

**NOTICE OF INVITATION OF BID – DESIGN BID BUILD PROJECT
REHABILITATE TAXIWAY 'D', SHOULDERS AND CONNECTORS
Tucson Airport Authority (TAA) Project No. 10113362
FAA AIP No. 3-04-0045-077-2018**

**ADDENDUM No. 2
July 11, 2018**

TO ALL PROSPECTIVE OFFERORS RESPONDING TO INVITATION FOR BID FOR CONSTRUCTION OF THE **REHABILITATE TAXIWAY 'D', SHOULDERS AND CONNECTORS** project at TUCSON INTERNATIONAL AIRPORT, as outlined in the aforementioned Invitation of Bids published in the Daily Territorial on June 18 and June 25, 2018; and available via the internet at <https://www.flytucson.com/taa/business/bids-rfps/>.

I. Specifications and Contract Documents

1. The attached Bid Schedules (revised 07.05.18), pages BS-1 through BS-8, **SUPERSEDE** pages BS-1 through BS-7 in the Specifications and Contract Documents, and must be completed and affixed in place and submitted with the Bid. Items that have been modified or added have been bolded within the Bid Schedules for the bidder's convenience.

II. Contractors Questions and Responses

1. **Question:** Can the pave take place in a single lift?

Response: AC paving shall comply with Technical Specifications P-401 and P-403. It is anticipated that the AC overlay portion of the work will be a single lift.

2. **Question:** Can traffic be opened on a milled surface?

Response: Aircraft cannot traverse on any milled surfaces. Reference is made to the General Notes and Phasing Notes of the Construction Phasing Plans and the Construction Safety and Phasing Plan (CSPP).

3. **Question:** Are there any hour restrictions for non-nighttime activities?

Response: No; however Contractor must inform TAA and the Engineer of any unusual hours or any hours in excess of 40 hours per week (48 hours minimum notice) so that adequate Operations, Escort and Inspection staff can be scheduled.

4. **Question:** Is there an anticipated NTP date?

Response: It is anticipated this project will begin in October 2018.

5. **Question:** Will extra days be granted if work cannot take place due to cold temperatures?

Response: In accordance with Section 80-07b of the Grant Supplement to the Construction Services Agreement, requests for extension of time on a calendar day project caused by inclement weather shall demonstrate the inclement weather exceeded what could normally be expected during the contract period.

6. **Question:** Can you clarify that the owner provided lid is not really owner provided – that only the frame and cover is owner provided?

Response: This work is shown clearly in the details on Sheet EL1.04.

7. **Question:** Can you clarify that the owner provided lid is not really owner provided – that only the frame and cover is owner provided?

Response: This work is shown clearly in the details on Sheet EL1.04. The detail identifies that the ductile iron cover is provided by TAA. Nothing else is provided by TAA.

8. **Question:** In reference to the retrofit lid detail, is it the intent that the collar taper from 1" to zero as shown in the detail, or does it need to be keyed into the adjacent asphalt?

Response: The intent is to taper.

9. **Question:** In reference to the retrofit lid detail, if the collar needs reinforcing steel as indicated in the note, please show what size and how many bars are needed.

Response: Steel reinforcing is not needed unless the junction box is in full strength concrete. The existing box should be structurally sound and the surrounding area compacted to provide a firm foundation.

10. **Question:** Do the electrical components and striping need to come back up after every shift in nighttime phases – taxiway edge lights, airfield guidance signs, RGL's, etc.?

Response: Reference is made to the response provided in Addendum No. 1, Pre-Bid Conference Summary, Question and Answer No. 9.

11. **Question:** In Spec P-304-5.6 CTB it states material is to be placed with a spreader capable of full width placement or multiple spreaders are to be used. What is the full width of the base.

Response: Reference is made to the response provided in Addendum No. 1, Pre-Bid Conference Summary, Question and Answer No. 14.

12. **Question:** Will a grader be considered satisfactory for placement of the CTB? Spec 304-4.5 says that the CTB may be finished with a grader.

Response: Technical Specification P-304-4.5 states in part that the final trimming of the CTB shall be accomplished using a self-propelled grader or trimming machine and is automatically controlled by sensors from a taut string line.

13. **Question:** DWG EA1.02 the new PAPI conductors follow the existing conduit to corner of D2 and D at which point it appears that a new conduit is run to a new handhole. These features are not identified on the plan sheet, please clarify.

Response: Reference is made to DWG EA1.07 for the requested information.

14. **Question:** How are Surface Painted Holding Position Signs measured and paid?

Response: Surface Painted Holding Position Signs (Markings) are measured and paid for per Each (EA) sign installed and accepted. Reference is made to Technical Specification P-620, Section 5.1, Item P-620-5.5. See attached for updated Bid Schedules including these items.

