

RECONSTRUCT RUNWAY 4-22

AT THE

TUSCALOOSA NATIONAL AIRPORT
TUSCALOOSA, ALABAMA

AIP No. 3-01-0072-33-2019
CITY of TUSCALOOSA File No. A20-0093; Engineering Proj. No. 2019.045.001
ATKINS PROJECT No. 100066795

ADDENDUM No. 2

May 07, 2020

The original plans and specifications issued for bids on March 29, 2020 for the above project are hereby amended by the City of Tuscaloosa and the project consultants, as noted in this Addendum Number 1. Receipt of this Addendum shall be acknowledged by inserting the Addendum number and date on Page 14, in the project manual (first page of the proposal section).

PROJECT MANUAL – CONTRACT DOCUMENTS and SPECIFICATIONS

MAKE THE FOLLOWING CHANGES TO THE CONTRACT DOCUMENTS AND SPECIFICATIONS BOOK:

1. In Section 3 “PROPOSAL” of the project manual, **REPLACE** the bid form included after page 15 as pages 15-1 through 15-4 with pages 15-1 through 15-6 included with this transmittal. The purpose of this change is to create a base bid schedule with two alternate bid schedules A and B. The two alternate bid schedules represent the scenarios where either:
 - A) All materials generated by cold milling of asphalt surfaces and site grading, except those which may be used to backfill any undercutting of unsuitable materials are removed from the project site and become the property of the Contractor,
 - OR
 - B) All suitable materials generated All materials generated by cold milling of asphalt surfaces and site grading, except those which may be used to backfill any undercutting of unsuitable materials are embanked into a shaped stockpile area on site.

The replacement of the previous version of the 46-item single bid schedule issued with Addendum No. 1 removes the following twelve line items from the base bid schedule and groups them together into Alternate Bid Schedule A and into Alternate Bid Schedule B:

- a. **Item 2, “Prepare Construction Best Management Practices Plan and NPDES Permit Application and Submit to ADEM”** is moved into each bid alternate bid schedule as Item 2A and Item 2B to provide the bidder the opportunity to submit different lump sum pricing in each bid schedule.

Item 2A in Alternate Bid Schedule A represents compensation for a simpler plan and permit application that does not include the need for a graded stockpile area and the associated consideration in the permit application for the land disturbance, grading and drainage improvements, and erosion prevention and sediment control device installation that this stockpile area would otherwise require. Item 2B in Alternate Bid Schedule B represents compensation for a plan and application that includes the consideration of these items.

- b. **Item 3, “NPDES Permit Fees”** is moved into each bid alternate bid schedule as Item 3A and Item 3B to provide the bidder the opportunity to submit different lump sum pricing in each bid schedule.

Item 3A in Alternate Bid Schedule A represents compensation for the fees associated with a permit that omits any need for disturbed areas associated with the graded stockpile area, drainage improvements, and erosion prevention and sediment control device installation that this stockpile area would otherwise require. Item 3B in Alternate Bid Schedule B represents compensation for permit fees that includes the consideration of these items.

- c. **Item 4, “Install and Maintain Ditch Wattle, and Remove upon Completion of Project”** is moved into each bid alternate bid schedule as Item 4A and Item 4B to provide for differing quantities of this item’s installation.

In the case of Alternate Bid Schedule A, the omission of an on-site material stockpile and the associated land disturbance, grading and drainage improvements, and erosion prevention and sediment control device installation requires zero of these items.

In Alternate Bid Schedule B, the plan quantity is 6 wattles installed along the diversion ditch that would run along the southeastern side of the on-site material stockpile.

- d. **Item 6, “Install and Maintain Silt Fence, and Remove upon Completion of Project”** is moved into each bid alternate bid schedule as Item 6A and Item 6B to provide for differing quantities of this item’s installation.

In the case of Alternate Bid Schedule A, the omission of an on-site material stockpile and the associated land disturbance, grading and drainage improvements, and erosion prevention and sediment control device installation requires zero linear feet of silt fence.

In Alternate Bid Schedule B, the plan quantity is 1,650 linear feet to be installed around the perimeter of the on-site material stockpile for millings and around the perimeter of the stockpile of topsoil stripped from the area where the on-site material stockpile would be embanked.

