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Itemized Proposal Sheet (TAN SHEET)
Fuel Usage Factor Chart and Estimate of Quantities
Listing of DBE Subcontractors
Execution of Bid, Non-Collusion Affidavit, Debarment Certification and Gift Ban Certification
Signature Sheet

I-5877 DESIGN-BUILD SCOPE OF WORK (7-24-19)

Throughout this RFP, references to signed and sealed plans shall denote all construction plans for I-5877 provided by the Department.

In regard to the I-5877 requirements, the Design-Build Team shall adhere to the following:

- **If the Design-Build Team modifies the I-5877 signed and sealed plans provided by the Department or if a Scope of Work specifically references I-5877, the Design-Build Team shall adhere to the Scope(s) of Work requirements found elsewhere in this RFP. The Design-Build Team shall adhere to all other sections, including but not limited to the Project Special Provisions and Standard Special Provisions, of this RFP for the I-5877 project.**
- **In addition to the Project Special Provisions and Standard Special Provisions found elsewhere in this RFP, the Design-Build Team shall adhere to the July 10, 2019 *I-5877 Project Provisions* provided by the Department.**
- **If this RFP and the July 10, 2019 *I-5877 Project Provisions* provided by the Department have conflicting information, the July 10, 2019 *I-5877 Project Provisions* shall govern (for the I-5877 project only).**
- **The March 7, 2019 *Geotechnical Report - Design and Construction Recommendations (Revised)* provided by the Department**
- **The July 16, 2019 *Geotechnical Report - Design and Construction Recommendations 776+00 to 790+00 (Supplemental)* provided by the Department**
- **The July 18, 2019 *Revised Foundation Report - Structure Foundation Recommendation Report REV3 Bridge No. 37 on SR 1811 over I-95* provided by the Department**
- **The July 18, 2019 *Revised Foundation Report - Structure Foundation Recommendation Report REV1 Bridge No. 57 on SR 1002 over I-95* provided by the Department**

Only Alternative Technical Concepts on pavement designs will be allowed on I-5877. (Reference the Pavement Management Scope of Work found elsewhere in this RFP)

- The Department will provide I-5877 signed and sealed plans for all major work items, including roadway design, structure design, hydraulic design, lighting design, water and sewer design, signing design, pavement marking design, and traffic management systems design. Unless allowed otherwise elsewhere in this RFP, the Design-Build Team shall construct the I-5877 project in accordance with these signed and sealed plans. Excluding quantities, the Department will be responsible for the accuracy and completeness of all signed and sealed plans provided; and will be fully liable for any additional costs due to errors and / or omissions in these plans. The Design-Build Team shall be responsible for the accuracy and completeness of all I-5877 quantities, including all contingencies. The Department will not honor any requests for additional contract time or compensation due to errors and / or omissions in the I-5877 quantities, including all contingencies.

- Excluding modifications required solely due to errors and / or omissions, and allowable pavement design modifications, the Design-Build Team shall be responsible for the accuracy and completeness of all modifications to the I-5877 signed and sealed plans provided by the Department, including but not limited to all items affected by the modifications (e.g. sound barrier wall envelopes and details, culvert size and lengths, bridge lengths, signing, lighting, Interchange Access Report, utility relocations, etc.).

EROSION AND SEDIMENTATION CONTROL SCOPE OF WORK (7-24-19)

The NCDOT Roadside Environmental Unit will review and accept all Erosion and Sedimentation Control Plans. Clearing & Grubbing and Final Grade Release for Construction (RFC) Erosion Control Plans shall be submitted, accepted and distributed to all NCDOT personnel listed in the Design-Build Submittal Guidelines before **any** land disturbing activities, including clearing and grubbing, can commence. If the Design-Build Team chooses to perform the work in discrete sections, then a complete set of Clearing & Grubbing and Final Grade RFC Erosion Control Plans shall be submitted, accepted, and distributed, as noted above, prior to land disturbing activities, including clearing and grubbing, commencing in that section. No land disturbing activities, including clearing and grubbing, shall occur in any location that does not have accepted Clearing & Grubbing and Final Grade RFC Erosion Control Plans. Refer to the most recent version of the NCDEQ - *Erosion and Sediment Control Planning and Design Manual* for erosion control design guidelines not addressed in this Scope of Work.

