

ADDENDUM #2

**ADDENDUM NO. 2 TO CONTRACT DOCUMENTS
RICHARD B. RUSSELL REGIONAL AIRPORT
TAXIWAY BRAVO WEST REOCATION
(FLOYD COUNTY BID NO. 26 - 022)**

This Addendum modifies the contract documents as indicated herein. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form – Page B-8. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of the following: Minutes of the Pre-Bid Conference, Bid Schedule Revisions / Clarifications, Contract Drawing Revisions / Clarifications, Specification Revisions / Clarifications, and Responses to Submitted Questions. Also included as attachments are the following: a copy of the Pre-Bid Conference Sign-In Sheet (2 pages), the revised Bid Schedule (19 Pages), Revised Specification L-115 (8 pages) and Revised Plan Sheets G-004 and CD-103.

**PRE-BID CONFERENCE MINUTES
TAXIWAY BRAVO WEST RELOCATION
RICHARD B. RUSSELL REGIONAL AIRPORT, FLOYD COUNTY, GEORGIA
(FLOYD COUNTY BID # 26-022)**

Tuesday, June 16th, 2026 @ 11:00 a.m.

1. Introduction:
 - Sign-In Sheet (See Attachment)

2. Bid Instruction:
 - Bids Due: **Tuesday, June 30th, 2026 @ 2:00 PM (Local Time)**
Submit Bids to: <https://floydcountyga.bonfirehub.com>

 - Contract Documents – Distributed Electronically
 - Division 1 – Notice to Bidders / Invitation for Bid
 - Division 2 – Bidding Documents
 - Division 3 – Contract Forms
 - Division 4 – Contract Provisions
 - Division 5 – General Requirements
 - Division 6 – Technical Specifications
 - Division 7 – Appendix A – Project Geotechnical Data
 - Division 8 – Construction Plans

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- Bidding Documents pages B-1 through B-38 (Division 2).
 - Bid Guaranty – Bid Bond in the amount of 5% of the total bid (Divisions 1 & 2).
 - Several Federal & County Forms and Certifications (Division 2).
 - DBE Participation Goal of 0.00%
 - Program currently suspended pending re-certification of DBE firms
3. Scope of Work: The Project generally consists of the following work elements:
- Base Bid with 2 Additive Bids across 5 Phases of Work
 - Erosion Control Measures & Traffic Control Installation
 - Full-depth Pavement Milling
 - New Storm Sewer Drainage Pipe & Structures Installation
 - Existing Storm Sewer Drainage Pipe & Structures Removal
 - Site Grading & Stockpile Area Management
 - Asphalt Pavement Construction (GDOT-402 Mixes)
 - Pavement Marking
 - Edge Lighting & Guidance Signage Installation, Including Vault Improvements
 - Shoulder Grading and Final Site Restoration
 - Project Clean-Up / Final Inspection
4. Contract Requirements:
- Time for completion of all work is 240 consecutive calendar days
 - \$1,500 per day liquidated damages
 - Award expected: Within 120 days
 - Insurance Requirements (Division 4 – Part C – Supplementary Conditions)
5. Airport Security and Safety Issues:
- FAA Construction Safety and Phasing Plan is in the process of being submitted for approval.
 - Security and Safety: FAA AC 150/5370-2G and Contractor's Safety Plan Compliance Document (SPCD).
 - No Airport Badging Requirements.
6. Payment:
- Pay Application will be processed monthly.
 - Form will be provided by the Engineer.
 - Contractor's Superintendent and RPR will agree on quantities prior to the Engineer preparing the Application for Payment.

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7. Questions and Addenda:

- Questions are due by 4:00 p.m. (local time) on Thursday, June 18th, 2026.

8. Open Discussion:

9. Notice to Bidders, Page A-1. Bidders were reminded of the date and time for receipt of bids.

Notice to Bidders, Page A-2. Bidders were reminded that a bid bond in an amount not less than five percent (5%) of the bid is required; and that Performance and Payment Bonds equal to one hundred percent (100%) of the bid shall be required.

Notice to Bidders, Page A-2. Bidders were reminded that bids must remain open for a period of one hundred twenty (120) days from the date of the bid opening.

Notice to Bidders, Page A-4. Bidders were reminded that a DBE goal of 0.00% exists for the project.

Division 2 – Bidding Documents. Bidders were reminded that the bid forms are contained on pages B-1 through B-38. Bidders were pointed to B-38 to explain the extent of the alternatives for this project.

Division 2 – Bidding Documents, Page B-1 and B-2. Bidders were reminded of the bidding requirements listed on these pages.

Division 2 – Bidding Documents, Page B-4. Bidders were reminded of the deadline for receipt of questions.

Division 2 – Bidding Documents, Page B-7. Bidders were reminded that liquidated damages in the amount of \$1,500.00 per calendar day shall be assessed if the work is not completed within the stipulated contract time.

Division 2 – Bidding Documents, Page B-9. Bidders were reminded to acknowledge receipt of addendums in the spaces provided on this page.

Division 2 – Bidding Documents, Page B-10.1. Bidders were reminded that the Bid Schedule is provided on Pages B-10.1 through B-10.19.

Division 2 – Bidding Documents, Bid Schedule. Bidders were reminded to write unit prices in words in the space provided, enter the corresponding numerical value on the line to the right of the pay item description, and carry forward the total to the amount column.

Division 2 – Bidding Documents, Page B-34-B-36. Bidders were reminded to complete and provide the Preliminary Project Schedule with their bid. Bidders were advised that this schedule is non-binding and shall be utilized for pre-construction planning purposes.

Division 3 – Contract Forms. Bidders were advised that the form of contract is presented on these pages.

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Division 4 – Contract Provisions, Part A: Federal Contract Provisions. Bidders were encouraged to familiarize themselves with the requirements of this section.

Division 4 – Contract Provisions, Part B: General Contract Provisions. Bidders were encouraged to familiarize themselves with the requirements of this section.

Division 4 – Contract Provisions, Part C: Supplementary Conditions. Bidders were encouraged to familiarize themselves with the requirements of this section.

Division 4 – Contract Provisions, Part D: Wage Rates. Bidders were reminded that wage rates for the project are presented in this section

Division 5 – General Requirements. Bidders were encouraged to familiarize themselves with the requirements of this section.

Division 6 – Technical Specifications. Bidders were reminded that the technical specifications for the work are presented in this section.

Division 6 – Technical Specifications, Specification G-DOT 402; Bidders were informed that the binder required for the asphalt on this project would be 76-22.

Division 7 – Construction Plans. Bidders were informed of the two different haul routes to be utilized during this project. The owner emphasized the swift cleanup for any debris left on active pavement. It is clarified that cleanup effort shall be continuous throughout the working day. Contractor shall be responsible for providing a gate guard when the gates are left open.

Division 7 – Construction Plans. The bidders were informed that the entirety of the pavement removal shall not be able to be accomplished at the same time. Each phase has separate pavement removal. Access to the airfield for tenants in the area must be maintain until Phase 4 has begun.

Division 7 – Construction Plans. Bidders were informed that all items associated with rock trenching or excavation are defined as areas in which the item cannot be 'ripped' by an excavator. Bidders were encouraged to review the Geotechnical Report for rock depth in the area.

Division 7 – Construction Plans. Bidders were informed that if the owner chooses to install base mounted lights the bidder would be paid both Pay Item 66 for a Stake mounted light as well as Pay Item 77 for the Upgrade to a Base mounted light.

Division 7 – Construction Plans. Bidders were informed that if the owner chooses to install a full conduit system rather than a direct buried cable, the contractor would be paid either for Pay Item 43 or 44 for the trenching depending on existing ground conditions as well as Pay Item 55 for the conduit installation.