- e. **Item 7, “Install Double Net Straw Matting”** is moved into each bid alternate bid schedule as Item 7A and Item 7B to provide for differing quantities of this item’s installation.

In the case of Alternate Bid Schedule A, the omission of an on-site material stockpile and the associated land disturbance, grading and drainage improvements, and erosion prevention and sediment control device installation requires zero of square yards of matting.

In Alternate Bid Schedule B, the plan quantity is 1,530 square yards of matting installed along the diversion ditch that would run along the southeastern side of the on-site material stockpile and on the side slopes of the stockpile of topsoil stripped from the area where the on-site material stockpile would be embanked.

- f. **Item 8, “Temporary Seeding with Mulch”** is moved into each bid alternate bid schedule as Item 8A and Item 8B to provide for differing quantities of this item’s installation in the event that the project’s timing does not call for turf stabilization at a time of year when application of a seed mix for the desired permanent vegetative cover would result in prompt germination.

In the case of Alternate Bid Schedule A, the omission of an on-site material stockpile and the associated land disturbance, grading and drainage improvements, and erosion prevention and sediment control device installation requires only 1.65 acres of disturbed area along the shoulders of the runway and Taxiway A5 to potentially need temporary seeding with mulch for turf stabilization.

In Alternate Bid Schedule B, the plan quantity is 0.85 acre more, for a total of 2.50 acres to provide for the potential need to apply temporary seeding with mulch along the diversion ditch that would run along the southeastern side of the on-site material stockpile and on the stockpile of topsoil stripped from the area where the on-site material stockpile would be embanked.

- g. For **Item 16**, a differently named version of the item for **“Cold Milling Up to 2.5-inch Max Depth”** is moved into each bid alternate bid schedule as Item 16A and Item 16B.

In Alternate Bid Schedule A, the bidder is provided the opportunity to submit unit pricing per square yard of **“Cold Milling Up to 2.5-inch Max Depth, All Materials Disposed of Off-Site”** to represent the price where all of the material generated by the cold milling process which is not needed for backfilling any undercut areas shall become the property of the Contractor to remove from the airport.

In Alternate Bid Schedule B, the bidder is provided the opportunity to submit unit pricing per square yard of **“Cold Milling Up to 2.5-inch Max Depth, Millings Stockpiled On-Site”** to represent the price where all of the material generated by the cold milling process which is not needed for backfilling any undercut areas shall be embanked in the stockpile area shown on the Plans.

- h. For **Item 17**, a differently named version of the item for **“Cold Milling to 7-inch Depth Below Proposed Grade”** is moved into each bid alternate bid schedule as Item 17A and Item 17B.

In Alternate Bid Schedule A, the bidder is provided the opportunity to submit unit pricing per square yard of **“Cold Milling to 7-inch Depth Below Proposed Grade, All Materials Disposed of Off-Site”** to represent the price where all of the material generated by the cold milling process and which is not needed for backfilling any undercut areas shall become the property of the Contractor to remove from the airport.

In Alternate Bid Schedule B, the bidder is provided the opportunity to submit unit pricing per square yard of **“Cold Milling to 7-inch Depth Below Proposed Grade, Millings Stockpiled On-Site”** to represent the price where all of the material generated by the cold milling process which is not needed for backfilling any undercut areas shall be embanked in the stockpile area shown on the Plans.

- i. **Item 18, “Unclassified Excavation”** is moved into each bid alternate bid schedule as Item 18A and Item 18B to provide for differing quantities of this item.

In the case of Alternate Bid Schedule A, the omission of an on-site material stockpile and the associated land disturbance, grading and drainage improvements, and erosion prevention and sediment control device installation requires zero cubic yards of unclassified excavation due to the omission of the diversion ditch that would run along the southeastern side of the on-site material stockpile.

In Alternate Bid Schedule B, the plan quantity is 375 cubic yards to represent the volume of excavation of the diversion ditch that would run along the southeastern side of the on-site material stockpile after topsoil is stripped from the area.

- j. **Item 20, “Topsoil Stripping to On-site Stockpile”** is moved into each bid alternate bid schedule as Item 20A and Item 20B to provide for differing quantities of this item.

