

# **POND SITING REPORT**

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## ***EXECUTIVE SUMMARY***

- ❑ *Summary of Section 1.0 & 2.0.*
- ❑ *Specify datum used in the design calculations and the construction plans.*
- ❑ *Preferred pond alternatives and anticipated right of way requirements*

## ***SECTION 1.0 – INTRODUCTION***

- ❑ *Brief description of the intent of the report.*

## ***SECTION 2.0 – PROJECT DESCRIPTION***

- ❑ *Overall project location (county, city, section/township/range, Turnpike milepost, etc.)*
- ❑ *Include maps; such as, vicinity map and USGS quadrangle map.*
- ❑ *Datum used for this project. Provide conversion if appropriate. Design and construction anticipated dates if known*

## ***SECTION 3.0 – DATA COLLECTION***

- ❑ *List sources of information.*

## ***SECTION 4.0 – DESIGN CRITERIA***

- ❑ *Describe all stormwater and environmental permits (state, local, etc.) needed to construct this project.*
- ❑ *Describe water quality and quantity criteria applicable to this project.*
- ❑ *Summarize drainage criteria specific to this project, including special basin criteria, OFW, and TMDL requirements.*

## ***SECTION 5.0 – ENVIRONMENTAL LOOK AROUND***

- ❑ *Describe what regional stakeholders were contacted and what opportunities were evaluated based on this coordination (See FDOT Drainage Manual Chapter 5.3 for more information). Include backup documentation supporting the environmental look around evaluation.*
- ❑ *Include any meeting minutes in the Appendix.*

- *Include any project wide opportunity discussion in this section, but if opportunities only presented themselves within specific basins, describe these opportunities in Section 9.*

## **SECTION 6.0 – EXISTING & PROPOSED CONDITIONS**

### **6.1 Existing Drainage Conditions.**

- *General drainage patterns of the vicinity of the project.*
- *Address offsite areas draining towards the Turnpike R/W.*
- *Review KMZ file containing Drainage Connection Permits for projects that discharge to the project's right-of-way.*
- *Describe if project is in open or closed basins.*
- *Brief description of receiving water bodies and their classification (OFW, etc).*
- *Brief description of number of drainage basins with their respective outfalls.*
- *Existing stormwater management system.*

*For each basin include the following:*

- *Basin name.*
- *Begin and end stationing.*
- *Existing drainage patterns.*
- *Ultimate outfall location.*
- *Identify offsite areas draining towards the road and how offsite runoff is currently conveyed through the project.*
- *Existing and provided water quality, if applicable.*
- *Previous permit information.*
- *Existing stormwater management system.*

### **6.2 Proposed Drainage Conditions.**

- *Brief description of number of drainage basins with their respective outfall.*
- *Recommended stormwater management system.*

*For each basin include:*

- *Basin name.*
- *Begin and end stationing.*
- *Proposed drainage patterns (ditches, swales, etc.).*
- *Ultimate outfall point and approximate tailwater elevation.*
- *Identify offsite areas draining towards the road and describe how it is to be conveyed through the project.*
- *Required and provided water quality.*
- *Recommended stormwater management system.*
- *If compensating or over treatment to be used, provide detailed description of area of new impervious not being treated, area of existing pavement to be treated, etc.*
- *Approximate low edge of pavement and bottom of base elevation.*
- *Soil types (suggest including Soils Map with pond alternatives identified)*

## **SECTION 7.0 – FLOODPLAIN & ENVIRONMENTAL INFORMATION**

- ❑ *Describe if the project impacts adjacent floodplain areas. If so, quantify and describe how it is being mitigated.*
- ❑ *Include FEMA map with pond alternatives identified.*
- ❑ *Include tables as necessary.*
- ❑ *Statement describing how impacts have been avoided or minimized.*
- ❑ *Describe where compensation is to occur.*
- ❑ *Describe environmental conditions for the project. Include documentation quantifying potential wetland/surface water impacts, species, cultural resources, and contamination.*
- ❑ *Include wetland limit map with pond alternatives identified.*

## **SECTION 8.0 – STORMWATER PONDS**

- ❑ *Pond Sizing and Location Considerations*
  - *Identify all FDOT-owned parcels along the project corridor*
  - *Identify potential for joint-use ponds and/or regional opportunities*
- ❑ *Analysis Performed*
- ❑ *Seasonal High Water Levels*
- ❑ *Treatment and Attenuation Volumes*

## **SECTION 9.0 – RESULTS**

- ❑ *Brief description of results to include which sites/opportunities were evaluated and documentation for the recommended pond site within each basin.*
- ❑ *Pond site evaluation should include:*
  - *Pond site/Stormwater Alternative name*
  - *Pond site/Stormwater Alternative location*
  - *Pond size required at tie down locations*
  - *Parcel(s) required for acquisition*
  - *Opportunities from the environmental look around*
  - *FEMA flood zone*
  - *Wetland impacts*
  - *Listed species impacts*
  - *Contamination*
  - *Cultural Resources (Archeological and Historical)*
  - *Social impacts*
  - *Other environmental impacts*
  - *Utility conflicts*
  - *Construction/Maintenance concerns*
  - *Public Opinion*
  - *Aesthetics*
  - *Current land use zoning*
  - *Future land use zoning*

- *Total cost of each alternative (Special Estimates provided by FDOT Right-of-Way personnel are NOT to be included in the PSR)*
- *Any risks associated with each alternative (schedule, etc.)*
- *Recommendations/Rankings*

## ***SECTION 10.0 – CONCLUSIONS***

- *Brief description of the recommended pond sites.*

## ***SECTION 11.0 – REFERENCES***

## **APPENDICES**

Appendix A – Drainage Maps (Pre and post development)

Post development map must show the pond alternatives with parcel information and any easements needed to get to or from the pond, outfall location, and drainage basin boundaries at a minimum.

Appendix B – Pre-Development Calculations

Appendix C – Post- Development Calculations

Appendix D - Floodplain Encroachment Calculations

Appendix E - Pond Site Evaluation Matrices

Appendix F – Correspondence\Meeting Minutes, and Excerpts from Previous Permits and Studies

	<b>Alternate 1</b>		<b>Alternate 2</b>		<b>Alternate 3</b>	
<b>Description of Alternate ▶</b>						
	<b>Comments</b>	<b>Cost</b>	<b>Comments</b>	<b>Cost</b>	<b>Comments</b>	<b>Cost</b>
<b>Right-of way</b>						
<b>Construction</b>						
<b>Contamination</b>						
<b>Utilities</b>						
<b>Listed Species</b>						
<b>Wetlands/Surface Waters</b>						
<b>Maintenance</b>						
<b>Cultural Resources</b>						
<b>Public Opinion</b>						
<b>Aesthetics</b>						
<b>Other</b>						
<b>Total Cost</b>						
<b>Comments, Advantages, Disadvantages, etc.</b>						