



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

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

Date Prepared: 8/16/2018

Field Alteration No. #31-R1

Project No. 33-00193

Project Name: Terminal Area Taxiway Improvements - Package 3

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.)

General Change Order Request Information:

Description of Changes: After uncovering the existing storm drain structure at the north end of storm drain line SD-A, and at the east end of storm drain line SD-F, it was discovered that the existing pipe was reduced from 42-inch to 30-inch diameter, and at a lower elevation than that of the planned 42-inch rubber gasket reinforced concrete pipe (RGRCP) profile. After our site meeting, Kimley-Horn determined that a new structure is required due to concerns that enlarging the existing penetration would diminish the structural integrity of the existing storm drain structure. As documented in request for information (RFI) numbers 25 and 26, both dated May 18, 2018, the existing storm drain structure shall be removed and replaced with a new structure.

This Field Alteration No. 31 includes revisions to the proposed storm drain improvements during combined construction phases 8 and 9 that were detailed under Field Work Directive No. 20-R1 dated Wednesday, June 13, 2018, and as follows:

1. Remove an existing storm drain structure (that is too small to accommodate the proposed 42-inch RGRCP) and furnish and install a new precast structure as detailed in submittal No. 70A, as shown on revised civil drawings C3.4, C9.7 and C9.9 attached hereto.
2. Revise the proposed alignment of the new 36-inch diameter RGRCP between catch basin CB-05 and the new precast storm drain structure to avoid conflict with an existing electrical manhole that is to remain in place (per electrical drawing E1.4). Construct two (2) each concrete pipe collars to accommodate the revised alignment of the new 36-inch RGRCP.
3. Connect the proposed 36-inch, 42-inch and the existing 60-inch diameter storm drain pipe(s) to the new precast storm drain structure.

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

The existing storm drain manhole would not accommodate the proposed pipe size and as a result, system capacity would be reduced and water would pond in the infield areas during major storm events. Further, the existing storm drain structure was not aircraft rated and did not have the structural integrity to accommodate the proposed 42-inch diameter class V storm drain pipe.

Direct SpawGlass Civil Construction to revise the storm drain improvements as shown on revised drawings and submittal No. 70A, as shown in Exhibit "B", and as follows:

1. Civil drawing C3.4, Demolition Plan - Alternate 1 (page 85 of 175);
2. Civil drawing C9.7, Grading and Drainage Plan - Alternate 1 (page 104 of 175), and;
3. Civil drawing C9.9, Storm Drain Profile - Storm Drain A - Alternate 1 (page 106 of 175).
4. Submittal No. 70A (19-pages).

It is Kimley-Horn's recommendation to proceed with the storm drain revisions in the Work. These changes are needed and directly related to the Work identified in the grant description and the quantity alterations will be performed in accordance with FAA standards. There are not any liquidated damages associated with these revisions and a 29-calendar day time extension is justified with the attached Time Impact Analysis, see Exhibit "C" attached.

Field Alteration will result in change to construction costs as:

☒ Increase

☐ Decrease

\$ 374,953.60

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

29

REQUESTED BY:


Stephen Raley, Project Manager
SpawGlass Civil Construction, Inc.

8/16/2018
Date

RECOMMENDED BY:


Jon Graf, Resident Project Representative
Kimley-Horn and Associates, Inc.

8/16/2018
Date

AVIATION DEPARTMENT APPROVALS

RECOMMENDED FOR APPROVAL BY:

Candace Selby, P.E., Senior Airport Engineer

Date

APPROVED BY:

Dennis D. Fiemeyer, Capital Program Manager

Date

RECOMMENDED FOR APPROVAL BY:

Loyce D. Clark, Chief Asset and Planning Officer

Date

APPROVED BY:

Lt. General Russel J. Handy, Aviation Director

Date

		This Field Alternation Amount:	\$ 374,953.60
		Total Original Contract:	\$ 22,534,937.97
<u>Approved Contingency</u>			
WBS Element: _____		Summary	
Approved Contingency Amount:	\$ _____	\$ _____	\$ _____
Previous Field Alterations using CONTINGENCY :	\$ _____	\$ _____	\$ _____
This Field Alteration:	\$ 374,953.60	\$ _____	\$ 374,953.60
Field Alterations to date using Contingency:	\$ _____	\$ _____	\$ 472,100.77
Balance:	\$ _____	\$ _____	\$ _____

