

**CITY OF SAN ANTONIO
INTERDEPARTMENTAL MEMORANDUM
PUBLIC WORKS DEPARTMENT**

TO: Mayor and City Council

FROM: Thomas G. Wendorf, P.E., Director of Public Works

THROUGH: Terry M. Brechtel, City Manager

COPIES: Melissa Byrne Vossmer; Andrew Martin; Louis A. Lendman; Milo D. Nitschke; file

SUBJECT: Quintana Road Drainage No. 64 Extension - Field Alteration No. 19 - Final and Field Alteration No. 3 - Final

DATE: December 4, 2003

SUMMARY AND RECOMMENDATIONS

This Ordinance approves the City of San Antonio Field Alteration No. 19 - Final in the reduced amount of \$736,319.49 and the San Antonio Water System (SAWS) Field Alteration No. 3 - Final in the reduced amount of \$53,666.75 to the contract of Laughlin Environmental, Inc., for the Quintana Road Drainage No. 64 Extension, an authorized 1994 General Obligation (G.O.) Drainage Improvement Bond project located in Council District 4. The project has been completed, and the reconciliation between the final quantities and the contracted quantities has been completed resulting in a decrease of \$789,986.24 in the total contract amount.

Staff recommends approval of this Ordinance.

BACKGROUND INFORMATION

The construction contract was approved by City Council on June 10, 1999, by Ordinance Number 89918 and initially authorized \$12,861,938.20 for construction services related to this project. Previously approved Field Alterations totaling \$1,220,304.46 increased the total contract award to \$14,082,242.66. This Council action approves the deduction of \$789,986.24 to the contract amount and reflects the reconciliation of unit quantities completed and accepted and will adjust the final contract amount to \$13,292,256.42.

The Quintana Road Drainage Project has been completed and is the culmination of the original Quintana Road Drainage Capital Improvement Project which was initiated and terminated in 1988 due to the presence of contaminated groundwater which included petroleum byproducts originating from Kelly A.F.B. Further environmental investigation was conducted by Kelly A.F.B. and the project was re-designed and re-scoped to include the new route for the drainage system.

This project has provided for the reconstruction of Quintana from Bynum to Fenfield; McLaughlin from Quintana to Bynum; Bynum from McLaughlin to Quintana; Mayfield from Quintana to Holder; Burd from Mayfield to Quintana; King, Lovett and Peabody from Bynum to Quintana; and Holder from Mayfield to Quintana. The project also included the construction of sidewalks, curbs and driveway approaches and major storm drainage, including an underground drainage system with a barrier to control groundwater migration away from Kelly A.F.B. The system was designed by the City's consultant in conjunction with Kelly A.F.B. and was approved by the Texas Commission on Environmental Quality (TCEQ).

POLICY ANALYSIS

Approval of this ordinance will be a continuation of City Policy regarding project closeout.

FISCAL IMPACT

This item will reduce the construction contract in the amount of \$789,986.24.

COORDINATION

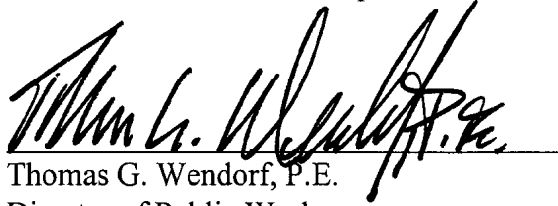
This action was coordinated with the Office of Management and Budget and the Finance Department.

SUPPLEMENTARY COMMENTS

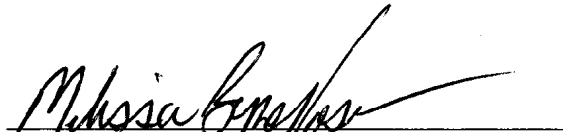
This contract was developed using the formal competitive bid process; therefore, a Discretionary Contracts Disclosure Form is not required.

ATTACHMENTS

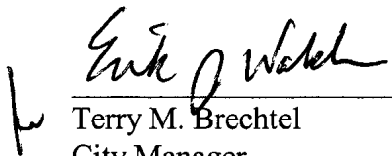
1. Field Alteration Request No. 19 - Final
2. Field Alteration Request No. 3 - Final

 11/21/03

Thomas G. Wendorf, P.E.
Director of Public Works


Melissa Byrne Vossmer
Assistant City Manager

APPROVED:


Terry M. Brechtel
City Manager

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FORM PW - 15
REV MARCH 2003
ONE (1) COPY

CITY OF SAN ANTONIO
DEPARTMENT OF PUBLIC WORKS
FIELD ALTERATION REQUEST

SEP 10 2003

CONTRACT

ADMINISTRATION

2003 SEP 15
Field Alteration No. 320 FINAL SAWSDate August 8, 2003

Project Name (as shown on the Work Project Authorization):

