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Resolution except for minimal singularities

Can we find the smallest class of singularities \mathcal{S} with the following properties:

- (1) \mathcal{S} includes all normal-crossings singularities;
- (2) every reduced variety X admits a birational morphism $\sigma: X' \rightarrow X$ such that X' has only singularities in \mathcal{S} , and σ is an isomorphism over the locus of points of X having only singularities in \mathcal{S} ?

I will address this question which has been raised by János Kollár.