

QUESTIONS AND ANSWERS REGARDING MSCAA PROJECT 18-1413-03 TW Bravo Hot Spot 1 - Construction

1.	<p>R.C. Construction Co., Inc. is noticing a discrepancy in the <u>Pre-Bid Meeting</u> requirements noted within the bid document 18-1413-02 Bravo Hot Spot Front Ends.pdf.</p> <p>➤ There are two different options for Pre-Bid meetings; one virtual and one which requires attendance to submit a bid package? Please confirm which meeting Bidders should attend.</p> <ul style="list-style-type: none"> ○ In Section 00100 – Page 1, the Pre-Bid meeting is noted as being a Virtual Pre-Bid meeting with a phone/video conference link provided. ○ In Section 00200 – Page 1, the Pre-Bid meeting is noted as being held at the Airport Project Center, located at 4225 Airways Blvd, Memphis, TN 38116. The project sites will be available for inspection immediately following the meeting. Only those in attendance may submit a response. Pre-bid attendance is strongly recommended.
	<p>Section 00100 is correct. Section 00200 has been revised and provided in Addendum 2.</p>
2.	<p>R.C. Construction Co., Inc. is unable to locate the DBE goal of Additive Alternate 1 (23%), which is noted in Section 00445, Page 3, paragraph <i>Identification of Contract Goal and Requirements</i>. We are unable to locate any additional references to “Additive” in the bid document 18-1413-02 Bravo Hot Spot Front Ends.pdf. Please confirm that this project contains a (23%) Additive Alternate 1 related to the DBE goals and provide the details.</p>
	<p>Specifications section 00445 Disadvantage Business Enterprise (DBE) Requirements has been replaced with Section 00445 Small Business Participation Program (SBPPP) Requirements with a 26% participation goal and no alternate.</p>
3.	<p>On sheet C-UD-01 and C-UD-02, the legend shows Longitudinal 6" UD perforated pipe, and references Detail 4 on sheet C-UD-03, which states that the 6" UD pipe is NON perforated, contradicting it. Can the Owner clarify this contradiction?</p>
	<p>Longitudinal Underdrains are perforated pipes. Detail 4 depicts an outfall pipe while Detail 1 depicts the Longitudinal Perforated Underdrain Pipe. Note should refer to Detail 1.</p>
4.	<p>The Bid Forum lists 23 UD Clean Outs, but the plans apparently show only 16. There is also 738 LF more 6" UD, perforated and non-perforated, in the Bid Forum than apparently shown on the plansheets. Is there a missing Underdrain plansheet? Can the Owner clarify this discrepancy?</p>
	<p>The contractor might have to replace the existing underdrain (depending on the depth and condition of the existing Underdrain) along the East edge of Taxiway Sierra. There is a chance it might be damaged when the existing concrete paving is removed above it. The excess length and clean outs in the bid form take this additional line into account.</p>
5.	<p>Please provide allowance values for the bid form with units "ALLOW".</p>
	<p>There is an allowance of \$125,000 for miscellaneous Airfield Pavement Repair</p>

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6.	SS 100-4.7 Field Office Trailer - Any required office furniture will be included and reimbursed under the Office Equipment Allowance included under SC-30-6. Please provide an SC-30 Spec Section.
	Office Trailer and any required office furniture will not be reimbursed separately. Please include cost in Mobilization.
7.	Pay Item 1: SC-30-1: Airfield Pavement Repair, please provide Spec Section SC-30.
	Will provide an allowance of \$125,000
8.	Under Spec Section S-100: Item S-100-6.8, Portable Lighted Runway Closure Marker - per Each. This item is not on the bid form, please add to the bid form.
	No Portable Lighted Runway Closure light required. MEM will utilize their closure lights for the temporary short-term durations needed.
9.	Under Spec Section S-100: Item S-100-6.3, Low Profile Barricade (Type 1) (Contractor Furnished) per Each. This item is not on the bid form, please add to the bid form.
	A&H will add this item to the quantities/Bid Form
10.	Under Spec Section P-101: Item P-101-5.02 Demolition - Remove Existing Concrete Swale - per linear foot. This item is not on the bid form, please add to the bid form.
	A&H will add this item to the quantities/Bid Form
11.	On the bid form, P-101.5.05 is missing, please include pay item(s).
	A&H will add this item to the quantities/Bid Form
12.	Item P-620-5.8 is missing from the bid form/mis numbered. Please update bid form to match SS Pay Items.
	Item P-620-5.8 has been added
13.	C-EC-01: This sheet shows two shades of 6" under drain. It is unclear as to which is to be removed and covered under misc. demolition, please clarify.
	The thick dashed line depicts Airfield Paint to be removed while the X's denote item(s) to be removed. The 6" underdrain and laterals will be removed along Bravo and Alpha in the sections where new pavement is installed.
14.	C-EC-01: This sheet shows two bold runs of 24" RCP and 36" RCP, please confirm if the intent is to demolish these two runs of RCP, as well as the boxes/GCOs.
	Bold items do not denote demolition. Those 2 runs of piping are brand new and were placed under the Alpha project and aren't intended to be demolished.