Division 7 – Construction Plans. Bidders were informed that the need to haul topsoil from off-site is not anticipated for the project.

Division 7 – Construction Plans. Bidders were informed that the low-profile barricades shall be contractor provide and maintained. All barricades are to have both operable lights and flags as

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shown on Sheet G-501. The contractor provided barricades shall be removed at the completion of the project. The low-profile barricades are not to be retained by the owner.

Division 7 – Construction Plans. Bidders were informed that all reinforced concrete pipes are to be hauled off-site.

Division 7 – Construction Plans. Bidders were informed that the millings generated by this project are to be hauled off-site.

End of Pre-Bid Conference Minutes

In response to the questions raised by prospective bidders, a series of revisions, modifications, and clarifications are being provided for the benefit of the prospective bidders submitting a responsive and informed bid.

General:

It is clarified that the lime treatment of subgrade shall used be as directed by the engineer and is not intended to cover the whole project.

It is clarified that Final pavement marking shall not be installed until 30 days after the final surface of asphalt has been placed.

It is clarified that Limestone shall be allowed in both pavement mix designs.

It is clarified that Construction exits are to be considered incidental to the mobilization.

It is clarified that the airport shall supply Two Lighted Runway Closure crosses to be maintained by the contractor. The Lighted Runway closure crosses shall be returned to the airport in the same or better condition at the end of the project. The phasing of this project has been setup in such a way that there will not be a requirement for additional Lighted Runway Closure crosses to be supplied by the contractor.

It is clarified that the contractor shall be awarded 240 calendar days regardless of the awarding of the alternatives.

It is clarified that the contractor shall be responsible for the quality control testing and the owner shall be responsible for the quality assurance testing. Bidders are encouraged to familiarize themselves with the technical specifications as well as 01400 in the General Requirements for any testing requirements.

It is clarified that this project will not require additional fill from off-airport sources. Asphalt millings will not be allowed as fill.

It is clarified that Sign #1 is to be relocated and Sign #21 is to be new.

It is clarified that the 4-way directional bore discussed in Note 8 on Sheet EL-504 has been eliminated from this project.

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It is clarified that all relocated signs shall receive a new isolation transformer. All isolation transformers regardless of sign size are to be paid for in line Pay Item 76.

It is clarified that there are 46 taxiway edge lights to be removed in this project.

Bid Schedule Revisions / Clarifications:

A revised Bid Schedule has been prepared that includes some newly established pay items, as well as adjustments to wording and/or bid quantities for some existing pay items to provide improved clarity, accuracy, and consistency. These pay item revisions/clarifications are depicted on the revised Bid Schedule distributed as part of this Addendum No. 2 and are associated with Specifications L-115.

Bidders are instructed to remove the originally issued Bid Schedule in its entirety and replace it with updated Bid Schedule (Pages B-10.1 to B-10.19) attached to this Addendum.

The updated bid schedule includes separate mobilization associated with each alternative for the project.

The Bid Schedule has been revised to reflect updated quantities associated with the electrical removal items. Pay Item 65 'REMOVE EXISTING ELECTRICAL SPLICE CAN, COMPLETE' was added, while Pay items 61 and 62 descriptions were simplified to 'REMOVE AND RELOCATE'.

Specification Revisions / Clarifications:

To minimize confusion, specification revisions and clarifications are being presented via the removal/replacement of specifications in their entirety rather than via removal/replacement of the basis or payment section.

Specification L-115 has been revised to reflect the additional Pay Item discussed in the Bid Schedule Revisions

Construction Drawing Revisions / Clarifications:

Revised Construction Drawings have been prepared to provide improved clarity, accuracy, and consistency. These revisions/clarifications are primarily associated with electrical demolition.

Summary of Quantities (G-004) has been revised to include Pay item changes discussed in the Bid Schedule Revisions

Demolition Sheet (CD-103) has been revised to clarify the quantities associated with Pay items 61, 62 and 65.

**This concludes Addendum No. 2 in its entirety.
Acknowledge receipt of this Addendum in the space provided on the Bid Form, Page B-8.**


End of Addendum No. 2



RICHARD B. RUSSELL REGIONAL AIRPORT
 Taxiway Bravo West Relocation - Floyd County Bid # 26-022
 Pre-Bid Meeting Attendance - June 16, 2026 @ 11:00 AM (local)

CMT Project No. 2200 4559 - 00

CONTACT	AFFILIATION	PHONE NUMBER	EMAIL
Bruce Ivy	Floyd County	706 233-0002	bruce.ivy@floydcountyga.org
Damon Carr	GOOT Aviation	470-715-5494	dacarr@dot.ga.gov
CHUCK AARON	SES, INC	716-237-4143	chuck@sesthenet.com
DUSTIN JOHNSON	C.W. MATTHEWS	770-298-8329	DUSTIN@CWMATTHEWS.COM
Jeff Green	Precision Approach, LLC	706 485-7201	jsgreen@precisionapproach.org
Dave Bouck	Presswood construction	423 400-8695	Andrew@presswoodconstruction.com
MIKE REITER	CMT	404-915-4440	mreiter@amt engr. com.

 RICHARD B. RUSSELL REGIONAL AIRPORT Taxiway Bravo West Relocation - Floyd County Bid # 26-022 Pre-Bid Meeting Attendance - June 16, 2026 @ 11:00 AM (local)			
CONTACT	AFFILIATION	PHONE NUMBER	EMAIL
Jake Marshall	CMT	615-921-5778	jmarshall@cmtengr.com
John Carroll	RMG	706-295-7835	john.carroll@floydcountyga.org
Randy E. Self	Floyd Co. Purchasing	706-477-7446	randy.self@floydcountyga.org
William Stephens	Astra group	678-965-4765	wstephens@astragroupinc.com
Brian Bullock	Bartow Paving	678-988-0054	brian@bartowpaving.com
Michael Ferriss	S.A. Creel Contracting	678-736-3708	mferriss@shcreel.com
Blake Merritt	Blount Construction	404-670-4478	blake.merritt@blountconstruction.com

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TAXIWAY BRAVO WEST RELOCATION
RICHARD B. RUSSELL REGIONAL AIRPORT
FLOYD COUNTY, GA

SCHEDULE OF BIDS

RICHARD B. RUSSELL REGIONAL AIRPORT
TAXIWAY BRAVO WEST RELOCATION
FLOYD COUNTY BID NO. 26-022

GDOT PROJECT NUMBER: XXXX-XXXX-XXXX

Item No.	Spec. No.	Item Description / (Write Unit Price in Words)	Estimated Quantity	Unit	Unit Price	Amount
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SCHEDULE OF BIDS

TOTAL - BASE BID = \$ _____

TOTAL - ADDITIVE ALTERNATIVE 1 = \$ _____

TOTAL - ADDITIVE ALTERNATIVE 2 = \$ _____

TOTAL: BASE BID + ADDITIVE BIDS \$ _____

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 RICHARD B. RUSSELL REGIONAL AIRPORT
 FLOYD COUNTY, GA

SCHEDULE OF BIDS

**RICHARD B. RUSSELL REGIONAL AIRPORT
 TAXIWAY BRAVO WEST RELOCATION
 FLOYD COUNTY BID NO. 26-022**

GDOT PROJECT NUMBER: XXXX-XXXX-XXXX

Item No.	Spec. No.	Item Description / (Write Unit Price in Words)	Estimated Quantity	Unit	Unit Price	Amount
BASE BID						
79	GDOT 167-5.02	WATER QUALITY MONITORING AND SAMPLING	7	EACH	\$	\$

