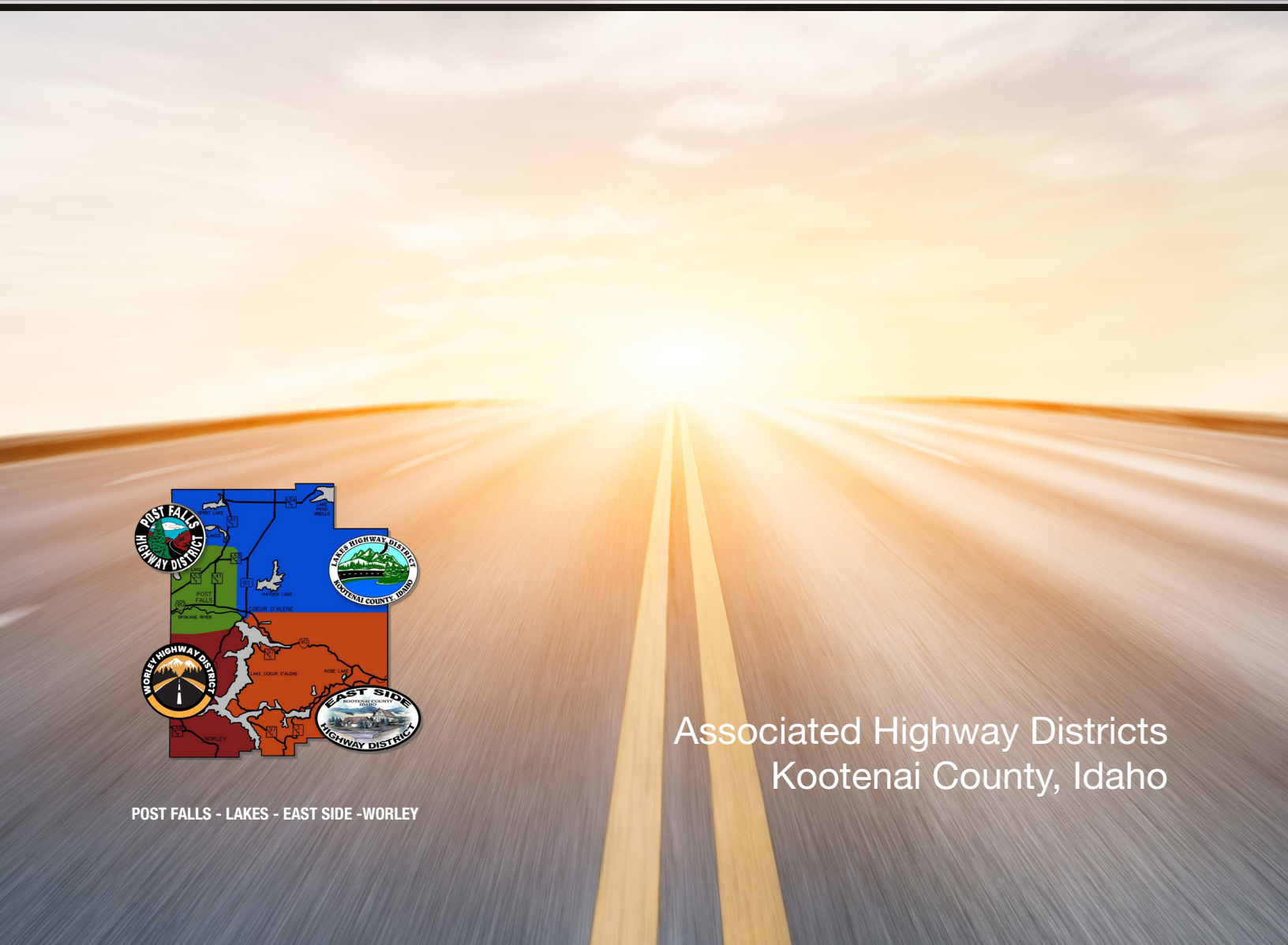
Minimum Testing Requirements



POST FALLS - LAKES - EAST SIDE -WORLEY

Associated Highway Districts
Kootenai County, Idaho

MINIMUM TESTING REQUIREMENTS

Item or Material	Qualifier	Test Type	Test Method or Reference	Minimum Acceptance Criteria	Minimum Testing Frequency
Top 12 inches of Subgrade	Material is not too granular to test	Compaction	AASHTO T 310	95 percent AASHTO T 180 95 percent Idaho T 74	1 test per each 300 linear feet per lane of roadway.
	Material is too granular to test to test	Compaction	See Note	Lift Thickness and Minimum Passes Specified	Observation
Crushed Aggregate	None	Compaction	AASHTO T 310	95 percent AASHTO T 180 95 percent Idaho T 74	1 test per lift per each 300 linear feet per lane of roadway
	None	Sampling	AASHTO T 2	Samples meet specified requirements for gradation, LA Abrasion, sand equivalency, and fractured faces.	1 sample per each 1,000 tons delivered to the jobsite Minimum once per project
Plant Mix HMA	None	Sampling	AASHTO T 308	Samples meet specified requirements for asphalt cement content and gradation	1 sample per 750 tons produced or fraction thereof. Minimum 1 sample per day
In-Place Plant Mix HMA	Acceptance by cores	Compaction Testing	AASHTO T 166	92.0 to 97.0 percent of AASHTO T 209	Randomly at one core per 300' per lane of roadway and 1 12 inches from joints. Not required for plant mix leveling course or temporary pavement
	Acceptance by correlated nuclear densometer.	Compaction Correlation	WAQTC TMB/ AASHTO T 166	None	1 core for every 5 density tests performed, but not less than 3 cores per project. Not required for plant mix leveling course or temporary pavement.
		Compaction Testing	WAQTC T M8	91.0 to 96.0 percent of AASHTO T 209	Randomly at 1 test per 100 linear feet per lane of roadway and 12 inches from joints
Road Mix Aggregates	None	Sampling	AASHTO T 2	Samples meet requirements for gradation, sand equivalency, and fractured faces	1 sample for each 700 cubic yards or 1,000 tons of mix produced