15.	E-DP-02: This drawing does not indicate the conduit being removed under TWY Bravo or TWY Alpha from light can to light can being removed. Is the contractor to assume this conduit will be abandoned in place?
	Conduit will need to be removed as it will be in the way of new pavement subbases
16.	Please confirm that the TW Bravo Hot Spot 1 - Construction project has the MSCAA Project No. 18-1413-03. We are noticing on the engineer's sign-off on the Specifications (page 4 of the document "18-1413-02 Bravo Hot Spot Front Ends") has a different project number: MSCAA No. 18-1413-02.
	18-1413-03 is the correct project number. The corrected project number will be reflected on plans with the Issued for Construction plans.
17.	Please confirm if the entire project duration is 120 calendar days or is it PH1 - 120, PH2 - 90, PH3 - 60 = 270 calendar days.
	Project Duration is 270 calendar days. Specification section 01100 Summary of work has been updated and provided in Addendum 1.
18.	Can PH 1 and PH 2 be concurrent?
	No, that would close too many taxiways at once and limit aircraft maneuverability
19.	Spec Section P-152-2.5, please confirm this section needs to be omitted due to the use of the lime pay items.
	Lime stabilization will take the place of Subgrade Preparation
20.	If Spec Section P-152-2.5 does not need to be omitted, please add a pay item for Subgrade Preparation.
	Lime stabilization will take the place of Subgrade Preparation
21.	Spec Section P-152, the Basis of Payment does not match the bid form. Please update Spec Section/Bid Form accordingly.
	Revised spec section P-152 will be issued with Addendum 1
22.	Is there an available sign schedule as referenced in the specifications?
	Sheet E-DT-09 Signage Schedule will be issued with Addendum 1
23.	Is an alternative fixture or non-certified L-852F acceptable? Per the March Addendum to AC 150/5345-53D, there are no certified L-852F fixtures.
	Hopefully a L-852F fixture will be on the FAA's acceptable use list soon.
24.	Can you confirm if the bid schedule or the Airfield Light Fixture schedule on sheet E-LT-00 is correct when referencing the fixture type? Pay Items L-125-5.1 through L-125-5.6

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	See Fixture types on Sheet E-DT-08 Lighting Coordinate Table
25.	P-220, please provide a separate pay item for cement.
	Basis of payment includes all necessary items including cement.
26.	There is a discrepancy in the drawings regarding P-307. On Sheet G-SQ-04 "SUMMARY OF QUANTITIES", the P-307-8.1 description is "CEMENT-TREATED AGGREGATE BASE COURSE (8" THICK)". Please confirm the description should be "CEMENT-TREATED PERMEABLE BASE COURSE (6" THICK)". There is also a discrepancy in thickness of P-307 in the plans. Plan sheet C-TS-02 calls for 6" thick P-307, while plan sheet C-UD-03 calls for 4" thick. Please confirm thickness of P-307.
	The description for P-307-8.1 should read: "CEMENT-TREATED PERMEABLE BASE COURSE (6" THICK)". All lifts of P-307 should be 6" thick.
27.	The P-155 Lime-Treated Subgrade Spec references "Commercial Lime Slurry", please confirm that Quick Lime Powder would be acceptable in lieu of Slurry as long as it conforms to ASTM C977.
	Quick Lime will be acceptable provided it conforms to ASTM C977.
28.	The P-155 Lime- Treated Subgrade Spec seems to be vague on exactly which areas are to be limed. Please consider adding lime to the Typical Sections Sheets (C-TS-02 and C-TS-03) or more clearly defining which areas are to be lime treated.
	Lime Treated Subgrade will be used under the Concrete Taxiways and Asphalt shoulders.
29.	Per bid item 66 – L-125-5.07 – the description calls out "INSTALL NEW L-858 LED GUIDANCE SIGN ON NEW PRE-FAB CONCRETE BASE, COMPLETE WITH BASE CAN AND GROUND ROD. The details on sheet E-DT-06 for the sign foundations do not show a pre-fab foundation. The details show a cast in place foundation. Should this be bid per the details on sheet E-DT-06?
	All Guidance Signs are existing and are to be reconfigured in new arrangement/location and re-installed on the Pre-Fab, Modular Sign Foundations with new Sign Panels as necessary as shown on E-DT-09.
30.	Bid item 59 – the quantity for bidding purposes is 6. PB-10, 11, 12 and 13 were just replaced on the Taxiway Alpha West Project. PB-14 and 15 were not replaced on that project. I believe MSCAA has purchased PB-14 for use on this project. That would change the PB quantity to 1 new PB purchased and installed and one PB that just needs to be moved and installed. Is that correct?
	Change the bid quantity to 1 in lieu of 6 for Bid Item 59.
31.	Bid item P-101-5.04 – Demolition of electrical handhole – the bid quantity is 1. Are PB-14 and 15 to be removed and replaced? Should the quantity be 2?
	Remove and replace PB-14 with the PB purchased by MSCAA and remove and replace PB-15 with new PB furnished by the contractor. Quantity of 2