In the case of Alternate Bid Schedule A, the omission of an on-site material stockpile and the associated land disturbance, grading and drainage improvements, and erosion prevention and sediment control device installation requires only an estimated 290 cubic yards of topsoil stripping in the Taxiway A5 reconfiguration area, due to the omission of stripping topsoil from the omitted on-site material stockpile area.

In Alternate Bid Schedule B, the plan quantity is 2,480 cubic yards to represent the volume of topsoil stripping in the Taxiway A5 area as well as in the on-site stockpile area, including the area where a diversion ditch would run along the on-site stockpile area’s southeastern side.

- k. **Item 31, “Seeding with Mulch”** is moved into each bid alternate bid schedule as Item 31A and Item 31B to provide for differing quantities of this item’s installation.

In the case of Alternate Bid Schedule A, the omission of an on-site material stockpile and the associated land disturbance, grading and drainage improvements, and erosion prevention and sediment control device installation requires only 1.65 acres of disturbed area along the shoulders of the runway and Taxiway A5 to require permanent seeding with mulch for turf stabilization.

In Alternate Bid Schedule B, the plan quantity is 0.85 acre more, for a total of 2.50 acres that will require seeding with mulch along the diversion ditch that would run along the southeastern side of the on-site material stockpile and on the stockpile of topsoil stripped from the area where the on-site material stockpile would be embanked.

- l. **Item 33, “Topsoil, Furnished from On-Site Stockpile”** is moved into each bid alternate bid schedule as Item 33A and Item 33B to provide for differing quantities of this item’s installation.

In the case of Alternate Bid Schedule A, due to the omission of an on-site material stockpile and the associated topsoil stripping it would generate, very little topsoil would be generated from other on-site topsoil stripping locations. Only the topsoil stripped from the Taxiway A5 pavement shoulder areas is anticipated to be temporarily stockpiled and reused mostly along Taxiway A5 regraded shoulder areas, with some small portion going to the areas where a thin layer of topsoil will need to be spread along select runway shoulder areas shown on the plans. These runway shoulder areas will require additional topsoil to be imported from off-site.

In Alternate Bid Schedule B, the plan quantity is 700 cubic yards of topsoil to be taken from the much larger-than-needed 2,480 cubic yards of topsoil that will have been stripped from Taxiway A5 shoulder areas and the milling stockpile area as tabulated under item 20B, above.

- m. **Item 47A** is added to the bid schedules in Alternate Bid Schedule A only, to provide for a separate pricing of **“Topsoil, Furnished from Off-Site Source.”** As noted, in the description for Item 33A, above, the topsoil produced from stripping the Taxiway A5 shoulder areas will be sufficient only to re-cover those finished shoulders with a little to spare for the runway shoulder areas that will need added topsoil in places shown on the plans. The remainder of the topsoil needed to build up the runway shoulders in those select locations is estimated to be 410 cubic yards and will need to be

supplied from off-site sources. No topsoil from off-site sources is necessary in Alternate Bid Schedule B.

2. In Appendix C – Technical Specifications, in Specification Item P-101, “Preparation/Removal of Existing Pavements”, **REPLACE** section 101-3.5 with the following text:

101-3.5 Cold milling. Milling shall be performed with a power-operated milling machine or grinder, capable of producing a uniform finished surface. The milling machine or grinder shall operate without tearing or gouging the underlying surface. The milling machine or grinder shall be equipped with grade and slope controls, and a positive means of dust control. In areas where the prescribed milling depth of 7 inches below the proposed finished grade results in complete removal of the asphalt paving layers, removal of underlying base materials may be performed with the use of equipment other than a milling machine or grinder. If other equipment is used in these areas, any such other equipment shall also have grade and slope controls, and the Contractor shall take additional measures to control dust as needed.

Within areas identified on the plans as areas of milling, where all asphalt layers and some portion of the underlying base material must be removed in order to achieve the prescribed grade 7 inches below the proposed finished grade, all material removed from these areas shall be considered “millings,” whether generated by a milling machine or grinder, or whether generated by some other type of equipment.