15. **Question:** Are temporary markings considered incidental? The phasing plans identify several areas of temporary markings, but the specifications say no separate measurement or payment will be made for temporary pavement markings.

Response: Yes, temporary markings are considered incidental.

16. **Question:** The specifications state that a minimum of 7 days shall elapse between placement of bituminous material and application of paint. Does this 7 days need to be factored into the duration of the phase, i.e. Phase 6 paving needs to actually be completed in 7 days to allow striping to be completed by the 14 day phase duration? (Note that Phase 6 also has CTB which will have a cure time as well.)

Response: Clarification is made that a minimum of 7 days shall elapse between placement of bituminous material and the final application of paint (although a 24-30 day waiting period is recommended per Technical Specification P-620). Section P-620-3.6 allows for temporary markings at a rate of 33% (though bidder is reminded it is included in the unit price payment per the Method of Measurement and Basis of Payment sections). Based on the phasing requirements for this project, and the need to move aircraft through the areas of work from the night previous, temporary markings are allowed and required the same night just after paving operations.

17. **Question:** Please confirm that Type III glass beads are desired on the SPHPS. In the past Type IV beads were used on SPHPS.

Response: Type IV beads will be required on the Surface Holding Position Markings.

18. **Question:** Will the contractor flaggers be required to be in contact with the tower, and if so who supplies the radio and what training will they need?

Response: Contractor flaggers shall not have any contact with the Air Traffic Control Tower.

19. **Question:** In reference to bid item SP 80.01.1 Remove Culvert End Structure as shown on sheet CD1.07, can you please provide further explanation of what the structure to be removed is? Is it a CMP End Section, a concrete headwall, a concrete catch basin, etc.?

Response: The item associated with SP 80.01.4 Remove Culvert End Structure is a flared CMP end section.

20. **Question:** Per Spec P-304, there is no strength-testing requirement for CTB during production, only during design. The mix design strength is measured at 7 days and 28 days. In spec 304-6.1.2 also states that thickness cores will be taken after 3 days of Cure. How do we determine what the cure time will be, as this will drastically effect the opening of each phase?

Response: The Contractor is responsible for determining the adequate cure time well in advance of construction, especially related to critical construction phases that include nighttime work, and to prevent construction traffic from damaging the CTB.

21. **Question:** Spec 304-6.1.2 does not call out who is responsible for taking cores for thickness. There is also a modification of the standard to take 2 cores per subplot instead of 1 core per subplot. Who will be responsible for taking the cores? What is the reason for the additional core?

Response: Technical Specification Section P-304-6.1 specifies that the Contractor shall provide the required CTB samples. Section P-304-6.11 states that two samples are averaged to determine the subplot core thickness.

22. **Question:** Bid Item D-752-5.4 "Concrete Headwall" has a quantity of 10 EA. Only 1 can be found on the plans. Should this bid item read 1 EA?

Response: Yes. See attached for updated Bid Schedules correcting the quantity of this item.

23. **Question:** On sheet 43 of 134, the note 7 calls out for 184 lf of 35"x24" Smoothed Lined CMP Arch Pipe. Our suppliers are telling us that there is no such thing as a smooth lined CMP. There is what is called a spiral-ribbed pipe, which is smooth inside. If you have a supplier who can supply the Smooth lined CMP please let us know and if not which pipe should we supply?

Response: Smooth Lined CMP is also known as Spiral-Ribbed CMP. They are the same pipe.

24. **Question:** On sheet 105 the Remove shoulder AC calls out Note 17 on the east shoulder, which is 6.5" depth but has no start and stop stations. Sheet 104 & 106 both call out Note 3 which is Remove Shoulder AC 2"-2.5" Depth. If note 17 on sheet 105 is correct we need to know the limits of the 6.5" removal.

Response: Correction has been made to Sheet 105 denoting Removal Note 3 instead of 17. See attached for corrected Plan Sheet 105 and updated Bid Schedules correcting the quantity of this item, and deleting the reference to Removal Note 17.

25. **Question:** Note 59 on sheet 38 and 40 indicate 4 pipe collars on 24" RCP. There is no bid item for these pipe collars. The only pipe collar bid item says it is specifically for "72" Pipe Collar". Please advise as to whether the pipe collars are incidental to the pipe work, to be paid under the existing pipe collar item, or if a new item will be created to pay for them.

Response: Per Construction Note 59, the pipe collars are Non-Pay Items ("NPI" as noted in the plans), and shall be considered incidental to Construction Note 6 – 24" Class V RGRCP.

