



CITY OF SAN ANTONIO  
AVIATION DEPARTMENT  
FIELD ALTERATION/CHANGE ORDER REQUEST

Form PW-15-Aviation  
Rev. 5/2013  
(Submit 3 Originals)

Date Prepared: 8/24/2018

Field Alteration No. 2

Project No. 33-00178

Project Name: Remove Bridge, Remove MSW, and Reconstruct Taxiway R (Parallel) (PKG 5)

The revision or amendment described below is to the work originally or previously specified in the contract documents. This notification is hereby requested, including all changes in costs and time. (Describe work to be added or deleted, including SAP Material number. Attach a revised plan sheet affected or drawings.)

This Field Alteration revises Plan Sheet C-9.1, modifying the excavation limits. The changes to the excavation limits are from Station 409+85 to approximately 410+93. The limits are to be 96' left and 124' right of the Taxiway R centerline as shown on the attached revised plans sheet. The overburden is to be removed and stockpiled on-site, the MSW removed to the limits indicated and disposed of per the contract documents and the area backfilled to grade with the stockpiled overburden or borrow material as needed. A Clay Cap will also be required in this area. The initial work is to remove the MSW from the area of the taxiway and to 50' (top of slope) each side and the safety slopes constructed. The MSW removal outside of this area may occur after it is determined by the Engineer there is sufficient budget to remove and backfill the remaining area. The Engineer may adjust the limits as necessary based on location of the MSW and the Project budget. This Field Alteration also revises the proposed taxiway structure to be installed on the backfill after removal of the MSW. The originally-bid full strength 75'-wide PCC taxiway is removed, and replaced with a 50'-wide asphalt taxiway. Plan Sheets to be revised are still being identified and will be sent to the Contractor once they are available.

This Change Order provides for the removal of bid items, adjustment to the quantity of existing pay items, and new items for payment within the original scope of work, as described below. Unforeseen conditions in the field dictate these changes in order for the Contractor to complete the construction. These changes are needed and directly related to the work identified in the grant description. These alterations are to be performed in accordance with FAA standards. Where applicable, the Contractor has provided a cost proposal that is fair and reasonable.

See Attachment A for Bid Item Breakdown.

Justification for Proposed Alteration (Describe in detail why this work is to be added or deleted. Use attachments if necessary.):

Numerous investigative soil borings were taken to profile the material below and develop a plan for the overall removal of the MSW. An anticipated limit of MSW removal was developed based on this evaluation and plans were developed for this project. These plans also anticipated additional veins of MSW material that may be identified for removal during the excavation phase. At the west end of the project, the team identified such a vein of material. We have performed additional test holes and identified the end limit of this vein under Taxiway R. However, to remove the material discovered in this area will place this project over budget.

The limits of the MSW as indicated on the plans do not indicate removal of MSW under Taxiway R section on the west end of the project.

Based on the cost savings, timing, and the historical airfield pavement failures in this area, it is our recommendation that the MSW be removed to the new identified limits.

In order to maintain the Contract below the maximum allowable amount of 125% of the original Contract value, the proposed Taxiway will be revised from a 75'-wide concrete taxiway to a temporary 50'-wide asphalt taxiway. This project is part of a larger program to complete the mitigation of the unsuitable subsurface materials around Taxiway Romeo, and to reconstruct the taxiway to current FAA standards. With FAA concurrence, the program will provide funding for the construction of the full-strength 75'-wide taxiway in a later phase.

Field Alteration will result in change to Contract Days as:

(To be negotiated by the Contractor and the City.)

<input checked="" type="checkbox"/> Increase	<input type="checkbox"/> Decrease	\$ <u>897,281.80</u>
<input type="checkbox"/> Increase	<input type="checkbox"/> Decrease	
<input type="checkbox"/> Working Days	<input type="checkbox"/> Calendar Days	# Days <u>N/A</u>

REQUESTED BY:

Stephen Raley, Project Manager  
SpawGlass Civil Construction, Inc.

8/24/2018  
Date

RECOMMENDED BY:

Mike Norby P.E., Project Manager  
Kimley-Horn and Associates, Inc.

8/22/2018  
Date

AVIATION DEPARTMENT APPROVALS

RECOMMENDED BY:

Candace Selby, P.E., Sr. Airport Engineer

Date

RECOMMENDED BY:

Dennis D. Fiemeyer, P.E., PMP, Manager,  
Construction & Development

Date

RECOMMENDED FOR APPROVAL BY:

Loyce D. Clark, Chief Asset & Planning Officer

Date

APPROVED BY:

Russell J. Handy, Aviation Director

Date

This Field Alteration Amount: \$ 897,281.80

Total Original Contract: \$ 4,368,679.15

	Base Bid, Alt 2 (AIP Eligible)	Alt 1, Temp TW (Non-AIP Eligible)	Summary
WBS Element:	33-00178-05-02-03	33-00178-05-02-03	
Approved Contingency Amount:	\$ 788,381.99	\$ 134,550.00	\$ 922,931.99
Previous Field Alterations using Contingency:	\$ 0.00	\$ 0.00	\$ 0.00
Previous Field Alterations using New Appropriations:	\$ 0.00	\$ 0.00	\$ 0.00
This Field Alteration:	\$ 465,585.90	\$ 431,695.90	\$ 897,281.80
Field Alterations to date using Contingency:	\$ 465,585.90	\$ 0.00	\$ 465,585.90
Field Alterations to date using New Appropriations:	\$ 0.00	\$ 431,695.90	\$ 431,695.90
Contingency Balance:	\$ 322,796.09	\$ 134,550.00	\$ 457,346.09

Field Alterations to date using Contingency/New Appropriations: \$ 897,281.80

REVISED CONTRACT VALUE: \$ 5,265,960.95

Percent of Original Contract: 20.54%

(Contract Value will only change if "Contingency" is utilized. Revised Contract Value can not exceed 25% of Original Contract.)