Disposal of the material shall be determined by which of two alternative bid schedules is awarded. Under the scenario where “Alternative Bid Schedule A” is awarded, all millings shall be removed and disposed of off airport property. Under the scenario where “Alternative Bid Schedule B” is awarded, all millings shall be disposed of in areas designated on the plans. If the Contractor mills or grinds deeper or wider than the plans specify, the Contractor shall replace the material removed with new material at the Contractor’s Expense.

3. In Appendix C – Technical Specifications, in Specification Item P-101, “Preparation/Removal of Existing Pavements”, in the **BASIS OF PAYMENT** section **REPLACE** Item numbers P-101-5.3 and P-101-5.4 with the following two pairs of item numbers:

Item P-101-5.3.A	Cold Milling 0 to 2.5 inch depth, all materials disposed of off-site – per square yard (square meter)
Item P-101-5.3.B	Cold Milling 0 to 2.5 inch depth, millings stockpiled on-site – per square yard (square meter)
Item P-101-5.4.A	Cold Milling to 7 inch depth below proposed grade, all materials disposed of off-site– per square yard (square meter)
Item P-101-5.4.B	Cold Milling to 7 inch depth below proposed grade, millings stockpiled on-site – per square yard (square meter)

4. In Appendix C – Technical Specifications, in Specification Item T-905, “Topsoil”, in the **BASIS OF PAYMENT** section **ADD** a new Item number T-905-5.2 with the following text:

Item T-905-5.2	Topsoil, furnished from off-site source – per cubic yard
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PLANS

MAKE THE FOLLOWING CHANGES TO THE PLAN SET:

1. There are no changes made to the plan set in Addendum No. 2.

QUESTIONS

A deadline was imposed for questions in order to ensure ample time for questions to be received by the consultants; answered; and for answers to be distributed via a subsequent addendum in time for bidders to incorporate those answers into their bid documents. That deadline has expired

Questions received from interested bidders prior to the deadline are noted below, with answers:

1. **QUESTION:** Can consideration be given to the addition of alternatives in the bid schedule that will allow the project to be priced two ways: one option in which the Contractor keeps the millings, and another option in which the millings are embanked in a stockpile as shown on Sheet C-419?

RESPONSE: Yes. All work items associated with the stockpiling of millings have been pulled from the main bid schedule. The remaining items are now designated as the Base Bid Schedule to which one or the other of two Alternative Bid Schedules will be added:

- Alternative Bid Schedule A will represent the estimated plan quantities associated with no stockpiling of millings on-site, and all millings becoming the property of the Contractor to dispose of off-site.
- Alternative Bid Schedule B will represent the estimated plan quantities associated with the millings remaining the property of the Owner and being stockpiled on-site.

The Owner (City of Tuscaloosa) reserves the right to award the project based on the lowest qualified bid as evaluated in either scenario:

- Scenario 1 will be the evaluation of the lowest qualified bid for the Base Bid Schedule plus the Alternative Bid Schedule A.
- Scenario 2 will be the evaluation of the lowest qualified bid for the Base Bid Schedule plus the Alternative Bid Schedule B.

If bid pricing for the lowest qualified bid in scenario 2 is higher than the lowest qualified bid in Scenario 1, the Owner may still elect to award the project based on the cost of Scenario 2 if, in the Owner's sole opinion, the difference in pricing between the two scenarios does not adequately represent the value of the material for reuse on the airport.

2. **QUESTION:** Can any of the alphanumeric connector taxiways along Parallel Taxiway A be used as part of the haul route, such as Taxiway A2 or A3?

RESPONSE: No. Taxiway A2 may not be used due to increased potential interference with active taxiing of aircraft. Taxiway A3 may not be used due to its lesser pavement strength as compared to the other connectors.