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Project Manager I

Attachments:
Revised Bid Schedule pages BS-1 through BS-7
Revised Drawing CD2.02 (Sheet 105 of 134)



BID SCHEDULE I - BASE BID

LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	UNIT	UNIT PRICE	EXTENDED AMOUNT
CIVIL						
1	GP-105-2.1	Mobilization (Base Bid Sch. I)	1	LS		
2	GP-100-13.1	Contractor Quality Control (Base Bid Sch. I)	1	LS		
3	SP-50.01.1	Location of Underground Utilities (Base Bid Sch. I)	1	LS		
4	SP-60.05.1	Airfield Safety and Security (Base Bid Sch. I)	1	LS		
5	SP 80.01.5	Remove Culvert Wingwall	4	EA		
6	SP 80.01.6	Remove Concrete Spillway	286	SY		
7	SP 80.01.7	Remove 12-Inch CMP	72	LF		
8	SP 80.01.9	Remove 24-Inch CMP	18	LF		
9	SP 90.01.1	Grouted Riprap with 6" Filter Layer & Weep Holes (Dmin = 12", 24-Inch Depth)	1,698	SY		
10	SP 90.02.1	Dumped Riprap with Erosion Control Geosynthetic (D50 = 12", 24-Inch Depth)	32	SY		
11	P-101-5.1	Mill Existing Structural AC Pavement (3.5-inch Depth)	36,813	SY		
12	P-101-5.2	Remove Existing AC Pavement (Full-Depth – 3-inches +/-)	18,918	SY		
13	P-101-5.3	Remove Existing AC Pavement (Full-Depth – 2-inches +/-)	36,271	SY		
14	P-101-5.4	Remove Existing AC Pavement (Full-Depth – 7-inches +/-)	3,265	SY		
15	P-101-5.5	Sawcut Existing AC Pavement	12,700	LF		
16	P-101-5.6	Obliterate Pavement Markings	13,265	SF		
17	P-152-4.1	Unclassified Excavation	1	LS		
18	P-152-4.2	Drainage Excavation	1	LS		
19	P-152-4.3	Unsuitable Excavation	3,806	CY		
20	P-156-6.1	Storm Water Pollution Prevention Plan (SWPPP) (Base Bid Sch. I)	1	LS		
21	P-209-5.1	Crushed Aggregate Base Course (5-inch Thickness)	23,193	SY		
22	P-209-5.2	Crushed Aggregate Base Course (6-inch Thickness)	4,833	SY		
23	P-304-8.1	Cement-Treated Base Course (8-Inch Thickness)	10,035	SY		
24	P-401-8.1	Asphaltic Concrete Pavement (FAA P-401 3/4" Mix)	9,505	TON		
25	P-403-8.1	Asphaltic Concrete Pavement (FAA P-403 3/4" Mix)	5,004	TON		
26	P-403-8.2	Asphaltic Concrete Pavement (FAA P-403 1/2" Mix)	1,719	TON		
27	P-620-5.1	Pavement Markings (Yellow)	24,194	SF		
28	P-620-5.2	Pavement Markings (White)	3,000	SF		
29	P-620-5.3	Pavement Markings (Green)	79,834	SF		
30	P-620-5.4	Taxiway Shoulder Markings (Yellow)	56	EA		
31	P-620-5.5	Surface Painted Holding Position Markings	16	EA		
32	D-701-5.1	12-Inch RGRCP Class V Storm Drain Pipe	220	LF		
33	D-701-5.2	24-Inch RGRCP Class V Storm Drain Pipe	45	LF		
34	D-701-5.6	Concrete Collar (COT Std. Det. WWM 212)	5	SY		
35	D-751-5.1	Catch Basin w/Aircraft-Rated Frame & Grate Neenah Foundry R-3475-A OAE (PC/COT Std. Det. 309 Mod)	2	EA		
36	D-751-5.2	Precast 12" Concrete End Section	2	EA		