Field Alterations to date using Contingency: \$ 472,100.77	
REVISED CONTRACT VALUE: \$ 23,007,038.74	
Percent of Original Contract: 2.09%	
<i>(Contract Value will only change if "Contingency" is utilized. Revised Contract Value can not exceed 25% of Original Contract.)</i>	
Vendor #:	1049338
Original Ordinance #:	2015-12-10-1043
This FA Ordinance #:	NA
Purchase Requisition #:	
Contract #:	4600015633
Purchase Order #:	4500409623
NOTE: This form is a local government record and shall be retained in accordance with the provisions of the Local Government Code, Section 201.	

CHANGE ORDER COST SUMMARY
<p>The change order cost summary is as follows:</p> <p>1. Description: Remove one (1) each existing storm drain manhole where storm drain line SD-A meets storm drain line SD-F, per bid item No. 16. Approximate Costs: \$1,997.34</p> <p>2. Description: Furnish two (2) each concrete pipe collars per bid item No. 44. Approximate Costs: \$20,928.46</p> <p>3. Description: New storm drain structure per submittal No. 70A, see Exhibit "A" for change order request (COR) No. 12, dated July 17, 2018. Approximate Costs: \$75,146.94</p> <p>4. Description: General condition costs for extending Contract Time 29 calendar days, see Exhibit "A" for change order request (COR) No. 12, dated July 17, 2018. Approximate Costs: \$276,880.86</p> <p>T = Total Costs for Field Alteration No. 31 T = Sum of Item numbers 1 through 4 above T = \$374,953.60</p>

CONTRACT SUMMARY	
ORIGINAL AWARD AMOUNTS	
Base Bid	\$3,272,683.41
Alternate 1	\$18,887,944.23
Alternate 2	\$374,310.33
Total Project	\$22,534,937.97

FIELD ALTERATION COST SUMMARY (AIP ELIGIBLE)		COST SUMMARY (NON-AIP ELIGIBLE)	
Field Alteration No. 1	\$11,603.56		\$0.00
Field Alteration No. 2	(\$271,484.87)		\$0.00
Field Alteration No. 3	\$5,939.44		\$0.00
Field Alteration No. 4	\$30.70		\$0.00
Field Alteration No. 5	\$0.00		\$0.00
Field Alteration No. 6	(\$8,319.60)		\$0.00
Field Alteration No. 7	\$0.00		\$0.00
Field Alteration No. 8	\$44,690.05		\$0.00
Field Alteration No. 9	(\$4,070.53)		\$0.00
Field Alteration No. 10	(\$9,659.40)		\$0.00
Field Alteration No. 11	\$11,364.71		\$0.00
Field Alteration No. 12	\$65,805.33		\$0.00
Field Alteration No. 13	\$0.00		\$0.00
Field Alteration No. 14	\$67,168.28		\$0.00
Field Alteration No. 15	\$84,788.23		\$0.00
Field Alteration No. 16	\$36,711.06		\$0.00
Field Alteration No. 17	\$0.00		\$0.00
Field Alteration No. 18	\$0.00		\$0.00
Field Alteration No. 19	(\$29,412.06)		\$0.00
Field Alteration No. 20	\$0.00		\$0.00
Field Alteration No. 21	\$0.00		\$0.00
Field Alteration No. 22	\$47,307.11		\$0.00
Field Alteration No. 23	\$19,246.35		\$0.00
Field Alteration No. 24	\$25,438.81		\$0.00
Field Alteration No. 25	\$0.00		\$0.00
Field Alteration No. 26	\$0.00		\$0.00
Field Alteration No. 27	\$0.00		\$0.00
Field Alteration No. 28	\$0.00		\$0.00
Field Alteration No. 29	\$0.00		\$0.00
Field Alteration No. 30	\$0.00		\$2,250.00
Field Alteration No. 31	\$374,953.60		\$0.00
TOTAL AIP	\$472,100.77	TOTAL NON-AIP	\$2,250.00