

**Trails at Crowfoot Filing 9 Probationary Storm Punchlist #2**  
**1/19/22**

The following items must be addressed prior to probationary approval for the stormwater infrastructure on site.

1. Provide CCTV of all storm sewer less than 42-inches in size.
2. Provide Town standard manhole covers for all storm sewer structures.
3. Jet and clean all structures and storm sewer along Alpine Phlox and for the system downstream of MH 171.
4. Inlet 101& Inlet 102: Provide 2 steps.
5. Inlet 54: Epoxy grout cold joint smooth with structure wall. Provide 4 steps.
6. MH 80: Epoxy grout between cover and riser rings.
7. MH 105: Chip out grout in penetration toward MH 171.
8. MH 171: Provide concrete collar and bollard.
9. Inlet 4 & Inlet 6: Provide grate and grate restraints. Clean up the grout in the penetrations. Add steps.
10. Inlet 104: Clean up grout in penetration toward MH 90 and grout flush with inlet wall. Epoxy grout first joint towards MH 90. Cut underdrain penetration flush with inlet wall and epoxy grout penetration flush with inlet wall. Clean the system downstream of this inlet.
11. MH 60: Add steps. Replace lid with Town standard cover. Cut underdrain flush with structure wall and epoxy grout penetration flush with wall.
12. MH 90: Add steps. Epoxy grout voids in honeycombed concrete. Refinish cover ring grout.
13. MH 59: Replace lid with Town standard cover. Add steps. Grout first joint toward MH 60.
14. MH 58: Replace lid with Town standard cover. Add 1 bottom step. Epoxy grout first joint toward MH 59.
15. Inlet 45: Cut underdrain flush with inlet wall and epoxy grout the penetration flush with the inlet wall. Pull form nails left in structure. Grout penetration to MH 60 flush with inlet wall.
16. MH 62: Add steps. Structure was noted to be catching a significant amount of debris along the channel edge just above the spring line of the pipe penetrations. Grout structure smooth to above spring line of the pipes to avoid potential sediment and debris collection. Epoxy grout first joint toward MH 60.
17. MH 63: Add 1 bottom step.
18. MH 56: Add 1 bottom step. Provide concrete collars for the first two joints towards MH 55 and for the first joint toward MH 57.
19. MH 54: Replace lid with Town standard cover. Grout over exposed rebar at penetration to MH 53 and in the barrel section behind the steps.
20. MH 52: Epoxy grout over exposed rebar. Epoxy grout second joint towards MH 51.
21. MH 51: Add 3 steps.
22. Inlet 65: Clean up grout in invert at penetration. Add 1 step on south inlet wall.
23. MH 156: Add one step.
24. MH 40: Replace lid with Town standard cover. Gaps noted between manhole base and flat top lid due to unlevel base. Signs of honeycombing also noted in the base of the structure. Pull off the flat top lid and inspect the structure for additional signs of honeycombing. If additional signs of honeycombing are noted, replace the base of the structure. If additional signs of honeycombing are not noted, epoxy grout over all voids in structure and level the top of the base with epoxy grout before replacing the flat top lid.
25. MH 542: Replace lid with Town standard cover. Remove and replace base due to voids noted in concrete. When replacing the base ensure top of base is level to provide an adequate seal with the gasket when placing the flat top lid.
26. MH 41: Clean excess concrete out of invert. Fill voids between flat top and base with ramneq and then epoxy grout over the joint between the two.
27. MH 42: Remove and replace base due to voids noted in concrete. When replacing the base ensure top of base is level to provide an adequate seal with the gasket when placing the flat top lid.

28. MH 43: Gaps noted between manhole base and flat top lid due to unlevel base. Signs of honeycombing also noted in the base of the structure. Pull off the flat top lid and inspect the structure for additional signs of honeycombing. If additional signs of honeycombing are noted, replace the base of the structure. If additional signs of honeycombing are not noted, epoxy grout over all voids in structure and level the top of the base with epoxy grout before replacing the flat top lid.
29. MH 158: Epoxy grout voids noted in concrete base at steps.
30. MH 45: Gaps noted between manhole base and flat top lid due to unlevel base. Signs of honeycombing also noted in the base of the structure. Pull off the flat top lid and inspect the structure for additional signs of honeycombing. If additional signs of honeycombing are noted, replace the base of the structure. If additional signs of honeycombing are not noted, epoxy grout over all voids in structure and level the top of the base with epoxy grout before replacing the flat top lid.
31. MH 157: Gaps noted between manhole base and flat top lid due to unlevel base. Signs of honeycombing also noted in the base of the structure. Pull off the flat top lid and inspect the structure for additional signs of honeycombing. If additional signs of honeycombing are noted, replace the base of the structure. If additional signs of honeycombing are not noted, epoxy grout over all voids in structure and level the top of the base with epoxy grout before replacing the flat top lid.
32. MH 46: Epoxy grout between base and flat top lid.
33. MH 47: Add 1 bottom step.
34. MH 48: Gasket not properly seated between base and flat top. Remove and reset flat top lid so that the gasket is properly seated between the two.
35. MH 49: Gaps noted between manhole base and flat top lid due to unlevel base. Signs of honeycombing also noted in the base of the structure. Pull off the flat top lid and inspect the structure for additional signs of honeycombing. If additional signs of honeycombing are noted, replace the base of the structure. If additional signs of honeycombing are not noted, epoxy grout over all voids in structure and level the top of the base with epoxy grout before replacing the flat top lid.
36. Clean out sediment and debris in Pond C Forebay 4 and Forebay 5. Repair broken baffle block in Forebay 4 once cleaning is complete. Please note any sediment removed must not be placed back into the pond and should be either removed from site or used as fill in another location.

The following items will be monitored through Filings 10 and 11.

1. All manhole structures built with Filing 9 which fall within the Filing 10 and Filing 11 roadway paving areas will be monitored through the completion of those respective filings to ensure cover rings are appropriately raised and grouted.
2. MH 55: Two cracks noted in the barrel section. Barrel section will be monitored prior to paving and post paving to ensure integrity of the structure is not compromised.