CITY OF SAN ANTONIO
PUBLIC WORKS, CAPITAL PROGRAMS
Quintana Road Drainage No. 64 Extension

The revision or amendment described below to the work originally or previously specified is hereby requested, including all changes in costs. (Describe work to be added or deleted. Attach revised plan sheet affected or drawings as required):

RECAPITULATION OF SAN ANTONIO WATER SYSTEM CONTRACT QUANTITIES DEDUCT \$53,666.75

Justification for proposed alteration (description in detail as to why this work is to be added or deleted - use attachments if necessary):

REFLECTS VARIATIONS OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

Resulting change in contract cost by this Field Alteration:

\$53,666.75

[] Increase

[X] Decrease (attach summary)

Resulting in an: [] Increase [] Working Day
[] Decrease 0 [] Calendar Day

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

Requested by:

City of San Antonio Public Works

City, Consulting Engineer/Architect, Other
(Please Specify)

By: [Signature]

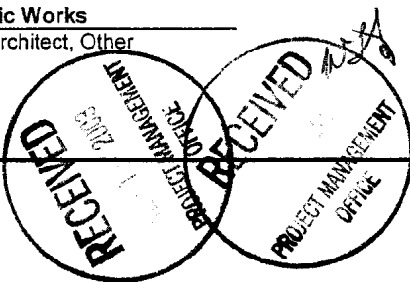
8/14/03

Title:

Firm: Laughlin Environmental, Inc.

Contractor (type in full name)

Recommended



Others: (If required: i.e., City Dept., S.A.W.S., etc.)

Date:

Donald L. White, P.E. 8/8/03
Consultant (Project Engr/Arch Only) Date:

Firm: Fernandez, Frazer, White & Associates, Inc.

Walter E. Childs

Construction Inspections Manager

Date:

Samuel Hutchins IV, P.E. 9/18/03
Project Manager Date:

Razi S. Hosseini, P.E.

Assistant City Engineer

Date:

William E. Krause

Capital Programs Manager

Date:

Douglas W. Yerkes, Ph.D., P.E.

City Engineer

Date:

APPROVED:

Terry M. Brechtel

City Manager

Date:

Thomas G. Wendorf, P.E.

Director of Public Works

Date:

FOR CITY USE ONLY:

Professional Services Fees for this Field Alterations are [] eligible [] ineligible

Original Contract Amt. \$ 12,861,938.20
Previous Approved FAs \$ 463,984.97
This Field Alteration \$ < 53,666.75 >
Total \$ 13,292,256.42

Const. Contg. Fund \$ 2,532,052.62
Previous Approved FA \$ 1,535,819.38
This Field Alteration \$ < 53,666.75 >
Total Field Alterations \$ 1,482,212.63
Balance \$ 1,049,839.99

Orig. No. 89918 6/10/99

FIELD ALTERATION NO 20 - SAN ANTONIO WATER SYSTEM PROJECT RECAPITULATION
 PROJECT: QUINTANA ROAD DRAINAGE NO. 64, EXTENSION
 SAN ANTONIO WATER SYSTEM WASTEWATER PACKAGE
 SAWS JOB NO: 95-5678
 CONTRACTOR: LAUGHLIN ENVIRONMENTAL, INC.
 ENGINEER: FERNANDEZ FRAZER WHITE & ASSOC., INC. 11824 RADIUM, SAN ANTONIO, TX 78316, (210) 377-0774
 DATE: July 11, 2003

