



CITY OF ATLANTA

Kasim Reed
Mayor

SUITE 1900
55 TRINITY AVENUE, SW
ATLANTA, GA 30303
(404) 330-6204 Fax: (404) 658-7705
Internet Home Page: www.atlantaga.gov

DEPARTMENT OF PROCUREMENT
Adam L. Smith, Esq., CPPO, CPPB, CPPM, CPP,
CIPC, CISCC, CIGPM
Chief Procurement Officer
asmith@atlantaga.gov

September 10, 2015

Dear Bidders:

**Re: FC-8314 Domestic CV & Taxi Hold Lot Relocation at
Hartsfield-Jackson Atlanta International Airport**

Attached is one (1) copy of **Addendum No. 1**, which is hereby, made a part of the above-referenced project.

For additional information, please contact Mr. Philippe Jefferson, Contracting Officer at (404) 865-8565, or via e-mail at pejefferson@atlantaga.gov.

Sincerely,

Adam L. Smith

ALS:pej



Addendum No. 1

**Re: FC-8314 Domestic CV & Taxi Hold Lot Relocation at
Hartsfield-Jackson Atlanta International Airport**

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This Addendum forms a part of the Invitation to Bid and modifies the original solicitation package and any prior addenda as noted below.

1. REVISION TO PART 1, INFORMATION AND INSTRUCTIONS TO BIDDERS, SECTION 3, MINIMUM QUALIFICATIONS.
2. REVISION TO PART II, EXHIBIT "B" SPECIAL CONDITIONS.
3. REVISION TO PART II, EXHIBIT "C" QUANTITIES, PRICING AND DATA.
4. REVISION TO PART II, EXHIBIT "D" CONSTRUCTION SAFETY AND HEALTH PLAN (NON-OCIP).
5. REVISION TO PART II, EXHIBIT "E" SCOPE OF WORK AND TECHNICAL SPECIFICATION.
6. REVISION TO PART II, EXHIBIT "F" INDEX OF DRAWINGS
7. REVISION TO APPENDIX A OFFICE OF CONTRACT COMPLIANCE
8. APPENDIX B REPORTS

Bids are due **Wednesday, September 23, 2015**, should be time stamped in no later than 2:00 p.m., and delivered to the address below:

Adam L. Smith, Esq., CPPO, CPPB, CPPM, CPP, CIPC, CISCC, CIGPM
Chief Procurement Officer
Department of Procurement
55 Trinity Avenue, S.W.
Suite 1900
Atlanta, Georgia 30303

**** All other information remains unchanged ****



Addendum No. 1

**Re: FC-8314 Domestic CV & Taxi Hold Lot Relocation at
Hartsfield-Jackson Atlanta International Airport**

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Acknowledgment of Addendum No. 1

Bidders must sign below and return this form with Bids to the Department of Procurement, 55 Trinity Avenue, City Hall South, Suite 1900, Atlanta, Georgia 30303 as acknowledgment of receipt of this Addendum.

This is to acknowledge receipt of Addendum No. 1 for **FC-8314, Domestic CV & Taxi Hold Lot Relocation at Hartsfield-Jackson Atlanta International Airport** on this the _____ day of _____, 2015.

Legal Company Name of Proponent

Signature of Authorized Representative

Printed Name

Title

Date



MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE

PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

The following questions and/or clarifications were requested by various Contractors:

1.	Question:	During construction multiple changes in alignment, width, and grade on the pedestrian walkways will be required to accommodate construction phasing. Will the City of Atlanta require additional measures beyond the characteristics of the existing sidewalk?
	Answer:	<i>All temporary pedestrian walkways must maintain the detectability and accessibility consistent with the existing walkways. Since the existing walkways have railings and signage, these would need to be maintained for the new walkways. Of particular note, the Contractor must make sure that a barrier is installed across any closed sidewalks so that it can be detected by visually impaired individuals.</i>
2.	Question:	It is requested that the City of Atlanta provide an administrative NTP 90 calendar days in advance of the construction NTP. The anticipated NTP is January 25, 2016. An administrative NTP is requested by October 25, 2016 in order to meet submittal and approval requirements.
	Answer:	<i>Only one NTP is issued per contract. NTP is issued once contract is signed by the Mayor and issued to the Contractor. Contractor, at his discretion, may submit project documents eight (8) days following City Council approval and prior to NTP.</i>
3.	Question:	Will the limousine parking be relocated to the parking decks by the issuance of the construction NTP?
	Answer:	<i>Yes, the limousines will move out of the existing parking area prior to start of construction.</i>
4.	Question:	Will signage above the requirements of GDOT and OSHA standards be required?
	Answer:	<i>Assuming this is in regards to the West Curb, temporary wayfinding signage as shown in the plans and as required during pedestrian walkway shifts will be required. Payment for this signage is to be paid for under Pedestrian Traffic Control SP-4-2. Any additional signage will be paid for under the Wayfinding Signage allowance in SP-14.</i>
5.	Question:	If the contractor performs all preparatory work prior to the hotel shuttle traffic shift it remains a possibility that the gate arm and access controller will malfunction based on recent experience. Will the City of Atlanta establish an item for new temporary gate arms?

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	Answer:	<i>The intent as noted in the Plans is to move the gate arms in one night prior to the Hotel shift. If the gate arms are not operational the next morning, the Contractor shall be responsible for paying for a Ground Transportation employee to monitor access until the gate arm becomes operational. If the Contractor does not want to assume the risk associated with this arrangement, they may elect to purchase new equipment at their cost.</i>
6.	Question:	If the City of Atlanta requires changes in pedestrian and/or traffic control above the requirements of MUTCD or GDOT will the City of Atlanta reduce the review time (45 days) in order to reduce the contract time extension?
	Answer:	<i>The 45 day requirement applies to the Contractor’s traffic control submittal. Any Contractor induced changes must adhere to this 45 day requirement. If major changes are warranted by Owner during construction, review time will be expedited accordingly.</i>
7.	Question:	Can the contractor begin utility location prior to issuance of a construction NTP?
	Answer:	<i>Contractor may at their own risk.</i>
8.	Question:	Contract terms require removal of below slab items that are encountered. Will the City of Atlanta provide as built information to determine scope of below slab removals?
	Answer:	<i>P-150 pay items will be revised. Removal of concrete foundations will be measured for payment by the cubic yard, up to 4 feet deep, below existing ground level. Measurement will be made only of the volume of the actual concrete mass removed. A second pay item will be added as an allowance for foundations that go beyond 4 feet in depth, below existing ground level.</i>
9.	Question:	Can the City of Atlanta provide existing utility information for those facility owner/operators that are not members of UPC?
	Answer:	<i>Major utility contacts are listed on Sheet C09.00.1. The Contractor must work with the CM for proper DOA utility locate procedures. The CM is familiar with the process and will provide appropriate contact information for these utilities. It should be noted that not all utilities have as-built data available, in particular, the West Curb area.</i>
10.	Question:	Is the contractor responsible for temporary utilities and removal cost for any facility other than those indicated in the plans?

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	Answer:	<i>Temporary utilities other than those shown on the Plans may be necessary depending on Contractor’s means, methods, and phasing. For example, the new lift station must be in service before the existing lift station is decommissioned. To accomplish this, the Contractor may or may not need to provide temporary power to the new lift station depending on the Contractor’s schedule. These types of temporary utilities are incidental to the Contract. The West Curb Phase 1 temporary utilities are part of the lump sum cost of the GTC work as well.</i>
11.	Question:	The contract terms require the removal of “deep concrete foundations” regardless of depth. Since the size of the foundations are unknown, will the City of Atlanta establish an allowance for foundations removal?
	Answer:	<i>See response to Question 8.</i>
12.	Question:	Is the continuous noise limit for work in the GTC similar to the OSHA noise limits or is the continuous noise limit modified in the GTC area?
	Answer:	<i>Contractor shall adhere to OSHA decibel level requirements in the West GTC area. Any work expected to be above these limits should be performed during night hours as indicated in the Volume 2 plans and the Contractor shall be required to close the closest pedestrian walkway to that work. As noted in the Plans, at least one pedestrian walkway must remain open during night hours to accommodate West Economy Lot users. The Contractor shall be required to place temporary signage during these walkway closures to direct these users.</i>
13.	Question:	In order to determine means and methods for demolition within the GTC limits what will be the maximum allowable air shock limit as well as the maximum allowable particle velocity?
	Answer:	<i>To reduce pedestrian discomfort, guillotine-type/ramming demolition methods will not be permitted in the West GTC area. PCC shall be sawcut and removed rather than pulverized on site. No blasting is permitted in the West GTC Area. Any other operations that might lead to excessive noise or vibration shall adhere to the response to Question 12 above. A separate pay item will be added to P-150 for the West Curb pavement removal due to the difference in removal methods.</i>

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14.	Question:	<p>The contract provides that the contractor verify the existence, location, and sizes of all utilities within the project area prior to beginning construction. The Georgia Utility Facilities Protection Act (GUFPA) places the responsibility on the facility owner/operator to:</p> <ul style="list-style-type: none">a. Determine whether or not utility facilities are located on the land upon which excavation is to occurb. Designation of the location of utility facilitiesc. Provide information to the excavator on determination and designation of utility facilities <p>Will the City of Atlanta establish a utility allowance for relocation (if required) and repair (if required)?</p>
	Answer:	<p><i>The Owner and Engineer have performed some utility investigation as part of the establishment of existing conditions which included ground survey of visible above-ground features and a review of asbuilt documents that were available. However, note that not all asbuilt data was available and a potholing investigation was not performed. It should also be noted that no utility investigation at any level ever guarantees complete accuracy of existing utilities. The Act noted does not relieve the Contractor from their responsibility to perform their own due diligence utility investigation to protect their employees.</i></p> <p><i>Utility conflicts that are not identified on the Plans and are unexpected will be dealt with on a RFI basis. If the utility conflict leads to unforeseen additional work beyond the scope of the contract, a change order will be issued.</i></p>
15.	Question:	<p>The phasing for bridge construction requires traffic to be maintained in the aisle under span 1 or either the aisle under span 2. To maintain continuity of operation (pile driving, substructure construction, girder erection, all construction, etc.) traffic will be shifted between the aisles as needed on multiple occasions. Please confirm that the parking spaces in zone 6A and zone 6B remain closed for bridge and wall construction.</p>
	Answer:	<p><i>The intent is for the Contractor to adhere to the Phasing plans shown. This means that each area must be fenced off and closed at separate times. Once one area is completed, the fence must be removed and parking spaces opened. This requirement does not include parking spaces that will be permanently "taken" by the proposed construction such as walls. If the Contractor would like to shift between the two areas</i></p>

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		<i>multiple times, the fence and parking must be reestablished each time.</i>
16.	Question:	Will the city require asphalt be performed by a City of Atlanta prequalified asphalt paving contractor?
	Answer:	<i>No, a prequalified asphalt paving Contractor will not be required. It is highly recommended that the Contractor utilize an asphalt paving Contractor experienced with the type of scope being performed as indicated in the drawings and who can complete the work satisfactorily within the time period allowed.</i>
17.	Question:	Will the City of Atlanta please confirm the statement made at the pre-bid that Demolition and Asbestos Abatement work will <u>not</u> be OCIP enrolled and those subcontractors are only required to provide their own COI that meet DOA limits of coverage.
	Answer:	<i>Excluded Party(ies): Material Hauler(s), contract haulers or truckers, architects/engineers, consultants, manufacturing representatives, vendors, Suppliers, material dealers, guard services, janitorial services, food services, or others merely making deliveries to or pickups from the Jobsite are excluded from the OCIP coverage. In addition, EIFS Contractors, <u>asbestos abatement</u> or other hazardous material Contractors, <u>demolition or blasting Contractors</u>, and Contractors whose contracts are less than \$20,000 <u>are excluded from the OCIP coverage.</u></i> <i>NOTE: although not covered under the OCIP, all Excluded Parties performing work onsite are required to complete the online OCIP registration in order to provide satisfactory evidence of insurance in compliance with all minimum insurance requirements detailed in this manual.</i>
18.	Question:	What role is envisioned by DOA for a PE-Structural Engineer during the demolition of the Hertz Deck. <ul style="list-style-type: none"> a. Is that Structural Engineer to be onsite full-time during demo or only occasionally making spot visits? b. Does the Structural Engineer review that demo plan? My experience is they will not stamp a demo plan.
	Answer:	<i>The intent of the structural engineer required in specification P-151 is to review the Contractor’s proposed plan of demolition and to write a letter that states the engineer has reviewed the demolition plan and deems it</i>

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		<i>to be a sound plan given the information presented. This requirement is intended to prevent an unintended partial collapse of the structure during demolition that might put personnel, the public, and Contractor's property at risk. The engineer is not required to be on site at all times but shall make site visits as the Contractor deems appropriate to meet the intent of the requirement as noted.</i>
19.	Question:	<p>Would the City of Atlanta please confirm the haul-route for out-bound demo debris trucking.</p> <p>a. Is this egress from east of the deck onto the merge for the exit onto South Loop Rd – will DOA prescribe a specific site egress?</p> <p>b. Is trucking permitted through the terminal area?</p>
	Answer:	<i>As noted in the Plans, trucking is not permitted in front of the North and South Terminals. CV Lot area haul route is as shown in the Construction Control Plan and egress shall be per South Riverdale Connector. West GTC Curb egress shall be per South Terminal Parkway. Hertz Facility egress will be via North Terminal Parkway onto the current haul route under the Sky Train. If for some reason, this haul route is no longer available, egress shall be per the southbound Airport Blvd onto Riverdale Road.</i>
20.	Question:	<p>DOA indicated that the demo was to be complete in the first 100 days of the project; this schedule is attainable if demo permits are “in-hand” at the start of that period. Permitting can take 3-4 weeks, sometime longer.</p> <p>a. Will City of Atlanta/DOA be providing the COA demo permit & LDP or are those applications and fees to be the responsibility of the demo contractor?</p> <p>b. Are the demo permit and the demo contractor separate, or will they just be made part of the larger LDP for the entire job?</p>
	Answer:	<i>Contractor is responsible for obtaining demo and LDP permits.</i>
21.	Question:	DOA indicated the demo subcontractor was to put up a 100% payment bond to the GC – is no Performance bond required?
	Answer:	<i>Performance and Payment Bonds are required by the successful Bidder per Exhibit “D”.</i>
22.	Question:	Would the City of Atlanta consider providing the A-1 Bid Form in an excel

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		format for the contractor to fill out and submit?
	Answer:	No.
23.	Question:	After a review of the A-1 bid form and quantifying all of the allowances, there seems to be in excess of \$3,500,000.00 in allowances established for this project. Will the contractor be required to include these allowances when calculating the dollars needed for the EBO goals?
	Answer:	Contractors will be required to calculate their EBO participation commitment using their base bid amount. However, additional participation should be included whenever the contract allowances are utilized base on the total contract amount.
24.	Question:	On Form A-1 item # SP-2-1 shows a unit price of \$2,500,000.00. The extension price for this item is listed with \$1,800,000.00. Would the City please clarify the correct allowance amount?
	Answer:	Correct allowance amount is \$2,500,000.00. Form A-1 has been revised.
25.	Question:	On Form A-1 item # P-602-1 shows prime coat to be paid by the linear foot. Would the city please review this item to determine if this should be paid by the gallon?
	Answer:	Item to be paid for by the gallon. Form A-1 has been revised.
26.	Question:	On Form A-1 item # P-603-1 shows tack coat to be paid by the linear foot. Would the city please review this item to determine if this should be paid by the gallon?
	Answer:	Item to be paid for by the gallon. Form A-1 has been revised.
27.	Question:	On Form A-1 item # 627-1000 shows MSE WALL FACE 0-10 FT to be paid by the square yard. Would the city please review this item to determine if this should be paid by the square foot?
	Answer:	Item to be paid for by the square foot. Form A-1 has been revised.
28.	Question:	On Form A-1 item # 627-1010 shows MSE WALL FACE 10-20 FT to be paid by the square yard. Would the city please review this item to determine if this should be paid by the square foot?
	Answer:	Item to be paid for by the square foot. Form A-1 has been revised.

