



WBR Virtual Series: Trail Maintenance: Planning for Long-Term Project Success:  
Maintenance Needs and Costs from Concept through Implementation

1. Does maintenance include snow removal, and does ADA have requirements related to clearing sidewalks/trails of snow and ice?
  - a. Casey – I’m unsure about ADA, Manhattan has city ordinances that hardened surfaces/sidewalks have to be cleared by adjacent owner within 24 hours of snow/ice event. Code services monitors this as well. Try to make this a standard, including trail areas. We want to get them clear before we get footprints in the snow. Usually follow up in the following days after snow to clear any bad spots. More of a city code situation in Manhattan.
  - b. Regarding ADA and snow, see the [FHWA frequently asked questions](#) for more information. The FHWA answer includes a citation as well. The [FHWA sidewalk maintenance guide](#) also includes information on how the ADA applies to snow and ice clearance.
2. What is fog sealing?
  - a. Casey – Applying a sealant product on an asphalt surface, more of a “micro-seal”, where they have a liquid product that rejuvenates the surface, filling in small cracks, voids, and divots. Sometimes have a sand or some type of aggregate in addition to the liquid.
    - i. For concrete, unsure about possible sealant.
3. Casey, What thickness of concrete edge is used at the Anneberg trail in the areas that were impacted by flooding?
  - a. Casey – I believe 12 inches on both sides. It is under design currently. Floods scour the top of the trail and take of that screening surface. Hoping this number will not undercut on either side of the trail.
4. Is AB3 considered "self-compacting aggregate"? If not, what is the material composition?
  - a. Casey – I would consider AB3 as a self-compacting, more of a base for us. AB3 is ¾ inch rock all the way down to fines. City typically would use this as a base of 4 or 5-inches, then put a 3-inch top dress of limestone screening on top. Recent levee we are plugging in magnesium chloride as a binder on the top surface. We use this from State of KS spec. we have done tests on our own from liquid treatment. This pug material is probably going to be our long-term answer for a self-compacting aggregate.
5. Volunteers are wonderful! However, how do you "manage" them when they are assisting? Do you train them if necessary?
  - a. Emily – Volunteer agreements, when there are resources to have an agreement in place, require trainings, especially if using power tools, this can be important. It shows something that you give towards the volunteer who is offering up a lot of their time, it is nice to provide training.



- b. Casey – City of Manhattan uses volunteers for trash pickup, deep leaf cleaning. City has a volunteer group the focuses on single-track development, have done a lot of single-track trails in the community with city support.
  - i. Have not formalized a trail stewardship program, I hope to do this in the future, including power tool training.
  - ii. KS has several private groups as well as KS trail council, use them as a partner on many things, primarily training in Manhattan.