BID SCHEDULE I - BASE BID

LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	UNIT	UNIT PRICE	EXTENDED AMOUNT
37	D-751-5.3	Concrete Apron (ADOT Std. Det. C-15.80, Dimensions Modified per Plan)	2	EA		
38	D-752-5.1	9-Barrel 10' x 6' Reinforced Concrete Box Culvert	88	LF		
39	D-752-5.2	Inlet Wingwalls (ADOT Std. Det. 6.08 (3 of 8), Dimensions Per 4:1 Sideslope (MOD))	1	EA		
40	D-752-5.3	Outlet Wingwalls (ADOT Std. Det. 6.08 (1 of 8), Dimensions Per 4:1 Sideslope (MOD))	1	EA		
41	D-752-5.5	Concrete Anchor Slab	2	EA		
42	F-162-5.1	AOA Security Fence (6-Foot 3-Strand Barbed Wire)	805	LF		
43	F-162-5.2	AOA Security Fence Double Swing Gate	1	EA		
44	T-901-5.1	Seeding	19,982	SY		
CIVIL SUBTOTAL						
ELECTRICAL						
45	L-100-5.1	Remove and Salvage Taxiway Edge Light and Isolation Transformer for Re-installation. Install Temporary Plywood Cover on Existing Base Can	52	EA		
46	L-100-5.2	Remove and Salvage Existing Taxiway/Runway Edge Light and Transformer. Demolish Fixture Base	76	EA		
47	L-100-5.3	Excavate and Remove Existing Conduit and Conductor.	4,083	LF		
48	L-100-5.4	Remove Existing Conductor. Conduit to Remain. (3964 lf)	1	LS		
49	L-100-5.5	Remove and Salvage Airfield Guidance Sign and Isolation Transformer. Remove Sign Base	19	EA		
50	L-100-5.6	Remove and Salvage Elevated Runway Guard Light and Transformer. Demolish Base Can	4	EA		
51	L-100-5.7	Remove and Dispose of Hand Hole Lid	2	EA		
52	L-100-5.8	Excavate, Remove, and Dispose of Existing Handhole	12	EA		
53	L-100-5.9	Temporary Airfield Lighting Cable Jumpers	1	LS		
54	L-108-5.1	L-824, Type C, 1/C #8 AWG, 5kV Cable	6,100	LF		
55	L-108-5.2	L-824, Type C, 2/C #8 AWG, 5kV Cable	4,460	LF		
56	L-110-5.1	Single-way (1) - 2" Conduit, Slurry Encased	5,292	LF		
57	L-110-5.2	Multiple-way (2) - 2" Conduit, Concrete Encased	840	LF		
58	L-110-5.3	Single-way, (1) - 2" Conduit, Slurry Encased - Retro-fit In Existing Asphalt	595	LF		
59	L-110-5.4	Multiple-way (2) - 2" Directional Bore Concrete Encased w/ Counterpoise	600	LF		
60	L-110-5.5	Multiple-way (4) - 4" Directional Bore Concrete Encased w/ Counterpoise	260	LF		
61	L-115-5.1	Replace Hand Hole Lid and Top Section (2' x 3') with Owner Provided Lid. Adjust to New Grade.	3	EA		
62	L-115-5.2	New Handhole, Type I, Air Craft Rated (2'x3'x3') Furnished and Installed with Aircraft Rated Lid	7	EA		
63	L-804(L)-4.1	New LED L-804(L) Elevated Runway Guard Light and Transformer on New L-867 Base Can	8	EA		
64	L-852G(L)-5.1	New Flush L-852G(L) Style 3 LED Runway Guidance Light and Transformer on New L-868 Base Can Retrofit in Existing	15	EA		
65	L-852G(L)-5.2	New Flush L-852G(L) Style 3 LED Runway Guidance Light and Transformer - Spares	2	EA		

BID SCHEDULE I - BASE BID

LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	UNIT	UNIT PRICE	EXTENDED AMOUNT
66	L-858-5.1	Re-Install Salvaged L-858 Size 3, 2-Module Airfield Guidance Sign with New LED Power Upgrade Kit on New Concrete Base	8	EA		
67	L-858-5.2	Re-Install Salvaged L-858 Size 3, 3-Module Airfield Guidance Sign with New LED Power Upgrade Kit on New Concrete Base	9	EA		
68	L-858-5.3	Re-Install Salvaged L-858 Size 3, 3 Module Airfield Guidance Sign with New LED Power Upgrade Kit and New Panels on New Concrete Base	1	EA		
69	L-858-5.4	Re-Install Salvaged L-858 Size 3, 3-Module Airfield Guidance Sign on New Concrete Base	1	EA		
70	L-858-5.5	New Size 3 L-858(L) LED 3-Module Guidance Sign and Isolation Transformer, on New Concrete Base	1	EA		
71	L-861T-4.1	Re-install Salvaged L-861T(L) Taxiway Edge Light and Isolation Transformer on Existing Base Can with New Gasket.	51	EA		
72	L-861T-4.2	Re-install Salvaged L-861T(L) Taxiway Edge Light and Isolation Transformer on New L-867 Base Can	82	EA		
73	L-861T-4.3	New Elevated L-861T(L) LED Taxiway Edge Light and Isolation Transformer on New L-867 Shallow Base Can	6	EA		
74	L-861T-4.4	Elevated L-861T(L) LED Taxiway Edge Light (with Stem and Frangible Coupling) and Isolation Transformer - Spares	3	EA		
75	L-867/868-5.1	L-867 Spacer Rings / Base Can Extension Package (14 - 2", 26 - 1", 17 - 1/2", 16 - 1/4")	1	EA		
76	L-867/868-5.2	Install Enhanced Drains in Base Cans	8	EA		
ELECTRICAL SUBTOTAL						
SCHEDULE I - BASE BID TOTAL						