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29.	Question:	On Form A-1 item # 627-1020 shows MSE WALL FACE 20-30 FT to be paid by the square yard. Would the city please review this item to determine if this should be paid by the square foot?
	Answer:	<i>Item to be paid for by the square foot. Form A-1 has been revised.</i>
30.	Question:	On Form A-1 item # 653-0220 shows THERMOPLASTIC PVMT MARKING, WORD, TP 20 -"STOP" to be paid by the square foot. Would the city please review this item to determine if this should be paid by each?
	Answer:	<i>Pavement marking pay items have been revised. Form A-1 has been revised.</i>
31.	Question:	Plan sheet C19.01.1 shows soil boring locations. Would the City provide the boring logs that pertain to this plan sheet?
	Answer:	<i>Boring logs and geo-tech report will be included as part of Addendum 1.</i>
32.	Question:	Drawing C 19.01.1 shows soil borings taken around the project site. Please provide the soil boring logs and data.
	Answer:	<i>Boring logs and geo-tech report will be included as part of Addendum 1.</i>
33.	Question:	On Form A-1, Bid item SP-2-1 shows a unit price of \$2,500,000 and an amount of \$1,800,000. Please clarify what the allowance amount is.
	Answer:	<i>Correct allowance amount is \$2,500,000.00. Form A-1 has been revised.</i>
34.	Question:	Drawing C 03.10A.1, Note 5 states additional drawings of the existing Hertz garage are available upon request. Please provide all additional drawings.
	Answer:	<i>The drawings that are currently available were included at the end of Exhibit E, Volume 2 in the original bid documents.</i>
35.	Question:	In Exhibit C, Form A, Schedule of Quantities and Prices, 07) states that the contractor shall include the cost, in their base bid, of automobile liability and builders' risk insurance per Exhibit D. However, Exhibit D, which outlines the terms and coverages in the OCIP, indicates that the Owner will be providing the builders' risk insurance. Please confirm whether or not the contractor shall include the cost of builders' risk insurance in their bid or if it should be excluded from the bid.
	Answer:	<i>The City of Atlanta has determined that the OCIP is a "Bid Net" program, which means that Contractor's charges for the insurance coverages provided by the Owner must be EXCLUDED from bid(s). The successful Contractor must warrant that its base price for the original scope of work</i>

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		<i>and subsequent change orders will EXCLUDE all insurance charges for the coverages provided by the Owner for the Jobsite, including workers' compensation, employers' liability, general liability, excess liability, builders' risk, and contractors' pollution liability.</i>
36.	Question:	Please provide a copy of any reports or other information about the environmental plume located in the EPD Remediation Area noted on the drawings.
	Answer:	<i>Environmental report will be included as part of Addendum 1.</i>
37.	Question:	SP-2-1 indicates a unit price of \$2.5 million and an extension of \$1.8 million, which is correct for this allowance item?
	Answer:	<i>Correct allowance amount is \$2,500,000.00. Form A-1 has been revised.</i>
38.	Question:	SP 6-1 Watering for dust control indicates a LS on Form A-1, but the written provision states it's an hourly rate, which is correct?
	Answer:	<i>Item to be paid for by the hour. Form A-1 has been revised.</i>
39.	Question:	Does the project require a Atlanta Hartsfield Jackson prequalified asphalt paver and if so, who are these?
	Answer:	<i>See response to question #16.</i>
40.	Question:	If we desire to perform a pre-bid asbestos evaluation are we able to get this scheduled with the City of Atlanta?
	Answer:	<i>No, bid should be based on what's included in report.</i>
41.	Question:	Can there be an extension of 1 week to ask additional questions due to the complexity of the project?
	Answer:	<i>No.</i>
42.	Question:	Must the Prequalified PCC Roadway Paver submit the key subcontractor evaluation forms, or is the recent approval by the city enough?
	Answer:	<i>No additional documents are required. Recent approval by the City is sufficient.</i>
43.	Question:	Will the concrete in the building be required to include lithium?

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	Answer:	<i>No. Only P-501 PCC requires lithium.</i>
44.	Question:	Section 2 (c) of the P-209 specification states that crushed recycled concrete for base course must be sourced from “regional” salvaged material stockpiles and that qualification must be documented by the material supplier and submitted. However, Section 2 (a) - 1 of the P-209 specification states that the Engineer will conduct the necessary testing to get P-209 aggregate approved for use. For concrete demolished from the project (parking deck), crushed, and reused as P-209 graded aggregate base on this project, will the Engineer conduct the necessary testing to get this material approved for use as stated in section 2 (a) - (1) of the P-209 project specifications?
	Answer:	<i>The Contractor’s QC shall be responsible for the referenced P-209 testing. Language in P-209 will be revised.</i>
45.	Question:	Regarding the Bridge - is Stay-in-Place Metal Decking acceptable to use?
	Answer:	<i>It is acceptable to use stay-in-place metal deck forms.</i>

ADDENDUM #1

1. REVISION TO PART 1, INFORMATION AND INSTRUCTIONS TO BIDDERS

Delete: Minimum Qualifications, 3.2, in its entirety.

Replace with: Either each and every member of the Joint Venture or the Joint Venture as an entity must be qualified and licensed to operate in the business of General Contracting and submit a valid Georgia General Contractor's License with its bid.

Delete: Minimum Qualifications, 3.6, in its entirety.

Replace with: Each Bidder participating in this procurement must utilize a Pre-Qualified Contractor or Registered Subcontractor with the Georgia Department of Transportation who has a minimum of five (5) years' experience and demonstrate experience in placement of new roadway concrete bridge structure on three (3) projects, each of which have been in service at least three (3) years. Bidder must complete Form 10, Bridge PCCP Paving Qualification Statement. If the Bidder is utilizing a Subcontractor to fulfill this requirement, that Subcontractor will be designated as an essential subcontractor per Exhibit B, Special Conditions, Section SC-09 and Exhibit C, Form "B", Essential Subcontractor Qualification Statement must also be completed.

Delete: Form 6.1, Certification of Insurance Ability, in its entirety.

Replace with: Form 6.1, Certification of Insurance Ability, attached to this Addendum

Delete: Form 6.2, Certification of Bonding Ability, in its entirety.

Replace with: Form 6.2, Certification of Bonding Ability, attached to this Addendum

2. REVISION TO PART II, EXHIBIT "B" SPECIAL CONDITIONS

Delete: 2.2 Intermediate Milestones, in its entirety.

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Replace with: **2.2 Intermediate Milestones. CONTRACTOR shall complete the following intermediate milestones under this Contract:**

NO.	CONTRACT MILESTONES
1.	<i>CONTRACTOR shall achieve Substantial Completion of the entire project on or before Three Hundred and Thirty (330) Calendar Days from Notice to Proceed, which includes the Contractor vacating the secondary staging area. Please refer to Drawing G 03.03.1.</i>
2.	<i>CONTRACTOR shall achieve Substantial Completion of the Hertz Facility Demolition on or before One hundred (100) Calendar Days from Notice to Proceed.</i>
3.	<i>CONTRACTOR shall achieve Substantial Completion of Park and Ride Lot C Expansion on or before 100 calendar days from Notice to Proceed.</i>
4.	<i>CONTRACTOR shall achieve Substantial Completion of AT&T ductbank and site prep for installation of GA Power transformer on or before 100 calendar days from Notice to Proceed.</i>
5.	<i>CONTRACTOR shall provide O&M manuals, warranties and As-Builts within Sixty (60) calendar days from the date of substantial completion of the entire project.</i>

Delete: 3.1 Estimated Liquidated Damages, in its entirety.

Replace with: **3.1 Estimated Liquidated Damages. The parties hereby agree that the damages which CITY to determine with certainty and, therefore, have in good faith estimated as fair compensation, the Liquidated Damages as set forth below. If CONTRACTOR fails to deliver the equipment or materials or perform the services within the times specified in this Contract for the established Milestones & Substantial Completion, or any extensions granted in writing, the CONTRACTOR shall pay to CITY as fixed, agreed, and Liquidated Damages for each calendar**

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day of delay the sum(s) specified below, which amounts shall be independently calculated as follows:

NO.	BASE BID CONTRACT MILESTONES	LIQUIDATED DAMAGES
1.	<i>CONTRACTOR shall achieve Substantial Completion on the entire project on or before Three Hundred and Thirty (330) Calendar Days from Notice to Proceed, which includes the Contractor vacating the secondary staging area. Please refer to Drawing G 03.03.1.</i>	<i>Two Thousand Dollars and Zero Cents (\$2,000.00) per calendar day.</i>
2.	<i>CONTRACTOR shall achieve Substantial Completion of the Hertz Facility Demolition on or before One hundred (100) Calendar Days from Notice to Proceed.</i>	<i>Two Thousand Dollars and Zero Cents (\$2,000.00) per calendar day.</i>
3.	<i>CONTRACTOR shall achieve Substantial Completion of Park and Ride Lot C Expansion on or before 100 calendar days from Notice to Proceed.</i>	<i>Two Thousand Dollars and Zero Cents (\$2,000.00) per calendar day.</i>
4.	<i>CONTRACTOR shall achieve Substantial Completion of AT&T ductbank and site prep for installation of GA Power transformer on or before 100 calendar days from Notice to Proceed.</i>	<i>Two Thousand Dollars and Zero Cents (\$2,000.00) per calendar day.</i>
5.	<i>CONTRACTOR shall complete the LEED paperwork and submittal documentation required in the Contract documents to a level</i>	<i>Two Hundred and Fifty Thousand Dollars and Zero Cents (\$250,000.00).</i>

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NO.	BASE BID CONTRACT MILESTONES	LIQUIDATED DAMAGES
	<p><i>that generates approval by the project's GBCI LEED review and results in full points being achieved, as identified in the Specification 01 81 13 LEED Scorecard, for the following LEED pre-requisites and credits:</i></p> <ul style="list-style-type: none"> • <i>SSp1 Construction Activity Pollution Prevention</i> • <i>EAp1 Fundamental Commissioning of the Building Energy Systems</i> • <i>EAc3 Enhanced Commissioning</i> • <i>EAc6 Green Power</i> • <i>IEQc3.1 Construction IAQ Management Plan: During Construction</i> • <i>IEQc3.2 Construction IAQ Management Plan: Before Occupancy</i> • <i>MRc2 Construction Waste Management</i> • <i>MRc4 Recycled Content</i> • <i>MRc5 Regional Materials</i> • <i>MRc7 Certified Wood</i> • <i>IEQc4.1 Low-Emitting Materials: Sealants and Adhesives</i> • <i>IEQc4.2 Low-Emitting Materials: Paints and Coatings</i> • <i>IEQc4.3 Low-Emitting Materials: Flooring Systems</i> • <i>IEQc4.4: Low Emitting Materials: Composite</i> 	

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PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

NO.	BASE BID CONTRACT MILESTONES	LIQUIDATED DAMAGES
	<i>Wood & Agrifiber Products Composite Wood & Agrifiber Products</i>	
6.	<i>CONTRACTOR shall provide O&M manuals, warranties and As-Builts within Sixty (60) calendar days from the date of substantial completion of the entire project.</i>	<i>Five Hundred Dollars and Zero Cents (\$500.00) per calendar day.</i>

Delete: 20.2 Closures, in its entirety.

Replace with: 20.2 Closures. Roadway, Runway and Taxiway closures at any time, or duration, are prohibited during the following holidays:

20.2.1 Memorial Day Weekend: Thursday through Tuesday

20.2.2 Labor Day Weekend: Thursday through Tuesday

20.2.3 One week prior to Thanksgiving through the Monday after Thanksgiving

20.2.4 One week prior to Christmas day through one week after New Year's Day

3. REVISION TO PART II, EXHIBIT "C" QUANTITIES, PRICING AND DATA

Delete: Form A-1, Schedule of Unit & Lump Sum Prices, in its entirety.

Replace with: Revised Form A-1, Schedule of Unit & Lump Sum Prices, attached to this Addendum.

Delete: Form C, Preliminary Contract Schedule, in its entirety.

Replace with: Revised Form C, Preliminary Contract Schedule, attached to this Addendum.

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE

PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

Delete: Form D, Project Organization and Work Plan, in its entirety.

Replace with: Revised Form D, Project Organization and Work Plan, attached to this Addendum.

4. REVISION TO PART II, EXHIBIT “D” CONSTRUCTION SAFETY AND HEALTH PLAN (NON-OCIP)

Delete: Footer at the bottom of pages 1-22, “Permanent Solution to Sewer Force Main Break”, in its entirety.

Replace with: FC-8314 | Domestic CV & Taxi Hold Lot Relocation.

5. REVISION TO PART II, EXHIBIT “E” SCOPE OF WORK AND TECHNICAL SPECIFICATION

Delete: Specification Item SP-4, Traffic and Pedestrian Control, in its entirety.

Replace with: Specification Item SP-4, Traffic and Pedestrian Control, attached to this Addendum.

Delete: Specification Item SP-5, Utility Coordination and Scheduling, in its entirety.

Replace with: Specification Item SP-5, Utility Coordination and Scheduling, attached to this Addendum.

Delete: Specification Item SP-13, LEED Allowances, in its entirety.

Replace with: Specification Item SP-13, LEED Allowances, attached to this Addendum.

Delete: Specification Item SP-14, Miscellaneous Signage, in its entirety.

Replace with: Specification Item SP-14, Miscellaneous Signage, attached to this Addendum.

Delete: Specification Item P-150, Removal of Pavements and Miscellaneous Items, in its entirety.

Replace with: Specification Item P-150, Removal of Pavements and Miscellaneous Items, attached to this Addendum.

Delete: Specification Item P-151, Hertz Facility Demolition, in its entirety.

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE

PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

Replace with: ***Specification Item P-151, Hertz Facility Demolition, attached to this Addendum.***

Delete: Specification Item P-153, Controlled Low Strength Material (CLSM), in its entirety.

Replace with: ***Specification Item P-153, Controlled Low Strength Material (CLSM), attached to this Addendum.***

Delete: Specification Item P-209, Recycled Concrete Crushed Aggregate Base Course, in its entirety.

Replace with: ***Specification Item P-209, Recycled Concrete Crushed Aggregate Base Course, attached to this Addendum.***

Delete: Specification Item P-660, Concrete Filled Steel Guard Posts, in its entirety.

Replace with: ***Specification Item P-660, Concrete Filled Steel Guard Posts, attached to this Addendum.***

Delete: Specification Item D-701, Pipe for Storm Drains, in its entirety.

Replace with: ***Specification Item D-701, Pipe for Storm Drains, attached to this Addendum.***

Delete: Specification Item F-162, Fences, in its entirety.

