


## Appendix I: Field Investigation Notes

<b>Carolina Crossroads Field Investigation</b>		<b>Site ID:</b>	<b>3401</b>
		<b>Type:</b>	<b>Outfall</b>
Alignment:	I20000X	Date:	4/17/2018
Approx. Station:	68+75	Weather:	Sunny
Side:	RT	Reviewer:	Tom Miller / Cole Pierce
<b><i>Downstream Channel Information</i></b>			
Channel Width:	1 ft	Approx. Side Slopes:	3:1
Channel Alignment:	Straight	Vegetation On Banks?	Yes
Channel Bottom Material:	Vegetation / Debris	Approx. Water Depth:	N/A
High Water Mark Visible?	No	Water Present?	Dry
Erosion Present?	No	Overbank Areas Description: Undeveloped.	
Notes: Channel is approximately 1.5 feet-deep. Approximately 100 ft downstream, the channel size increases, some erosion is observed, and there is about 6 in of standing water. The channel width is 3 ft wide with very flat banks about 1 ft-deep.			
<b><i>Pipe Structure Information</i></b>			
Shape:	Circular	Size:	18 in
Material:	R.C.	End Type:	Beveled End
Rip Rap Present?	No	Scour Present?	No
Other Notes: The last section of pipe is separated. This area is to be reconstructed per RPA geometry.			
			



<b>Carolina Crossroads Field Investigation</b>		<b>Site ID:</b>	<b>3501</b>
		<b>Type:</b>	<b>Outfall</b>
Alignment:	I20000X	Date:	4/17/2018
Approx. Station:	82+75	Weather:	Sunny
Side:	LT	Reviewer:	Tom Miller / Cole Pierce
<b><i>Downstream Channel Information</i></b>			
Channel Width:	2 ft to 3 ft	Approx. Side Slopes:	1:1
Channel Alignment:	Straight	Vegetation On Banks?	Yes
Channel Bottom Material:	Soil / Leaf Debris	Approx. Water Depth:	N/A
High Water Mark Visible?	N/A	Water Present?	Dry
Erosion Present?	No	Notes: Channel is approximately 2 feet-deep	
Overbank Areas Description: Heavily vegetated overbanks			
<b><i>Pipe Structure Information</i></b>			
Shape:	Circular	Size:	15 in
Material:	R.C.	End Type:	Pipe End Projecting
Rip Rap Present?	No	Scour Present?	No
Other Notes: No apparent flow except during rainfall events. Some buldings within 200 ft of bank. No indication of past overtopping. The outfall is located within the proposed interstate fill slope.			






Carolina Crossroads Field Investigation		Site ID:	3502
		Type:	Outfall
Alignment:	I20000X	Date:	4/17/2018
Approx. Station:	86+30	Weather:	Sunny
Side:	RT	Reviewer:	Tom Miller / Cole Pierce
<b>Downstream Channel Information:</b>		No real defined channel	
Additional Description: Toe of fill outlet with no defined channel.			
<b>Pipe Structure Information</b>			
Shape:	Circular	Size:	15 in
Material:	R.C.	End Type:	Beveled End
Rip Rap Present?	No	Scour Present?	Yes
Other Notes: Long scour hole. This area is to be reconstructed per RPA geometry.			





Carolina Crossroads Field Investigation			Site ID:	3503
			Type:	Bridge
Alignment:	I20000X	Date:	4/17/2018	
Approx. Station:	89+60	Weather:	Sunny	
Side:	RT	Reviewer:	Dustin Hughey	
Bridge Information				
Water Body:	Saluda River			
Road Name:	Interstate 20			
Rip Rap Present?	Yes	Scour Present?	No	
High Water Mark Visible?	Yes	Banks Description: Vegetation & rip rap		
Other Notes: Discoloration along the pier indicates a recent high-water mark of approximately 6 ft below the cap.				
				