BID SCHEDULE II - BASE BID

LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	UNIT	UNIT PRICE	EXTENDED AMOUNT
CIVIL						
1	GP-105-2.2	Mobilization (Base Bid Sch. II)	1	LS		
2	GP-100-13.2	Contractor Quality Control (Base Bid Sch. II)	1	LS		
3	SP-50.01.2	Location of Underground Utilities (Base Bid Sch. II)	1	LS		
4	SP-60.05.2	Airfield Safety and Security (Base Bid Sch. II)	1	LS		
5	SP 80.01.1	Remove 72-Inch x 44-Inch CMPA	20	LF		
6	SP 80.01.2	Remove 36-Inch x 22-Inch CMPA	802	LF		
7	SP 80.01.3	Remove Catch Basin	2	EA		
8	SP 80.01.4	Remove Culvert End Structure	2	EA		
9	SP 80.01.8	Remove 36-Inch CMP	7	LF		
10	SP 90.02.2	Dumped Riprap with Erosion Control Geosynthetic (D50 = 6", 12-Inch Depth)	19	SY		
11	P-101-5.2	Remove Existing AC Pavement (Full-Depth – 3-inches +/-)	4,898	SY		
12	P-101-5.3	Remove Existing AC Pavement (Full-Depth – 2-inches +/-)	4,393	SY		
13	P-101-5.4	Remove Existing AC Pavement (Full-Depth – 7-inches +/-)	5,681	SY		
14	P-101-5.5	Sawcut Existing AC Pavement	1,198	LF		
15	P-101-5.6	Obliterate Pavement Markings	1,544	SF		
16	P-152-4.1	Unclassified Excavation	1	LS		
17	P-152-4.2	Drainage Excavation	1	LS		
18	P-152-4.3	Unsuitable Excavation	1,133	CY		
19	P-156.6.2	Storm Water Pollution Prevention Plan (SWPPP) (Base Bid Sch. II)	1	LS		
20	P-209-5.1	Crushed Aggregate Base Course (5-inch Thickness)	4,661	SY		
21	P-304-8.1	Cement-Treated Base Course (8-Inch Thickness)	6,673	SY		
22	P-401-8.1	Asphaltic Concrete Pavement (FAA P-401 3/4" Mix)	1,501	TON		
23	P-403-8.1	Asphaltic Concrete Pavement (FAA P-403 3/4" Mix)	787	TON		
24	P-620-5.1	Pavement Markings (Yellow)	2,907	SF		
25	P-620-5.2	Pavement Markings (White)	1,149	SF		
26	P-620-5.5	Surface Painted Holding Position Markings	2	EA		
27	D-701-5.3	35-Inch x 24-Inch CMP Arch Storm Drain Pipe	184	LF		
28	D-701-5.4	71-Inch x 47-Inch CMP Arch x (3) 35-Inch x 24-Inch CMP Arch Prefabricated TEE	1	EA		
29	D-701-5.5	72" Concrete Pipe Collar (ADOT Std. Det. C-13.80)	4	EA		
30	D-701-5.7	71-Inch x 47-Inch CMP Arch Storm Drain Pipe	16	LF		
31	D-752-5.4	Concrete Headwall (ADOT STD DET 6.30 MOD)	1	EA		
32	T-901-5.1	Seeding	14,112	SY		
CIVIL SUBTOTAL						

BID SCHEDULE II - BASE BID

LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	UNIT	UNIT PRICE	EXTENDED AMOUNT
ELECTRICAL						
33	L-100-5.10	Remove and Salvage Taxiway Edge Light and Isolation Transformer for Re-installation. Install Temporary Plywood Cover on Existing Base Can	1	EA		
34	L-100-5.11	Remove and Salvage Existing Taxiway/Runway Edge Light and Transformer. Demolish Fixture Base	28	EA		
35	L-100-5.12	Excavate and Remove Existing Conduit and Conductor.	1,635	LF		
36	L-100-5.13	Remove Existing Conductor. Conduit to Remain. (860 lf)	1	LS		
37	L-100-5.14	Remove and Salvage Airfield Guidance Sign and Isolation Transformer. Remove Sign Base	4	EA		
38	L-100-5.15	Remove Existing Junction Can.	1	EA		
39	L-100-5.16	Temporary Airfield Lighting Cable Jumpers	1	LS		
40	L-108-5.3	L-824, Type C, 1/C #8 AWG, 5kV Cable	2,700	LF		
41	L-108-5.4	L-824, Type C, 2/C #8 AWG, 5kV Cable	500	LF		
42	L-110-5.6	Single-way (1) - 2" Conduit, Slurry Encased	2,500	LF		
43	L-110-5.7	Multiple-way (2) - 2" Conduit, Concrete Encased	185	LF		
44	L-115-5.3	New Handhole, Type I, Air Craft Rated (2'x3'x3') Furnished and	2	EA		
45	L-858-5.6	Re-Install Salvaged L-858 Size 3, 2-Module Airfield Guidance Sign with New LED Power Upgrade Kit on New Concrete Base	2	EA		
46	L-858-5.7	Re-Install Salvaged L-858 Size 3, 3 Module Airfield Guidance Sign with New LED Power Upgrade Kit on New Concrete Base	2	EA		
47	L-858-5.8	Re-Install Salvaged L-858 Size 3, 2 Module Airfield Guidance Sign with New LED Power Upgrade Kit and New Panels on New Concrete Base	1	EA		
48	L-858-5.9	Re-Install Salvaged L-858 Size 3, 3 Module Airfield Guidance Sign with New LED Power Upgrade Kit and New Panels on New Concrete Base	1	EA		
49	L-861T-4.5	Re-install Salvaged L-861T(L) Taxiway Edge Light and Isolation Transformer on Existing Base Can with New Gasket.	1	EA		
50	L-861T-4.6	New Elevated L-861T(L) LED Taxiway Edge Light and Isolation Transformer on New L-867 Base Can	42	EA		
51	L-861T-4.7	Elevated L-861T(L) LED Taxiway Edge Light (with Stem and Frangible Coupling) and Isolation Transformer - Spares	4	EA		
52	L-867/868-5.3	L-867 Spacer Rings / Base Can Extension Package (6 - 2", 16 - 1", 16 - 1/2", 13 - 1/4")	1	EA		