Replace with: ***Specification Item F-162, Fences, attached to this Addendum.***

Delete: Specification Item F-170, Wayfinding Signage, in its entirety.

Replace with: ***Specification Item F-170, Wayfinding Signage, attached to this Addendum.***

Delete: Specification Item T-901, Seeding, in its entirety.

Replace with: ***Specification Item T-901, Seeding, attached to this Addendum.***

Delete: Specification Item G-100, GDOT Specifications, in its entirety.

Replace with: ***Specification Item G-100, GDOT Specifications, attached to this***

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE

PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

Addendum.

Delete: Specification Item LS-100, Lift Station, in its entirety.

Replace with: Specification Item LS-100, Lift Station, attached to this Addendum.

Delete: Specification Item LS-14600, Bridge Crane and Hoist, in its entirety.

Replace with: Specification Item LS-14600, Bridge Crane and Hoist, attached to this Addendum.

Addition: Specification Item 01 7823, Operation and Maintenance Data

Delete: Specification Item 01 7900, Demonstration and Training, in its entirety.

Replace with: Specification Item 01 7900, Demonstration and Training, attached to this Addendum.

Delete: Specification Item 03 3000, Cast-in-Place Concrete, in its entirety.

Replace with: Specification Item 03 3000 Cast-in-Place Concrete, attached to this Addendum.

Delete: Specification Item 07 4213, Insulated Metal Wall Panels, in its entirety.

Replace with: Specification Item 07 4213, Insulated Metal Wall Panels, attached to this Addendum.

Delete: Specification Item 07 7100, Roof Specialties, in its entirety.

Replace with: Specification Item 07 7100, Roof Specialties, attached to this Addendum.

Delete: Specification Item 07 7200, Roof Accessories, in its entirety.

Replace with: Specification Item 07 7200, Roof Accessories, attached to this Addendum.

Delete: Specification Item 08 4113, Aluminum-framed Entrances and Storefronts, in its entirety.

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE

PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

Replace with: ***Specification Item 08 4113, Aluminum-framed Entrances and Storefronts, attached to this Addendum.***

Delete: Specification Item 08 8000, Glazing, in its entirety.

Replace with: ***Specification Item 08 8000, Glazing, attached to this Addendum.***

Addition: ***Specification Item 08 8010, Dynamic Glazing, attached to this Addendum.***

Delete: Specification Item 10 1419, Dimensional Letter Signage, in its entirety.

Replace with: ***Specification Item 10 1419, Dimensional Letter Signage, attached to this Addendum.***

Delete: Specification Item 10 1423, Panel Signage, in its entirety.

Replace with: ***Specification Item 10 1423, Panel Signage, attached to this Addendum.***

Delete: Specification Item 10 7313, Fabric Canopies, in its entirety.

Replace with: ***Specification Item 10 7313, Fabric Canopies, attached to this Addendum.***

Delete: ***Specification Item 12 2113, Horizontal Louver Blinds, in its entirety.***

Delete: Specification Item 16375, Electrical Distribution System, Underground, in its entirety.

Replace with: ***Specification Item 16375, Electrical Distribution System, Underground, attached to this Addendum.***

Delete: Specification Item 22 0000, Plumbing, in its entirety.

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE

PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

Replace with: **Specification Item 22 0000, Plumbing, attached to this Addendum.**

Delete: Specification Item 23 0000, Mechanical General, in its entirety.

Replace with: **Specification Item 23 0000, Mechanical General, attached to this Addendum.**

Delete: Specification Item 23 0923, Building Automation System, in its entirety.

Replace with: **Specification Item 23 0923, Building Automation System, attached to this Addendum.**

Delete: Specification Item 26 3100, Photovoltaic Collectors, in its entirety.

Replace with: **Specification Item 26 3100, Photovoltaic Collectors, attached to this Addendum.**

Delete: Specification Item 26 7160, Communications Backbone Cabling, in its entirety.

Replace with: **Specification Item 26 7160, Communications Backbone Cabling, attached to this Addendum.**

Delete: Specification Item 32 9300, Plants, in its entirety.

Replace with: **Specification Item 32 9300, Plants, attached to this Addendum.**

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE
PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

6. REVISION TO PART II, EXHIBIT “F” INDEX OF DRAWINGS

VOLUME NO. 1

G 00.01.1 COVER SHEET

G 01.01.1 INDEX OF DRAWINGS

G 01.02.1 INDEX OF DRAWINGS

G 01.03.1 INDEX OF DRAWINGS

G 01.04.1 INDEX OF DRAWINGS

G 01.05.1 INDEX OF DRAWINGS

G 03.01.1 OVERALL SITE PLAN

G 03.02.1 CV AND TAXI HOLD LOT OVERALL SITE PLAN

G 04.01.1 OVERALL PHASING PLAN

G 04.02.1 ZONE 3 AND 4 TERMINAL PARKWAY CONSTRUCTION CONTROL

G 04.03.1 ZONE 3 AND 4 TRAFFIC CONTROL DETAILS

G 04.04.1 ZONE 5 AVIATION BLVD CONN. LANE CLOSURE

G 04.05.1 ZONE 6 TERMINAL PARKWAY LANE CLOSURE

G 04.06.1 TRAFFIC CONTROL DETAILS

*G 08.01.1 TEMPORARY MARKING AND FENCING PLAN PARK AND RIDE LOT C ZONE
CONSTRUCTION (NEW)*

G 09.01.1 SAFETY PLAN (NEW)

C 01.02.1 TYPICAL SECTIONS AND PAVEMENT DETAILS

C 01.03.1 TYPICAL SECTIONS AND PAVEMENT DETAILS

C 02.01.1 GEOMETRIC CONTROL PLAN

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE
PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

C 03.01.1 DEMOLITION PLAN

C 03.02.1 DEMOLITION PLAN

C 03.03.1 DEMOLITION PLAN

C 03.04.1 DEMOLITION PLAN

C 03.06.1 DEMOLITION PLAN

C 03.07.1 DEMOLITION PLAN

C 03.09.1 DEMOLITION PLAN

C 03.10A.1 DEMOLITION PLAN PARKING DECK

C 03.13.1 DEMOLITION PLAN UTILITIES

C 03.14.1 DEMOLITION PLAN UTILITIES

C 03.16.1 DEMOLITION PLAN UTILITIES

C 03.17.1 DEMOLITION PLAN UTILITIES

C 03.18.1 DEMOLITION PLAN UTILITIES

C 04.01.1 GEOMETRY AND PAVING PLAN

C 04.02.1 GEOMETRY AND PAVING PLAN

C 04.03.1 GEOMETRY AND PAVING PLAN

C 04.04.1 GEOMETRY AND PAVING PLAN

C 04.07.1 GEOMETRY AND PAVING PLAN

C 04.08.1 GEOMETRY AND PAVING PLAN

C 04.10.2 PAVING AND GRADING PARK AND RIDE LOT "C" (NEW)

C 05.12.1 JOINT DETAILS

VOLUME II

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE
PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

G 50.01.1 COVER SHEET

G 51.01.1 GTC RELOCATION INDEX OF DRAWINGS

G 54.06.1 GTC CANOPY RELOCATION CONSTRUCTION PHASING (NEW)

C 51.01.1 TYPICAL SECTIONS GTC RELOCATION

C 54.01.1 GTC RELOCATION PHASE 1 GEOMETRY AND PAVING PLAN

C 54.02.1 GTC RELOCATION PHASE 1 GEOMETRY AND PAVING PLAN

C 54.11.1 RETAINING WALL DETAILS GTC RELOCATION

C 55.01.1 GTC RELOCATION JOINT PLAN

C 55.02.1 GTC RELOCATION JOINT PLAN

C 56.01.1 GTC RELOCATION PROFILES

C 58.01.1 GTC RELOCATION DRAINAGE PLAN

C 58.02.1 GTC RELOCATION DRAINAGE PLAN

C 58.03.1 GTC RELOCATION DRAINAGE PROFILES LINES WC1 AND WC2

C 58.03.2 GTC RELOCATION DRAINAGE PROFILES (NEW)

C 58.04.1 DRAINAGE DETAILS

C 59.01.1 GTC RELOCATION UTILITY PLAN

C 62.01.1 PHASE I GTC RELOCATION SIGNAGE AND MARKING PLANS

C 62.02.1 GTC RELOCATION SIGNAGE AND MARKING PLANS

C 62.10.1 GTC RELOCATION WAYFINDING SIGNAGE DEMOLITION PLAN (NEW)

C 62.11.1 GTC RELOCATION WAYFINDING SIGNAGE DEMOLITION PLAN (NEW)

C 62.12.1 GTC RELOCATION WAYFINDING SIGNAGE DEMOLITION PLAN (NEW)

C 62.13.1 GTC RELOCATION WAYFINDING SIGNAGE PARK RIDE PHASING PLAN (NEW)

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE
PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

C 62.21.1 WAYFINDING GTC MODIFICATIONS SIGN LOCATIONS- TEMPORARY CONDITIONS

C 62.22.1 WAYFINDING GTC MODIFICATIONS TEMPORARY CONDITIONS- SIGN MESSAGE SCHEDULE

C 62.23.1 WAYFINDING GTC MODIFICATIONS TEMPORARY CONDITIONS- SIGN MESSAGE SCHEDULE

C 62.24.1 WAYFINDING GTC MODIFICATIONS - FINAL CONFIGURATION

C 62.25.1 WAYFINDING GTC MODIFICATIONS SIGN FACE LAYOUTS

C 62.25.2 WAYFINDING GTC MODIFICATIONS SIGN FACE LAYOUTS (NEW)

C 62.26.1 WAYFINDING GTC MODIFICATIONS SIGN MESSAGE SCHEDULE

C 62.27.1 WAYFINDING GTC MODIFICATIONS SIGN MESSAGE SCHEDULE

C 62.31.1 WAYFINDING GTC MODIFICATIONS SIGN MESSAGE SCHEDULE

C 62.32.1 WAYFINDING GTC MODIFICATIONS SIGN MESSAGE SCHEDULE

C 62.34.1 WAYFINDING GTC MODIFICATIONS SIGN MESSAGE SCHEDULE

A 51.01.1 ARCHITECTURAL SITE PLAN

A 52.01.1 FLOOR PLAN

A 52.02.1 FLOOR PLAN AREA A

A 52.03.1 FLOOR PLAN AREA B

A 52.04.1 FLOOR PLAN AREA C

A 52.05.1 FLOOR AND ROOG PLAN AREA D

A 52.06.1 FLOOR AND ROOF PLAN AREA E

A 52.07.1 PHASE I CANOPIES (NEW)

A 55.01.1 SECTIONS

MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE
PROJECT NUMBER FC-8314 – DOMESTIC CV & TAXI HOLD LOT RELOCATION

ADDENDUM #1

A 55.02.1 SECTIONS

A 55.03.1 SECTIONS (NEW)

A 55.04.1 SECTIONS (NEW)

A 56.06.1 OVERALL ROOF PLAN (NEW)

E 51.01.1 GTC RELOCATION ELECTRICAL DEMOLITION PLAN

E 51.02.1 GTC RELOCATION PROPOSED ELECTRICAL PLAN

E 53.01.1 GTC RELOCATION PHASE 1 ELECTRICAL DEMOLITION PLAN

SS 51.01.1 GTC RELOCATION SPECIAL SYSTEMS DEMOLITION PLAN

SS 51.02.1 GTC RELOCATION PROPOSED SPECIAL SYSTEMS PLAN

7. REVISION TO APPENDIX A OFFICE OF CONTRACT COMPLIANCE

Delete: EBO Form 3, Equal Business Opportunity Subcontractor Project Plan / Subcontractor/Supplier Utilization”, in its entirety.

Replace with: EBO Form 3, Equal Business Opportunity Subcontractor Project Plan / Subcontractor/Supplier Utilization, attached to this Addendum.

8. APPENDIX B REPORTS

Addition: CV and Taxi Hold Lot Bridge and Walls Geotech Report

Addition: CV and Taxi Hold Lot Geotech Report

Addition: Environmental Plume Coordination Memo

FORM 6.1

Certification of Insurance Ability

Instructions: Offerors must submit a completed copy of this form executed by their insurance company. Failure to submit a completed form will result in the Offeror being deemed non-responsive.

I, _____ [insert an individual's name],
on behalf of _____ [insert insurance company name],
a _____ [insert type of entity LLC, LLP, corporation, etc.](“Insurer”), hereby
represent and certify each of the following to the City of Atlanta, a municipal corporation of the State of
Georgia (“City”) on this _____ day of _____, 20____ [insert date]:

- (a) Insurer is licensed by the Insurance and Safety Fire Commissioner of the State of Georgia to transact insurance business in the State of Georgia;
- (b) Insurer has reviewed the Agreement attached to the solicitation for Project Number FC-8314, DOMESTIC CV & TAXI HOLD LOT RELOCATION (“Project”) and its Exhibit D; and
- (c) Insurer certifies that if, as of the date written above, _____ (“Offeror”) was selected as the successful Offeror for the Project, Insurer would provide insurance to Offeror for this Project in accordance with the terms set forth in Exhibit D attached to the Service Agreement.

PLEASE NOTE: If this form is executed by an Attorney-in-Fact, then Insurer must attach a copy of a duly executed Power-of-Attorney evidencing such authority in addition to correctly completing this form. If Offeror is unable to provide City with insurance that comply with the terms of Exhibit D attached to the Service Agreement within ten (10) days of receiving notice of intent to award the Project from the City, the City may, in its sole discretion, retain Offeror’s security submitted with its offer and/or disqualify Offeror from further consideration for the award of the Agreement.

By executing this certification, Insurer represents that all of the information provided by Insurer herein is true and correct as of the date set forth above.

Insurer: [insert company name on line provided below]

By: _____

Print Name: _____

Title: _____

Corporate Secretary/Assistant Secretary
(Seal)

FORM 6.2

Certification of Bonding Ability

Instructions: Offeror must submit a completed copy of this form executed by their surety. Failure to submit a completed form will result in the Offeror being deemed non-responsive.

I, _____ [insert an individual's name],
on behalf of _____ [insert surety full company name],
a _____ [insert type of entity LLC, LLP, corporation, etc.] ("Surety"), hereby
represent and certify each of the following to the City of Atlanta, a municipal corporation of the State of
Georgia ("City") on this _____ day of _____, 20____ [insert date]:

- (a) Surety is licensed by the Insurance and Safety Fire Commissioner of the State of Georgia to transact surety business in the State of Georgia;
- (b) Surety has reviewed the Agreement attached to the solicitation for Project Number **FC-8314, DOMESTIC CV & TAXI HOLD LOT RELOCATION** ("Project") and its Exhibit D;
- (c) Surety certifies that if, as of the date written above, _____ ("**Offeror**") was selected as the successful Offeror for the Project, Surety would provide bonding to Offeror for this Project in accordance with the terms set forth in Exhibit D attached to the Service Agreement; and
- (d) The Surety states that Offeror's uncommitted bonding capacity (not taking into account this Project) is approximately \$ _____ (U.S.). Surety's statement set forth in this Section does not represent a limitation of the bonding capacity of Offeror or that Offeror will have the bonding capacity noted above at the time of contract execution for this Project.