						Dollars
						Cents
80	GDOT-402-5.01	RECYCLED ASPHALTIC CONCRETE 12.5MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	2,400	TON	\$	\$

						Dollars
						Cents
81	GDOT-402-5.02	RECYCLED ASPHALTIC CONCRETE 19MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	3,300	TON	\$	\$

						Dollars
						Cents
TOTAL - BASE BID =					\$	_____

SCHEDULE OF BIDS

RICHARD B. RUSSELL REGIONAL AIRPORT
 TAXIWAY BRAVO WEST RELOCATION
 FLOYD COUNTY BID NO. 26-022

GDOT PROJECT NUMBER: XXXX-XXXX-XXXX

Item No.	Spec. No.	Item Description / (Write Unit Price in Words)	Estimated Quantity	Unit	Unit Price	Amount
ADDITIVE ALTERNATIVE 1						
7	P-620-5.04	PAVEMENT MARKING, BLACK, NON-REFLECTIVE, FULL RATE APPLICATION	1,000	SQ. FT.	\$	\$
		Dollars				
		Cents				
8	L-125-5.07	L-853 TYPE II RETROREFLECTIVE MARKERS, INSTALLED, COMPLETE	18	EACH	\$	\$
		Dollars				
		Cents				
9	GDOT-402-5.01	RECYCLED ASPHALTIC CONCRETE 12.5MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	300	TON	\$	\$
		Dollars				
		Cents				
10	GDOT-402-5.02	RECYCLED ASPHALTIC CONCRETE 19MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	300	TON	\$	\$
		Dollars				
		Cents				
TOTAL - ADDITIVE ALTERNATIVE 1 =					\$	

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Item L-115 Electrical Manholes and Junction Structures

DESCRIPTION

115-1.1 This item shall consist of electrical manholes and junction structures (hand holes, pull boxes, junction cans, etc.) installed per this specification, at the indicated locations and conforming to the lines, grades and dimensions shown on the plans or as required by the RPR. This item shall include the installation of each electrical manhole and/or junction structures with all associated excavation, backfilling, sheeting and bracing, concrete, reinforcing steel, ladders, appurtenances, testing, dewatering and restoration of surfaces to the satisfaction of the RPR including removal of existing manholes and junction structures as shown on the plans.

Removal of existing handholes or junction cans shall become property of the Contractor and shall be disposed of legally off-site. The void left by the removed structure shall be backfilled in horizontal layers not to exceed 6 inches in thickness measured after compaction to the density requirements in Item P-152. Each layer shall be deposited all around the structure to approximately the same elevation. The top of the fill shall meet the elevation shown on the plans or as directed by the RPR. Where required, the RPR may direct the Contractor to add, at their own expense, sufficient water during compaction to assure a complete consolidation of the backfill. The Contractor shall be responsible for all damage or injury done to conduits, duct banks, structures, property or persons due to improper placing or compacting of backfill.

EQUIPMENT AND MATERIALS

115-2.1 General.

- a. All equipment and materials covered by referenced specifications shall be subject to acceptance through manufacturer's certification of compliance with the applicable specification when so requested by the RPR.
- b. Manufacturer's certifications shall not relieve the Contractor of the responsibility to provide materials per these specifications. Materials supplied and/or installed that do not comply with these specifications shall be removed (when directed by the RPR) and replaced with materials that comply with these specifications at the Contractor's cost.
- c. All materials and equipment used to construct this item shall be submitted to the RPR for approval prior to ordering the equipment. Submittals consisting of marked catalog sheets or shop drawings shall be provided. Submittal data shall be presented in a clear, precise and thorough manner. Original catalog sheets are preferred. Photocopies are acceptable provided they are as good a quality as the original. Clearly and boldly mark each copy to identify products or models applicable to this project. Indicate all optional equipment and delete any non-pertinent data. Submittals for components of electrical equipment and systems shall identify the equipment to which they apply on each submittal sheet. Markings shall be made bold and clear with arrows or circles (highlighting is not acceptable). The Contractor is solely responsible for delays in the project that may accrue directly or indirectly from late submissions or resubmissions of submittals.
- d. The data submitted shall be sufficient, in the opinion of the RPR, to determine compliance with the plans and specifications. The Contractor's submittals shall be electronically submitted in pdf format, tabbed by specification section. The RPR reserves the right to reject any and all equipment, materials or procedures that do not meet the system design and the standards and codes, specified in this document.
- e. All equipment and materials furnished and installed under this section shall be guaranteed against defects in materials and workmanship for a period of at least twelve (12) months from the date of final acceptance by the Owner. The defective materials and/or equipment shall be repaired or replaced, at the Owner's discretion, with no additional cost to the Owner.

115-2.2 Concrete structures. Concrete shall be proportioned, placed, and cured per Item P-610, Concrete for Miscellaneous Structures. Cast-in-place concrete structures shall be as shown on the plans.

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115-2.3 Precast concrete structures. Precast concrete structures shall be furnished by a plant meeting National Precast Concrete Association Plant Certification Program or another engineer approved third party certification program. Provide precast concrete structures where shown on the plans.

Precast concrete structures shall be an approved standard design of the manufacturer. Precast units shall have mortar or bitumastic sealer placed between all joints to make them watertight. The structure shall be designed to withstand 100,000 lb aircraft loads, unless otherwise shown on the plans. Openings or knockouts shall be provided in the structure as detailed on the plans.

Threaded inserts and pulling eyes shall be cast in as shown on the plans.

If the Contractor chooses to propose a different structural design, signed and sealed shop drawings, design calculations, and other information requested by the RPR shall be submitted by the Contractor to allow for a full evaluation by the RPR. The RPR shall review per the process defined in the General Provisions.

115-2.4 Junction boxes. Junction boxes shall be L-867 Class 1 (non-load bearing) or L-868 Class 1 (load bearing) airport light bases that are encased in concrete. The light bases shall have a L-894 blank cover, gasket, and stainless steel hardware. All bolts, studs, nuts, lock washers, and other similar fasteners used for the light fixture assemblies must be fabricated from 316L (equivalent to EN 1.4404), 18-8, 410, or 416 stainless steel. If 18-8, 410, or 416 stainless steel is utilized it shall be passivated and be free from any discoloration. Covers shall be 3/8-inch (9-mm) thickness for L-867 and 3/4-inch (19-mm) thickness for L-868. All junction boxes shall be provided with both internal and external ground lugs.

115-2.5 Mortar. The mortar shall be composed of one part of cement and two parts of mortar sand, by volume. The cement shall be per the requirements in ASTM C150, Type I. The sand shall be per the requirements in ASTM C144. Hydrated lime may be added to the mixture of sand and cement in an amount not to exceed 15% of the weight of cement used. The hydrated lime shall meet the requirements of ASTM C206. Water shall be potable, reasonably clean and free of oil, salt, acid, alkali, sugar, vegetable, or other substances injurious to the finished product.

115-2.6 Concrete. Concrete shall be proportioned, placed, and cured per Item P-610, Concrete for Miscellaneous Structures.

115-2.7 Frames and covers. The frames shall conform to one of the following requirements:

- a. ASTM A48 Gray iron castings
- b. ASTM A47 Malleable iron castings
- c. ASTM A27 Steel castings
- d. ASTM A283, Grade D Structural steel for grates and frames
- e. ASTM A536 Ductile iron castings
- f. ASTM A897 Austempered ductile iron castings

All castings specified shall withstand a maximum tire pressure of 250 psi and maximum load of 100,000 lbs.

All castings or structural steel units shall conform to the dimensions shown on the plans and shall be designed to support the loadings specified.