BID SCHEDULE II - BASE BID

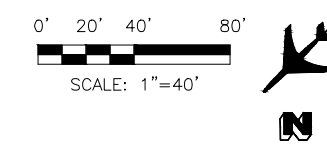
LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	UNIT	UNIT PRICE	EXTENDED AMOUNT
RUNWAY 21 PAPI/REIL RACK RELOCATION						
53	L-100-5.23	Remove and Salvage Rwy 21 PAPI/REIL Power Distribution Rack, Demolish Concrete Pad.	1	LS		
54	L-100-5.24	Reinstall Salvaged Equipment to Relocated Rwy 21 PAPI/REIL Power Distribution Rack with New Surge Protector on New Unistrut and Concrete Pad with Grounding and Lightning Protection Complete	1	LS		
55	L-100-5.25	Remove Existing Conductor. Conduit to Remain. (500 lf)	1	LS		
56	L-100-5.26	Excavate, Remove, and Dispose of Existing FAA Manhole	1	EA		
57	L-108-5.7	2-2/0 XHHW, #4 Gnd	2,025	LF		
58	L-108-5.8	4-2/0 XHHW, 2-#4 Gnd	1,025	LF		
59	L-108-5.9	2-#2 THWN, #6 Gnd	25	LF		
60	L-110-5.9	Multiple-way (2) - 2" Conduit, Slurry Encased (FAA duct bank)	475	LF		
61	L-115-5.4	New FAA Manhole, Type I, Air Craft Rated (5'x5'x3') Furnished and Installed with Aircraft Rated Lid	1	EA		
ELECTRICAL SUBTOTAL						
SCHEDULE II - BASE BID TOTAL						

BID SCHEDULE III - ADD. ALT. BID NO. 1

LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	UNIT	UNIT PRICE	EXTENDED AMOUNT
CIVIL						
1	GP-105-2.3	Mobilization (Add. Alt. Bid No. 1)	1	LS		
2	GP-100-13.3	Contractor Quality Control (Add. Alt. Bid No. 1)	1	LS		
3	SP-50.01.3	Location of Underground Utilities (Add. Alt. Bid No. 1)	1	LS		
4	SP-60.05.3	Airfield Safety and Security (Add. Alt. Bid No. 1)	1	LS		
5	P-101-5.1	Mill Existing Structural AC Pavement (3.5-inch Depth)	22,312	SY		
6	P-101-5.2	Remove Existing AC Pavement (Full-Depth – 3-inches +/-)	13,452	SY		
7	P-101-5.3	Remove Existing AC Pavement (Full-Depth – 2-inches +/-)	13,181	SY		
8	P-101-5.5	Sawcut Existing AC Pavement	5,327	LF		
9	P-101-5.6	Obliterate Pavement Markings	68	SF		
10	P-152-4.1	Unclassified Excavation	1	LS		
11	P-152-4.3	Unsuitable Excavation	1,706	CY		
12	P-156.6.3	Storm Water Pollution Prevention Plan (SWPPP) (Add. Alt. Bid No. 1)	1	LS		
13	P-209-5.1	Crushed Aggregate Base Course (5-inch Thickness)	15,683	SY		
14	P-304-8.1	Cement-Treated Base Course (8-Inch Thickness)	1,376	SY		
15	P-401-8.1	Asphaltic Concrete Pavement (FAA P-401 3/4" Mix)	4,702	TON		
16	P-403-8.1	Asphaltic Concrete Pavement (FAA P-403 3/4" Mix)	2,647	TON		
17	P-620-5.1	Pavement Markings (Yellow)	7,549	SF		
18	P-620-5.2	Pavement Markings (White)	231	SF		
19	P-620-5.5	Surface Painted Holding Position Markings	2	EA		
20	T-901-5.1	Seeding	22,333	SY		
CIVIL SUBTOTAL						
ELECTRICAL						
21	L-100-5.17	Remove and Salvage Taxiway Edge Light and Isolation Transformer for Re-installation. Install Temporary Plywood Cover on Existing Base Can	31	EA		
22	L-100-5.18	Remove and Salvage Existing Taxiway/Runway Edge Light and Transformer. Demolish Fixture Base	20	EA		
23	L-100-5.19	Excavate and Remove Existing Conduit and Conductor.	1,101	LF		
24	L-100-5.20	Remove Existing Conduit, Conduit to Remain (370 lf)	1	LS		
25	L-100-5.21	Remove and Salvage Airfield Guidance Sign and Isolation Transformer. Remove Sign Base	3	EA		
26	L-100-5.22	Temporary Airfield Lighting Cable Jumpers	1	LS		
27	L-108-5.5	L-824, Type C, 1/C #8 AWG, 5kV Cable	1,269	LF		
28	L-108-5.6	L-824, Type C, 2/C #8 AWG, 5kV Cable	170	LF		
29	L-110-5.8	Single-way (1) - 2" Conduit, Slurry Encased	1,150	LF		
30	L-858-5.10	Re-Install Salvaged L-858 Size 3, 2-Module Airfield Guidance Sign with New LED Power Upgrade Kit on New Concrete Base	1	EA		
31	L-858-5.11	Re-Install Salvaged L-858 Size 3, 3-Module Airfield Guidance Sign with New LED Power Upgrade Kit on New Concrete Base	2	EA		