PLEASE NOTE: If this form is executed by an Attorney-in-Fact, then Surety must attach a copy of a duly executed Power-of-Attorney evidencing such authority in addition to correctly completing this form. If Offeror is unable to provide City with bonds that comply with the terms of Exhibit D attached to the Service Agreement within ten (10) days of receiving notice of intent to award the Project from the City, the City may, in its sole discretion, retain Offeror's security submitted with its offer and/or disqualify Offeror from further consideration for the award of the Agreement.

By executing this certification, Surety represents that all of the information provided by Surety herein is true and correct as of the date set forth above.

Surety: [insert company name on line provided below]

By: _____

Print Name: _____

Title: _____

Corporate Secretary/Assistant Secretary
(Seal)

**CITY OF ATLANTA
DEPARTMENT OF AVIATION
HARTSFIELD-JACKSON ATLANTA INTERNATIONAL AIRPORT**

**FC-8314
DOMESTIC CV & TAXI HOLD LOT RELOCATION
EXHIBIT "C"**

REVISED FORM A-1 SCHEDULE OF UNIT & LUMP SUM PRICES

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
SP-1-1	LUMP SUM	L.S., MOBILIZATION, AT _____ _____ PER LUMP SUM				
SP-2-1	ALLOWANCE	AS REQUIRED, PROJECT CONTINGENCY, AT <u>TWO MILLION FIVE HUNDRED THOUSAND DOLLARS</u> <u>AND ZERO CENTS</u> PER ALLOWANCE	2,500,000	00	2,500,000	00
SP-3-1	ALLOWANCE	AS REQUIRED, <i>TOWING VEHICLES</i> , AT <u>TWENTY FIVE THOUSAND DOLLARS AND ZERO CENTS</u> _____ PER ALLOWANCE	25,000	00	25,000	00
SP-4-1	LUMP SUM	L.S., TRAFFIC CONTROL, AT _____ _____ PER LUMP SUM				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
SP-4-2	LUMP SUM	L.S., PEDESTRIAN TRAFFIC CONTROL FOR GTC INCLUDING TEMPORARY CANOPIES AND LIGHTING, AT _____ _____ PER LUMP SUM				
SP-5-1	LUMP SUM	L.S., UTILITY COORDINATION & SCHEDULING, AT _____ _____ PER LUMP SUM				
SP-6-1	1,000	L.S., WATERING FOR DUST CONTROL, AT _____ _____ PER HOUR				
SP-7-1	LUMP SUM	L.S., AS-BUILTS, AT _____ _____ PER LUMP SUM				
SP-8-1	LUMP SUM	L.S., BUILDING CONSTRUCTION, COMPLETE AT _____ _____ PER LUMP SUM				
SP-9-1	LUMP SUM	L.S., ELECTRICAL SYSTEMS, CV AND TAXI HOLD LOT AREA, COMPLETE, AT _____ _____ PER LUMP SUM				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
SP-9-2	LUMP SUM	L.S., ELECTRICAL SYSTEMS, GTC AREA, COMPLETE, AT _____ _____ PER LUMP SUM				
SP-10-1	LUMP SUM	L.S., SPECIAL SYSTEMS, CV AND TAXI HOLD LOT AREA, COMPLETE, AT _____ _____ PER LUMP SUM				
SP-10-2	LUMP SUM	L.S., SPECIAL SYSTEMS, GTC AREA, COMPLETE, AT _____ _____ PER LUMP SUM				
SP-11-1	LUMP SUM	L.S., PHOTOVOLTAIC ARRAY SYSTEM, COMPLETE, AT _____ _____ PER LUMP SUM				
SP-12-1	ALLOWANCE	AS REQUIRED, ENVIRONMENTAL REMEDIATION AREA CONTINGENCY, AT <u>FIVE HUNDRED THOUSAND DOLLARS AND ZERO CENTS</u> _____ PER ALLOWANCE	500,000	00	500,000	00
SP-13-1	ALLOWANCE	AS REQUIRED, CHARGER, AT <u>TWENTY THOUSAND DOLLARS AND ZERO CENTS</u> _____ PER ALLOWANCE	20,000	00	20,000	00
SP-13-2	ALLOWANCE	AS REQUIRED, GREEN CREDITS, AT <u>SEVEN THOUSAND DOLLARS AND ZERO CENTS</u> _____ PER ALLOWANCE	7,000	00	7,000	00