Each frame and cover unit shall be provided with fastening members to prevent it from being dislodged by traffic, but which will allow easy removal for access to the structure.

All castings shall be thoroughly cleaned. After fabrication, structural steel units shall be galvanized to meet the requirements of ASTM A123.

Each cover shall have the word "ELECTRIC" or other approved designation cast on it. Each frame and cover shall be as shown on the plans or approved equivalent. No cable notches are required.

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Each manhole shall be provided with a "DANGER -- PERMIT-REQUIRED CONFINED SPACE, DO NOT ENTER" safety warning sign as detailed in the Contract Documents and in accordance with OSHA 1910.146 (c)(2).

115-2.8 Ladders. Ladders, if specified, shall be galvanized steel or as shown on the plans.

115-2.9 Reinforcing steel. All reinforcing steel shall be deformed bars of new billet steel meeting the requirements of ASTM A615, Grade 60.

115-2.10 Bedding/special backfill. Bedding or special backfill shall be as shown on the plans.

115-2.11 Flowable backfill. Flowable material used to backfill shall conform to the requirements of Item P-153, Controlled Low Strength Material.

115-2.12 Cable trays. Cable trays shall be of plastic. Cable trays shall be located as shown on the plans.

115-2.13 Plastic conduit. Plastic conduit shall comply with Item L-110, Airport Underground Electrical Duct Banks and Conduits.

115-2.14 Conduit terminators. Conduit terminators shall be pre-manufactured for the specific purpose and sized as required or as shown on the plans.

115-2.15 Pulling-in irons. Pulling-in irons shall be manufactured with 7/8-inch (22 mm) diameter hot-dipped galvanized steel or stress-relieved carbon steel roping designed for concrete applications (7 strand, 1/2-inch (12 mm) diameter with an ultimate strength of 270,000 psi (1862 MPa)). Where stress-relieved carbon steel roping is used, a rustproof sleeve shall be installed at the hooking point and all exposed surfaces shall be encapsulated with a polyester coating to prevent corrosion.

115-2.16 Ground rods. Ground rods shall be one piece, copper clad steel. The ground rods shall be of the length and diameter specified on the plans, but in no case shall they be less than 8 feet (2.4 m) long nor less than 5/8 inch (16 mm) in diameter.

CONSTRUCTION METHODS

115-3.1 Unclassified excavation. It is the Contractor's responsibility to locate existing utilities within the work area prior to excavation. Damage to utility lines, through lack of care in excavating, shall be repaired or replaced to the satisfaction of the RPR without additional expense to the Owner.

The Contractor shall perform excavation for structures and structure footings to the lines and grades or elevations shown on the plans or as staked by the RPR. The excavation shall be of sufficient size to permit the placing of the full width and length of the structure or structure footings shown.

All excavation shall be unclassified and shall be considered incidental to Item L-115. Dewatering necessary for structure installation and erosion per federal, state, and local requirements is incidental to Item L-115.

Boulders, logs and all other objectionable material encountered in excavation shall be removed. All rock and other hard foundation material shall be cleaned of all loose material and cut to a firm surface either level, stepped or serrated, as directed by the RPR. All seams, crevices, disintegrated rock and thin strata shall be removed. When concrete is to rest on a surface other than rock, special care shall be taken not to disturb the bottom of the excavation. Excavation to final grade shall not be made until just before the concrete or reinforcing is to be placed.

The Contractor shall provide all bracing, sheeting and shoring necessary to implement and protect the excavation and the structure as required for safety or conformance to governing laws. The cost of bracing, sheeting and shoring shall be included in the unit price bid for the structure.

Unless otherwise provided, bracing, sheeting and shoring involved in the construction of this item shall be removed by the Contractor after the completion of the structure. Removal shall be effected in a manner that will not disturb or mar finished masonry. The cost of removal shall be included in the unit price bid for the structure.

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After each excavation is completed, the Contractor shall notify the RPR. Structures shall be placed after the RPR has approved the depth of the excavation and the suitability of the foundation material.

Prior to installation the Contractor shall provide a minimum of 6 inches (150 mm) of sand or a material approved by the RPR as a suitable base to receive the structure. The base material shall be compacted and graded level and at proper elevation to receive the structure in proper relation to the conduit grade or ground cover requirements, as indicated on the plans.

115-3.2 Concrete structures. Concrete structures shall be built on prepared foundations conforming to the dimensions and form indicated on the plans. The concrete and construction methods shall conform to the requirements specified in Item P-610. Any reinforcement required shall be placed as indicated on the plans and shall be approved by the RPR before the concrete is placed.

115-3.3 Precast unit installations. Precast units shall be installed plumb and true. Joints shall be made watertight by use of sealant at each tongue-and-groove joint and at roof of manhole. Excess sealant shall be removed and severe surface projections on exterior of neck shall be removed.

115-3.4 Placement and treatment of castings, frames and fittings. All castings, frames and fittings shall be placed in the positions indicated on the Plans or as directed by the RPR and shall be set true to line and to correct elevation. If frames or fittings are to be set in concrete or cement mortar, all anchors or bolts shall be in place and position before the concrete or mortar is placed. The unit shall not be disturbed until the mortar or concrete has set.

Field connections shall be made with bolts, unless indicated otherwise. Welding will not be permitted unless shown otherwise on the approved shop drawings and written approval is granted by the casting manufacturer. Erection equipment shall be suitable and safe for the workman. Errors in shop fabrication or deformation resulting from handling and transportation that prevent the proper assembly and fitting of parts shall be reported immediately to the RPR and approval of the method of correction shall be obtained. Approved corrections shall be made at Contractor's expense.

Anchor bolts and anchors shall be properly located and built into connection work. Bolts and anchors shall be preset by the use of templates or such other methods as may be required to locate the anchors and anchor bolts accurately.

Pulling-in irons shall be located opposite all conduit entrances into structures to provide a strong, convenient attachment for pulling-in blocks when installing cables. Pulling-in irons shall be set directly into the concrete walls of the structure.

115-3.5 Installation of ladders. Ladders shall be installed such that they may be removed if necessary. Mounting brackets shall be supplied top and bottom and shall be cast in place during fabrication of the structure or drilled and grouted in place after erection of the structure.

115-3.6 Removal of sheeting and bracing. In general, all sheeting and bracing used to support the sides of trenches or other open excavations shall be withdrawn as the trenches or other open excavations are being refilled. That portion of the sheeting extending below the top of a structure shall be withdrawn, unless otherwise directed, before more than 6 inches (150 mm) of material is placed above the top of the structure and before any bracing is removed. Voids left by the sheeting shall be carefully refilled with selected material and rammed tight with tools especially adapted for the purpose or otherwise as may be approved.

The RPR may direct the Contractor to delay the removal of sheeting and bracing if, in his judgment, the installed work has not attained the necessary strength to permit placing of backfill.

115-3.7 Backfilling. After a structure has been completed, the area around it shall be backfilled in horizontal layers not to exceed 6 inches (150 mm) in thickness measured after compaction to the density requirements in Item P-152. Each layer shall be deposited all around the structure to approximately the same elevation. The top of the fill shall meet the elevation shown on the plans or as directed by the RPR.

Backfill shall not be placed against any structure until approval is given by the RPR. In the case of concrete, such approval shall not be given until tests made by the laboratory under supervision of the RPR establish that the

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concrete has attained sufficient strength to provide a factor of safety against damage or strain in withstanding any pressure created by the backfill or the methods used in placing it.

