



**CITY OF SAN ANTONIO
AVIATION DEPARTMENT**

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

FA Form - Aviation
Rev. 12/2014

Date Prepared: 10/5/2022

Field Alteration No. 25

Project No. 33-00194 / 33-00316

Project Name: Taxiway RC (Temporary Bypass), Taxiway E Relocation and Partial FAA Loop Cable Relocation (Package 6)

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 includes quantity adjustments to reflect the final quantities constructed in the field during the Package 6 project for Taxiway Echo. These changes are reflected in Attachment A.

There is no adjustment in contract time for this change.

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

This Change represents the final quantities installed for the Taxiway Echo portion of Package 6, and revises the Contract to reflect the final approved installed quantities.

Field Alteration will result in change to Contract Cost as:

Increase Decrease \$ (222,590.19)

Field Alteration will result in change to Contract Days as:

Increase Decrease

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

Working Days Calendar Days # Days 0

REQUESTED BY:

[Signature]

10/07/2022

Philip Betancourt, Project Manager
SpawGlass Civil Construction

Date

RECOMMENDED BY:

[Signature]

10/07/2022

Scott Bondy, P.E., Resident Project Representative
Kimley-Horn and Associates, Inc.

Date

AVIATION DEPARTMENT APPROVALS

RECOMMENDED BY:

[Signature] 10/4/2022

Stephanie Kraich, Project Associate/Coordinator, Aviation Department

Date

APPROVED BY:

Candace Selby, Manager, Construction & Development

Date

This Field Alteration Amount: \$ (222,590.19)

Total Original Contract: \$ 7,691,662.96

Approved Change Order

GRANT FUNDED

GRANT FUNDED

WBS Element:	33-00194-05-02-01	33-00194-05-02-01	33-00316-05-02-01	33-00316-05-02-03	
Approved Amount:	\$564,159.08	\$ 135,813.61	\$ 682,526.10	\$ 37,414.83	\$1,419,913.62
Previous Field Alterations:	\$137,155.90	\$ 157,705.74	\$ -12,728.86	\$ 19,156.18	\$301,288.96
This Field Alteration:	-\$219,150.07	\$ -3,440.13	\$ 0.00	\$ 0.00	-\$222,590.19
Field Alterations to date:	-\$81,994.17	\$ 154,265.62	\$ -12,728.86	\$ 19,156.18	\$78,698.77
Balance:	\$646,153.25	\$ -18,452.01	\$ 695,254.96	\$ 18,258.65	\$1,341,214.85

Field Alterations to date : \$ 78,698.77

5222

REVISED CONTRACT VALUE: \$ 7,770,361.73

Percent of Original Contract: 1.02%

Vendor #: 1049338 Original Ordinance #: 2020-01-30-0049 This FA Ordinance #: _____
Purchase Requisition #: 1000157921 Contract #: 4600019066 Purchase Order #: 4500429065