RECAPITULATION OF SAN ANTONIO WATER SYSTEM WASTEWATER BASE CONTRACT SHOWING VARIATION
 OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
100	MOBILIZATION	L.S.	1	1	\$6,687.50	\$0.00
101	PREPARING RIGHT OF WAY	L.S.	1	1	\$6,687.50	\$0.00
402A	6" SANITARY SEWER, HOUSE LATERAL	L.F.	1230	710	\$36.38	-\$18,917.60
402A	8" SANITARY SEWER PIPE, (0'-6')	L.F.	2682	2948.11	\$37.45	\$9,965.82
402A	8" SANITARY SEWER PIPE, (6'-10')	L.F.	1887	1707.05	\$37.45	-\$6,739.13
402A	10" SANITARY SEWER PIPE, (0'-6')	L.F.	50	80	\$49.22	\$1,476.60
402A	10" SANITARY SEWER PIPE, (6'-10')	L.F.	289	258.75	\$49.22	-\$1,488.91
402A	12" SANITARY SEWER PIPE, (6'-10')	L.F.	166	165.99	\$74.90	-\$0.75
402B	WYES (8" X 6")	EA.	77	74	\$53.50	-\$160.50
402B	WYES (10" X 6")	EA.	5	0	\$208.65	-\$1,043.25
402B	WYES (12" X 6")	EA.	3	0	\$219.35	-\$658.05
402D	BENDS 6"	EA.	250	64	\$73.83	-\$13,732.38
404B	WATERTIGHT RING & COVER SEWER MANHOLES	EA.	39	40	\$1,663.85	\$1,663.85
404C	EXTRA DEPTH MANHOLES	V.F.	14	16.15	\$160.50	\$345.08
404D	MANHOLE RING ENCASEMENT	EA.	39	40	\$334.91	\$334.91
407A	CONCRETE ENCASEMENT	C.Y.	250	194.24	\$94.16	-\$5,250.36
407B	CONCRETE CRADLES	C.Y.	19	0	\$247.17	-\$4,696.23
408A	VERTICAL STACKS	V.F.	45	0	\$34.24	-\$1,540.80
408B	WYES (6" X 6")	EA.	5	0	\$12.84	-\$64.20
408C	TEES (8" X 6")	EA.	10	1	\$19.26	-\$173.34
408C	TEES (10" X 6")	EA.	5	2	\$74.90	-\$224.70
408D	BENDS (6")	EA.	20	1	\$7.49	-\$142.31
410B	GRAVEL SUBGRADE FILLER (SEWER)	C.Y.	340	90.68	\$10.70	-\$2,667.72
511D	REPLACING ASPHALT TREATED BASE & PAVEMENT, 7-1/2" DEPTH	S.Y.	150	180	\$28.89	\$866.70
511D	REPLACING ASPHALT TREATED BASE & PAVEMENT, 12" DEPTH	S.Y.	75	75	\$47.08	\$0.00
700	TRENCH EXCAVATION SAFETY PROTECTION (SEWER)	L.F.	6304	5159.9	\$1.07	-\$1,224.19
						-\$44,071.46

FIELD ALTERATION NO 20 - SAN ANTONIO WATER SYSTEM PROJECT RECAPITULATION
 PROJECT: QUINTANA ROAD DRAINAGE NO. 64, EXTENSION
 SAN ANTONIO WATER SYSTEM WASTEWATER PACKAGE
 SAWS JOB NO: 95-5678
 CONTRACTOR: LAUGHLIN ENVIRONMENTAL, INC.
 ENGINEER: FERNANDEZ FRAZER WHITE & ASSOC., INC. 11824 RADIUM, SAN ANTONIO, TX 78316, (210) 377-0774
 DATE: July 11, 2003

RECAPITULATION OF SAN ANTONIO WATER SYSTEM FIELD ALTERATIONS SHOWING VARIATION
 OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
FIELD ALTERATION SAWS 1 - KING STREET						
100	MOBILIZATION	L.S.	1	1	\$2,500.00	\$0.00
101	PREPARATION OF RIGHT-OF-WAY	L.S.	1	1	\$2,000.00	\$0.00
511.3	REMOVE & REPLACE WITH 6" ATB & 1½" HMAC	S.Y.	17		\$18.00	-\$306.00
550	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	624	521.81	\$1.07	-\$109.34
848	8" SANITARY SEWER PIPE (0'-6')	L.F.	80	270	\$35.00	\$6,650.00
848	8" SANITARY SEWER PIPE (6'-10')	L.F.	393	201.81	\$40.00	-\$7,647.60
848	12" SANITARY SEWER PIPE (6'-10')	L.F.	141	130	\$70.00	-\$770.00
848	12" SANITARY SEWER PIPE (10'-14')	L.F.	10	0	\$80.00	-\$800.00
852.1	WATERTIGHT RING & COVER SEWER MANHOLE(0'-6')	EA	9	9	\$1,500.00	\$0.00
852.3	EXTRA DEPTH MANHOLE	V.F.	4	0	\$125.00	-\$500.00
854	6" SANITARY SEWER HOUSE LATERAL	L.F.	40	95	\$40.00	\$2,200.00
858	CONCRETE ENCASEMENT, CRADLES SADDLES	C.Y.	16	34.9	\$100.00	\$1,890.00
860	VERTICAL STACK	V.F.	5	0	\$25.00	-\$125.00
864	BY PASS PUMPING	L.S.	1	0	\$200.00	-\$200.00
824	SEWER MAIN TELEVISION INSPECTION 8"-15"	L.F.	624	0	\$3.00	-\$1,872.00
	TOTAL CHANGE, FIELD ALTERATION 1					-\$1,589.94
FIELD ALTERATION SAWS 2 - MAYFIELD - HOLDER STREET						
550	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	377	376	\$3.00	-\$3.00
848	8" SANITARY SEWER PIPE (0'-6')	L.F.	45	350	\$37.45	\$11,422.25
848	8" SANITARY SEWER PIPE (6'-10')	L.F.	332	26	\$37.45	-\$11,459.70
852	WATERTIGHT RING & COVER SEWER MANHOLE (0'-6')	EA	2	2	\$1,827.00	\$0.00
852	EXTRA DEPTH MANHOLE	V.F.	2	0	\$201.00	-\$402.00
854	6" SANITARY SEWER, HOUSE LATERAL	L.F.	280	75	\$36.38	-\$7,457.90
858	CONCRETE CRADLES	C.Y.	1	0	\$100.00	-\$100.00
866	SEWER MAIN TELEVISION INSPECTION, 8" - 15"	L.F.	377	376	\$5.00	-\$5.00
	TOTAL CHANGE, FIELD ALTERATION 2					-\$8,005.35
	TOTAL CHANGE IN FIELD ALTERATIONS					-\$9,595.29