END - ADDENDUM No. 1

Addendum No. 1 Attachments:

Bid form

6 pages

Addendum No. 2

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SCHEDULE OF PRICES

ITEM No. & SPEC. SECTION	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED TOTAL
Base Bid Schedule					
1 C-100-14.1	Contractor Quality Control Program	L.S.	1	_____	_____
2 -	RESERVED	-	-	_____	_____
3 -	RESERVED	-	-	_____	_____
4 -	RESERVED	-	-	_____	_____
5 C-102-5.4	Install and Maintain Inlet Protection and Remove upon Completion of Project	EA.	1	_____	_____
6 -	RESERVED	-	-	_____	_____
7 -	RESERVED	-	-	_____	_____
8 -	RESERVED	-	-	_____	_____
9 C-105-6.1	Mobilization and Demobilization	L.S.	1	_____	_____
10 C-105-6.2	As-Built Drawings	L.S.	1	_____	_____
11 M-101-4.1	Maintenance of Traffic	L.S.	1	_____	_____
12 M-101-4.2	L-893(L) Portable Lighted Runway Closure Marker	EA.	2	_____	_____
13 M-101-4.3	Low-Profile Barricade	EA.	75	_____	_____

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ITEM No. & SPEC. SECTION	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED TOTAL
14 P-101-5.1	Asphalt Pavement Removal	S.Y.	368	_____	_____
15 P-101-5.2	Joint and Crack Repair	L.F.	14,800	_____	_____
16 -	RESERVED	-	-	_____	_____
17 -	RESERVED	-	-	_____	_____
18 -	RESERVED	-	-	_____	_____
19 P-152-4.2	Unclassified Excavation of Yielding Materials to Off-Site Disposal, Including Backfill from Project Site Sources	C.Y.	5,970	_____	_____
20 -	RESERVED	-	-	_____	_____
21 P-207-5.1	In-Place Full Depth Recycled (FDR) Asphalt Aggregate Base Course, 14" Depth	S.Y.	117,950	_____	_____
22 P-207-5.2	Cement	TON	3,535	_____	_____
23 P-401-8.1.1a	Asphalt Surface Course, PG 76-22, Gradation 2 Paving, 2.0" Lifts	TON	29,480	_____	_____
24 P-401-8.1.1b	Asphalt Base Course PG 67-22, Gradation 1 Paving, 3.0" Lift	TON	20,800	_____	_____
25 P-602-5.1	Emulsified Asphalt Prime Coat	GAL.	24,300	_____	_____
26 P-603-5.1	Emulsified Asphalt Tack Coat	GAL.	16,900	_____	_____
27 P-620-5.1	Airfield Markings, White, Yellow or Red, With Reflective Media	S.F.	96,050	_____	_____

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SCHEDULE OF PRICES

ITEM No. & SPEC. SECTION	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED TOTAL
28 P-620-5.2	Airfield Markings, Black, Without Reflective Media	S.F.	32,150	_____	_____
29 P-620-5.3	Temporary Airfield Markings, White or Yellow, Without Reflective Media	S.F.	18,450	_____	_____
30 P-621-5.1	Grooving	S.Y.	93,890	_____	_____
31 -	RESERVED	-	-	_____	_____
32 T-904-5.1	Sodding	S.Y.	2,790	_____	_____
33 -	RESERVED	-	-	_____	_____
34 L-100-5.1	Electrical Demolition	L.S.	1	_____	_____
35 L-100-5.2	Site Locating, Duct Tracing, and Pot Holing	L.S.	1	_____	_____
36 L-108-5.1	No. 8 AWG, 5 kV, L-824 Type C Cable, Installed in Duct Bank or Conduit	L.F.	2,500	_____	_____
37 L-108-5.2	No. 6 AWG, Solid, Bare Copper Counterpoise Wire, Installed in Trench, Including Connections/Terminations and Ground Rods	L.F.	1,340	_____	_____
38 L-110-5.1	Concrete Encased Electrical Duct Bank, 4-way 4-inch, 24-inch Minimum Cover	L.F.	60	_____	_____
39 L-110-5.2	Concrete Encased Electrical Duct Bank, 1-way 2-inch	L.F.	50	_____	_____
40 L-110-5.3	Non-Encased Electrical Duct Bank, 1-way 2-inch	L.F.	1,750	_____	_____