32.	Circuits TNC3A, TN3B, and TNE3 were replaced in the PB's between November and Bravo in the Taxiway A West project. Should they be replaced through PB's 14 and 15 on this project?
	Yes, please replace circuits TNC3A, TN3B and TNE3 routed through PB-14 and PB-15.
33.	Could you please provide circuit pictorials for all of the circuits involved on this project?
	The circuitry is indicated on the lighting plans sheets E-LT-01 and E-LT-02.
34.	Can you please provide a cross section of the shallow trench for conduit and a detail of the cans to be installed in existing pavement? I count 59 cans in existing rigid pavement. I don't see a pay item for those cans. Please provide what backfill is required for the trench and the type of conduit required.
	See pay items L-125-5.03, L-125-5.04 & L-125-5.05 in the bid form for shallow box fixtures and provide a 5" deep x 5" wide concrete sawcut for the shallow trench to feed the shallow box fixtures. Trench to be backfilled with 4" P-601 concrete to encapsulate the conduit and brought up to within 1 inch of existing adjacent surface. The last 1" of trench shall be filled with Delpatch elastomeric concrete installed per manufacturer's instructions and recommendations.
35.	L-868B cans in rigid pavement – I don't see a bid item for 30" deep cans in new rigid pavement. Can you please provide a bid item and quantity? I count 73 less the 11 blockouts for a total of 62 each.
	The contractor is to discern the pavement differences and provide the lighting shown on the lighting plan.
36.	L-868B cans in flexible pavement – I don't see bid items the 24" deep cans in flexible pavement, edge lights cans in existing concrete pavement or cans in existing flexible pavement. I count 51 or 52 cans in new flexible pavement, 9 cans in existing rigid pavement, and 1 can in existing flexible pavement. Can you please provide bid items and quantities for these?
	The contractor is to discern the pavement differences and provide the lighting shown on the lighting plan.
37.	Can you please provide a bid item and quantity for 1W2" conduit in new flexible pavement?
	A Bid Item and associated quantity for the 1W-2" Conduit will be added to the Bid Form.
38.	Can you please provide a bid item and quantity for 6W4" conduit to tie into the PB's or just state that the conduit should be included in the PB price? The conduits will need to be removed and tied back into the PB's that are to be removed/replaced.
	All conduit associated with the pull boxes (PB) is to be included in the pull box (PB) price.
39.	Signs A-116A and B are not shown on the plans. Should we plan to remove those and the foundations for them?
	Yes

