

DESIGN OPTIONS CONSIDERED – EXHIBIT 2 of 2

FINAL SCREENING

The four alternatives were further screened qualitatively to further minimize the impacts. The screening process eliminated Alternatives 2d and 3d due to heavy impacts to individual residences, subdivision properties and existing ponds between Tylersville Road to Bethany Road.

The feasible alternatives selected after the secondary round of screening are as follows:

1. **Alternate 1d – Tylersville Road to Hampton Court** – 11 foot lanes, five lane section; **Hampton Court to Bethany Road** – four lane section with left turn lanes
2. **Alternate 4d – Tylersville Road to Hampton Court** – 11 foot lanes, five lane section; **Hampton Court to Bethany Road** – four lane section with left turn lanes

The feasible options were further screened both qualitatively and quantitatively.

The advantages and disadvantages of the final feasible alternatives are shown on the Summary of Feasible Alternatives Table. Maintenance of traffic, proposed drainage and utility impacts are similar for both the options and hence they are not listed in the Summary of Feasible Alternatives Table. Advantages and disadvantages are similar for both the options; however, the impacts to the mounds and the existing right-of-way (ROW) between Hamilton-Mason Road and Hampton Court subdivision entrance and between Heritage Club subdivision entrance and Bethany Road is more for Alternate 1d than for Alternate 4d. The impacts to the sanitary pump station can be eliminated in Alternate 4d. **Based on the advantages of Alternate 4d compared to Alternate 1d, Alternate 4d emerged as the preferred alternate.**

FINAL SUMMARY OF FEASIBLE ALTERNATIVES TABLE

ALTERNATE	ADVANTAGES	DISADVANTAGES
Alternate 1d	<ul style="list-style-type: none"> • Equal impacts to both the park property and the residential properties • Minimal impacts to the landscaping mounds between Hamilton-Mason Road and Bethany Road • Minimal impacts to the existing wetlands – 0.041 acres • Minimal impacts to the existing streams – 324 feet 	<ul style="list-style-type: none"> • Needs a design exception from Hamilton-Mason Road to Bethany Road for shoulder width (normal design criteria = 4 feet, provided 2 feet) • More impacts to the subdivision mounds between Hamilton-Mason Road and Hampton Court subdivision entrance and between Four Bridges subdivision entrance and Bethany Road • Impact to the existing sanitary pump station located on the southwest quadrant of the Butler Warren Road and Bethany Road Intersection
Alternate 4d	<ul style="list-style-type: none"> • More impacts to the park property compared to Alternate 1d • Impacts are less to residential properties compared to Alternate 1d • Impacts are less to the existing mounds between Hamilton-Mason Road and Hampton Court subdivision entrance and between Four Bridges subdivision entrance and Bethany Road compared to Alternate 1d • No impacts to the existing sanitary pump station located on the southwest quadrant of Butler Warren Road and Bethany Road intersection • Minimal impacts to the existing wetlands – 0.043 acres • Minimal impacts to the existing streams – 333 feet 	<ul style="list-style-type: none"> • Needs a design exception from Hamilton-Mason Road to Bethany Road for shoulder width (normal design criteria = 4 feet, provided 2 feet)