Vendor #: 1049338 Original Ordinance #: 2017-10-19-0803 This FA Ordinance #: NA

Purchase Requisition #: 4600016807 Contract #: 4500417433

NOTE: This form is a local government record and shall be retained in accordance with the provisions of the Local Government Code, Section 201.

### CONTRACT SUMMARY

<i>Funding</i>	<i>89-17 Base Bid</i>	<i>LOCAL Alt 1</i>	<i>89-17 Alt 2</i>	<i>LOCAL Temp TW</i>	<i>Total</i>
Original Contract Value	\$ 3,723,103.06	\$ 118,181.59	\$ 527,394.50	\$ -	\$ 4,368,679.15
Field Alteration 1	\$ -	\$ -	\$ -	\$ -	
Field Alteration 2*	\$ 487,145.90	\$ -	\$ (21,560.00)	\$ 431,695.90	\$ 897,281.80
*New Appropriations to cover additional contingency (\$105,000) and temporary taxiway (\$431,695.90).					
Revised Contract Value	\$ 4,210,248.96	\$ 118,181.59	\$ 505,834.50	\$ 431,695.90	\$ 5,265,960.95
<b>Approved Contingency</b>					
WBS Element					
Original Approved Contingency:	\$ 656,526.49	\$ 29,550.00	\$ 131,855.50	\$ -	\$ 817,931.99
Additional Contingency:	\$ -	\$ -	\$ -	\$ 105,000.00	\$ 105,000.00
Revised Approved Contingency	\$ 656,526.49	\$ 29,550.00	\$ 131,855.50	\$ 105,000.00	\$ 922,931.99
Previous Field Alterations using Contingency:	\$ -	\$ -	\$ -	\$ -	\$ -
This Field Alteration:	\$ 487,145.90	\$ -	\$ (21,560.00)	\$ -	\$ 465,585.90
Field Alterations to date using Contingency:	\$ 487,145.90	\$ -	\$ (21,560.00)	\$ -	\$ 465,585.90
Balance:	\$ 169,380.59	\$ 29,550.00	\$ 153,415.50	\$ 105,000.00	\$ 457,346.09

# San Antonio International Airport

## Remove Bridge, Remove MSW, and Reconstruct Taxiway R (Parallel) (PKG 5)

Field Alteration 2

Date Prepared: 8/24/2018

Attachment A

Add Quantity:	Description	Quantity	Unit	Unit Price	Cost
MSW 0040-1	Excavate Existing MSW and Dispose Offsite (QTY Over run under 25%)	5,175	CY	\$ 53.41	\$ 276,396.75
P-152-4.4	Embankment (From offsite Borrow)	20,490	CY	\$ 13.47	\$ 276,000.30
P-152-4.5	Construct 2' Clay Cap over Remaining MSW	500	SY	\$ 11.13	\$ 5,565.00
P-620-5.1	Yellow Pavement Markings with Type III Reflective Beads	1,220	SF	\$ 4.74	\$ 5,782.80
P-620-5.2	Pavement Markings without Reflective Beads, Black Enhancement	3,950	SF	\$ 4.25	\$ 16,787.50
Add New Bid Item:	Description	Quantity	Unit	Unit Price	Cost
MSW 0040-1a	Excavate Existing MSW and Dispose Offsite. (QTY Over run over 25%)	13,000	CY	\$ 64.73	\$ 841,490.00
P-401	Hot Mix Asphalt Pavement Surface Course, 5"	675	TN	\$ 187.38	\$ 126,481.50
P-403	Hot Mix Asphalt Pavement Surface Course, 9"	1,215	TN	\$ 170.27	\$ 206,878.05
P-209	Crushed Aggregate Base Course (8" Depth)	2,500	SY	\$ 17.13	\$ 42,825.00
P-604-6.3	Hot Applied Edge Seal	100	LF	\$ 17.58	\$ 1,758.00
Remove Quantity:	Description	Quantity	Unit	Unit Price	Cost
P-155-8.1	Lime Treated Subgrade (6" Depth)	(3,830)	SY	\$ 4.49	\$ (17,196.70)
P-155-8.2	Lime	(90)	TN	\$ 198.58	\$ (17,872.20)
P-208-5.1	Aggregate Base Course (10" Depth)	(960)	SY	\$ 21.39	\$ (20,534.40)
P-209-5.1	Crushed Aggregate Base Course (6" Depth)	(3,830)	SY	\$ 11.40	\$ (43,662.00)
P-304-8.2	Cement Treated Base Course (12" Depth)	(3,830)	SY	\$ 54.42	\$ (208,428.60)
P-501-8.1	Portland Cement Concrete Pavement, 16" Depth	(3,600)	SY	\$ 92.70	\$ (333,720.00)
P-604-6.1	Preformed Sealer, 1/2" Joint	(3,070)	LF	\$ 5.56	\$ (17,069.20)
T-904-5.1	Sodding, 2" Depth (BASE BID)	(48,400)	SY	\$ 4.60	\$ (222,640.00)
T-904-5.1	Sodding, 2" Depth (ALTERNATE 2)	(4,000)	SY	\$ 5.39	\$ (21,560.00)

**TOTAL COST: \$ 897,281.80**