BID SCHEDULE III - ADD. ALT. BID NO. 1

LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	UNIT	UNIT PRICE	EXTENDED AMOUNT
32	L-861T-4.8	Re-install Salvaged L-861T(L) Taxiway Edge Light and Isolation Transformer on Existing Base Can with New Gasket	31	EA		
33	L-861T-4.9	Re-install Salvaged L-861T(L) Taxiway Edge Light and Isolation Transformer on New L-867 Base Can	20	EA		
34	L-861T-4.10	Elevated L-861T(L) LED Taxiway Edge Light (with Stem and Frangible Coupling) and Isolation Transformer - Spares	5	EA		
35	L-867/868-5.4	L-867 Spacer Rings / Base Can Extension Package (2 - 2", 3 - 1", 3 - 1/2", 2 - 1/4")	1	EA		
36	L-867/868-5.5	Install Enhanced Drains in Base Cans	4	EA		
ELECTRICAL SUBTOTAL						
SCHEDULE III - ADD. ALT. BID NO. 1 TOTAL						

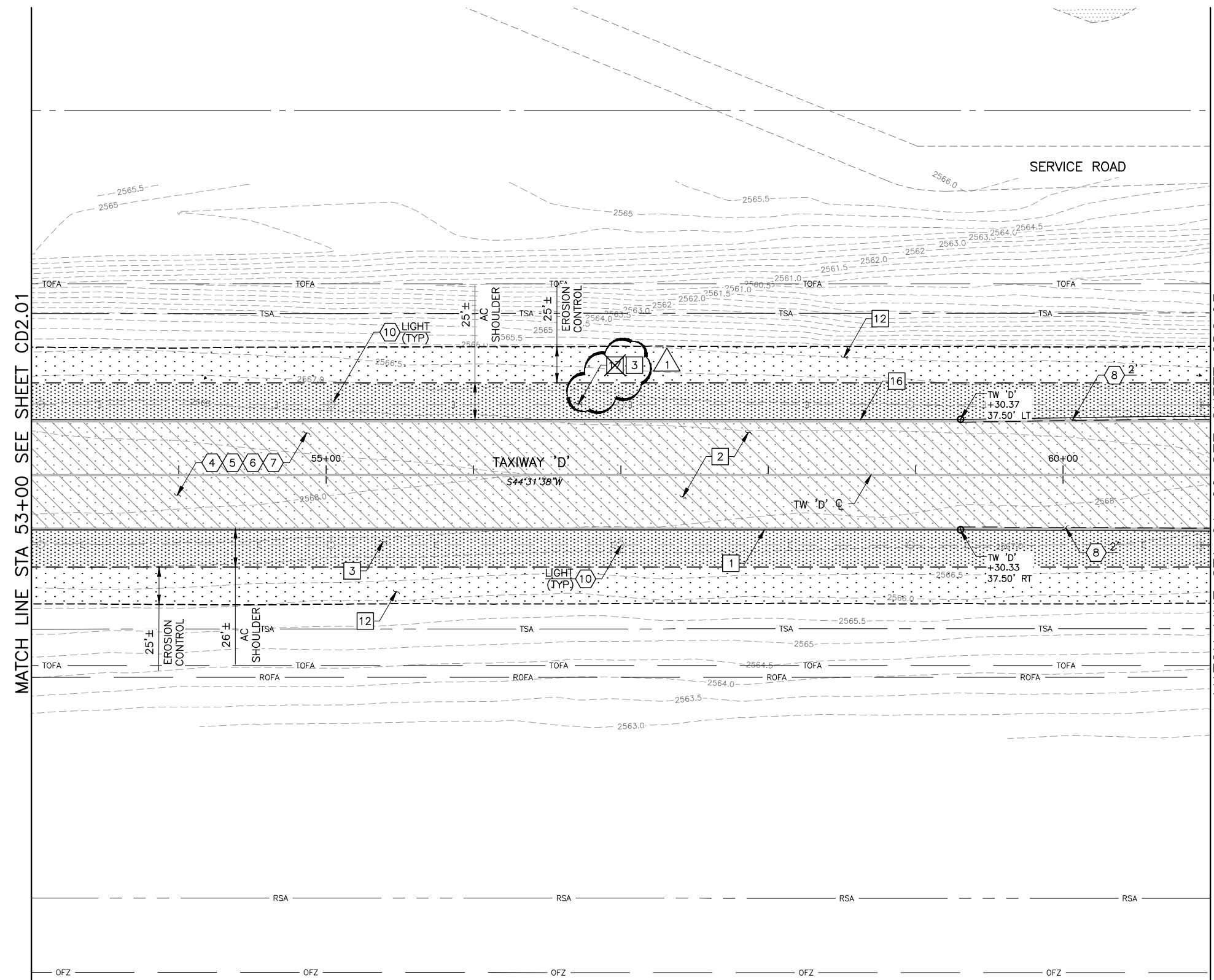


AS BUILT DATE

Dibble Engineering

49015 RYAN WILLIAM TONER
Professional Engineer
No. 21513
Arizona, U.S.A.
Expires 12/31/20

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Phoenix, AZ 85016
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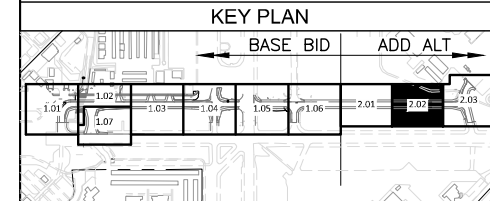
MATCH LINE STA 53+00 SEE SHEET CD2.01

MATCH LINE STA 61+00 SEE SHEET CD2.03

REMOVAL NOTES		
1	SAWCUT AC PAVEMENT (2.5" - 3.5" DEPTH)	800 LF