To ensure adherence with the April 1, 2019 NCG-010000 General Construction Permit, issued by the North Carolina Department of Environmental Quality, Division of Water Resources, the Design-Build Team shall formally submit a project-wide Vegetation Management Procedure for the Department's review and acceptance prior to any land disturbing activities. After this initial review, the Design-Build Team shall concurrently provide the Resident Engineer and Roadside Environmental Field Operations Engineer updated versions of the Vegetation Management Procedure on a monthly basis. These updated versions will not require formal submittal to the Design-Build Unit, but will be subject to review comments by the aforementioned field personnel. All versions of the Vegetation Management Procedure shall include, but not be limited to, 1) provisions for the early establishment of grasses / vegetation, 2) provisions for obtaining the required 80% permanent vegetation stand, as defined in the April 1, 2019 NCG-01000 General Construction Permit and in accordance with the *Permanent Vegetation Establishment* Project Special Provision found elsewhere in this RFP, by the project final completion date, and 3) procedure and schedule details for fertilizer topdressing, supplemental seeding, mowing and repair seeding. The Vegetation Management Procedure shall be closely coordinated with the grading and hauling operations. The Design-Build Team shall provide a narrative overview of the Vegetation Management Procedure in the Technical Proposal.

From the beginning through the end of construction, the Design-Build Team shall maintain comprehensive "red-line" As-Constructed Drawings that detail when and where permanent / temporary / repair seeding and fertilizer topdressing have been performed.

Erosion and Sedimentation Control Plans shall at a minimum address the following:

I. Complete Set of Plans

A. Clearing and Grubbing Phase

1. Use correct NCDOT symbology.

of a sediment basin shall be submitted to the NCDOT Roadside Environmental Unit, via the Design-Build Unit, for review and acceptance. Minor changes such as moving silt fence, adding or moving temporary ditches (unless adding new runoff flow to a sediment basin), and adding or moving slope drains shall be reviewed by the Engineer in the field.

T. All erosion control measures with stone extending beyond the construction limits shall be considered temporary fill. If impacted wetland areas are permitted as Hand Clearing, then the aforementioned temporary fill shall be permitted as Temporary Fill in Hand Cleared Areas for Erosion Control. (Reference the Environmental Permits Scope of Work found elsewhere in this RFP)

U. Sediment basins that drain directly into jurisdictional water or have a total drainage area of one acre or more shall be designed and constructed with outlet structures that only withdraw water from the surface. For sediment basins that do not drain directly into jurisdictional water or have less than one acre of total drainage area, surface dewatering outlets or stone outlets may be provided.

V. In accordance with the requirements noted herein, the Design-Build Team shall be responsible for erosion control design, erosion control plans, erosion control plan implementation and maintenance of erosion control measures for all utility installation and relocation work performed by the Design-Build Team. To ensure that the Design-Build Team's erosion control designs, erosion control plan implementation and / or maintenance of erosion control measures do not conflict with the erosion control design, erosion control plan implementation and / or maintenance of erosion control measures for utility installation and / or relocation work performed by others, the Design-Build Team shall coordinate with the utility companies performing Utilities by Others (UBO) work.

W. Ground Cover Stabilization Requirements - NCG010000 (7 - 14 Days)

Ground cover stabilization shall comply with the timeframe guidelines specified by the North Carolina Department of Environmental Quality, Division of Water Resources NCG-010000 General Construction Permit that became effective on April 1, 2019. Excluding the slopes noted below, temporary and permanent ground cover stabilization shall be provided within seven calendar days from the last land-disturbing activity. The Design-Build Team shall label all slopes subject to the seven-day ground cover stabilization requirements on all Erosion and Sedimentation Control Plans submitted to the Department for review and acceptance.

For the slopes noted below, temporary and / or permanent ground cover stabilization shall be provided within 14 calendar days from the last land-disturbing activity:

Slopes between 2:1 and 3:1, with a slope length of ten feet or less
Slopes 3:1 or flatter, with a slope length of 50 feet or less
Slopes 4:1 or flatter

Temporary and / or permanent ground cover stabilization shall be provided in accordance with the provisions in this RFP, the Vegetation Management Procedure developed by the Design-Build Team and the April 1, 2019 NCG-010000 General Construction Permit.