In-Place Plant Mix HMA	None	Smoothness	Idaho IR 87	0.25 inches in 10 feet	Randomly

Note: Method Specification for Compaction - Material Too Granular to Test

a. Construct emabankments with material too granular to test by AASHTO T-99 or Idaho Method IT-74 in horizontal layers no thicker than outlined below unless otherwise permitted. Distribute large rocks evenly and fill the voids between them with smaller rock and/or earth. Also, provide adequate water to facilitate compaction

b. Compaction 18 inches or less below roadbed: Place material in lift thicknesses of 9 inches or less and uniformly compact each layer with a minimum of 12 full coverages using a vibratory roller meeting the requirements outlined below. Vibratory rolling requirements may be reduced 1 coverage for each increase of 5,000 pounds per impact above the specified minimum. In no case shall less than 6 full coverages for each 9 inch lift, or fraction thereof be allowed.

c. Compaction more than 18 inches below roadbed: Place material in lift thicknesses of 18 inches or less and uniformly compact each layer with a minimum of 3 full coverages for each 6 inches of lift thicknesses or fraction thereof using rollers meeting the requirements outlined below. Rolling requirements may be reduced 1 coverage for each increase of 5,000 pounds per impact for vibratory rollers or 1,000 pounds/foot drum width for grid rollers. In no case shall less than 1 full coverage for each 6 inches of lift, or fraction thereof, be allowed.

d. Vibratory rollers having a rated dynamic force of 30,000 pounds per impact and at least 1000 vibrations/minute.

e. Grid rollers having a static weight of at least 20,000 pounds and 4,000 pounds/foot of drum width.

f. Limit the speed of grid rollers to no more than 4 mph and the speed of vibratory rollers to no more than 1.5 mph.