Base Bid: Taxiway Echo

Item	S.P. No	Description	Current Contract Quantity	Unit	Unit Price	Final Installed Quantity	Quantity Change	Cost
1	100.1	Mobilization/Demobilization	1	LS	\$ 362,083.00	1	0	\$ -
2	100.2	Insurance and Bonds	1	LS	\$ 61,000.00	1	0	\$ -
3	100.3	Airside Safety and Security / Traffic Control	1	LS	\$ 316,506.68	1	0	\$ -
4	101.1	Preparing Right-of-Way	1	LS	\$ 84,584.16	1	0	\$ -
5	540.1	Storm Water Pollution Prevention Plan	1	LS	\$ 21,383.27	1	0	\$ -
6	C-105	Field Office and Curing Facilities	1	LS	\$ 27,866.67	1	0	\$ -
7	C-100	Contractor Quality Control	1	LS	\$ 109,048.30	1	0	\$ -
8	P-101-6.1	Portland Cement Concrete Pavement Removal, Including Thickened Edge, Sleeper Slab, and Reinforcement	3,190	SY	\$ 35.43	2,969	(221)	\$ (7,830.03)
9	P-101-6.2	Bituminous Pavement Removal	0	SY	\$ 22.06	0	0	\$ -
10	P-101-6.3	Cement-Treated Base Removal	360	SY	\$ 22.06	0	(360)	\$ (7,941.60)
11	P-101-6.4	Concrete Pavement Saw Cut (Full Depth)	680	LF	\$ 17.23	804	124	\$ 2,136.52
12	P-101-6.5	AC Pavement Saw Cut (Full Depth)	220	LF	\$ 5.00	178	(42)	\$ (210.00)
13	P-151-5.1	Clearing and Grubbing	10	AC	\$ 2,960.42	6	(4.07)	\$ (12,048.91)
14	P-152-5.1	Compacted Subgrade, 6" Depth (P-152)	1,510	SY	\$ 2.40	1,492	(18)	\$ (43.20)
15	P-152-5.2	Unclassified Excavation	8,617	CY	\$ 7.83	7,458.28	(1,158.72)	\$ (9,072.78)
16	P-155-9.1	Lime-Treated Subgrade, 6" Depth (P-155)	(510)	SY	\$ 4.77	0	510	\$ 2,432.70
17	P-155-9.2	Lime	(11)	TON	\$ 232.40	0	11	\$ 2,556.40
18	P-208-6.1	Uncrushed Aggregate Base Course, 13" Depth (P-208)	5.96	SY	\$ 30.21	0	(5.9582920)	\$ (180.00)
19	P-209-6.1	Crushed Aggregate Base Course, 6" Depth (P-209)	0	SY	\$ 13.49	0	0.00	\$ -
20	P-304-9.1	Cement-Treated Base Course, 8" Depth (P-304)	510	SY	\$ 34.39	107	(403)	\$ (13,859.17)
21	P-304-9.2	Cement-Treated Base Course, 12" Depth (P-304)	0	SY	\$ 44.35	0	0.00	\$ -
22	P-403-8.1	Asphalt Mixture Surface Course, 3" Depth (P-403 Surface Course)	0	TON	\$ 1,013.98	0	0	\$ -
23	P-501-8.1	Concrete Pavement, 8" Depth (Service Road)	1,390	SY	\$ 75.27	1,341.22	(48.78)	\$ (3,671.67)
24	P-501-8.2	Concrete Pavement, 16" Depth (P-501)	6,533	SY	\$ 128.37	6,229.26	(303.74)	\$ (38,991.10)
25	P-604-6.1	Preformed Sealer, 1/2-inch Joint	8,240	LF	\$ 0.61	8,237	(3)	\$ (1.83)
26	P-604-6.2	Preformed Sealer, 1-inch Joint	240	LF	\$ 0.61	253	13	\$ 7.93
27	P-605-6.1	Hot Applied Edge Seal	200	LF	\$ 5.68	167	(33)	\$ (187.44)
28	P-610-7.1	Concrete for Encasing Existing Utilities	75	CY	\$ 216.10	0	(75)	\$ (16,207.50)
29	P-620-6.1	Reflective Yellow Taxiway Pavement Markings, Waterborne	3,660	SF	\$ 2.61	1,912	(1,748)	\$ (4,562.28)
30	P-620-6.2	Reflective White Runway Pavement Markings, Waterborne	1,140	SF	\$ 2.60	144	(996)	\$ (2,589.60)
31	P-620-6.3	Non-Reflective Black Pavement Markings, Waterborne	3,950	SF	\$ 2.65	2,601	(1,349)	\$ (3,574.85)
32	P-620-6.4	Reflective Surface Painted Holding Position Signs, Waterborne	550	SF	\$ 13.40	532	(18)	\$ (241.20)
33	P-620-6.5	Pavement Marking Obliteration	490	SF	\$ 6.76	336	(154)	\$ (1,041.04)
34	T-904-6.1	Sodding (T-904)	21,820	SY	\$ 4.93	16,107	(5,713)	\$ (28,165.09)
35	T-905-6.1	Top Soil, 2" Depth (T-905)	1,220	CY	\$ 8.06	894.83	(325.17)	\$ (2,620.87)
36	TXDOT-247	Flexible Base Type A, Grade 1 - Grade 2, 6" Depth (TXDOT 247)	1,510	SY	\$ 10.85	1,492	(18)	\$ (195.30)