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
SP-13-3	ALLOWANCE	AS REQUIRED, PLAQUE, AT <u>TEN THOUSAND DOLLARS AND ZERO CENTS</u> PER ALLOWANCE	10,000	00	10,000	00
SP-13-4	ALLOWANCE	AS REQUIRED, TRAINING, AT <u>TWENTY FIVE THOUSAND DOLLARS AND ZERO CENTS</u> PER ALLOWANCE	25,000	00	25,000	00
SP-13-5	ALLOWANCE	AS REQUIRED, PRE-OCCUPANCY AIR CONTAMINANT TESTING, AT <u>TWENTY THOUSAND DOLLARS AND ZERO CENTS</u> PER ALLOWANCE	20,000	00	20,000	00
SP-14-1	ALLOWANCE	AS REQUIRED, <i>MISCELLANEOUS SIGNAGE</i> , AT <u>FIVE HUNDRED THOUSAND DOLLARS AND ZERO CENTS</u> PER ALLOWANCE	500,000	00	500,000	00
SP-15-1	LUMP SUM	L.S., PERMANENT CANOPIES, COMPLETE, AT _____ _____ PER LUMP SUM				
SP-15-2	1,310	L.F., HANDRAIL, AT _____ _____ PER LINEAR FOOT				
SP-15-3	39	EA., TRASH RECEPTACLE, AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
SP-15-4	54	EA., BENCH, AT _____ _____ PER EACH				
SP-15-5	2	EA., PAY STATION RELOCATION, AT _____ _____ PER EACH				
SP-16-1	ALLOWANCE	AS REQUIRED, PROJECT CONTINGENCY / EMERGENCY SERVICES, AT <u>ZERO DOLLARS AND ZERO CENTS</u> _____ _____ PER ALLOWANCE	0	00	0	00
P-150-1	63,600	S.Y., REMOVAL OF PAVEMENT, INCLUDING BASE COURSE, VARIABLE THICKNESS, LOT AREA, AT _____ _____ PER SQUARE YARD				
P-150-2	1,970	L.F., REMOVAL OF STORM PIPES, 15" DIAMETER OR GREATER , AT _____ _____ PER LINEAR FOOT				
P-150-3	80	L.F., FILLING OF ABANDONED PIPES, 15" DIAMETER OR GREATER , AT _____ _____ PER LINEAR FOOT				
P-150-4	200	L.F., REMOVAL OF SANITARY PIPES , AT _____ _____ PER LINEAR FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
P-150-5	40	EA, UTILITY AND DRAINAGE STRUCTURE REMOVAL , AT _____ _____ PER EACH				
P-150-6	6,500	L.F., REMOVAL OF FENCE , AT _____ _____ PER LINEAR FOOT				
P-150-7	135	L.F., GUARDRAIL REMOVAL , AT _____ _____ PER LINEAR FOOT				
P-150-8	87	EA, POLE FOUNDATION REMOVAL , AT _____ _____ PER EACH				
P-150-9	5,000	C.Y., MISCELLANEOUS CONCRETE REMOVAL INCLUDING REINFORCING, AT _____ _____ PER CUBIC YARD				
P-150-10	8	EA, REMOVE AND RELOCATE SIGNS , AT _____ _____ PER EACH				
P-150-11	9	EA, REMOVE SIGNS , AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
P-150-12	1	EA, REMOVE FIRE HYDRANT ASSEMBLY , AT PER EACH				
P-150-13	LUMP SUM	L.S., LIFT STATION DEMOLITION, COMPLETE, AT PER LUMP SUM				
P-150-14	990	L.F., HANDRAIL DEMOLITION, AT PER LINEAR FOOT				
P-150-15	310	L.F., TRENCH DRAIN DEMOLITION, AT PER LINEAR FOOT				
P-150-16	LUMP SUM	L.S., CANOPY DEMOLITION, COMPLETE, AT PER LUMP SUM				
P-150-17	9,300	L.F., CURB AND GUTTER DEMOLITION, AT PER LINEAR FOOT				
P-150-18	3,000	S.Y., REMOVAL OF PAVEMENT, INCLUDING BASE COURSE, VARIABLE THICKNESS, WEST GTC CURB AREA, AT PER SQUARE YARD				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
P-150-19	575	S.Y., 2-INCH MILLING, AT _____ _____ PER SQUARE YARD				
P-150-20	ALLOWANCE	AS REQUIRED, DEEP FOUNDATION REMOVAL, AT <u>ONE HUNDRED THOUSAND DOLLARS AND ZERO</u> <u>CENTS</u> PER ALLOWANCE	100,000	00	100,000	00
P-151-1	LUMP SUM	L.S., HERTZ FACILITY DEMOLITION, COMPLETE, AT _____ _____ PER LUMP SUM				
P-152-1	15,000	C.Y., IN PLACE EMBANKMENT, AT _____ _____ PER CUBIC YARD				
P-152-2	375	C.Y., BACKFILL, AT _____ _____ PER CUBIC YARD				
P-152-3	55,600	S.Y., PREPARATION OF SUBGRADE, AT _____ _____ PER SQUARE YARD				
P-152-4	500	C.Y., TRENCH ROCK EXCAVATION, AT _____ _____ PER CUBIC YARD				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
P-152-5	1,000	C.Y., ROCK EXCAVATION, AT _____ _____ PER CUBIC YARD				
P-156-1	LUMP SUM	L.S., SEDIMENT/EROSION CONTROL, AT _____ _____ PER LUMP SUM				
P-156-2	5,700	L.F., SILT FENCE , AT _____ _____ PER LINEAR FOOT				
P-156-3	125	EA, INLET SEDIMENT TRAP , AT _____ _____ PER EACH				
P-156-4	5	EA, CONSTRUCTION ENTRANCE/EXIT , AT _____ _____ PER EACH				
P-156-5	LUMP SUM	L.S., TEMPORARY SEDIMENT PONDS, AT _____ _____ PER LUMP SUM				
P-156-6	1,900	S.Y., SLOPE MATTING, AT _____ _____ PER SQUARE YARD				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
P-209-1	13,200	C.Y., CRUSHED AGGREGATE BASE COURSE, AT _____ _____ PER CUBIC YARD				
P-501-1	8,400	S.Y., NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 10" THICK, AT _____ _____ PER SQUARE YARD				
P-501-2	5,500	S.Y., REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 10" THICK, AT _____ _____ PER SQUARE YARD				
P-501-3	100	S.Y., NON-REINFORCED VARIABLE DEPTH PORTLAND CEMENT CONCRETE PAVEMENT, 10"-13" THICK, AT _____ _____ PER SQUARE YARD				
P-501-4	275	S.Y., REINFORCED VARIABLE DEPTH PORTLAND CEMENT CONCRETE PAVEMENT, 10"-13" THICK, AT _____ _____ PER SQUARE YARD				
P-602-1	18,500	GAL., BITUMINOUS PRIME COAT, AT _____ _____ PER GALLON				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
P-603-1	5,600	GAL., BITUMINOUS TACK COAT, AT <i>PER GALLON</i>				
P-605-1	25,000	L.F., COLD APPLIED SEALANT, CONTRACTION, CONSTRUCTION, LONGITUDINAL JOINTS, AT <i>PER LINEAR FOOT</i>				
P-605-2	80	L.F., ASPHALT/ PCC JOINT, AT <i>PER LINEAR FOOT</i>				
P-605-3	2,400	L.F., COLD APPLIED SEALANT, EXPANSION JOINTS, AT <i>PER LINEAR FOOT</i>				
P-615-1	7,100	L.F., CONCRETE CURB AND GUTTER, AT <i>PER LINEAR FOOT</i>				
P-615-2	2,400	S.Y., CONCRETE SIDEWALK AND ISLAND PAVING, AT <i>PER SQUARE YARD</i>				
P-615-3	150	S.Y., CONCRETE DRIVEWAYS, AT <i>PER SQUARE YARD</i>				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
P-615-4	1	EA, CONCRETE BUMPER BLOCKS , AT _____ _____ PER EACH				
P-615-5	4	EA, EQUIPMENT PADS , AT _____ _____ PER EACH				
P-615-6	1,000	L.F., RIBBON CURB, AT _____ _____ PER LINEAR FOOT				
P-615-7	3,150	L.F., HEADER CURB, AT _____ _____ PER LINEAR FOOT				
P-615-8	170	S.Y., CONCRETE SLOPE PAVING, AT _____ _____ PER SQUARE YARD				
P-615-9	200	C.Y., MISCELLANEOUS CONCRETE, AT _____ _____ PER CUBIC YARD				
P-621-1	7,200	S.F., PAVEMENT STRIPING AND MARKING REMOVAL, AT _____ _____ PER SQUARE FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
P-621-2	32,000	S.F., PERMANENT PAVEMENT STRIPING AND MARKING , AT _____ _____ PER SQUARE FOOT				
P-621-3	14,200	S.F., TEMPORARY PAVEMENT STRIPING AND MARKING , AT _____ _____ PER SQUARE FOOT				
P-660-1	105	EA, BOLLARD , AT _____ _____ PER EACH				
P-660-2	5	EA, REMOVABLE BOLLARD , AT _____ _____ PER EACH				
D-701-1	1,500	L.F., STORM SEWER, RCP, 15" DIAMETER, CLASS IV, AT _____ _____ PER LINEAR FOOT				
D-701-2	650	L.F., STORM SEWER, RCP, 18" DIAMETER, CLASS IV, AT _____ _____ PER LINEAR FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
D-701-3	1,300	L.F., STORM SEWER, RCP, 24" DIAMETER, CLASS IV, AT _____ _____ PER LINEAR FOOT				
D-701-4	500	L.F., STORM SEWER, RCP, 30" DIAMETER, CLASS IV, AT _____ _____ PER LINEAR FOOT				
D-701-5	4,170	L.F., PIPE BEDDING TYPE "C", AT _____ _____ PER LINEAR FOOT				
D-701-6	LUMP SUM	L.S., TRENCH AND EXCAVATION PROTECTION, AT _____ _____ PER LUMP SUM				
D-701-7	630	L.F., TRENCH DRAIN, VARIABLE DEPTH, AT _____ _____ PER LINEAR FOOT				
D-701-8	215	L.F., STORM SEWER, RCP, 15" DIAMETER, CLASS V, AT _____ _____ PER LINEAR FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
D-705-1	4,000	L.F., 6" PERFORATED UNDERDRAIN PIPE, AT PER LINEAR FOOT				
D-705-2	60	EA, UNDERDRAIN CLEANOUT, AT PER EACH				
D-705-3	400	C.Y., COARSE AGGREGATE UNDERDRAIN BACKFILL, #89 STONE, AT PER CUBIC YARD				
D-750-1	250	L.F., 4" DIP SANITARY SEWER PIPE, AT PER LINEAR FOOT				
D-750-2	890	L.F., 6" DIP SANITARY SEWER PIPE, AT PER LINEAR FOOT				
D-750-3	825	L.F., 8" DIP SANITARY SEWER PIPE, AT PER LINEAR FOOT				
D-750-4	125	L.F., 10" DIP SANITARY SEWER PIPE, AT PER LINEAR FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
D-750-5	1	EA, SANITARY MANHOLE DOGHOUSE , AT _____ _____ PER EACH				
D-750-6	7	EA, SANITARY MANHOLE , AT _____ _____ PER EACH				
D-750-7	1	EA, 8" SOLID SLEEVE CONNECTION , AT _____ _____ PER EACH				
D-750-8	180	L.F., 8" DIP FORCE MAIN, AT _____ _____ PER LINEAR FOOT				
D-750-9	4	EA, 8" RESILIENT SEATED GATE VALVE , AT _____ _____ PER EACH				
D-750-10	2	EA, SEWER LATERAL CLEANOUTS , AT _____ _____ PER EACH				
D-750-11	4	EA, ADJUST STRUCTURE TO GRADE , AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
D-750-12	2,025	L.F., PIPE BEDDING, TYPE "C", AT _____ _____ PER LINEAR FOOT				
D-750-13	LUMP SUM	L.S., TRENCH AND EXCAVATION PROTECTION, AT _____ _____ PER LUMP SUM				
D-750-14	250	L.F., 12" DIP SANITARY SEWER PIPE, AT _____ _____ PER LINEAR FOOT				
D-751-1	11	EA, 1019AP STANDARD PRECAST DROP INLET, TYPE A , AT _____ _____ PER EACH				
D-751-2	11	EA, 1019AP STANDARD PRECAST DROP INLET, TYPE B , AT _____ _____ PER EACH				
D-751-3	10	EA, 1019AP STANDARD PRECAST DROP INLET, TYPE C , AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
D-751-4	6	EA, 1019AP STANDARD PRECAST DROP INLET, TYPE E , AT _____ _____ PER EACH				
D-751-5	7	EA, 1019B STANDARD PRECAST DROP INLET TYPE V-1 , AT _____ _____ PER EACH				
D-751-6	3	EA, PRECAST JUNCTION CHAMBER , AT _____ _____ PER EACH				
D-751-7	6	EA, STORM SEWER MANHOLE, TYPE 1011A, AT _____ _____ PER EACH				
D-751-8	1	EA, DOGHOUSE MANHOLE , AT _____ _____ PER EACH				
D-751-9	11	EA, 1019AP STANDARD DOUBLE INLET, TYPE A , AT _____ _____ PER EACH				
D-751-10	1	EA, 1019AP STANDARD DOUBLE INLET, TYPE C , AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
D-751-11	4	EA, 1019AP STANDARD DOUBLE INLET, TYPE E , AT _____ _____ PER EACH				
D-751-12	5	EA, 1035 STANDARD DRAIN INLET, AT _____ _____ PER EACH				
D-751-13	11	EA, CONVERT EXISTING INLET TO A MANHOLE, AT _____ _____ PER EACH				
D-751-14	1	EA, LOWER AND CAP EXISTING INLET, AT _____ _____ PER EACH				
D-751-15	4	EA, RELOCATE EXISTING GRATE INLET, AT _____ _____ PER EACH				
D-751-16	1	EA, ADJUST EXISTING STRUCTURE TO GRADE (SINGLE BOX), AT _____ _____ PER EACH				
D-751-17	5	EA, TRENCH DRAIN JUNCTION BOX , AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
D-751-18	1	EA, 72 INCH DIA OUTLET CONTROL STRUCTURE, AT _____ _____ PER EACH				
D-751-19	1	EA, 96 INCH DIA OUTLET CONTROL STRUCTURE, AT _____ _____ PER EACH				
D-751-20	1	EA, 72 INCH DIA MANHOLE WITH BAFFLE WATER QUALITY OVERFLOW SPLITTER , AT _____ _____ PER EACH				
D-751-21	4	EA, ADJUST EXISTING STRUCTURE TO GRADE (DOUBLE BOX), AT _____ _____ PER EACH				
D-751-22	1	EA, 1019B STANDARD PRECAST DROP INLET TYPE V-2 , AT _____ _____ PER EACH				
D-751-23	1	EA, DOGHOUSE DROP INLET, AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
D-760-1	LUMP SUM	L.S., WATER QUALITY CONTROL STRUCTURE, COMPLETE, AT _____ _____ PER LUMP SUM				
D-760-2	LUMP SUM	L.S., WATER QUALITY BIORETENTION PONDS, COMPLETE, AT _____ _____ PER LUMP SUM				
D-761-1	LUMP SUM	L.S., UNDERGROUND DETENTION SYSTEM, COMPLETE, AT _____ _____ PER LUMP SUM				
D-770-1	1	EA., GREASE INTERCEPTOR, AT _____ _____ PER EACH				
U-150-1	775	L.F., WATERLINE PIPE, 8 IN DIP, AT _____ _____ PER LINEAR FOOT				
U-150-2	200	L.F., WATERLINE PIPE, 6 IN DIP, AT _____ _____ PER LINEAR FOOT				
U-150-3	210	L.F., WATERLINE PIPE, 4 IN DIP, AT _____ _____ PER LINEAR FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
U-150-4	180	L.F., WATERLINE PIPE, 1-1/2 IN COPPER, AT PER LINEAR FOOT				
U-150-5	175	L.F., WATERLINE PIPE, 3 IN COPPER, AT PER LINEAR FOOT				
U-150-6	1	EA, FIRE SERVICE METER VAULT, AT PER EACH				
U-150-7	1	EA, FIRE SERVICE VALVE VAULT, AT PER EACH				
U-150-8	1	EA, WATER SERVICE METER VAULT, AT PER EACH				
U-150-9	1	EA, WATER SERVICE VALVE VAULT, AT PER EACH				
U-150-10	1	EA, 4 IN FIRE METER, AT PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
U-150-11	1	EA, 4 IN DOUBLE DETECTOR CHECK VALVE ASSEMBLY, AT _____ _____ PER EACH				
U-150-12	1	EA, 1-1/2 IN METER, AT _____ _____ PER EACH				
U-150-13	1	EA, 3 IN METER, AT _____ _____ PER EACH				
U-150-14	1	EA, 1-1/2 IN BACKFLOW PREVENTER ASSEMBLY, AT _____ _____ PER EACH				
U-150-15	1	EA, 3 IN BACKFLOW PREVENTER ASSEMBLY, AT _____ _____ PER EACH				
U-150-16	4	EA, FIRE HYDRANT, AT _____ _____ PER EACH				
U-150-17	1	EA, 8 IN TAPPING SLEEVE AND VALVE ASSEMBLY, AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
U-150-18	2	EA, 8 IN GATE VALVE, AT _____ _____ PER EACH				
U-150-19	5	EA, 6 IN GATE VALVE, AT _____ _____ PER EACH				
U-150-20	1	EA, 8 IN DUCTILE IRON SERVICE SADDLE (DOUBLE STRAP) AND VALVE, AT _____ _____ PER EACH				
U-150-21	110	LF, 1 IN COPPER WATER SERVICE, AT _____ _____ PER LINEAR FOOT				
U-150-22	1	EA, 1 IN WATER METER, AT _____ _____ PER EACH				
U-150-23	1	EA, METER BOX, AT _____ _____ PER EACH				
U-150-24	1	EA, 1 IN FROST PROOF YARD HYDRANT WITH REDUCED PRESSURE BACKFLOW PREVENTER, AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
U-150-25	8	EA, VALVE BOX, AT _____ _____ PER EACH				
U-150-26	13	C.Y., THRUST BLOCKING, AT _____ _____ PER CUBIC YARD				
U-150-27	1,800	L.F., PIPE BEDDING, AT _____ _____ PER LINEAR FOOT				
U-150-28	LUMP SUM	L.S., TRENCH AND EXCAVATION PROTECTION, AT _____ _____ PER LUMP SUM				
F-162-1	3,100	L.F., PERMANENT PVC COATED 8-FT TALL FENCE INCLUDING 3-STRANDS BARBED WIRE, AT _____ _____ PER LINEAR FOOT				
F-162-2	1,250	L.F., ARCHITECTURAL DECORATIVE FENCE INCLUDING MASONRY PEDESTALS, AT _____ _____ PER LINEAR FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
F-162-3	3	EA, 20' PVC COATED 8-FT TALL PERMANENT MANUAL DOUBLE SWING GATE INCLUDING KNOX BOX, AT _____ _____ PER EACH				
F-162-4	2	EA, PVC COATED 8-FT TALL PEDESTRIAN MANUAL SWING GATE INCLUDING KNOX BOX, AT _____ _____ PER EACH				
F-162-5	1	EA, PVC COATED 8-FT TALL PEDESTRIAN MANUAL SWING GATE WITHOUT KNOX BOX, AT _____ _____ PER EACH				
F-162-6	1	EA, 6' PVC COATED 8-FT TALL MANUAL MOWER SWING GATE WITHOUT KNOX BOX, AT _____ _____ PER EACH				
F-165-1	70	S.F., HIGHWAY SIGNS, TYPE 1 MATERIAL, REFLECTIVE SHEETING TYPE 3, AT _____ _____ PER SQUARE FOOT				
F-165-2	120	S.F., HIGHWAY SIGNS, TYPE 1 MATERIAL, REFLECTIVE SHEETING TYPE 9, AT _____ _____ PER SQUARE FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
F-165-3	80	S.F., HIGHWAY SIGNS, TYPE 2 MATERIAL, REFLECTIVE SHEETING TYPE 9, AT _____ _____ PER SQUARE FOOT				
F-165-4	720	L.F., GALVANIZED STEEL POSTS, TYPE 7 (2" DIA., 12' POLE), AT _____ _____ PER LINEAR FOOT				
F-165-5	125	L.F., GALVANIZED STEEL BREAKAWAY POSTS (2.25" DIA., 2' STUB), AT _____ _____ PER LINEAR FOOT				
F-170-1	5	EA., DESIGN, FURNISH, AND INSTALL ROADSIDE WAYFINDING SIGN INCLUDING POSTS, STRUCTURE, AND FOUNDATIONS, AT _____ _____ PER EACH				
F-170-2	1	EA., DESIGN, FURNISH, AND INSTALL OVERHEAD WAYFINDING SIGNS ON STRUCTURAL TRUSS SUPPORT SYSTEM INCLUDING FOUNDATIONS, AT _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
F-170-3	1	EA., REMOVE, SALVAGE, AND RELOCATE EXISTING OVERHEAD WAYFINDING SIGNS INCLUDING DESIGN AND INSTALLATION OF EXISTING STRUCTURAL TRUSS SUPPORT SYSTEM ON NEW FOUNDATIONS, AT _____ _____ PER EACH				
F-170-4	1	EA., FURNISH AND INSTALL OVERHEAD WAYFINDING SIGNS ON EXISTING STRUCTURAL TRUSS SUPPORT SYSTEM INCLUDING STRUCTURAL DESIGN VERIFICATION _____ _____ PER EACH				
F-170-5	7	EA., REMOVE AND RELOCATE EXSITING PARK AND RIDE 'EXIT' SIGN _____ _____ PER EACH				
F-170-6	8	EA., REMOVE AND RELOCATE EXSITING PARK AND RIDE AISLE SIGN _____ _____ PER EACH				
F-170-7	1	EA., FURNISH AND INSTALL NEW PARK AND RIDE 'EXIT' SIGN _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
F-170-8	1	EA., FURNISH AND INSTALL NEW PARK AND RIDE AISLE SIGN _____ _____ PER EACH				
F-170-9	LUMP SUM	L.S., EXISTING GTC AREA WAYFINDING SIGN DEMOLITION/ADJUSTMENTS _____ _____ PER LUMP SUM				
F-170-10	LUMP SUM	L.S., GTC AREA PHASE 1 WAYFINDING SIGNAGE MODIFICATIONS _____ _____ PER LUMP SUM				
F-170-11	38	EA., FURNISH AND INSTALL NEW INTERNALLY LIT GTC WAYFINDING SIGN, GROUND MOUNTED _____ _____ PER EACH				
F-170-12	43	EA., FURNISH AND INSTALL NEW GTC FLAG WAYFINDING SIGN, GROUND MOUNTED _____ _____ PER EACH				
F-170-13	10	EA., FURNISH AND INSTALL NEW GTC OVERHEAD WAYFINDING SIGN, MOUNTED TO CANOPY _____ _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
F-170-14	ALLOWANCE	AS REQUIRED, INTERNALLY LIT WAYFINDING SIGN ELECTRICAL AND COMMUNICATION INFRASTRUCTURE, AT <u>THREE HUNDRED THOUSAND DOLLARS AND ZERO</u> <u>CENTS</u> PER ALLOWANCE	300,000	00	300,000	00
T-901-1	16,500	S.Y., PERMANENT SEEDING, AT _____ _____ PER SQUARE YARD				
T-901-2	92,000	S.Y., TEMPORARY SEEDING, AT _____ _____ PER SQUARE YARD				
T-901-3	145	HR., WATERING SEEDED AREAS, AT _____ _____ PER HOUR				
T-904-1	9,650	S.Y., SODDING, AT _____ _____ PER SQUARE YARD				
T-904-2	90	HR., WATERING SODDED AREAS, AT _____ _____ PER HOUR				
T-905-1	2,000	C.Y., TOPSOIL, AT _____ _____ PER CUBIC YARD				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
T-908-1	96,300	S.Y., ASPHALT SPRAY MULCHING, AT _____ _____ PER SQUARE YARD				
207-0203	25	C.Y., FOUND BCKFILL, MATL, TYP II, AT _____ _____ PER CUBIC YARD				
211-0200	290	C.Y., BRIDGE EXCAVATION, GRADE SEPARATION, AT _____ _____ PER CUBIC YARD				
402-3141	4,280	TON, RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL, AT _____ _____ PER TON				
402-3143	8,410	TON, RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL, AT _____ _____ PER TON				
433-1300	235	S.Y., REINF CONC APPROACH SLAB, INCLD BARRIER, AT _____ _____ PER SQUARE YARD				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
500-0100	700	S.Y., GROOVED CONCRETE, AT _____ _____ PER SQUARE YARD				
500-1006	LUMP SUM	L.S., SUPERSTR CONCRETE, CLASS AA, (168), AT _____ _____ PER LUMP SUM				
500-1011	LUMP SUM	L.S., SUPERSTR CONCRETE, CLASS D, AT _____ _____ PER LUMP SUM				
500-2100	265	L.F., CONCRETE BARRIER, AT _____ _____ PER LINEAR FOOT				
500-3002	190	C.Y., CLASS AA CONCRETE, AT _____ _____ PER CUBIC YARD				
500-3115	105	L.F., CLASS A CONCRETE, TYPE P2, RETAINING WALL, AT _____ _____ PER LINEAR FOOT				
500-3201	26	C.Y., CLASS B CONCRETE, RETAINING WALL, AT _____ _____ PER CUBIC YARD				
507-9002	915	L.F., PSC BEAMS, AASHTO TYPE II, AT _____ _____ PER LINEAR FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
511-1000	26,400	LB, BAR REINF STEEL, AT _____ _____ <i>PER POUND</i>				
511-3000	<i>LUMP SUM</i>	L.S., SUPERSTR REINF STEEL, (39961), AT _____ _____ <i>PER LUMP SUM</i>				
520-1125	2,400	L.F., PILING IN PLACE, STEEL H, HP 12 X 53, AT _____ _____ <i>PER LINEAR FOOT</i>				
523-1000	3	EA, DYNAMIC PILE TEST, AT _____ _____ <i>PER EACH</i>				
621-3020	19	L.F., CONCRETE BARRIER, TYPE 20, AT _____ _____ <i>PER LINEAR FOOT</i>				
621-3021	180	L.F., CONCRETE BARRIER, TYPE 21, AT _____ _____ <i>PER LINEAR FOOT</i>				
621-3022	200	L.F., CONCRETE BARRIER, TYPE 22, AT _____ _____ <i>PER LINEAR FOOT</i>				
621-3120	50	L.F., CONCRETE BARRIER, TYPE 22A, AT _____ _____ <i>PER LINEAR FOOT</i>				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
621-3121	50	L.F., CONCRETE BARRIER, TYPE 22B, AT _____ PER LINEAR FOOT				
621-4020	90	L.F., CONCRETE SIDE BARRIER, TYPE 2, AT _____ PER LINEAR FOOT				
621-4021	25	L.F., CONCRETE SIDE BARRIER, TYPE 2A, AT _____ PER LINEAR FOOT				
621-4022	15	L.F., CONCRETE SIDE BARRIER, TYPE 2B, AT _____ PER LINEAR FOOT				
621-4060	85	L.F., CONCRETE SIDE BARRIER, TYPE 6, AT _____ PER LINEAR FOOT				
621-4080	470	L.F., CONCRETE SIDE BARRIER, TYPE 7R, AT _____ PER LINEAR FOOT				
621-4082	20	L.F., CONCRETE SIDE BARRIER, TYPE 7T, AT _____ PER LINEAR FOOT				
627-1000	2,600	S.Y., MSE WALL FACE, 0 – 10 FT HT, AT _____ PER SQUARE FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
627-1010	8,100	S.Y., MSE WALL FACE, 10 – 20 FT HT, AT _____ _____ <i>PER SQUARE FOOT</i>				
627-1020	1,700	S.Y., MSE WALL FACE, 20 – 30 FT HT, AT _____ _____ <i>PER SQUARE FOOT</i>				
627-1100	190	L.F., COPING A, AT _____ _____ <i>PER LINEAR FOOT</i>				
627-1160	830	L.F., TRAFFIC BARRIER H, AT _____ _____ <i>PER LINEAR FOOT</i>				
627-1180	82	C.Y., ADDITIONAL MSE BACKFILL, AT _____ _____ <i>PER CUBIC YARD</i>				
641-1100	90	L.F., GUARDRAIL, TP T, AT _____ _____ <i>PER LINEAR FOOT</i>				
641-1200	975	L.F., GUARDRAIL, TP W, AT _____ _____ <i>PER LINEAR FOOT</i>				
641-5001	3	EA., GUARDRAIL ANCHORAGE, TP 1, AT _____ _____ <i>PER EACH</i>				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
641-5012	5	EA., GUARDRAIL ANCHORAGE, TP 12, AT _____ PER EACH				
648-1350	2	EA., IMPACT ATTENUATOR UNIT, TYPE P-3-B-30, AT _____ PER EACH				
648-1351	1	EA., IMPACT ATTENUATOR UNIT, TYPE P-3-U-30, AT _____ PER EACH				
654-1001	114	EA., GDOT TYPE 1 PAVEMENT MARKERS YELLOW DETAIL 15B, AT _____ PER EACH				
654-1003	98	EA., GDOT TYPE 3 PAVEMENT MARKERS RED/WHITE DETAIL 15A, AT _____ PER EACH				
657-1054	7,600	L.F., PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, WHITE, TP PB, AT _____ PER LINEAR FOOT				
657-1084	330	L.F., 8" SOLID WHITE CROSS WALK STRIPE PREFORMED PLASTIC, AT _____ PER LINEAR FOOT				
657-1104	1,600	L.F., PREFORMED PLASTIC SOLID PVMT MKG, 10 IN, WHITE, TP PB, AT _____ PER LINEAR FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
657-1243	1,000	L.F., PREFORMED PLASTIC SOLID PVMT MKG, 24 IN, WHITE, TP PA, AT PER LINEAR FOOT				
657-3000	500	L.F., PREFORMED PLASTIC SOLID PVMT MKG, 10 IN, YELLOW, TP PB, AT PER LINEAR FOOT				
657-3054A	250	G.L.F., PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB 5 IN MINI SKIP (1' SEG., 3' GAP), AT PER GROSS LINEAR FOOT				
657-3054B	1,200	G.L.F., PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB 5 IN SKIP (2' SEG., 6' GAP), AT PER GROSS LINEAR FOOT				
657-3054C	1,800	G.L.F., PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB 5 IN SKIP (10' SEG., 30' GAP), AT PER GROSS LINEAR FOOT				
657-5014	10	EA., PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYM, WHITE, TP PB, WHITE YIELD TRIANGLE (36"X24"), AT PER EACH				
657-5017	2	EA., PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYM, ARROW TP 2, WHITE, TP PB, AT PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
657-5099A	6	EA., PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYM, PAVEMENT MARKING LANE REDUCTION ARROW, WHITE, TP PB, AT PER EACH				
657-5099B	13	EA., PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYM, PAVEMENT MARKING "RENTAL" & "CAR", WHITE, TP PB, AT PER EACH				
657-6054	4,900	L.F., PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB, AT PER LINEAR FOOT				
LS-100-1	LUMP SUM	L.S., LIFT STATION, AT PER LUMP SUM				
267160-1	LUMP SUM	L.S., CALL BOARD ASSEMBLY (INCLUDING CALL BOARD AND FOUNDATION/STRUCTURE), COMPLETE, AT PER LUMP SUM				
267160-2	28	100 LF., MULTI-MODE FIBER, AT PER 100 LINEAR FEET				
267160-3	875	LF., DUCT BANK (2-CELL), AT PER LINEAR FOOT				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
267160-4	1,900	LF., DUCT BANK (4-CELL), AT _____ PER LINEAR FOOT				
267160-5	320	LF., DUCT BANK (6-CELL), AT _____ PER LINEAR FOOT				
267160-6	5	EA., AT&T HAND HOLE, AT _____ PER EACH				
267160-7	18	EA., DOA HAND HOLE, AT _____ PER EACH				
329300-1	9	EA., ACER RUBRUM 'OCTOBER GLORY', AT _____ PER EACH				
329300-2	53	EA., QUERCUS NUTTALLII, AT _____ PER EACH				
329300-3	25	EA., QUERCUS PHELLOS 'HIGHTOWER', AT _____ PER EACH				
329300-4	6	EA., QUERCUS SHUMARDII, AT _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
329300-5	11	EA., BETULA NIGRA 'DURA-HEAT', AT _____ PER EACH				
329300-6	5	EA., LAGERSTROEMIA INDICA 'NATCHEZ', AT _____ PER EACH				
329300-7	8	EA., LAGERSTROEMIA INDICA 'SIOUX', AT _____ PER EACH				
329300-8	49	EA., CRYPTOMERIA J. 'YOSHINO', AT _____ PER EACH				
329300-9	103	EA., ILEX X 'NELLIE R. STEVENS', AT _____ PER EACH				
329300-10	97	EA., MYRICA CERIFERA, AT _____ PER EACH				
329300-11	44	EA., MAGNOLIA G. 'CLAUDIA WANNAMAKER', AT _____ PER EACH				
329300-12	11	EA., TAXODIUM DISTICHUM, AT _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
329300-13	40	EA., CORNUS SERICEA 'CARDINAL', AT _____ PER EACH				
329300-14	114	EA., ILEX C. 'BURFORDII COMPACTA', AT _____ PER EACH				
329300-15	105	EA., ILEX VOMITORIA 'NANA', AT _____ PER EACH				
329300-16	84	EA., ILEX VERTICILLATA 'NANA' RED SPRITE, AT _____ PER EACH				
329300-17	13	EA., MISCANTHUS SINENSIS 'GRACILLIMUS', AT _____ PER EACH				
329300-18	14	EA., ROSA 'KNOCK OUT PINK, AT _____ PER EACH				
329300-19	21	EA., ROSA 'PINK DRIFT', AT _____ PER EACH				
329300-20	35	EA., ECHINACEA PURPUREA 'MAGNUS', AT _____ PER EACH				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
329300-21	553	EA., HEMEROCALLIS 'HAPPY RETURNS', AT _____ PER EACH				
329300-22	357	EA., IRIS SIBERICA 'CAESAR'S BROTHER', AT _____ PER EACH				
329300-23	660	EA., LIRIOPE MUSCARI, AT _____ PER EACH				
329300-24	108	EA., RUDBECKIA F. GOLDSTRUM, AT _____ PER EACH				
329300-25	90	EA., SOLIDAGO RUGOSA 'FIREWORKS', AT _____ PER EACH				
329300-26	ALLOWANCE	AS REQUIRED, WEST GTC CURB IRRIGATION, AT <u>TWENTY THOUSAND DOLLARS AND ZERO CENTS</u> PER ALLOWANCE	20,000	00	20,000	00
	LUMP SUM	L.S., NON-OCIP INSURANCE COST FOR HERTZ FACILITY DEMOLITION AND ASBESTOS REMOVAL, AT _____ _____ PER LUMP SUM				