Where required, the RPR may direct the Contractor to add, at his own expense, sufficient water during compaction to assure a complete consolidation of the backfill. The Contractor shall be responsible for all damage or injury done to conduits, duct banks, structures, property or persons due to improper placing or compacting of backfill.

115-3.8 Connection of duct banks. To relieve stress of joint between concrete-encased duct banks and structure walls, reinforcement rods shall be placed in the structure wall and shall be formed and tied into duct bank reinforcement at the time the duct bank is installed.

115-3.9 Grounding. A ground rod shall be installed in the floor of all concrete structures so that the top of rod extends 6 inches (150 mm) above the floor. The ground rod shall be installed within one foot (30 cm) of a corner of the concrete structure. Ground rods shall be installed prior to casting the bottom slab. Where the soil condition does not permit driving the ground rod into the earth without damage to the ground rod, the Contractor shall drill a 4-inch (100 mm) diameter hole into the earth to receive the ground rod. The hole around the ground rod shall be filled throughout its length, below slab, with Portland cement grout. Ground rods shall be installed in precast bottom slab of structures by drilling a hole through bottom slab and installing the ground rod. Bottom slab penetration shall be sealed watertight with Portland cement grout around the ground rod.

A grounding bus of 4/0 bare stranded copper shall be exothermically bonded to the ground rod and loop the concrete structure walls. The ground bus shall be a minimum of one foot (30 cm) above the floor of the structure and separate from other cables. No. 2 American wire gauge (AWG) bare copper pigtailed shall bond the grounding bus to all cable trays and other metal hardware within the concrete structure. Connections to the grounding bus shall be exothermic. If an exothermic weld is not possible, connections to the grounding bus shall be made by using connectors approved for direct burial in soil or concrete per UL 467. Hardware connections may be mechanical, using a lug designed for that purpose.

115-3.10 Cleanup and repair. After erection of all galvanized items, damaged areas shall be repaired by applying a liquid cold-galvanizing compound per MIL-P-21035. Surfaces shall be prepared and compound applied per the manufacturer's recommendations.

Prior to acceptance, the entire structure shall be cleaned of all dirt and debris.

115-3.11 Restoration. After the backfill is completed, the Contractor shall dispose of all surplus material, dirt and rubbish from the site. The Contractor shall restore all disturbed areas equivalent to or better than their original condition. All sodding, grading and restoration shall be considered incidental to the respective Item L-115 pay item.

The Contractor shall grade around structures as required to provide positive drainage away from the structure.

Areas with special surface treatment, such as roads, sidewalks, or other paved areas shall have backfill compacted to match surrounding areas, and surfaces shall be repaired using materials comparable to original materials.

Following restoration of all trenching near airport movement surfaces, the Contractor shall thoroughly visually inspect the area for foreign object debris (FOD), and remove any such FOD that is found. This FOD inspection and removal shall be considered incidental to the pay item of which it is a component part.

After all work is completed, the Contractor shall remove all tools and other equipment, leaving the entire site free, clear and in good condition.

115-3.12 Inspection. Prior to final approval, the electrical structures shall be thoroughly inspected for conformance with the plans and this specification. Any indication of defects in materials or workmanship shall be further investigated and corrected. The earth resistance to ground of each ground rod shall not exceed 25 ohms. Each ground rod shall be tested using the fall-of-potential ground impedance test per American National Standards Institute / Institute of Electrical and Electronic Engineers (ANSI/IEEE) Standard 81. This test shall be performed prior to establishing connections to other ground electrodes.

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115-3.13 Manhole elevation adjustments. The Contractor shall adjust the tops of existing manholes in areas designated in the Contract Documents to the new elevations shown. The Contractor shall be responsible for determining the exact height adjustment required to raise or lower the top of each manhole to the new elevations. The existing top elevation of each manhole to be adjusted shall be determined in the field and subtracted/added from the proposed top elevation.

The Contractor shall remove/extend the existing top section or ring and cover on the manhole structure or manhole access. The Contractor shall install precast concrete sections or grade rings of the required dimensions to adjust the manhole top to the new proposed elevation or shall cut the existing manhole walls to shorten the existing structure, as required by final grades. The Contractor shall reinstall the manhole top section or ring and cover on top and check the new top elevation.

The Contractor shall construct a concrete slab around the top of adjusted structures located in graded areas that are not to be paved. The concrete slab shall conform to the dimensions shown on the plans.

115-3.14 Duct extension to existing ducts. Where existing concrete encased ducts are to be extended, the duct extension shall be concrete encased plastic conduit. The fittings to connect the ducts together shall be standard manufactured connectors designed and approved for the purpose. The duct extensions shall be installed according to the concrete encased duct detail and as shown on the plans.

METHOD OF MEASUREMENT

115-4.1 Electrical manholes and junction structures shall be measured by each unit completed in place and accepted. The following items shall be included in the price of each unit: All required excavation and dewatering;; sheeting and bracing; all required backfilling with on-site materials; restoration of all surfaces and finished grading and turfing; all required connections; temporary cables and connections; and ground rod testing

115-4.2 Manhole elevation adjustments shall be measured by the completed unit installed, in place, completed, and accepted. Separate measurement shall not be made for the various types and sizes.

BASIS OF PAYMENT

115-5.1 The accepted quantity of electrical manholes and junction structures will be paid for at the Contract unit price per each, complete and in place. This price shall be full compensation for furnishing all materials and for all preparation, excavation, backfilling and placing of the materials, furnishing and installation of appurtenances and connections to duct banks and other structures as may be required to complete the item as shown on the plans and for all labor, equipment, tools and incidentals necessary to complete the structure.

115-5.2 Payment shall be made at the contract unit price for manhole elevation adjustments. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary, including but not limited to, spacers, concrete, rebar, dewatering, excavating, backfill, topsoil, sodding and pavement restoration, where required, to complete this item as shown in the plans and to the satisfaction of the RPR.

Payment will be made under:

Item L-115-5.01	2-Can Junction Can Plaza, Installed, Complete - per each
Item L-115-5.02	Splice Can, Installed, Complete - per each
Item L-115-5.03	Remove and Relocate Existing Electrical Handholes, Installed, Complete - per each
Item L-115-5.04	Remove and Relocate Existing Electrical Splice Can, Installed, Complete - per each
Item L-115-5.05	Existing Electrical Junction Structure Elevation Adjustment - per each

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Item L-115-5.06	3-Can Junction Can Plaza, Installed, Complete – per each
Item L-115-5.07	Remove Existing Electrical Splice Can, Complete – per each

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

American National Standards Institute / Insulated Cable Engineers Association (ANSI/ICEA)

ANSI/IEEE STD 81	IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Ground System
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Advisory Circular (AC)

AC 150/5345-7	Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits
AC 150/5345-26	Specification for L-823 Plug and Receptacle, Cable Connectors
AC 150/5345-42	Specification for Airport Light Bases, Transformer Housings, Junction Boxes, and Accessories
AC 150/5340-30	Design and Installation Details for Airport Visual Aids
AC 150/5345-53	Airport Lighting Equipment Certification Program

Commercial Item Description (CID)

A-A 59544	Cable and Wire, Electrical (Power, Fixed Installation)
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ASTM International (ASTM)

ASTM A27	Standard Specification for Steel Castings, Carbon, for General Application
ASTM A47	Standard Specification for Ferritic Malleable Iron Castings
ASTM A48	Standard Specification for Gray Iron Castings
ASTM A123	Standard Specification for Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products
ASTM A283	Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates
ASTM A536	Standard Specification for Ductile Iron Castings
ASTM A615	Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement
ASTM A897	Standard Specification for Austempered Ductile Iron Castings
ASTM C144	Standard Specification for Aggregate for Masonry Mortar
ASTM C150	Standard Specification for Portland Cement
ASTM C206	Standard Specification for Finishing Hydrated Lime