37	TXDOT-FW-0	Concrete Wingwall with Flared Wings (TXDOT FW-0)	2	EA	\$ 7,330.97	2	0	\$ -
38	TXDOT-SETP-CD	Safety End Treatment, Type II Cross Drainage (TXDOT SETP-CD)	2	EA	\$ 6,227.48	2	0	\$ -
39	D-701-6.1	18" RGRCP, Class V	50	LF	\$ 122.55	54	4	\$ 490.20
40	D-701-6.3	Double Trench Drain Drainage Structure	1	LS	\$ 311,323.77	1	0	\$ -
41	L-100-5.1	ALCMS Modifications (Manufacturer Allowance)	0	LS	\$ 14,191.68	0	0	\$ -
42	L-100-5.2	ALCMS Modifications Contractor Effort	1	LS	\$ 7,379.68	1	0	\$ -
43	L-100-5.3	Electrical Demolition	1	LS	\$ 11,353.34	1	0	\$ -
44	L-105-6.1	Twy E Temporary Jumpers, Lighting and Signage	1	LS	\$ 11,353.34	1	0	\$ -
45	L-108-5.2	No. 8 AWG, 5 kV, L-824, Type C Cable, Installed in Duct Bank or Conduit	4,750	LF	\$ 1.70	6,109	1,359	\$ 2,310.30
46	L-108-5.3	No. 6 AWG, 5 kV, L-824, Type C Cable, Installed in Duct Bank or Conduit	2,600	LF	\$ 1.70	1,026	(1,574)	\$ (2,675.80)
47	L-108-5.4	No. 6 AWG, Solid, Bare Copper Counterpoise Wire, Including Connections	4,100	LF	\$ 1.70	3,631	(469)	\$ (797.30)
48	L-108-5.5	No. 1/0 AWG, Stranded, Bare Copper Counterpoise Wire, Including Connections	3,700	LF	\$ 5.11	3,373	(327)	\$ (1,670.97)
49	L-110-5.1	Non-Encased Duct Bank, 4-Way 2"	570	LF	\$ 51.09	446	(124)	\$ (6,335.16)
50	L-110-5.2	Concrete Encased Duct Bank, 4-Way 2"	115	LF	\$ 96.50	65	(50)	\$ (4,825.00)
51	L-110-5.4	Concrete Encased Duct Bank, 4-Way 4"	3,360	LF	\$ 96.50	2,933	(427)	\$ (41,205.50)
52	L-110-5.5	Non-Encased Conduit, 1-Way 2"	2,950	LF	\$ 22.71	2,645	(305)	\$ (6,926.55)
53	L-110-5.6	Concrete Encased Conduit, 1-Way 2"	270	LF	\$ 28.38	395	125	\$ 3,547.50
54	L-110-5.7	Directional Bored Duct Bank, 4-Way 4"	180	LF	\$ 113.53	440	260	\$ 29,517.80
55	L-115-5.1	Concrete Aircraft Load Rated Electrical Handhole	8	EA	\$ 13,624.01	8	0	\$ -
56	L-115-5.2	Two-Can Junction Can Plaza	2	EA	\$ 1,703.01	2	0	\$ -
57	L-125-5.1	New Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Paved Shoulder	2	EA	\$ 1,703.01	2	0	\$ -
58	L-125-5.2	New Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Dirt Shoulder	21	EA	\$ 1,135.33	21	0	\$ -
59	L-125-5.3	New Size "B" L-868 Base Can for Any New, Reinstalled or Future Fixture in New PCCP Pavement	1	EA	\$ 1,703.00	1	0	\$ -
60	L-125-5.4	New L-861T(L) Taxiway Edge Light with New Isolation Transformer on New or Existing Base	21	EA	\$ 567.67	21	0	\$ -
61	L-125-5.6	L-850C, In-Pavement Runway Edge Light on New or Existing L-868 Base Can	1	EA	\$ 3,178.94	1	0	\$ -
62	L-125-5.7	New Size 3, 1-Module Guidance Sign with New Isolation Transformer and New Concrete Foundation	3	EA	\$ 7,101.52	3	0	\$ -
63	L-125-5.9	New Size 3, 3-Module Guidance Sign with New Isolation Transformer and New Concrete Foundation	1	EA	\$ 8,515.01	1	0	\$ -
64	L-125-5.10	New Blank Cover on Existing L-867 or L-868 Base Can	7	EA	\$ 283.83	0	(7)	\$ (1,986.81)
65	L-140-6.1	Install FAA Furnished Fiber Optic Cable	17,200	LF	\$ 7.38	17,126	(74)	\$ (546.12)
66	L-140-6.4	(3)-1" Smoothwall Innerduct	7,730	LF	\$ 13.62	7,585	(145)	\$ (1,974.90)
FA02	P-304	16" Cement Treated Base	7,093	SY	\$ 59.13	6,856	(237)	\$ (14,013.81)
FA02	P-152	6" Natural Subgrade	9,283	SY	\$ 2.40	6,856	(2,427)	\$ (5,824.80)
FA02	P-403	Asphalt Surface Course, 3" Depth	83	TON	\$ 455.20	23.48	(59.52)	\$ (27,093.50)
FA09		Topsoil Stockpile Relocation	1	LS	\$ 11,043.44	1	0	\$ -
FA11		Lower Existing AT&A Lines	1	LS	\$ 30,869.30	1	0	\$ -