ITEM NO.	PRELIMINARY CONSTRUCTION QUANTITY	ITEM WITH UNIT OR LUMP SUM PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
		<p style="text-align: center;">TOTAL BASE BID</p> <hr/> <hr/> <hr/>				
	LUMP SUM	<p style="text-align: center;"><u>ADDITIVE ALTERNATE #1</u></p> <p>CONTRACTOR'S INSURANCE COST, AT</p> <hr/> <hr/> <p>PER LUMP SUM</p>				

EXHIBIT "C"

REVISED FORM C. PRELIMINARY CONTRACT SCHEDULE

In accordance with the Invitation to Bid (ITB) the Bidder shall submit a preliminary project schedule meeting the following requirements:

1. Produce the schedule in P6 software or equivalent.
2. Provide a hard copy of the schedule on 11" X 17" paper with a minimum font size of 10pt. The document shall be in color. The Critical Path shall be in Red.
3. Show the continuity and flow of the work.
4. The level of detail in the schedule shall match the level of detail in the Work Plan (FORM D).
5. The number of tasks shall be reasonable with the cost of the project and the baseline schedule requirements. (i.e., a bid of \$3 million would be approximately 20 construction tasks included, a bid of \$10 million would be over 40 construction tasks indicated).
6. Show all contract milestones as stated in SC-02, ***including the 30 days for approval of the safety and security plans prior to starting field work.***
7. Items that require long lead times for procurement and /or work requiring coordination with other agencies must be identified.

Failure to provide a preliminary schedule as described above may result in the bid being found non-responsive.

EXHIBIT "C"

REVISED FORM D. PROJECT ORGANIZATION AND WORK PLAN

In accordance with the Invitation to Bid (ITB) the Bidder shall submit information regarding the project Organization meeting the following requirements:

1. Organization chart with the names and titles of key personnel proposed to manage this project.
2. Organization chart shall include Representative whom Project Manager shall report to. A written description of representative's authority shall be defined.
3. A written description of the organization, defining lines of authority, responsibility, and communication.
4. A written description outlining the overall working of the organization with particular emphasis on Home Office/Site interfaces and the procedures for monitoring and controlling the work.

In accordance with the Invitation to Bid (ITB) the Bidder shall submit a detailed narrative project Work Plan. The intention of this work plan is for the Bidder to explain the means and methods used in making the preliminary schedule tasks occur as indicated in FORM "C". For the purposes of this submittal means and methods is defined as the resources made available and procedures or techniques to be used in meeting the preliminary schedule provided in FORM "C". The Work Plan shall meet the following requirements:

1. The level of detail in the Work Plan shall be the same as the level of detail in the schedule.
2. Discuss the plan for making all contract Milestones as stated in SC-2 and shown on the preliminary schedule, *including the preparation, submittal, and approval of the Safety and Security Plans prior to starting work in the field.*
3. Discuss the number of crews the bidder will utilize for the project. Show how and which crews will be associated with each scope of work.
4. Provide the work hours and days of work (i.e., 8 hours per day-6 days per week). These work hours and days of work shall be coordinated with and support the preliminary schedule in Form C and meet the contract requirements.
5. Identify any item of procurement or required coordination with other agencies that may be problematic or are critical to the completion of the work.
6. Include a description of the work the Bidder will self-perform and the work performed by Subcontractors. This is in addition to the information provided elsewhere since that information may not be available to the review of the Work Plan.
7. Detail the process for managing the LEED certification requirements. Identify how material disposal will be tracked and documented, how subcontractor activities will be managed in accordance with LEED specifications, and how the overall documentation process will be managed.

Failure to provide an organization and work plan as described above may result in the bid being found non-responsive.

EQUAL BUSINESS OPPORTUNITY SUBCONTRACTOR PROJECT PLAN
SUBCONTRACTOR/SUPPLIER UTILIZATION

List all Majority, Minority and Female Business Enterprise subcontractors/suppliers, including lower tiers, to be used on this project.

Name of Sub-contractor/ Supplier	City of Atlanta Supplier ID Number	Company Name, Address and Phone Number	City Of Atlanta Business License? (yes or no)	NAICS Code(s)	Type of Work to be Performed	Total Bid Amount			
						Ownership of Business (see code below)	Certification No. and Expiration Date	Dollar (\$) Value of Work & Scope of Work	Percentage of Total Bid Amount

Total MBE% _____ Total FBE% _____

Code: AABE - African American Business Enterprise, HABE – Hispanic American Business Enterprise, FBE – Female Business Enterprise.
 APABE – Asian (Pacific Islander) American Business Enterprise

FC#/Project Name: _____

Proponent's Co. Name: _____

Proponent's Contact Number: _____

Contact's Name: _____

Date: _____

(Please Print)

Submitted by
AECOM
March 24, 2015

HARTSFIELD-JACKSON ATLANTA INTERNATIONAL AIRPORT

DEPARTMENT OF AVIATION BUREAU OF PLANNING & DEVELOPMENT
DOMESTIC CV AND TAXI HOLD LOT RELOCATION

ENVIRONMENTAL PLUME COORDINATION MEMO

FINAL REPORT

MARCH 2015

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FIGURES

- Figure 1 – Former Rental Car Plume Areas – Option 1
- Figure 2 – Former Rental Car Plume Areas – Option 2
- Figure 3 – Former Rental Car Plume Areas – Option 3

1. INTRODUCTION

In preparation for the development of a new hotel and business park the Domestic CV and Taxi Hold Lot will be relocated. The location of the project is Hartsfield-Jackson Atlanta International Airport (HJAIA) landside. Site improvements necessary for the new hotel and business park will require extensive coordination with existing facilities, including the identification of underground and overhead utilities to be relocated or modified. Any existing known environmental plumes associated with the site should be addressed prior to or during construction. AECOM was tasked with review of historical environmental documents to identify environmental conditions, and then provide a plan to address any existing environmental conditions within the site.

1.1 Project Scope

AECOM was tasked with the environmental plume coordination for the proposed project area with an understanding that the results of this investigation will become part of the existing conditions basemap for the design project. Based on the requirements in the scope of work (SOW), AECOM completed the following:

- File review of existing documents related to past environmental investigations and remedial efforts at the site. Department of Aviation (DOA), Planning and Environmental (P&E) provided environmental and monitoring well data and documentation available to help evaluate the existing plumes in the old Rental Car Area.
- Site-reconnaissance visit by AECOM personnel.
- Plan of Action development, in coordination with DOA P&E, to address the known environmental plume in the area based on the results of the file review and field efforts.