FAA Engineering Brief (EB)

EB #83	In Pavement Light Fixture Bolts
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Mil Spec

MIL-P-21035	Paint High Zinc Dust Content, Galvanizing Repair
National Fire Protection Association (NFPA)	
NFPA-70	National Electrical Code (NEC)

END OF ITEM L-115

BASE BID						
ITEM NO	SPEC NO	ITEM DESCRIPTION	UNIT	PLAN	FINAL	
1	C-105-14.01	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	L. SUM	1		
2	C-102-5.01	TEMPORARY SEEDING AND MULCHING	ACRE	32		
3	C-102-5.02	INSTALLATION AND REMOVAL OF SILT FENCE	LN. FT.	2,100		
4	C-102-5.03	MAINTENANCE OF SILT FENCE	LN. FT.	2,100		
5	C-105-6.01	MOBILIZATION	L. SUM	1		
6	P-101-5.01	FULL DEPTH PAVEMENT MILLING	SQ. YD.	31,000		
7	P-101-5.02	DRAINAGE STRUCTURE REMOVAL	EACH	11		
8	P-101-5.03	PIPE REMOVAL	LN. FT.	1,700		
9	P-152-4.01	UNCLASSIFIED EXCAVATION	CU. YD.	40,700		
10	P-152-4.02	ROCK EXCAVATION	CU. YD.	2,000		
11	P-152-4.03	UNSATURABLE EXCAVATION	CU. YD.	3,000		
12	P-155-5.01	LIME TREATED SUBGRADE	SQ. YD.	5,000		
13	P-155-5.02	LIME	TON	80		
14	P-209-5.01	CRUSHED AGGREGATE BASE COURSE	CU. YD.	80		
15	P-209-5.02	SEPARATION GEOTEXTILE	SQ. YD.	2,000		
16	P-603-5.01	EMULSIFIED ASPHALT PRIME COAT	GAL.	6,200		
17	P-603-5.01	EMULSIFIED ASPHALT TACK COAT	GAL.	1,600		
18	P-605-5.01	SAWCUT AND SEAL PAVEMENT JOINT	LN. FT.	900		
19	P-620-5.01	PAVEMENT MARKING, WHITE, REFLECTIVE, FULL RATE APPLICATION, WITH MICROBICIDE	SQ. FT.	300		
20	P-620-5.02	PAVEMENT MARKING, YELLOW, NON-REFLECTIVE, HALF RATE APPLICATION	SQ. FT.	4,500		
21	P-620-5.03	PAVEMENT MARKING, YELLOW, REFLECTIVE, FULL RATE APPLICATION, WITH MICROBICIDE	SQ. FT.	4,500		
22	P-620-5.04	PAVEMENT MARKING, BLACK, NON-REFLECTIVE, FULL RATE APPLICATION	SQ. FT.	7,600		
23	P-620-5.05	PAVEMENT MARKING REMOVAL	SQ. FT.	1,300		
24	D-699-5.01	CONSTRUCTION OF TEMPORARY SEDIMENT POND	EACH	1		
25	D-699-5.02	MAINTENANCE OF TEMPORARY SEDIMENT POND	EACH	1		
26	D-699-5.03	CLEANUP & FINAL STABILIZATION OF POND	EACH	1		
27	D-700-4.01	STONE RETROFITTING	EACH	1		
28	D-701-5.01	24" RCP STORM DRAIN PIPE, CLASS III	LN. FT.	3,400		
29	D-701-5.02	TRENCHING FOR STORM DRAIN PIPE AND BACKFILL IN ROCK	LN. FT.	2,300		
30	D-701-5.03	TRENCHING FOR STORM DRAIN PIPE AND BACKFILL IN SOIL	LN. FT.	1,100		
31	D-751-5.01	CATCH BASINS	EACH	18		
32	D-751-5.02	CONSTRUCTION OF POND OUTLET STRUCTURE/PIPPING	EACH	1		
33	D-753-5.01	RIP RAP	TON	50		
34	D-753-5.02	ROCK FILTER DAM	EACH	1		
35	D-753-5.03	CHECK DAM	EACH	20		
36	E-891-5.01	INLET PROTECTION	EACH	20		
37	E-895-5.01	TEMPORARY EROSION CONTROL MATTING	SQ. YD.	20,000		
38	E-895-5.02	PERMANENT EROSION CONTROL MATTING	SQ. YD.	20,000		
39	T-901-5.01	SEEDING	ACRE	32		
40	T-905-5.01	TOPSOIL (OBTAINED ON SITE OR REMOVED FROM STOCKPILE)	CU. YD.	14,900		
41	T-908-5.01	MULCHING	ACRE	32		
42	L-108-5.01	REMOVE EXISTING CABLE IN UNIT DUCT, CONDUIT, OR TRENCH	LN. FT.	3,800		
43	L-108-5.02	TRENCHING FOR DIRECT BURIED CABLE AND BACKFILL IN SOIL	LN. FT.	7,900		
44	L-108-5.03	TRENCHING FOR DIRECT BURIED CABLE AND BACKFILL IN ROCK	LN. FT.	2,400		
45	L-108-5.04	NO. 8 AWG 15KV, L-24, TYPE C CABLE, INSTALLED IN TRENCH, DUCT BANK OR CONDUIT	LN. FT.	15,700		
46	L-108-5.05	NO. 6 AWG, SOLID, BARE COPPER COUNTERTROSE WIRE, INSTALLED IN TRENCH, INCLUDING GROUND ROSS, CONNECTIONS/TERMINATIONS	LN. FT.	7,900		
47	L-108-5.06	288 XLP-15SE, 148 GND INSTALLED IN TRENCH	LN. FT.	200		
48	L-108-5.07	NO. 8 AWG, 600V, TYPE THWV CABLE INSTALLED IN TRENCH, DUCT BANK, OR CONDUIT	LN. FT.	900		
49	L-109-7.01	ASPHALT WALK MODIFICATIONS	L. SUM	1		
50	L-109-7.02	NEW 7.5KW REGULATOR, INSTALLED, COMPLETE (TAXIWAY B)	EACH	1		
51	L-110-5.01	CONCRETE ENCASED ELECTRICAL DUCT BANK 1-2" SCHEDULE 40 PVC	LN. FT.	500		
52	L-110-5.02	CONCRETE ENCASED ELECTRICAL DUCT BANK 2-2" SCHEDULE 40 PVC	LN. FT.	400		
53	L-110-5.03	CONCRETE ENCASED ELECTRICAL DUCT BANK 3-2" SCHEDULE 40 PVC	LN. FT.	300		
54	L-110-5.04	CONCRETE ENCASED ELECTRICAL DUCT BANK 4-2" SCHEDULE 40 PVC	LN. FT.	200		
55	L-110-5.05	NON-ENCASED ELECTRICAL CONDUIT 1-2" SCHEDULE 40 PVC	LN. FT.	8,000		
56	L-110-5.06	REMOVE CONDUIT	LN. FT.	3,000		
57	L-110-5.07	CLEAR EXISTING CONDUIT	LN. FT.	400		
58	L-110-5.08	EXTEND CONCRETE ENCASED ELECTRICAL DUCT BANK 2-2" SCHEDULE 40 PVC	LN. FT.	40		
59	L-115-5.01	2-CAN JUNCTION CAN PLAZA, INSTALLED, COMPLETE	EACH	2		

