

## **Shoddy Mill Road Drainage Maintenance & Upgrades**

**Page 1 shows;** replacing cross culvert between property #43 & #46 and adding new catch basins and drainage (in blue).

Note: that it also shows stubbing out for future drainage connection to Birch Road which will eventually eliminate the drainage runoff behind property #46

**Page 2 shows;** the drainage water course (lay of the land) between properties #46 & #40 (in blue).

Note: that all this water currently works its way down and discharges onto the roadway flowing down hill to a catch basin below (**see page 3**) in front of property #40. This direct discharge on the roadway has been a maintenance burden to our department and historically has always caused an icing problem in the winter.

### **Page 3;**

Part 1, shows the area in which we want to redirect the two water courses that flow from properties #40 & #34 Shoddy Mill Rd and #35 Birch Rd combining them to a new plunge pool (pink area) off road piping to just behind the existing catch basin (catch basin is to be replaced).

Part 2, shows the discharge area of driveway culvert that needs sediment build up to be removed (pink dashed area).

Note: the water course from property #40 will be redirected by creating a swale (starting at the high side), digging a ditch and building a berm just off the edge of road and arming the berm with riprap to prevent future erosion flowing to the new plunge pool. The water course from #35 Birch and #34 Shoddy will be collected at the new plunge pool collecting most of the water before it crosses under the driveway at property #34 ultimately limiting the amount of water that eventually flows along property #23.

**Page 4 shows;** a new catch basin to be installed and a deflection of the waterway on the discharge side. The deflection (pink area) is needed to redirect the water further away from property #23. This can be achieved by digging a trench, building a berm to the low side and arming the berm with riprap to prevent future erosion.