1.2 Background

The overall proposed development areas coincide with five main former car rental agencies:

- Hertz Corporation (Hertz)
- National Auto Rental (Alamo/National)
- Avis Car Rental (Avis)
- Budget Rent A Car (Budget)
- Enterprise Leasing (Enterprise)

Due to the nature of their operation, the rental car facilities utilized fueling areas with underground storage tanks (USTs), with each tank typically containing 10,000 gallons of gasoline or diesel fuel. As a result of these fueling operations and aging facilities, the sites were in various stages of the Georgia Underground Storage Tank Management Program (USTMP). Depending on the severity of the impacts to soil and groundwater, the regulatory guidelines established by the Georgia Environmental Protection Division (EPD) require actions ranging from monitoring-only to active remediation.

All of the rental car facilities have been de-commissioned, which included the demolition/removal of facility buildings, fueling canopies and other above ground structures. Following the requirements of P&E, the decommissioning activities were conducted in 2010. The USTs and associated underground piping from the five sites were removed and properly closed as part of the decommissioning process.

The sites that have satisfied the requirements of the USTMP would have been granted a no further action (NFA) status by EPD and would be considered a closed site. Generally the monitoring wells associated with each closed site are abandoned so as not to create subsurface conduits of potential groundwater impacts.

AECOM reviewed files related to this project which included monitoring reports, UST closure forms, well abandonment reports, EPD correspondence, and corrective action plans. Out of the five rental car agencies, Hertz and National are still active EPD sites. The Avis, Budget, and Enterprise sites have been granted NFA status. The individual sites are discussed in the following sections.

Based on the file review and correspondence with stakeholders, AECOM determined the following:

- The former National Car rental space is the only active environmental site affected by the ABSolute Joint Venture (ABS) project.
- Hertz Rental Car Agency (Hertz) is the only other car rental area that is an active EPD site, and it is not within the teardrop development area.
- National Rental Car Agency (National) property files reviewed from P&E revealed no submittal to EPD later than 2008, at which time the consultant was proposing a

remediation system for active free product removal and lowering high dissolved benzene concentrations in groundwater.

2. ENVIRONMENTAL PLUME COORDINATION

2.1 Closed Sites

Of the five sites that were active in the USTMP, three have been granted NFA status by EPD. The Enterprise site was officially closed in March 2010, Avis was officially closed in August 2010, and Budget was officially closed in September 2010. Further, the Enterprise and Budget locations do not fall within the proposed redevelopment area. Although EPD reserves the right to re-open any site based on more stringent state or federal statutory or regulatory changes, or if new impacts to soil or groundwater are attributed to the original release, corrective remedial action is not necessary for these sites at this time. Following receipt of the NFA letters, the monitoring wells within each of the three sites were properly abandoned.

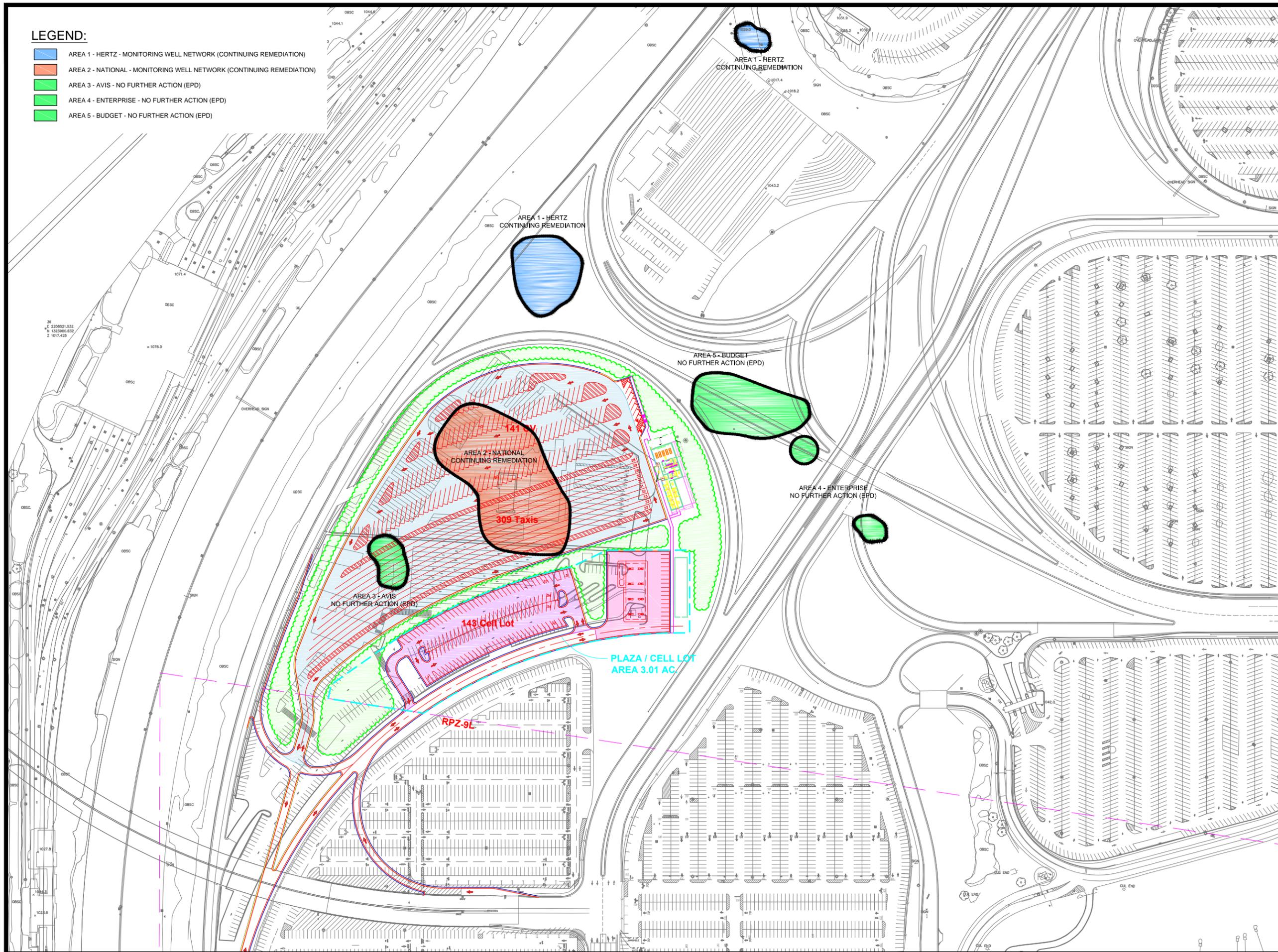
Figures 1, 2, and 3 below exhibit the approximate locations of the three sites' environmental plumes based on their monitoring well locations as they relate to the proposed Options 1, 2, and 3, respectively. Options 1, 2, and 3, are the proposed options for the area redevelopment.

2.2 Overview - Hertz Site

The Hertz site is located to the northeast of the proposed taxi lot relocation project (within the Inbound Roadways Project). The approximate location of Hertz' environmental plume(s) based on the monitoring well network is shown in **Figures 1, 2, and 3** as they relate to the three proposed options for the area redevelopment. Based on discussions with P&E and Hertz, the contractor (H-JDP) working in the area has been in communication with P&E when monitoring wells are encountered in the construction zone. The entire monitoring well network has been properly abandoned and reported to EPD. As of this writing, EPD regulators have been in contact with P&E regarding the installation of replacement wells, but the number of wells and configuration has not been finalized. In order to maintain adequate data for ongoing monitoring, a minimum of three monitoring wells is necessary for any active site (three wells are necessary to triangulate groundwater elevation points and determine the direction of groundwater flow). P&E is working with Hertz Environmental to complete the installation of the replacement wells in

LEGEND:

- AREA 1 - HERTZ - MONITORING WELL NETWORK (CONTINUING REMEDIATION)
- AREA 2 - NATIONAL - MONITORING WELL NETWORK (CONTINUING REMEDIATION)
- AREA 3 - AVIS - NO FURTHER ACTION (EPD)
- AREA 4 - ENTERPRISE - NO FURTHER ACTION (EPD)
- AREA 5 - BUDGET - NO FURTHER ACTION (EPD)



CITY OF ATLANTA, GEORGIA



HARTSFIELD-JACKSON ATLANTA INTERNATIONAL AIRPORT

PROGRAM TEAM



HARTSFIELD-JACKSON ATLANTA DEVELOPMENT PROGRAM

NO.	DATE	ISSUED FOR
REVISIONS		

PROJECT TEAM



DESIGN TEAM

DESIGN BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	

PROJECT INFORMATION

COA CONTRACT No.	
DOA PROJECT No.	
H-DP WBS No.	

PROJECT ELEMENT NAME
MAYNARD HOLBROOK
JACKSON, JR.
INTERNATIONAL TERMINAL
PROJECT NAME

DOMESTIC CV & TAXI
HOLD LOT RELOCATION

NOT ISSUED FOR
CONSTRUCTION

DATE
DECEMBER 19, 2014

SHEET NAME

CV & TAXI
HOLD LOT

SHEET No
FIGURE 1

LEGEND:

- AREA 1 - HERTZ - MONITORING WELL NETWORK (CONTINUING REMEDIATION)
- AREA 2 - NATIONAL - MONITORING WELL NETWORK (CONTINUING REMEDIATION)
- AREA 3 - AVIS - NO FURTHER ACTION (EPD)
- AREA 4 - ENTERPRISE - NO FURTHER ACTION (EPD)
- AREA 5 - BUDGET - NO FURTHER ACTION (EPD)



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SHEET NAME

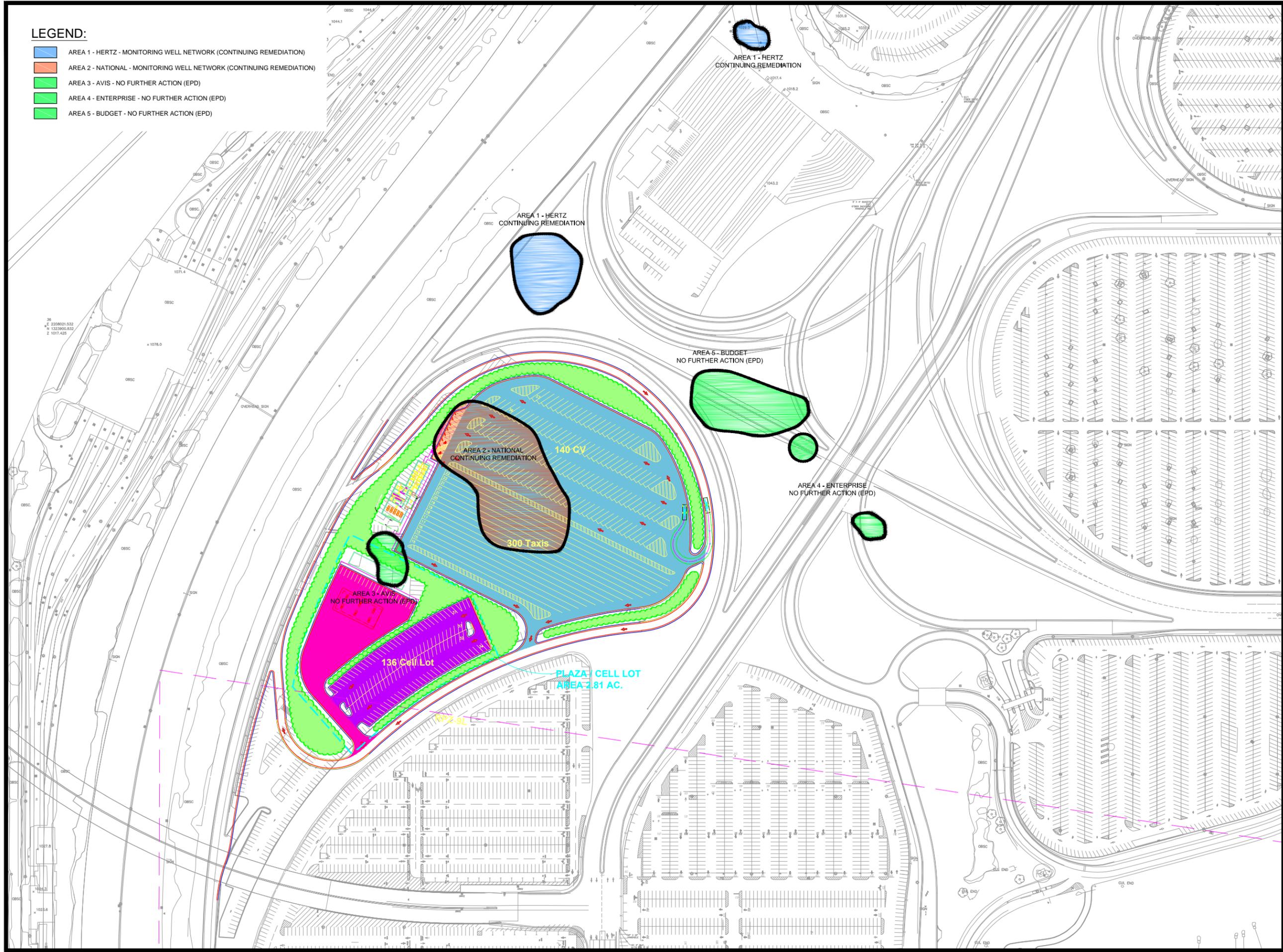
CV & TAXI
HOLD LOT

SHEET No

FIGURE 2

LEGEND:

- AREA 1 - HERTZ - MONITORING WELL NETWORK (CONTINUING REMEDIATION)
- AREA 2 - NATIONAL - MONITORING WELL NETWORK (CONTINUING REMEDIATION)
- AREA 3 - AVIS - NO FURTHER ACTION (EPD)
- AREA 4 - ENTERPRISE - NO FURTHER ACTION (EPD)
- AREA 5 - BUDGET - NO FURTHER ACTION (EPD)



CITY OF ATLANTA, GEORGIA



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HARTSFIELD-JACKSON ATLANTA DEVELOPMENT PROGRAM

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COA CONTRACT No.	
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H-DP WBS No.	

PROJECT ELEMENT NAME
MAYNARD HOLBROOK
JACKSON, JR.
INTERNATIONAL TERMINAL
PROJECT NAME

DOMESTIC CV & TAXI
HOLD LOT RELOCATION

NOT ISSUED FOR
CONSTRUCTION

DATE
DECEMBER 19, 2014

SHEET NAME
CV & TAXI
HOLD LOT

SHEET No
FIGURE 3

order to satisfy regulatory requirements and not interfere with future construction.

It will be necessary to follow up on the well installation, ongoing monitoring, and reporting to ensure that the site is in regulatory compliance.

2.3 Existing Conditions – National Site

The former National site is located within the proposed taxi lot relocation project. On December 8, 2014, AECOM conducted a site walkthrough of the National space, currently part of a laydown area being used by the H-JDP. The findings are summarized below.

- Most of its monitoring well network was found to be intact, but no current remediation system was in place. The wells did not appear to have been gauged or sampled anytime recently, consistent with a lower priority EPD cleanup site.
- Based on field observations at the time, i.e. no evidence of any ongoing remediation, it appeared that further treatment of this plume would not involve a large capital expenditure such as impacted soil removal, remediation system installation and operation, etc.
- Currently there is relatively easy access to the monitoring wells, with few obstructions.