WETLAND AND SURACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS: Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	SURFACE WATER IMPACTS: Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	800+95 to 801+38-L-RT	DRAINAGE DITCH							0.007		44	
2	795+73 to 796+99-L-LT	ROADWAY FILL	0.111		0.051							
3	801+10 to 803+74-L-	42" PIPE						0.008	0.002	121	19	
4	811+37 to 814+11-L-RT	ROADWAY FILL	0.046			0.048						
5	816+14 to 816+28-L-RT	54" PIPE						0.001	0.001	8	10	
		OUTLET CHANNEL						0.004		23		
5A	11+04 to 11+40-SR7-LT	ROADWAY FILL						0.002		24		
		POND						0.182				
6	18+84 to 18+94 -Y22-RT	BANK STABILIZATION						0.001		10		
7	20+15 to 20+39-Y22-RT	DRAINAGE DITCH						0.003	0.003	18	18	
7A	46+22 to 47+34-Y12-	60" PIPE						0.005		44		
		INLET BANK STABILIZATION						0.002	0.001	20	10	
		OUTLET CHANNEL						0.002	0.001	36	17	
7B	1+84 to 13+35-Y12RPD-R	ROADWAY FILL						0.010	0.001	113	11	
8	844+71 to 845+24-L-RT	PIPE REMOVAL							0.003		33	
8A	849+47 to 849+75-L-RT	PIPE REMOVAL/DITCH							0.001		9	
		OUTLET CHANNEL						0.003		22		
8B	38+92 to 39+04-SR7-	PIPE REMOVAL/DITCH						0.001	0.001	18	16	
		CHANNEL REALIGNMENT						0.001		14		
9	855+32 to 859+66-L-	1 at 9'x8' RCBC						0.016	0.007	98	44	
		INLET CHANNEL						0.007	0.003	56	19	
		OUTLET CHANNEL						0.003	0.004	185	25	
TOTALS*:			**0.16**	**0.00**	**0.05**	**0.05**	**0.00**	**0.25**	**0.04**	**810**	**275**	**0**

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
4-30-2019
HARNETT COUNTY
I-5986B-SECTION 1
47532.1.3

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WETLAND AND SURACE WATER IMPACTS SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
10	875+41 to 875+82-L-	60" PIPE						0.013	0.006	105	47	
		INLET CHANNEL						0.006		41		
		OUTLET CHANNEL						0.003	0.010	34	13	
10A	4+58 to 15+95-Y13RPB-L	36" PIPE						0.006		47		
		OUTLET CHANNEL						0.003	0.003	20	20	
		UTILITY							0.008		59	
10B	21+71 to 22+25-DR5-RT	ROADWAY FILL							0.002		40	
		CHANNEL REALIGNMENT						0.002		15		
10C	14+54 to 15+23-SR8-LT	30" PIPE							0.003			
		48" PIPE						0.003				
		OUTLET CHANNEL						0.001				
11	22+10 to 22+55-DR5-	1 at 9'x8' RCBC						0.006		39		
		INLET CHANNEL			0.001	0.012		0.004	0.017	38	29	
		OUTLET CHANNEL						0.005	0.002	29	10	
11A	19+83 to 21+03-Y13-	1 AT 8'x7' RCBC						0.001		8		
		INLET CHANNEL						0.005	0.002	40	12	
		OUTLET CHANNEL						0.009	0.002	42	10	
		UTILITY							0.002		22	
11B	898+13 to 899+23-L-	60" PIPE						0.013		34		
		INLET CHANNEL						0.002	0.001	20	13	
		OUTLET CHANNEL						0.003	0.002	25	12	
12	22+75 to 30+68-DR5-	ROADWAY FILL	0.619		0.089	0.218						
TOTALS*:			**0.62**	**0.00**	**0.09**	**0.23**	**0.00**	**0.09**	**0.06**	**537**	**287**	**0**

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
4-30-2019
HARNETT COUNTY
I-5986B-SECTION 1
47532.1.3

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WETLAND AND SURACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS: Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	SURFACE WATER IMPACTS: Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
13	**REMOVED**											
14	36+49 to 37+35-SR9-LT	ROADWAY FILL	0.004		0.005	0.019						
		UTILITY					0.026					
15	16+32 to 16+62-Y24-RT	OUTLET CHANNEL						0.006	0.002			
16	17+24 to 17+95-Y24-RT	ROADWAY FILL				0.008						
		UTILITY					0.018					
17	913+16 to 919+91-L-RT	ROADWAY FILL						0.101				
18	23+67 to 24+00-Y24-RT	ROADWAY FILL						0.003	0.001			
		UTILITY							0.001			
19	15+51 to 19+93-Y13-LT	66" PIPE						0.010	0.002			
		BANK STABILIZATION						0.004				
		CHANNEL REALIGNMENT						0.051				
20	14+00 to 14+95-SR9-	72" PIPE	0.080		0.010	0.041		0.008		72		
		INLET CHANNEL						0.002	0.001	21	11	
		OUTLET CHANNEL						0.003	0.001	25	13	
	SHEET TOTALS		**0.084**		**0.015**	**0.068**	**0.044**	**0.188**	**0.008**	**118**	**24**	**0**
	PAGE 68 TOTALS:		**0.16**	**0.00**	**0.05**	**0.05**	**0.00**	**0.25**	**0.04**	**810**	**275**	**0**
	PAGE 69 TOTALS:		**0.62**	**0.00**	**0.09**	**0.23**	**0.00**	**0.09**	**0.06**	**537**	**287**	**0**
TOTALS*:			**0.86**	**0.00**	**0.16**	**0.35**	**0.04**	**0.52**	**0.10**	**1465**	**586**	**0**

*Rounded totals are sum of actual impacts

NOTES:

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