

# EVACUATION ROUTE

## Municipality of Loíza, Puerto Rico

### Appendix 4. Opinion of Probable Environmental Evaluation and Design Cost

<b>Table 5.1 Summary Table of Consulting Services</b>			
<b>Design Services</b>			
Item	Service	Description	Cost
1	Study	Route Location and Reconnaissance Studies	UNDER CONTRACT
2	Study	Field Survey (Topographic and Planimetric Survey)	\$70,000.00
4	Study	Preliminary Geotechnical Study	\$156,656.00
5	Study	Final Geotechnical Study	\$365,530.00
6	Study	Hydrologic-Hydraulic and Scouring Studies (H-H = \$50,000; Scour = \$24,000)	\$74,000.00
7	Study	Subsurface Utility Engineering	NOT REQUIRED
8	Study	Traffic Study	UNDER CONTRACT
9	Report	Interstate Access Request Report (IARR)	NOT REQUIRED
10	Report	Non-destructive Testing	NOT REQUIRED
11	Design Plan	Preliminary Studies and Plans	\$3,619,562.23
12	Design Plan	Final Plans	\$6,721,644.77
13	Plan	Transportation Management Plan (TMP)	NOT REQUIRED
14	Report	Bridge Rating Report	\$15,000.00
15	Design Plans	Right of Way Plans	\$20,000.00
16	Study	Research of Affected Properties	\$15,000.00
17	Report	Access Management Plan (AMP)	NOT REQUIRED
18	Report	ITS Implementation Analysis	NOT REQUIRED
Sub Total Design =			\$11,057,393.00
<b>Environmental Services</b>			
Item	Service	Description	Cost
2	Study	Field Survey (WOTUS Delineation / Tree Inventory / Cultural Resources)	\$40,000.00
3	Study	Photogrammetry	\$250,000.00
19	Study	Class of Action (COA)	\$10,000.00
20	Study	Notice of Intent (NOI) and Coordination Plan (CP)	\$45,000.00
21	Study	Environmental Impact Statement (EIS) (DEIS = \$375,000 / FEIS = \$50,000 / ROD = \$25,000)	\$450,000.00
22	Document	Evaluation of Effects on Cultural Resources	\$9,000.00
23	Study	Cultural Resources Assessment Phase IA (CRA-Phase IA)	\$14,000.00
24	Study	Cultural Resources Assessment Phase IB (CRA-Phase IB)	\$70,000.00
25	Study	Cultural Resources Assessment Phase II (CRA-Phase II)	\$60,000.00
26	Document	Memorandum of Agreement (MOA)	\$8,000.00

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27	Study	Environmental Assessment (FONSI)	NOT REQUIRED
28	Study	Categorical Exclusion (CE)	NOT REQUIRED
29	Study	Habitat Categorization for DNER (HC)	\$15,000.00
30	Permit Application	Tree Inventory and Mitigation Planting Plan (TI-MPP)	\$25,000.00
31	Study	Noise Study (NS)	\$45,000.00
32	Study	Air Quality Emission Study (AQES)	\$20,000.00
33	Study	Biological Assessment (BA)	\$20,000.00
34	Study	Environmental Justice Study (EJS)	\$15,000.00
35	Study	Socio Economic Study (SES)	\$15,000.00
36	Study	Public Involvement and PROJECT Coordination	INCLUDED IN ITEM 20
37	Study	Environmental Site Assessment - Type ASTM Phase I (ESA-Phase I)	\$10,000.00
38	Study	Environmental Site Assessment - Type ASTM Phase II (ESA-Phase II)	\$15,000.00
39	Study	Survey to Determine the Presence of Asbestos and Lead (SAL)	\$15,000.00
40	Study	USACE Jurisdictional Determination (JD)	\$26,000.00
41	Permit	Joint Permit Application - USACE (JPA)	\$20,000.00
42	Permit Application	Underground Injection Permit (UIC-P)	\$25,000.00
43	Study	Ecological (Flora & Fauna) Study - (ES)	\$30,000.00
44	Study/Permit	Puerto Rico Planning Board PRPB and Autonomous Municipality (AM) Adoption Process	\$4,000.00
45	Study	Benefit/Cost Analysis (BCA)	\$25,000.00
46	Study	4(f) Programmatic Determination (4(f) PD)	\$16,000.00
47	Study	Feasibility Study (FS)	UNDER CONTRACT
48	Report	Environmental Analysis	UNDER CONTRACT
49	Study	Farmland Impact Study (FIS)	\$8,000.00
50	Study	Translation to Spanish and Copies	\$10,000.00
		Sub Total Environmental =	\$1,315,000.00
		<b>Total Budget (Design + Environmental) =</b>	<b>\$12,372,393.00</b>