Following a review of the latest monitoring report submitted to EPD, it appears that the free product plume is confined to an area adjacent to the former UST pit, with free product present in two monitoring wells, MW-2 (1.30') and MW-9 (1.93') as of September 2008. Although dissolved contamination in groundwater exceeds the regulatory standards, the site driver for closure in this case would be free product removal to .01' or less, which is the current USTMP requirement. As with many free product sites in the UST program, product removal would satisfy closure requirements if the dissolved contaminant plume is shown to be stable and generally trending downward, therefore this memo will focus on product removal in various remedial alternatives. The approximate location of National's environmental plume based on the monitoring well network is shown in **Figures 1, 2, and 3** as it relates to the three proposed options for the area redevelopment. Note that in Option 2 (**Figure 2**) and in Option 3 (**Figure 3**) the orientation of proposed occupied buildings are closer to the plume, where vapor intrusion (VI) could be a factor.

Currently, National is owned by Enterprise Holdings, Inc. (Enterprise) and AECOM contacted the corporate headquarters for Enterprise environmental management. The compliance specialist with Enterprise stated that they would contact their local management group and then provide an update with regards to the former National site. In an email dated January 16, 2015, Enterprise stated that General Motors (GM) owned National at the time of the release, and that as a part of their bankruptcy in 2008, GM had ceased remediation efforts at multiple sites. Subsequent owners of the site, including Enterprise, have not assumed any liabilities related to environmental remediation.

Correspondence with the EPD regulator will ensue once DOA has determined the course of action for the site with regards to ongoing remediation.

2.4 Remedial Alternatives – National Site

Corrective actions to remediate the National site for clean closure can be evaluated based on costs versus time to closure. A more aggressive approach would likely be more costly, but the site may be cleaned up within a relatively short time frame, as opposed to ongoing active or passive remediation techniques, which can take years to complete. AECOM proposes the following alternatives relative to the former National site.

Alternative 1: Impacted soil/source removal through excavation.

This approach would be considered the most aggressive method, and could be completed prior to the first phase of the re-development project. Since there are no above-ground obstructions or active facilities in the area, a soil removal project concentrated in the source area (after design and contractor procurement) could be executed within six to eight weeks' time, depending on issues such as permitting, site access, haul routes, etc.

The limits of excavation would be established via soil borings identifying the perimeter of the free product plume. Soil confirmation samples are typically collected from the sidewalls and base of the excavation to ensure the extents of the removal are satisfactory. The excavated area would then be backfilled and compacted with clean fill material. The costs for this alternative are presented in section 2.5 below.

Alternative 2: Installation of a groundwater remediation system.

Groundwater pump-and-treat technology is frequently utilized as an ex-situ form of remediation for the treatment of a free product plume. Given the right location and feasibility for installation (i.e. a parking lot), it is an effective way to remove free product. Additionally, when product thicknesses are greater than 1 foot, in-situ treatment such as chemical oxidation is not practical and dangerous reactions can occur.

The subsurface lithology in the Atlanta area is generally conducive to pump and treat, and usually a pilot test would be conducted to determine the radius of influence and capture zone for the installation of the recovery wells. In the case of the National site, installation of a dual phase extraction (DPE) system would recover free product from the groundwater and capture and destroy soil vapors from the non-saturated (vadose) zone in the subsurface. This alternative would require ongoing operation, maintenance, and system sampling. The system compound would need to be within an accessible area, but out of the way of ongoing facility activities. Operation of the system would likely continue for several years before cleanup is attained, and costs for a 3 year scenario are presented in section 2.5 below.

Alternative 3: Point remediation through mobile multiphase extraction (MPE).

MPE technology is the least costly (depending on time to closure) but generally the most time consuming form of remediation for the treatment of a free product plume. This remedial approach is currently used on a number of DOA sites and provides regulatory compliance without a large construction project or permanent facility installation.

A recovery well network would be installed encapsulating the source area, and the same effort as DPE would be conducted, only with a truck mounted unit operating for periods of eight, twelve, or twenty four hours at a time. The mobile unit is also able to hook up to the existing monitoring wells containing free product. Costs for MPE events over a ten year time frame are presented below.

2.5 Cost Estimates – National Site

The following costs are based on conservative estimates, as the time to closure for remedial sites can be difficult to predict due to a variety of factors, ranging from hydrogeological conditions to legal and regulatory issues.

The impacted soil removal project assumes an approximate area of 150 feet long by 100 feet wide by 10 feet deep (approximately to the water table) based on the identified product plume in the September 2008 National monitoring report. **Table 1** below summarizes costs for excavation.

Table 1: Impacted Soil Removal Action Estimated Costs

<i>Planning/Premobilization</i>	
Design	\$45,000
<i>Contractor Field Activities</i>	
Mobilization - Excavation	\$20,000
Site preparation/clearing	\$7,500
Temporary Facilities & Controls	\$7,500
Slope protection 500 lf x 10 ' deep	\$275,000
Excavation -Onsite	\$82,500
Transportation & Disposal	\$495,000
Odor Protection	\$25,000
Import Common Fill	\$110,000
Site Restoration	\$15,000
Stormwater Management	\$25,000
Survey	\$2,000
Sampling	\$5,500
Well Abandonment	\$2,000
Personnel	\$75,000
<i>AECOM Costs</i>	
Project Management	\$5,000
Air Monitoring & HS	\$25,000
Construction Oversight	\$47,500
TOTAL	\$1,269,500

The installation, operation, and maintenance of a groundwater remediation system are summarized in **Table 2**. This alternative assumes the system discharges to the POTW.

Table 2: Cost Estimate for DPE System Installation and Operation

Task 1: Well Installation					
Item	Unit	Cost	Quantity	Markup	Extension
Labor					
Project Manager	hr	\$175.00	6	1	\$1,050.00
Senior Scientist	hr	\$165.00	8	1	\$1,320.00
Junior Scientist	hr	\$95.00	30	1	\$2,850.00
CAD Technician	hr	\$90.00	2	1	\$180.00
Administrative Assistant	hr	\$70.00	1	1	\$70.00
Equipment					
24" x 24" Vaults	each	\$750.00	4	1	\$3,000.00
4" Recovery Well (30' total Depth)	well	\$2,450.00	4	1	\$9,800.00
IDW Sampling, Profiling, and Disposal (Drill Cutting)	drum	\$150.00	12	1	\$1,800.00
Interface Probe	day	\$200.00	2	1	\$400.00
PPE (gloves, tyvek, etc.)	day	\$150.00	2	1	\$300.00
PID	day	\$150.00	2	1	\$300.00
Truck	day	\$75.00	3	1	\$225.00
Utility Clearance	day	\$850.00	1	1	\$850.00
Task 1: Well Installation				Subtotal	\$22,145.00
				Labor	\$5,470.00
				Equipment	\$16,675.00

Task 2: System Installation and Startup					
Item	Unit	Cost	Quantity	Markup	Extension
Labor					
Project Manager	hr	\$175.00	24	1	\$4,200.00
Senior Scientist	hr	\$165.00	60	1	\$9,900.00
Junior Scientist	hr	\$95.00	200	1	\$19,000.00
CAD Technician	hr	\$90.00	10	1	\$900.00
Administrative Assistant	hr	\$70.00	4	1	\$280.00
Equipment					
Trenching and Pipe Installation	foot	\$45.00	500	1	\$22,500.00
Trenching backfill and surface covering	foot	\$25.00	500	1	\$12,500.00
Ground Water Treatment System, 1 - 20 GPM	each	\$50,000.00	1	1	\$50,000.00
Ground Water pumps (5 gpm)	each	\$6,000.00	4	1	\$24,000.00
Soil Vapor Extraction System, 280 SCFM, 85" H2O Vac	each	\$24,000.00	1	1	\$24,000.00
Thermal Oxidizer, 1400 - 1500 deg F, 280 CFM	each	\$45,000.00	1	1	\$45,000.00
Carbon Vessels w/carbon (600 lbs.)	each	\$4,200.00	2	1	\$8,400.00
Utility Connection - Power	total	\$5,000.00	1	1	\$5,000.00
Utility Connection - Sewer	total	\$5,000.00	1	1	\$5,000.00
Skidsteer	week	\$450.00	2	1	\$900.00
Fencing (30' x 30')	foot	\$4.00	900	1	\$3,600.00
Concrete Pad	truck	\$1,500.00	2	1	\$3,000.00
PPE (gloves, tyvek, etc.)	day	\$150.00	5	1	\$750.00
PID	day	\$150.00	2	1	\$300.00
Truck	day	\$75.00	24	1	\$1,800.00
Misc/ODC (Gauges, piping, fittings)	day	\$100.00	24	1	\$2,400.00
				Subtotal	\$243,430.00
Task 2: System Installation				Labor	\$34,280.00
				Equipment	\$209,150.00

Task 3: System Operation and Maintenance (1 year)					
Item	Unit	Cost	Quantity	Markup	Extension
Labor					
Project Manager	hr	\$175.00	52	1	\$9,100.00
Senior Scientist	hr	\$165.00	104	1	\$17,160.00
Junior Scientist	hr	\$95.00	208	1	\$19,760.00
CAD Technician	hr	\$90.00	26	1	\$2,340.00
Administrative Assistant	hr	\$70.00	12	1	\$840.00
Equipment					
Discharge Characterization (one time)	sample	\$225.00	1	1	\$225.00
Monthly Discharge Sampling (lead, VOCs, pH, SGHEM)	sample	\$250.00	52	1	\$13,000.00
Monthly Discharge Cost (20 gpm for 365 days)	CCF	\$15.00	702	1	\$10,530.00
Electric Power, Telephone, Propane	month	\$4,000.00	12	1	\$48,000.00
Carbon Change out	event	\$5,000.00	2	1	\$10,000.00
Expendable Filter Materials	month	\$100.00	12	1	\$1,200.00
PPE (gloves, tyvek, etc.)	day	\$50.00	52	1	\$2,600.00
PID	day	\$150.00	52	1	\$7,800.00
Truck	day	\$75.00	52	1	\$3,900.00
Replacement Parts	total	\$50.00	52	1	\$2,600.00
Misc/ODC (sampling supplies, ice for samples, etc.)	day	\$25.00	52	1	\$1,300.00
Shipping (reports, manifests, etc.)	total	\$40.00	12	1	\$480.00
Task 3: System O/M (Year 1)				Subtotal	\$150,835.00
				Labor	\$49,200.00
				Equipment	\$101,635.00

Task 4: System O/M (year 2)					\$150,835.00
Task 5: System O/M (year 3)					\$150,835.00
Task 6: System Decommissioning and Well Abandonment					
Item	Unit	Cost	Quantity	Markup	Extension
Labor					
Project Manager	hr	\$175.00	10	1	\$1,750.00
Senior Scientist	hr	\$165.00	24	1	\$3,960.00
Junior Scientist	hr	\$95.00	60	1	\$5,700.00
CAD Technician	hr	\$90.00	6	1	\$540.00
Administrative Assistant	hr	\$70.00	2	1	\$140.00
Equipment					
4" Well Abandonment	well	\$1,200.00	5	1	\$6,000.00
2" Well Abandonment	well	\$950.00	12	1	\$11,400.00
Truck	day	\$75.00	5	1	\$375.00
Carbon Recycling	total	\$1,500.00	2	1	\$3,000.00
Liquid Waste Disposal	gallon	\$0.42	1200	1	\$504.00
Solid Waste Disposal	total	\$1,500.00	1	1	\$1,500.00
Misc/ODC	day	\$100.00	5	1	\$500.00
Shipping	each	\$20.00	1	1	\$20.00
				Subtotal	\$35,389.00
Task 6: System Decommissioning				Labor	\$12,090.00
				Equipment	\$23,299.00
TOTAL PROJECT COST					\$753,469.00

Table 3 details the operational costs for a typical scenario utilizing MPE, where the initial events are conducted monthly, and then gradually decreasing the frequency of events as the subsurface is cleaned up.

Table 3: Cost Estimate for MPE Events

Task 1: Single MPE Event and Reporting					
Item	Unit	Cost	Quantity	Markup	Extension
Labor					
Project Manager	hr	\$175.00	2	1	\$350.00
Senior Scientist	hr	\$165.00	4	1	\$660.00
Junior Scientist	hr	\$95.00	30	1	\$2,850.00
Administrative Assistant	hr	\$70.00	1	1	\$70.00
Equipment					
MPE Trailer	day	\$1,500.00	1	1	\$1,500.00
Thermal Oxidizer	day	\$1,250.00	1	1	\$1,250.00
Water Disposal	gallon	\$0.35	1200	1	\$420.00
Propane	each	\$200.00	1	1	\$200.00
Interface Probe	day	\$200.00	1	1	\$200.00
Plastic Buckets	each	\$10.00	2	1	\$20.00
Box of Nitrile Gloves	each	\$150.00	0.5	1	\$75.00
Micro FID Rental	each	\$127.00	1	1	\$127.00
Poly Tank	each	\$300.00	1	1	\$300.00
Report and Manifest Shipping	total	\$50.00	1	1	\$50.00
				Subtotal	\$8,072.00
				Labor	\$3,930.00
				Equipment	\$4,142.00
Task 1: Single Event					
Year 1: Monthly MPE Events (12 total)	event	\$8,072.00	12	1	\$96,864.00
Year 2: Monthly MPE Events (12 total)	event	\$8,072.00	12	1	\$96,864.00
Year 3: Monthly MPE Events (12 total)	event	\$8,072.00	12	1	\$96,864.00
Year 4: Bi-Monthly MPE Events (6 total)	event	\$8,072.00	6	1	\$48,432.00
Year 5: Bi-Monthly MPE Events (6 total)	event	\$8,072.00	6	1	\$48,432.00
Year 6: Bi-Monthly MPE Events (6 total)	event	\$8,072.00	6	1	\$48,432.00
Year 7: Quarterly MPE Events (4 total)	event	\$8,072.00	4	1	\$32,288.00
Year 8: Quarterly MPE Events (4 total)	event	\$8,072.00	4	1	\$32,288.00
Year 9: Quarterly MPE Events (4 total)	event	\$8,072.00	4	1	\$32,288.00
Year 10: Quarterly MPE Events (4 total)	event	\$8,072.00	4	1	\$32,288.00
TEN YEAR PROJECT COST					\$565,040.00

Note that the cost scenarios provided do not take into account the time-value of money and are prepared from present-day pricing. Once P&E selects a remedial approach, more accurate cost projections will be made, including escalation.

The suggested remedial options above assume that ongoing monitoring would continue once the regulatory standard is met, until NFA is granted for the site.

The schedule guideline for post-remediation monitoring is generally quarterly monitoring and reporting for eight quarters. Once the site is proven to be stable over the two-year period, it can be closed. The duration for this monitoring can be evaluated on a site-specific basis, and often a site can be closed after a one year period.

For the purposes of this memo, the most conservative option is assumed, which would add an additional \$115,000 in monitoring and reporting costs for a two year period.

Alternative to employing one of the remedial actions above, P&E could pursue a course of action where the lessees to the site (Enterprise/National) are identified as responsible parties and would be required to conduct the cleanup. This action has been taken in the past and is typically excessively time consuming for DOA projects, and usually involves legal actions.

The “do nothing” approach on DOA’s part is also possible, as it is not unusual for lower-priority environmental sites to remain unchanged for years at a time before EPD takes action. However, the presence of free product on a UST site is mandated for active remediation, and therefore the cleanup would ultimately fall on the responsibility of the DOA, at a time that may not be optimal, based on ongoing airport projects, financial conditions, etc.

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