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**Terracon.com**

November 7, 2022

Jacobs  
 5995 Rogerdale Road  
 Houston, TX 77072-1601  
 Attn: Mr. Aaron Sarfati  
 Telephone # 210.452.6153  
 Email: aaron.sarfati@jacobs.com

Re: Materials Testing & Special Inspection Services Hidalgo  
 County Courthouse  
 100 N Closner Blvd  
 Edinburg, Texas 78539  
 Project No 88181128

Dear Mr. Sarfati:

Terracon Consultants, Inc. (Terracon) appreciates the opportunity to submit this letter regarding construction materials testing and special inspection services for the Hidalgo County Courthouse project. Our proposal includes an outline of the project information, our proposed scope of services, estimated quantities, unit rates, and a total estimated fee for our services.

**1.0 Project Information**

We performed construction materials testing and special inspection services for this project as requested by your firm.

Pertinent project information is summarized below:

Item	Description
<b>Location</b>	Located at 100 N. Closner Blvd. in Edinburg, TX.
<b>Project Description</b>	The project consists of the construction of a seven-story courthouse building. The building structure consists of a drilled-pier, grade-beam, and slab-on-grade foundation system with structural steel interior and roof system. Site work includes utilities, associated 2-story parking garage, parking lot and drives. Pavements consists of concrete.



**2.0 Scope of Services**

Terracon is providing materials testing and special inspection services as summarized below:

Item	Description
<p><b>Over excavation &amp; Backfill Observation</b></p>	<p>During over-excavation operations, observations of the excavated material stockpiles and the condition of soils found at the bottom of the excavations were performed. We observed moisture conditioning and backfill operations, and perform moisture/density tests on the backfill materials.</p>
<p><b>Earthwork</b></p>	<p>Terracon obtained samples for laboratory tests, performed in-place field density testing and performed periodic or full-time observations for underground utility trench backfill, foundation backfill, slab subgrade, flatwork subgrade, and pavement subgrade preparation.</p>
<p><b>Foundation Excavation Observation</b></p>	<p>During footing excavation, observations were performed to observe soil conditions at the base of the excavations.</p>
<p><b>Concrete Formwork and Reinforcing Steel</b></p>	<p>Prior to concrete placement, formwork and reinforcing steel for spread footings, slabs-on-grade, and other structural elements were observed by Terracon. Our observations included the following:</p> <ul style="list-style-type: none"> <li>✦ Formwork dimensions.</li> <li>✦ Reinforcing steel size, grade, spacing, cover, position, splices, condition, and supports; and</li> <li>✦ Installation of embeds (if required).</li> </ul>
<p><b>Concrete</b></p>	<p>During concrete placements, observation, sampling and testing were performed by Terracon for the concrete used for spread-footings, slabs-on-grade, concrete pavement, public right- of-way construction, and other elements. The concrete was sampled and tested for slump, air content, unit weight, and temperature at the time of placement. Cylinders were made and initially cured on site. A technician returned to the site within 1-2 days to bring the cylinders to our laboratory for final curing and compressive strength testing. Testing was performed in general accordance with project plans and specifications.</p>

**Proposal for Materials Testing & Special Inspection Services**

Hidalgo County Courthouse ■ Edinburg, Texas  
November 7,2022 ■ Terracon Proposal No. P88181128



Item	Description
<b>Project Management</b>	A project manager has been assigned to the project to review the daily activity and assist in scheduling the work. Field and laboratory tests has been reviewed prior to final submittal. The project manager has been responsible for the project budget, communicating with the contractor regarding schedule, deviations, and documenting the resolution of outstanding deviations.

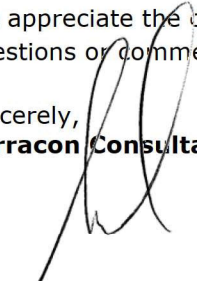
**3.0 Compensation**

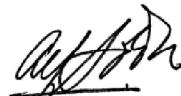
Based on the additional work performed, our time and materials fees estimated for the additional is **\$54,093.63**. A summary of our unit rates estimated quantities, and the resulting costs is included on the attached Fee Estimate Tables. Fees for services provided are based on the unit rates shown in that exhibit.

**4.0 Authorization**

We appreciate the opportunity to provide this summary to you. Please let us know if you have any questions or comments regarding this proposal.