BASE BID						
ITEM NO	SPEC NO	ITEM DESCRIPTION	UNIT	PLAN	FINAL	
60	L-115-5.02	SPLICE CAN, INSTALLED, COMPLETE	EACH	5		
61	L-115-5.03	REMOVE AND RELOCATE EXISTING ELECTRICAL HANDHOLES, INSTALLED, COMPLETE	EACH	2		
62	L-115-5.04	REMOVE AND RELOCATE EXISTING ELECTRICAL SPLICE CAN, INSTALLED, COMPLETE	EACH	2		
63	L-115-5.05	EXISTING ELECTRICAL JUNCTION STRUCTURE ELEVATION ADJUSTMENT	EACH	4		
64	L-115-5.06	3-CAN JUNCTION CAN PLAZA, INSTALLED, COMPLETE	EACH	2		
65	L-115-5.07	REMOVE EXISTING ELECTRICAL SPLICE CAN, COMPLETE	EACH	2		
66	L-125-5.01	L-881(TL) TAXIWAY STAKE MOUNTED EDGE LIGHT, INSTALLED, COMPLETE	EACH	77		
67	L-125-5.02	L-881(TL) TAXIWAY BASE MOUNTED EDGE LIGHT, INSTALLED, COMPLETE	EACH	45		
68	L-125-5.03	RELOCATE GUIDANCE SIGN, 1 MODULE ON NEW FOUNDATION, INSTALLED, COMPLETE	EACH	1		
69	L-125-5.04	RELOCATE GUIDANCE SIGN, 2 MODULE ON NEW FOUNDATION, INSTALLED, COMPLETE	EACH	1		
70	L-125-5.05	RELOCATE GUIDANCE SIGN, 3 MODULE ON NEW FOUNDATION, INSTALLED, COMPLETE	EACH	4		
71	L-125-5.06	NEW GUIDANCE SIGN, 3 MODULE ON NEW FOUNDATION, INSTALLED, COMPLETE	EACH	2		
72	L-125-5.07	L-453 TYPE II RETROREFLECTIVE MARKERS, INSTALLED, COMPLETE	EACH	18		
73	L-125-5.08	REMOVE AND REINSTALL L-450C HIGH INTENSITY RUNWAY EDGE LIGHT, IN-PAVEMENT, INSTALLED, COMPLETE	EACH	1		
74	L-125-5.09	REMOVE ELEVATED LIGHT	EACH	46		
75	L-125-5.10	REMOVE GUIDANCE SIGN FOUNDATION	EACH	7		
76	L-125-5.11	REMOVE AND REPLACE GUIDANCE SIGN ISOLATION TRANSFORMER	EACH	7		
77	L-125-5.12	UPGRADE STAKE MOUNTED L-881(TL) EDGE LIGHTS TO BASE MOUNTED	EACH	77		
78	GDOT 167-5.01	WATER QUALITY INSPECTIONS	MONTH	7		
79	GDOT 167-5.02	WATER QUALITY MONITORING AND SAMPLING	EACH	7		
80	GDOT-402-5.01	RECYCLED ASPHALTIC CONCRETE 12.5MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	TON	2,400		
81	GDOT-402-5.02	RECYCLED ASPHALTIC CONCRETE 19MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	TON	3,300		

ADDITIVE ALTERNATIVE 1						
ITEM NO	SPEC NO	ITEM DESCRIPTION	UNIT	PLAN	FINAL	
1	C-105-6.01	MOBILIZATION	L. SUM	1		
2	P-209-5.01	CRUSHED AGGREGATE BASE COURSE	CU. YD.	500		
3	P-602-5.01	EMULSIFIED ASPHALT PRIME COAT	GAL.	600		
4	P-602-5.01	EMULSIFIED ASPHALT TACK COAT	GAL.	200		
5	P-620-5.02	PAVEMENT MARKING, YELLOW, NON-REFLECTIVE, HALF RATE APPLICATION	SQ. FT.	500		
6	P-620-5.03	PAVEMENT MARKING, YELLOW, REFLECTIVE, FULL RATE APPLICATION, WITH MICROBICIDE	SQ. FT.	500		
7	P-620-5.04	PAVEMENT MARKING, BLACK, NON-REFLECTIVE, FULL RATE APPLICATION	SQ. FT.	1,000		
8	L-125-5.07	L-853 TYPE II RETROREFLECTIVE MARKERS, INSTALLED, COMPLETE	EACH	18		
9	GDOT-402-5.01	RECYCLED ASPHALTIC CONCRETE 12.5MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	TON	300		
10	GDOT-402-5.02	RECYCLED ASPHALTIC CONCRETE 19MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	TON	300		

ADDITIVE ALTERNATIVE 2						
ITEM NO	SPEC NO	ITEM DESCRIPTION	UNIT	PLAN	FINAL	
1	C-105-6.01	MOBILIZATION	L. SUM	1		
2	P-209-5.01	CRUSHED AGGREGATE BASE COURSE	CU. YD.	400		
3	P-602-5.01	EMULSIFIED ASPHALT PRIME COAT	GAL.	400		
4	P-602-5.01	EMULSIFIED ASPHALT TACK COAT	GAL.	100		
5	P-620-5.02	PAVEMENT MARKING, YELLOW, NON-REFLECTIVE, HALF RATE APPLICATION	SQ. FT.	200		
6	P-620-5.03	PAVEMENT MARKING, YELLOW, REFLECTIVE, FULL RATE APPLICATION, WITH MICROBICIDE	SQ. FT.	200		
7	P-620-5.04	PAVEMENT MARKING, BLACK, NON-REFLECTIVE, FULL RATE APPLICATION	SQ. FT.	300		
8	L-125-5.07	L-453 TYPE II RETROREFLECTIVE MARKERS, INSTALLED, COMPLETE	EACH	6		
9	GDOT-402-5.01	RECYCLED ASPHALTIC CONCRETE 12.5MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	TON	200		
10	GDOT-402-5.02	RECYCLED ASPHALTIC CONCRETE 19MM SUPERPAVE, GROUP-BLEND, INCLUDING POLYMER-MODIFIED BITUMINOUS MATERIALS AND HYDRATED LIME	TON	200		



CONSULTANTS

THIS DRAWING IS TO BE USED AT FULL SCALE (20:1)



