

3. Through discussions with others and review of the literature, the following secondary and cumulative impacts have been suggested. Do you agree that these are secondary and cumulative impacts, disagree that these are secondary and cumulative impacts, or have no comment regarding these potential secondary and cumulative impacts to areas outside the right-of-way? (Place an “X” in the appropriate box.) Please add rows for issues that are not included

| Agree | Disagree | No Opinion | Issue |
|-------|----------|------------|---|
| | | | Conversion of land use from native land to agriculture. |
| | | | Conversion of land use from agriculture to higher density or urban use. |
| | | | Conversion of land use native land to higher density or urban use. |
| | | | Splitting of neighborhoods. |
| | | | Splitting of downtowns. |
| | | | Creation of interstate hubs |
| | | | Water quality impacts to wetlands |
| | | | Water quality impacts to surface water features (e.g. creeks and lakes) |
| | | | Water quality impacts to designated waters (e.g. aquatic preserves) |
| | | | Water quantity impacts to wetlands |
| | | | Water quantity impacts to surface water features |
| | | | Water quantity impacts to designated waters (e.g. aquatic preserves) |
| | | | Severing of watersheds |
| | | | Disruption of sheetflow |
| | | | Rerouting of creeks or rivers |
| | | | Hardening of creek or river bottoms |
| | | | Severing a listed species territory |
| | | | Removing the edge of a listed species territory |
| | | | Listed species movement (e.g. bear, panther, fox squirrel) |
| | | | Disturbance to wildlife movement |
| | | | Street lighting impacts to wildlife |
| | | | Road kill (listed species) |
| | | | Road kill (non-listed species) |
| | | | Spread of exotic flora (e.g. Melaleuca) |
| | | | Spread of exotic fauna |
| | | | Elimination of trees at post-construction for clear zone expansion. |
| | | | Noise impacts to humans |
| | | | Noise impacts to wildlife |
| | | | Vibration during construction |
| | | | Blasting during construction |
| | | | Nitrous oxide emissions |
| | | | Carbon monoxide emissions |
| | | | Hydrocarbon emissions |
| | | | Particulate emissions at construction |
| | | | Litter along the road |
| | | | Dumping at road termini |
| | | | Human waste along the road |
| | | | Restricting fire management |
| | | | Creation of off-road vehicle access |
| | | | Borrow-pit creation |
| | | | Asphalt plant creation, (“temporary” and otherwise) |
| | | | Utilities expansion |
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4. Through discussions with others and review of the literature, the following **geographic areas** have been suggested for each of the above issues. Do you agree, disagree, or have a better alternative regarding these potential geographic areas? Please add rows for issues that are not included.

| Agree | Disagree | Issue | Geographic Area | Better Alternative |
|-------|----------|---|---|--------------------|
| | | Conversion from native land to agriculture. | ½ mile from 2 lane roads | |
| | | Conversion from native land to agriculture. | 2 miles from 4-lane roads | |
| | | Conversion from agriculture to higher density or urban use. | ½ mile from 2 lane roads | |
| | | Conversion from agriculture to higher density or urban use. | 2 miles from 4-lane roads | |
| | | Conversion native land to higher density or urban use. | ½ mile from 2 lane roads | |
| | | Conversion native land to higher density or urban use. | 2 miles from 4-lane roads | |
| | | Splitting of neighborhoods. | Defined neighborhood | |
| | | Splitting of downtowns. | Central business district | |
| | | Creation of interstate hubs | 1 mile radius from interchange | |
| | | Water quality impacts to wetlands | 100' for each 1' depth of roadway ditch | |
| | | Water quality impacts to wetlands | Jurisdictional connection | |
| | | Water quality impacts to surface water features | Legally defined watershed | |
| | | Water quality impacts to surface water features | Legally defined basin | |
| | | Water quality impacts to surface water features | Legally defined sub-basin | |
| | | Water quality impacts to designated waters | Legally defined watershed | |
| | | Water quality impacts to designated waters | Legally defined basin | |
| | | Water quality impacts to designated waters | Legally defined sub-basin | |
| | | Water quantity impacts to wetlands | 100' for each 1' depth of roadway ditch | |
| | | Water quantity impacts to surface water features | Legally defined watershed | |
| | | Water quantity impacts to surface water features | Legally defined basin | |
| | | Water quantity impacts to surface water features | Legally defined sub-basin | |
| | | Water quantity impacts to designated waters | Legally defined watershed | |
| | | Water quantity impacts to designated waters | Legally defined basin | |
| | | Water quantity impacts to designated waters | Legally defined sub-basin | |
| | | Severing of watersheds | Watershed | |
| | | Disruption of sheetflow | Watershed | |
| | | Disruption of sheetflow | Basin | |
| | | Disruption of sheetflow | Sub-basin | |
| | | Rerouting of creeks or rivers | Subject creek or river | |
| | | Rerouting of creeks or rivers | Creek or river, downstream | |
| | | Hardening of creek or river bottoms | Area of hardening | |
| | | Hardening of creek or river bottoms | Area of hardening and downstream | |
| | | Severing a listed species territory | Contiguous habitat | |

| Agree | Disagree | Issue | Geographic Area | Better Alternative |
|-------|----------|---|--|--------------------|
| | | Removing the edge of a listed species territory | Contiguous habitat | |
| | | Listed species movement | Contiguous habitat | |
| | | Listed species movement | FWC/USFWS metapopulation standards | |
| | | Disturbance to wildlife movement | Contiguous habitat | |
| | | Street lighting impacts to wildlife | Lighting calculations | |
| | | Road kill (listed species) | Area of interbreeding population | |
| | | Road kill (non-listed species) | Area of interbreeding population | |
| | | Spread of exotic flora (e.g. Melaleuca) | Contiguous disturbed area | |
| | | Spread of exotic fauna | Contiguous disturbed area | |
| | | Elimination of trees at post-construction for clear zone expansion. | Road right-of-way | |
| | | Noise | Calculations | |
| | | Vibration during construction | Calculations | |
| | | Blasting during construction | Calculations | |
| | | Nitrous oxide emissions | Air shed | |
| | | Carbon monoxide emissions | Air shed | |
| | | Hydrocarbon emissions | Air shed | |
| | | Particulate emissions at construction | Air shed | |
| | | Litter | ¼ mile | |
| | | Dumping | Edge of road | |
| | | Human waste | Right-of-way | |
| | | Restricting fire management | Contiguous public management land | |
| | | Creation of off-road vehicle access | Contiguous unfenced, uncontrolled land | |
| | | Borrow-pit creation | Closest burrow pits + proposals | |
| | | Asphalt plant creation, (“temporary” and otherwise) | Proposed locations | |
| | | Utility expansion | Road right-of-way + utility easements | |
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5. What is the difference between a secondary and cumulative impact?

6. On projects of multiple funding, implementation, and maintenance partnerships, who is responsible for mitigating secondary and cumulative impacts? FDOT, sponsoring local government or private funding agency (e.g. developer)?

7. Are there other questions that should be asked? What are they?