Sincerely,  
**Terracon Consultants, Inc.**

  
Lupe Leal  
Project Manager  
Copies to: Addressee (via e-mail)  
Enclosures: Fee Estimate  
Agreement for Services

  
Alfonso Soto, P.E., D. GE, F. ASCE  
Senior Principal

**Five Addition Concrete Placement**

**Concrete Observation/Testing**

<b>Service</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Rate</b>	<b>Estimate</b>
Engineering Technician, Regular Hours	25	Hour	\$ 55.00	\$ 1,375.00
Engineering Technician, Overtime Hours	5	Hour	\$ 82.50	\$ 412.50
Concrete Cylinders, (ASTM C31 & C39)	25	Each	\$ 15.00	\$ 375.00
Vehicle Trip Charge	10	Per Trip	\$ 30.00	\$ 300.00
<b>Subtotal, Concrete</b>				<b>\$ 2,462.50</b>

5 Concrete Placements and Testing and 5 Sample Pick Up

<b>Project Management</b>	<b>5</b>	Hour	\$ 90.00	<b>\$ 450.00</b>
<b>Clerical</b>	<b>5</b>	Hour	\$ 45.00	<b>\$ 225.00</b>

<b>ESTIMATE TOTAL</b>				<b>\$ 3,137.50</b>
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## Materials Testing Performed After Meeting from June 28, 2021

Materials Testing Performed After Meeting from June 28, 2021													
Concrete Testing	Amount \$		Concrete Sample P/up	Amount \$		Field Density	Amount \$		Proctors	Amount \$		Reinforcing Steel	Amount \$
88181128.1062	\$307.50		88181128.1062B	\$195.00		88181128.1063	\$317.50		88181128.1089	\$572.50		88181128.1061	\$195.00
88181128.1067	\$292.50		88181128.1067B	\$195.00		88181128.1064	\$257.50		88181128.1090	\$377.50		88181128.1066	\$217.50
88181128.1070	\$307.50		88181128.1070B	\$195.00		88181128.1065	\$235.00		<b>Total</b>	<b>\$950.00</b>		88181128.1069	\$217.50
88181128.1073	\$370.00		88181128.1073B	\$195.00		88181128.1068	\$235.00		Site Visit /Not Ready	Amount \$		88181128.1072	\$267.50
88181128.1074	\$385.00		88181128.1076B	\$195.00		88181128.1071	\$317.50		88181128.1078	\$195.00		88181128.1075	\$0.00
88181128.1076	\$342.50		88181128.1081B	\$195.00		88181128.1079	\$280.00		<b>Total</b>	<b>\$195.00</b>		88181128.1080	\$195.00
88181128.1077	\$0.00		88181128.1083B	\$195.00		88181128.1093	\$285.00					88181128.1082	\$240.00
88181128.1081	\$315.00		88181128.1085B	\$195.00		88181128.1096	\$285.00		Plasticity Index (PI)	Amount \$		88181128.1084	\$240.00
88181128.1083	\$75.00		88181128.1087B	\$195.00		88181128.1097	\$257.50		88181128.1088	\$152.50		88181128.1086	\$217.50
88181128.1085	\$285.00		88181128.1095B	\$195.00		88181128.1098	\$257.50		<b>Total</b>	<b>\$152.50</b>		88181128.1094	\$0.00
88181128.1087	\$307.50		88181128.1101B	\$195.00		88181128.1109	\$253.00		Proofroll	Amount \$		88181128.1100	\$0.00
88181128.1095	\$97.50		88181128.1105B	\$277.50		88181128.1110	\$280.00		88181128.1091	\$217.50		88181128.1104	\$217.50
88181128.1101	\$375.50		88181128.1108B	\$195.00		88181128.1112	\$273.00		88181128.1099	\$0.00		88181128.1107	\$0.00
88181128.1105	\$305.00		88181128.1113B	\$195.00		<b>Total</b>	<b>\$3,533.50</b>		88181128.1102	\$217.50		88181128.1111	\$210.00
88181128.1108	\$407.50		88181128.1114B	\$195.00					88181128.1103	\$195.00		88181128.1115	\$217.50
88181128.1113	\$347.50		88181128.1116B	\$195.00					88181128.1106	\$0.00		88181128.1117	\$217.50
88181128.1114	\$292.50		88181128.1118B	\$195.00					<b>Total</b>	<b>\$630.00</b>		88181128.1119	\$217.50
88181128.1116	\$292.50		88181128.1120B	\$195.00								88181128.1121	\$240.00
88181128.1118	\$246.25		88181128.1122B	\$195.00								88181128.1123	\$240.00
88181128.1120	\$628.75		88181128.1124B	\$195.00								88181128.1125	\$240.00
88181128.1122	\$628.75		88181128.1126B	\$195.00								88181128.1128	\$22.50
88181128.1124	\$315.00		88181128.1127B	\$195.00								88181128.1130	\$0.00
88181128.1126	\$292.50		88181128.1129B	\$195.00								88181128.1132	\$0.00
88181128.1127	\$347.50		88181128.1131B	\$195.00								88181128.1134	\$0.00
88181128.1129	\$320.00		88181128.1133B	\$195.00								88181128.1136	\$0.00
88181128.1131	\$283.75		88181128.1135B	\$195.00								88181128.1139	\$82.50
88181128.1133	\$270.00		88181128.1137B	\$195.00								88181128.1143	\$253.75
88181128.1135	\$430.00		88181128.1138B	\$195.00								88181128.1144	\$245.00
88181128.1137	\$375.00		88181128.1140B	\$187.50								<b>Total</b>	<b>\$4,193.75</b>
88181128.1138	\$292.50		88181128.1141B	\$195.00									
88181128.1140	\$290.00		88181128.1142B	\$195.00									
88181128.1141	\$342.50		88181128.1146B	\$195.00									
88181128.1142	\$315.00		88181128.1147B	\$195.00									
88181128.1145	\$292.50		88181128.1149B	\$195.00									
88181128.1146	\$464.38		<b>Total</b>	<b>\$6,705.00</b>									
88181128.1147	\$457.50												
88181128.1148	\$361.25												
88181128.1149	\$366.25												
<b>Total</b>	<b>\$12,424.88</b>												