ISSUED FOR BID

TAXIWAY BRAVO WEST RELOCATION

OWNER



RICHARD B. RUSSELL REGIONAL AIRPORT FLOYD COUNTY, GEORGIA

2. 052026ADDENDUM #2

MARK DATE DESCRIPTION

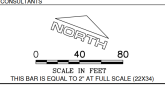
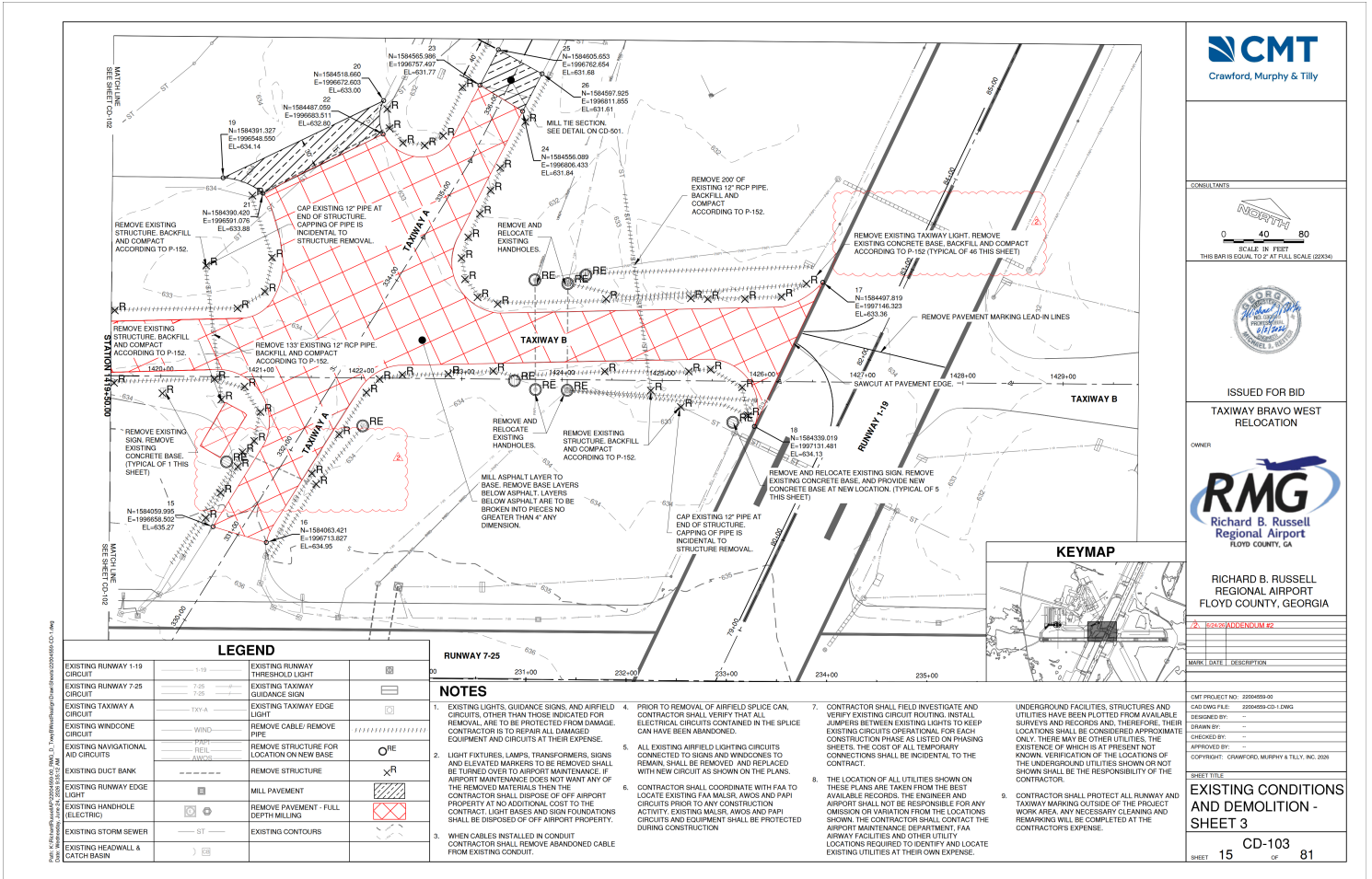
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 CAD DRAW FILE: 2100409-00-CAD-DWG
 DESIGNED BY: JSH/AM
 DRAWN BY: JSH
 CHECKED BY: JAM
 APPROVED BY: MUR
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SHEET TITLE

SUMMARY OF QUANTITIES

G-004

SHEET 4 of 81



ISSUED FOR BID
TAXIWAY BRAVO WEST
RELOCATION



RICHARD B. RUSSELL
REGIONAL AIRPORT
FLOYD COUNTY, GEORGIA

MARK	DATE	DESCRIPTION

CMT PROJECT NO.	2200409-00
CAD DRAW FILE	2200409-00-1.DWG
DESIGNED BY	
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**EXISTING CONDITIONS
AND DEMOLITION -
SHEET 3**

CD-103
SHEET 15 of 81

LEGEND	
EXISTING RUNWAY 1-19 CIRCUIT	EXISTING RUNWAY THRESHOLD LIGHT
EXISTING RUNWAY 7-25 CIRCUIT	EXISTING TAXIWAY GUIDANCE SIGN
EXISTING TAXIWAY A CIRCUIT	EXISTING TAXIWAY EDGE LIGHT
EXISTING WINDCONE CIRCUIT	REMOVE CABLE/ REMOVE PIPE
EXISTING NAVIGATIONAL AID CIRCUITS	REMOVE STRUCTURE FOR LOCATION ON NEW BASE
EXISTING DUCT BANK	REMOVE STRUCTURE
EXISTING RUNWAY EDGE LIGHT	MILL PAVEMENT
EXISTING HANDHOLE (ELECTRIC)	REMOVE PAVEMENT - FULL DEPTH MILLING
EXISTING STORM SEWER	EXISTING CONTOURS
EXISTING HEADWALL & CATCH BASIN	

- NOTES**
- EXISTING LIGHTS, GUIDANCE SIGNS, AND AIRFIELD CIRCUITS OTHER THAN THOSE INDICATED FOR REMOVAL ARE TO BE PROTECTED FROM DAMAGE. CONTRACTOR IS TO REPAIR ALL DAMAGED EQUIPMENT AND CIRCUITS AT THEIR EXPENSE.
 - LIGHT FIXTURES, LAMPS, TRANSFORMERS, SIGNS AND ELEVATED MARKERS TO BE REMOVED SHALL BE TURNED OVER TO AIRPORT MAINTENANCE. IF AIRPORT MAINTENANCE DOES NOT WANT ANY OF THE REMOVED MATERIALS THEN THE CONTRACTOR SHALL DISPOSE OF OFF AIRPORT PROPERTY AT NO ADDITIONAL COST TO THE CONTRACTOR. LIGHT BASES AND SIGN FOUNDATIONS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY.
 - WHEN CABLES INSTALLED IN CONDUIT CONTRACTOR SHALL REMOVE ABANDONED CABLE FROM EXISTING CONDUIT.
 - PRIOR TO REMOVAL OF AIRFIELD SPLICE CAN CONTRACTOR SHALL VERIFY THAT ALL ELECTRICAL CIRCUITS CONTAINED IN THE SPLICE CAN HAVE BEEN ABANDONED.
 - ALL EXISTING AIRFIELD LIGHTING CIRCUITS CONNECTED TO SIGNS AND WINDCONES TO REMAIN, SHALL BE REMOVED AND REPLACED WITH NEW CIRCUIT AS SHOWN ON THE PLANS.
 - CONTRACTOR SHALL COORDINATE WITH FAA TO LOCATE EXISTING FAA MALSR, RWIS AND PAPI CIRCUITS PRIOR TO ANY CONSTRUCTION ACTIVITY. EXISTING MALSR, RWIS AND PAPI CIRCUITS AND EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION.
 - CONTRACTOR SHALL FIELD INVESTIGATE AND VERIFY EXISTING CIRCUIT ROUTING. INSTALL JUMPERS BETWEEN EXISTING LIGHTS TO KEEP EXISTING CIRCUITS OPERATIONAL FOR EACH CONSTRUCTION PHASE AS LISTED ON PHASING SHEETS. THE COST OF ALL TEMPORARY CONNECTIONS SHALL BE INCIDENTAL TO THE CONTRACT.
 - THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS ARE TAKEN FROM THE BEST AVAILABLE RECORDS. THE ENGINEER AND AIRPORT SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. THE CONTRACTOR SHALL CONTACT THE AIRPORT MAINTENANCE DEPARTMENT, FAA AIRWAY FACILITIES AND OTHER UTILITY LOCATIONS REQUIRED TO IDENTIFY AND LOCATE EXISTING UTILITIES AT THEIR OWN EXPENSE.
 - UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND, THEREFORE, THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UTILITIES, THE EXISTENCE OF WHICH IS AT PRESENT NOT KNOWN. VERIFICATION OF THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN OR NOT SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.