San Antonio International Airport
 Taxiway RC (Temporary Bypass), Taxiway E Relocation and Partial FAA Loop Cable Relocation - Package 6
 Field Alteration 24 Attachment A Date Prepared: 10/5/2022

Base Bid: Taxiway Echo

Item	S.P. No	Description	Current Contract Quantity	Unit	Unit Price	Final Installed Quantity	Quantity Change	Cost
FA12	P-151-5.1	Clearing and Grubbing	0.28	AC	\$ 2,960.42	0.28	0	\$ -
FA12	P-152-5.2	Unclassified Excavation	260	CY	\$ 7.83	260	0	\$ -
FA12	TxDOT 340	3" Asphalt Pavement	210	TON	\$ 199.95	231.3	21.3	\$ 4,258.94
FA12	P-151-5.1	4" Recycled Millings	1,333	SY	\$ 14.72	1,333	0	\$ -
FA12	P-101	Temporary Asphalt Apron Removal	1,333	SY	\$ 15.94	1,333	0	\$ -
FA12	T-904-6.1	Sodding	1,333	SY	\$ 4.93	1,430	97	\$ 478.21
FA12	T-905-6.1	Topsoil, 2" Depth	75	CY	\$ 8.06	75	0	\$ -
FA12	Item 100	Steel Plates	5	MON	\$ 2,430.00	4.5	(0.5)	\$ (1,215.00)
FA14	L-FAA-4	Additional RTR B Shelter Fiber Hardware	1	LS	\$ 11,518.21	1	0	\$ -
FA14	P-101	Demolish Existing Abandoned Concrete Foundation	1	LS	\$ 1,473.23	1	0	\$ -
FA14	L-FAA-1D	Single-Way 4" PVC Conduit, Concrete Encased	56	LF	\$ 41.56	56	0	\$ -
FA17		GC Delay Claim	1	LS	\$ 199,742.38	1	0	\$ -
FA18		Phase 4A-2 Temporary Vehicle Service Road	1	LS	\$ 16,225.60	1	0	\$ -
FA20	P-101-6.3	Cement Treated Base Removal	1,368	SY	\$ 22.06	1,368	0	\$ -
FA20	P-152-5.2	Unclassified Excavation	178	CY	\$ 7.83	178	0	\$ -
FA20	P-152	Embankment	178	CY	\$ 7.83	178	0	\$ -
FA21		Stop Sign Foundation & Relocation	1	LS	\$ 3,010.58	1	0	\$ -
FA21		Oil/Water Separator Force Main	1	LS	\$ 1,404.71	1	0	\$ -
FA21		VSR Flexible Delineators	1	LS	\$ 2,596.17	1	0	\$ -
FA22		Phase 4B Delay and Remobilization	1	LS	\$ 39,433.30	1	0	\$ -
FA22	L-110	Directional Bored Duct Bank, 4-way 2"	145	LF	\$ 74.55	145	0	\$ -
FA22	L-110	Non-encased Duct Bank, 4-way 4"	25	LF	\$ 96.50	25	0	\$ -
FA23	L-110-5.1	ALCMS Modifications (Manufacturer Allowance)	1	LS	\$ 21,247.73	1	0	\$ -

Total Base Bid Taxiway Echo Change: \$ (222,590.19)

CONTRACT SUMMARY

Funding	92-19		95-19 / 97-20		Total
	Taxiway E	NON AIP	Taxiway RC	NON AIP	
Original Contract Value	33-00194-05-02-01	33-00194-05-02-02	33-00316-05-02-01	33-00316-05-02-03	
	\$ 4,189,477.24	\$ 143,232.39	\$ 3,209,302.29	\$ 149,651.04	\$ 7,691,662.96