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40.	I see several sheet notes with hexagons around them, but the notes don't appear to be on the plans. Please provide those if needed.
	The key note references are from the Taxiway Alpha West Reconstruction project and do not apply.
41.	Could you please provide an airfield guidance sign schedule?
	Refer to Guidance Sign Schedule, Sheet E-DT-09
42.	A bid item for grounding jumpers at each can to connect the ground rod to the rebar and can is usually provided. Please provide a bid item for that or just state to include it in item L-108-5.2.
	Grounding jumpers to base cans are to be included with bid item L-108-5.2.
43.	I see 2 Pull boxes that are called out on sheet E-LT-01 to have extension rings installed to raise the elevations. Can you please provide a bid item for those if they are required?
	A Bid Item will be added for 2 Extension Rings to the Bid Form
44.	Could you add a bid item for ALCMS mods if required for the guard light changes?
	A Bid Item will be added for ALCMS programming of the new Runway Guard Lights on the Bid Form.
45.	Please consider using fabric in lieu of the choke stone bond breaker as a cost savings to the owner.
	Fabric will be allowed as a substitute for the choke stone bond-breaker
46.	Can the Storage and Staging Area shown on the Project Layout Plan and General Notes drawings be utilized for an onsite concrete batch plant operation?
	A Batch Plant operation in this area is possible. This area was previously studied by the FAA and there is an existing 7460-1 allowing a batch plant in this area.
47.	What is the size (acreage) for the Storage and Staging Area exhibited on the Project Layout Plan and General Notes drawings?
	Approximately 3 acres
48.	Will there be an Attendees List provided from the 6/17/25 Pre-Bid meeting?
	Attendees List has been posted

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49.	Would it be possible to get just a sign schedule showing the sign legends with associated sign number and associated bid item number? The only information I can find is on Planset sheets E-LT-01 and E-LT-02 and those sheets don't show all the signs; show some placeholders for signs but no associated signs; and some lack notes as to if the sign is new or existing to be replaced.
	See E-DT-09 showing the Signage Schedule
50.	The Schedule notes on drawing E-DT-09 do not seem to correspond to anything on any of the drawings, please advise.
	Drawing identified as E-DT-09 in the current Bid Set is mislabeled and is actually E-DT-08. This sheet will be reissued in Addendum.
51.	It appears we do not have all of the electrical drawings. Are more drawings coming soon?
	E-DT-09 will be issued
52.	The electrical drawings E-LT-01 & E-LT-02 have note numbers but no notes are shown, please advise.
	The key note references are from the taxiway alpha project and do not apply.
53.	Please remove or update the liquidated damages table included in Section 80 Execution and Progress, 80-08 Failure to complete on time.
	Liquidated damages table of Section 80 Execution and Progress, 80-08 Failure to complete on time has been updated and provided in Addendum 2.
54.	Section 70-21 Insurance Requirements states See Article 19 of Section 00500 Construction Contract. However, 00500 Construction Contract is not included in the solicitation documents. please provide the project insurance requirements and a copy of the 1Construction Contract.
	Section 00500 Construction Contract has been provided in Addendum 1.
55.	20-07 Preparation of proposal states the price should be written in both words and numerals for each pay item; however, the bid form only provides space for price in word form for Base Bid Total. Please confirm only stating price in word form for base bid total will be acceptable.
	Section 00405 Proposal have been reformatted to provide a space for word and numeral base bid total.
56.	It was stated at the pre-bid meeting that there may be an SBE participation goal added for the project. Please advise whether an SBE participation goal will be included.
	Specifications section 00445 Disadvantage Business Enterprise (DBE) Requirements has been replaced with Section 00445 Small Business Participation Program (SBPPP) Requirements with a 26% participation goal and no alternate.

57.	Sheet C-JT-02 shows an A-1 Joint between the West section of new pavement and the existing pavement. However, the existing pavement does not have a thickened edge as shown in the detail on sheet C-JT-03 for an A1 joint. Propose a doweled construction joint in lieu of the A1 Joint shown.
	A doweled construction joint is more appropriate in this location. See updated C-JT-02
58.	Sheet C-JT-02 shows an A-1 Joint between the East section of new pavement and the existing pavement. However, the existing pavement does not have a thickened edge as shown in the detail on sheet C-JT-03 for an A1 joint. Propose a doweled construction joint in lieu of the A1 Joint shown
	A doweled joint won't be possible in this location due to the mismatch joint pattern on existing concrete pavement to the East that we would tie to. A type A-1 Reinforced Isolation Joint will need to be installed in this location. This joint will require 5 #6 bars @ 6" spacing top and bottom (3" clear from tip, bottom, and slab edge) to resist the bending moment.
	<p>Questions are listed as submitted; company names are withheld.</p> <p>This Addendum No. 2 Includes Questions received through July 8 2025.</p> <p>Questions received after July 8, 2028, at 5:00 p.m., Memphis Local Time, may not be responded to.</p>