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SCHEDULE OF PRICES

ITEM No. & SPEC. SECTION	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED TOTAL
41 L-115-5.1	L-867D Junction Cans	EA.	1	_____	_____
42 L-125-5.1	L-861T Elevated Taxiway Edge Light, Salvaged and Reinstalled on New L-867 Base Can	EA.	11	_____	_____
43 L-125-5.2	L-862 Elevated Runway Edge Light, Salvaged and Reinstalled on New L-867 Base Can	EA.	2	_____	_____
44 L-125-5.3	L-861T New Elevated Taxiway Edge Light, Installed on New L-867 Base Can	EA.	5	_____	_____
45 L-125-5.4	L-858(L) LED Sign Unit, Size 2, 2 Module, Salvaged and Reinstalled	EA.	2	_____	_____
46 L-125-5.5	Size 2, 2 Module Sign Base Demolition and Installation	EA.	2	_____	_____

SUBTOTAL BASE BID SCHEDULE:

Alternative Bid Schedule A - Millings/All Excess Materials Removed from Site

2A C-102-5.1	Prepare Construction Best Management Practices Plan and NPDES Permit Application and Submit to ADEM	L.S.	1	_____	_____
3A C-102-5.2	NPDES Permit Fees	L.S.	1	_____	_____
4A C-102-5.3	Install and Maintain Ditch Wattle, and Remove upon Completion of Project	EA.	0	_____	_____
6A C-102-5.5	Install and Maintain Silt Fence, and Remove upon Completion of Project	L.F.	0	_____	_____
7A C-102-5.6	Install Double Net Straw Matting	S.Y.	0	_____	_____

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ITEM No. & SPEC. SECTION	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED TOTAL
8A C-102-5.7	Temporary Seeding with Mulch	ACRE	1.65	_____	_____
16A P-101-5.3.A	Cold Milling up to 2.5-inch Max. Depth, All Materials Disposed of Off-Site	S.Y.	12,450	_____	_____
17A P-101-5.4.A	Cold Milling to 7-inch Depth Below Proposed Grade, All Materials Disposed of Off-Site	S.Y.	115,900	_____	_____
18A P-152-4.1	Unclassified Excavation	C.Y.	0	_____	_____
20A P-152-4.3	Topsoil Stripping to On-site Stockpile	C.Y.	290	_____	_____
31A T-901-5.1	Seeding with Mulch	ACRE	1.65	_____	_____
33A T-905-5.1	Topsoil, Furnished from On-Site Stockpile	C.Y.	290	_____	_____
47A T-905-5.2	Topsoil, Furnished from Off-Site Source	C.Y.	410	_____	_____

SUBTOTAL ALTERNATIVE BID SCHEDULE A:

Alternative Bid Schedule B - Millings/All Suitable Excess Materials Stockpiled On-Site

2B C-102-5.1	Prepare Construction Best Management Practices Plan and NPDES Permit Application and Submit to ADEM	L.S.	1	_____	_____
3B C-102-5.2	NPDES Permit Fees	L.S.	1	_____	_____
4B C-102-5.3	Install and Maintain Ditch Wattle, and Remove upon Completion of Project	EA.	6	_____	_____

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ITEM No. & SPEC. SECTION	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED TOTAL
6B C-102-5.5	Install and Maintain Silt Fence, and Remove upon Completion of Project	L.F.	1,650	_____	_____
7B C-102-5.6	Install Double Net Straw Matting	S.Y.	1,530	_____	_____
8B C-102-5.7	Temporary Seeding with Mulch	ACRE	2.50	_____	_____
16B P-101-5.3.B	Cold Milling up to 2.5-inch Max. Depth, Millings Stockpiled On-Site	S.Y.	12,450	_____	_____
17B P-101-5.4.B	Cold Milling to 7-inch Depth Below Proposed Grade, Millings Stockpiled On-Site	S.Y.	115,900	_____	_____
18B P-152-4.1	Unclassified Excavation	C.Y.	375	_____	_____
20B P-152-4.3	Topsoil Stripping to On-site Stockpile	C.Y.	2,480	_____	_____
31B T-901-5.1	Seeding with Mulch	ACRE	2.50	_____	_____
33B T-905-5.1	Topsoil, Furnished from On-Site Stockpile	C.Y.	700	_____	_____

SUBTOTAL ALTERNATIVE BID SCHEDULE B:

Award Scenario 1

Base Bid Schedule + Alternate Bid Schedule A Total:

-OR-

Award Scenario 2

Base Bid Schedule + Alternate Bid Schedule B Total:

CONTRACT COMPLETION TIME is 105 consecutive calendar days