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University of Georgia, Office 605, Athens, GA 30602. *The formal neighborhood of a Liouville  
divisor*. Preliminary report.

For a stopped Liouville manifold coming from a Liouville sector, we introduce a symplectic analogue of the formal neighborhood of the stop. This construction can be performed in two ways: 1) via new types of Fukaya categories using variants of Floer theory on a Liouville sector, or 2) via a purely categorical construction of the formal neighborhood from the partially wrapped Fukaya category. Our main result shows that the two approaches are equivalent. Under homological mirror symmetry for pairs, this is mirror to the formal neighborhood of a divisor in an ambient projective variety. (Received September 19, 2021)