<b>Carolina Crossroads Field Investigation</b>		<b>Site ID:</b>	<b>3701</b>
		<b>Type:</b>	<b>Inlet</b>
Alignment:	BSHRFOP	Date:	4/18/2018
Approx. Station:	4119+05	Weather:	Sunny
Side:	LT	Reviewer:	Tom Miller / Cole Pierce
<b><i>Upstream Channel Information</i></b>			
High Water Mark Visible?	No	Water Present?	Perennial
Erosion Present?	No	Notes: Heavily vegetated overbanks	
<b><i>Pipe Structure Information</i></b>			
Shape:	Box	Size:	4 ft (w) X 6 ft (h)
Material:	R.C.	End Type:	Headwall
Rip Rap Present?	No	Scour Present?	No

Other Notes: Headwall with 30 to 45 degree wingwalls. This area may need reconstruction per RPA geometry.





Carolina Crossroads Field Investigation			Site ID:	3702
			Type:	Channel
Alignment:	BSHRF1P	Date:	4/18/2018	
Approx. Station:	4124+90	Weather:	Sunny	
Side:	LT	Reviewer:	Tom Miller / Cole Pierce	
<b>Channel Information</b>				
Channel Width:	2 ft	Approx. Side Slopes:	Vertical	
Channel Alignment:	Meandering	Vegetation On Banks?	Yes	
Channel Bottom Material:	Sandy	Approx. Water Depth:	1 in to 2 in	
High Water Mark Visible?	No	Water Present?	Intermittent	
Erosion Present?	No			
Additional Channel Description: Approximately 1 foot deep. Rip rap protection over entire length of channel.				
Overbank Areas Description: Bush River Road is located to the north of the ditch and a Cracker Barrel is located to the south. The overbanks are vegetated between the ditch and road / business.				
Upstream Pipe Structure Information: See Site			3703	
Other Notes: The channel will need some realignment according to RPA geometry.				
				



<b>Carolina Crossroads Field Investigation</b>		<b>Site ID:</b>	<b>3703</b>
		<b>Type:</b>	<b>Outfall</b>
Alignment:	BSH001P	Date:	4/18/2018
Approx. Station:	23+25	Weather:	Sunny
Side:	RT	Reviewer:	Tom Miller / Cole Pierce
<b>Downstream Channel Information: See Site</b>			<b>3702</b>
<b>Pipe Structure Information</b>			
Shape:	Circular	Size:	Double 42 in
Material:	R.C.	End Type:	Headwall
Rip Rap Present?	Yes	Scour Present?	No
Other Notes: Energy dissipaters downstream of the northern pipe. Area to be reconstructed per RPA geometry.			





<b>Carolina Crossroads Field Investigation</b>		<b>Site ID:</b>	<b>3721</b>
		<b>Type:</b>	<b>Outfall</b>
Alignment:	BSHRG0P	Date:	4/17/2018
Approx. Station:	5120+50	Weather:	Sunny
Side:	RT	Reviewer:	Tom Miller / Cole Pierce
<b><i>Downstream Channel Information</i></b>			
Channel Width:	6 ft	Approx. Side Slopes:	3:1
Channel Alignment:	Straight	Vegetation On Banks?	Yes
Channel Bottom Material:	Concrete	Approx. Water Depth:	1 in
High Water Mark Visible?	No	Water Present?	Perennial
Erosion Present?	No	Notes: Paved channel, approximately 3 feet-deep.	
Overbank Areas Description: Heavily developed immediately downstream.			
<b><i>Pipe Structure Information</i></b>			
Shape:	Box	Size:	4 ft (w) X 6 ft (h)
Material:	R.C.	End Type:	Wingwalls
Rip Rap Present?	No	Scour Present?	No
Other Notes: 75 degree wingwalls downstream. Stable banks. Constant 0.5 in flow through concrete ditch to 60 in pipe, grooved end projected.			





Carolina Crossroads Field Investigation			Site ID:	3722
			Type:	Inlet
Alignment:	BSHRG0P	Date:	4/17/2018	
Approx. Station:	5120+40	Weather:	Sunny	
Side:	RT	Reviewer:	Tom Miller / Cole Pierce	
Upstream Channel Information: See Site				3721
Pipe Structure Information				
Shape:	Circular	Size:	60 in	
Material:	R.C.	End Type:	Pipe End Projecting	
Rip Rap Present?	No	Scour Present?	No	