Field Alteration	1	\$ -	\$ -	\$ -	\$ -	\$ -
Field Alteration	2	\$ (70,844.39)	\$ -	\$ (66,832.60)	\$ -	\$ (137,676.99)
Field Alteration	3	\$ -	\$ -	\$ -	\$ -	\$ -
Field Alteration	4	\$ -	\$ -	\$ -	\$ -	\$ -
Field Alteration	5	\$ -	\$ -	\$ (52,170.03)	\$ -	\$ (52,170.03)
Field Alteration	6	\$ -	\$ -	\$ -	\$ 6,543.12	\$ 6,543.12
Field Alteration	7	\$ -	\$ -	\$ 23,158.54	\$ -	\$ 23,158.54
Field Alteration	8	\$ -	\$ -	\$ 2,310.00	\$ -	\$ 2,310.00
Field Alteration	9	\$ 11,043.44	\$ -	\$ -	\$ -	\$ 11,043.44
Field Alteration	10	\$ -	\$ -	\$ -	\$ -	\$ -
Field Alteration	11	\$ 30,869.30	\$ -	\$ -	\$ -	\$ 30,869.30
Field Alteration	12	\$ (31,713.30)	\$ 105,050.19	\$ -	\$ -	\$ 73,336.89
Field Alteration	13	\$ -	\$ -	\$ 16,909.83	\$ -	\$ 16,909.83
Field Alteration	14	\$ 15,318.80	\$ -	\$ -	\$ -	\$ 15,318.80
Field Alteration	15	\$ -	\$ -	\$ -	\$ -	\$ -
Field Alteration	16	\$ -	\$ -	\$ -	\$ -	\$ -
Field Alteration	17	\$ 199,742.38	\$ -	\$ -	\$ -	\$ 199,742.38
Field Alteration	18	\$ 16,225.60	\$ -	\$ -	\$ -	\$ 16,225.60
Field Alteration	19	\$ -	\$ -	\$ 36,549.36	\$ 12,613.06	\$ 49,162.42
Field Alteration	20	\$ 32,965.56	\$ -	\$ -	\$ -	\$ 32,965.56
Field Alteration	21	\$ 7,011.46	\$ -	\$ -	\$ -	\$ 7,011.46
Field Alteration	22	\$ (80,519.00)	\$ 52,655.55	\$ -	\$ -	\$ (27,863.45)
Field Alteration	23	\$ 7,056.05	\$ -	\$ -	\$ -	\$ 7,056.05
Field Alteration	25	\$ -	\$ -	\$ 27,346.04	\$ -	\$ 27,346.04
Field Alteration	24	\$ (219,150.07)	\$ (3,440.13)	\$ -	\$ -	\$ (222,590.19)
Revised Contract Value		\$ 4,107,483.07	\$ 297,498.01	\$ 3,196,573.43	\$ 168,807.22	\$ 7,770,361.73

Approved Contingency

WBS Element	NON AIP		NON AIP		
	33-00194-05-03-01	33-00194-05-03-03	33-00316-05-03-01	33-00316-05-03-03	
Original Approved Contingency:	\$ 564,159.08	\$ 35,813.61	\$ 682,526.10	\$ 37,414.83	\$ 1,319,913.62
Additional Contingency:	\$ -	\$ 100,000.00	\$ -	\$ -	\$ 100,000.00
Revised Approved Contingency	\$ 564,159.08	\$ 135,813.61	\$ 682,526.10	\$ 37,414.83	\$ 1,419,913.62
Previous Field Alterations using Contingency:	\$ 137,155.90	\$ 157,705.74	\$ (12,728.86)	\$ 19,156.18	\$ 301,288.96
This Field Alteration:	\$ (219,150.07)	\$ (3,440.13)	\$ -	\$ -	\$ (222,590.19)
Field Alterations to date using Contingency:	\$ (81,994.17)	\$ 154,265.62	\$ (12,728.86)	\$ 19,156.18	\$ 78,698.77
Balance:	\$ 646,153.25	\$ (18,452.01)	\$ 695,254.96	\$ 18,258.65	\$ 1,341,214.85

Kimley»Horn

10101 Reunion Place, Suite 400
San Antonio, Texas 78216
P: (210) 541-9166

October 5, 2022
Ms. Candyce Selby, P.E.
Senior Airport Engineer
San Antonio Airport System
457 Sandau Road
San Antonio, Texas 78216

**RE: Project Name – Taxiway RC (Temporary Bypass), Taxiway E Relocation and Partial FAA Loop Cable Relocation (Package 6)
Project Numbers – SAT Project Numbers 33-00194 and 33-00316
FAA AIP 3-48-0192-092-2019, 3-48-0192-095-2019 and 3-48-0192-097-2020
Recommendation for Field Alteration No. 25**

Ms. Selby,

This change includes quantity adjustments to reflect the final quantities constructed in the field during the Package 6 project for Taxiway Echo. The total cost for this change is as follows:

Base Bid Taxiway Romeo **TOTAL CONTRACT CHANGE** = **(\$222,590.19)**

There is no adjustment in time associated with this change.

Justification

This Change represents the final quantities installed for the Taxiway Echo portion of Package 6, and revises the Contract to reflect the final approved installed quantities.

Per section 5-35 and the examples in Table 5-16 of the FAA's Order 5100.38D (AIP Handbook), the ADO has the option to approve the request for the adjustment in construction cost to revise quantities of items to reflect actual quantities used for the project.

Kimley-Horn recommends approval of this Field Alteration in the amount of (\$222,590.19), as allowed by specifications.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



Scott Bondy, P.E.
Resident Project Representative