2	MILL AC PAVEMENT (3.5" DEPTH)	6,694 SY
3	REMOVE SHOULDER AC PAVEMENT (2.5" - 3.5" DEPTH)	2,230 SY 4,417 SY
12	REMOVE EROSION CONTROL AC PAVEMENT (2" - 2.5" DEPTH)	4,394 SY
16	SAWCUT AC PAVEMENT (6.5" DEPTH)	800 LF
1	REMOVE SHOULDER AC PAVEMENT (6.5" DEPTH)	2,187 SY

REFERENCE NOTES	
4	REFER TO SHTS CE2.01-CE2.03 FOR GEOMETRIC CONTROL PLANS
5	REFER TO SHTS CG2.01-CG2.03 FOR GRADING & DRAINAGE PLANS
6	REFER TO SHTS CP2.01-CP2.03 FOR PAVING PLANS
7	REFER TO SHTS CM2.01-CM2.03 FOR PAVEMENT MARKING PLANS
8	REFER TO SHT GG2.02, DET 1 FOR VARIABLE DEPTH MILL & OVERLAY
10	REFER TO SHTS ED2.01-ED2.03 FOR ELECTRICAL DEMOLITION PLANS

LEGEND	
	EXISTING AC
	MILL AC PAVEMENT (3.5" DEPTH)
	REMOVE SHOULDER AC PAVEMENT (2.5" - 3.5" DEPTH)
	REMOVE EROSION CONTROL AC PAVEMENT (2" - 2.5" DEPTH)
	REMOVE TAXIWAY AC PAVEMENT (FULL DEPTH)



1	ADDENDUM #2	JHA	07/05/18
△	REVISION	BY	DATE

TUCSON AIRPORT AUTHORITY

DIBBLE PROJECT NO 1015092

REHABILITATE TAXIWAY 'D', SHOULDERS & CONNECTORS - ADDITIVE ALTERNATE BID NO. 1

DEMOLITION PLAN - SCHEDULE III			
DRN:JML	DES: JHA	CK: RWT	DRAWING SHEET
DATE: 04/11/18	DATE: 04/11/18	DATE: 04/30/18	
SCALE: 1" = 40'			CD2.02 105 of 134



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