<b>TOTAL</b>	<b>\$28,784.63</b>
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<b>Re-testing</b>
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<b>Field Density</b>		
<i>Failing Report</i>	<i>Re-test Report</i>	<i>\$ Amount for Re-test</i>
88181128.0087	88181128.0092	\$235.00
88181128.0671	88181128.0674	\$413.75
88181128.0688	88181128.0690	\$265.00
88181128.0910	88181128.0914	\$228.00
88181128.0918	88181128.0974	\$573.75
88181128.0959	88181128.0962	\$239.50
88181128.0977	88181127.0999	\$257.50
88181128.1096	88181128.1097	\$257.50
88181128.1110	88181128.1110	\$280.00
<b>Density Re-test Total</b>		<b>\$2,750.00</b>

<b>L&amp;G Site Visit / Not Ready</b>		
<i>Report</i>	<i>\$ Amount</i>	
88181128.0010	\$195.00	
88181128.0706	\$322.50	
88181128.0960	\$277.50	
88181128.0961	\$195.00	
88181128.0998	\$225.00	
88181128.1012	\$225.00	
88181128.1032	\$277.50	
88181128.1059	\$277.50	
88181128.1078	\$195.50	
<b>Total</b>		<b>\$2,190.50</b>

<b>Proofroll</b>		
<i>Failing Report</i>	<i>Re-test Report</i>	<i>\$ Amount for Re-test</i>
88181128.1091	88181128.1092	\$217.50
88181128.1102	88181128.1103	\$217.50
88181128.1103	88181128.1106	\$217.50
<b>Total</b>		<b>\$652.50</b>

<b>Plasticity Index (PI)</b>		
<i>Report</i>	<i>\$ Amount</i>	
88181128.1088	\$152.50	
<b>Total</b>		<b>\$152.50</b>

<b>Metro Electric Site Visit / Not Ready</b>		
<i>Report</i>	<i>\$ Amount</i>	
88181128.0193	\$195.00	
88181128.0969	\$195.00	
<b>Total</b>		<b>\$390.00</b>

<b>Tigre Construction Site Visit / Not Ready</b>		
<i>Report</i>	<i>\$ Amount</i>	
88181128.0503	\$140.00	
<b>Total</b>		<b>\$140.00</b>

<b>RFI 483 Mechanical Angle/Beam</b>		
<i>Report</i>	<i>\$ Amount</i>	
88181128.1013	\$0.00	
<b>Total</b>		<b>\$0.00</b>

<b>Total</b>	<b>\$14,223.50</b>
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<b>RFI's</b>
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<b>RFI 487 (Anchor, Bolt , Welding Inspection</b>	
<i>Report</i>	<i>\$ Amount</i>
88181128.0983	\$507.50
88181128.0984	\$572.50
88181128.0985	\$377.50
88181128.0989	\$377.50
88181128.0990	\$247.50
88181128.0993	\$247.50
88181128.0994	\$312.50
88181129.0995	\$502.50
88181128.1003	\$502.50
88181128.1010	\$502.50
<b>Total</b>	
	<b>\$4,150.00</b>

<b>RFI 402.3 Parapet Wall(Dowel, Concrete)</b>	
<i>Report</i>	<i>\$ Amount</i>
88181128.0986	\$321.25
88181128.0988	\$277.50
88181128.0991	\$338.00
88181128.0997	\$225.00
88181128.1000	\$247.50
88181128.1002	\$285.00
88181128.1005	\$225.00
88181128.1006	\$292.50
88181128.1007	\$247.50
88181128.1008	\$225.00
88181128.1009	\$340.00
88181128.1011	\$0.00
88181128.1015	\$256.25
88181128.1016	\$225.00
88181128.1017	\$292.50
<b>Total</b>	
	<b>\$3,798.00</b>

<b>TOTAL</b>	<b>\$7,948.00</b>
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