CITY OF SAN ANTONIO
DEPARTMENT OF PUBLIC WORKS
FIELD ALTERATION REQUEST

RECEIVED

AUG 18 2003

Date August 8, 2003

CITY OF SAN ANTONIO Field Alteration No. 19 FINAL
PUBLIC WORKS, CAPITAL PROGRAMS

Project Name (as shown on the Work Project Authorization):

Quintana Road Drainage No. 64 Extension

The revision or amendment described below to the work originally or previously specified is hereby requested, including all changes in costs. (Describe work to be added or deleted. Attach revised plan sheet affected or drawings as required):

RECAPITULATION OF CITY OF SAN ANTONIO PUBLIC WORKS CONTRACT QUANTITIES DEDUCT \$736,319.49

Justification for proposed alteration (description in detail as to why this work is to be added or deleted - use attachments if necessary):

REFLECTS VARIATIONS OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

Resulting change in contract cost by this Field Alteration: \$736,319.49 ☐ Increase ☒ Decrease (attach summary)

Resulting in an: ☐ Increase ☐ Working Day
☐ Decrease ☐ Calendar Day (To be negotiated by the Contractor and the City.)

Requested by:

City of San Antonio Public Works
City, Consulting Engineer/Architect, Other
(Please Specify)

By: [Signature] Date: 8/14/03
Title: [Signature]
Firm: Laughlin Environmental, Inc.
Contractor (type in full name)

Recommended



Donald L. White, PE Date: 8/8/03
Consultant (Project Engr/Arch Only)
Firm: Fernandez, Frazer, White & Associates, Inc.

Samuel Hutchins IV, P.E. Date: 8/18/03
Project Manager

Others: (If required; i.e., City Dept., S.A.W.S., etc.) Date: 8/14/03
Walter E. Childs Date: 8/14/03
Construction Inspections Manager

Razi Hosseini Date: 8/13/03
Assistant City Engineer

William E. Krause Date: 8/13/03
Capital Programs Manager

Douglas W. Yerkes, Ph.D., P.E. Date: 8/13/03
City Engineer

APPROVED:

Terry M. Brechtel Date: 8/13/03
City Manager

Thomas G. Wendorf, P.E. Date: 8/13/03
Director of Public Works

FOR CITY USE ONLY:

Professional Services Fees for this Field Alterations are ☐ eligible ☐ ineligible

Original Contract Amt. \$ 12,804,936.20
Previous Approved FAs \$ 2,222,000.00
This Field Alteration \$ (2,222,000.00)
Total \$ 8,360,936.20

Const. Contg. Fund \$
Previous Approved FA \$
This Field Alteration \$
Total Field Alterations \$
Balance \$

2003 29912 6-10-99

FIELD ALTERATION NO 19 - CITY OF SAN ANTONIO PROJECT RECAPITULATION
 PROJECT: QUINTANA ROAD DRAINAGE NO. 64, EXTENSION
 CITY OF SAN ANTONIO STREET AND DRAINAGE
 CONTRACTOR: LAUGHLIN ENVIRONMENTAL, INC.
 ENGINEER: FERNANDEZ FRAZER WHITE & ASSOC., INC. 11824 RADIUM, SAN ANTONIO, TX 78316, (210) 377-0774
 DATE: July 11, 2003

RECAPITULATION OF CITY OF SAN ANTONIO BASE CONTRACT SHOWING VARIATION
 OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
100	MOBILIZATION	L.S.	1	1	\$478,148.73	\$0.00
100.1	INSURANCE AND BOND	L.S.	1	1	\$280,000.00	\$0.00
101	PREPARING RIGHT OF WAY	L.S.	1	1	\$230,050.00	\$0.00
103.1	REMOVE CONCRETE CURB	L.F.	14600	11160	\$1.07	-\$3,680.80
103.2	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS	S.F.	81500	37106	\$0.32	-\$14,206.08
104	STREET EXCAVATION	C.Y.	25090	25841.28	\$10.70	\$8,038.70
106	BOX CULVERT EXCAVATION & BACKFILL (McLAUGHLIN AND BYNUM AVE.)	C.Y.	73,189	75556.42	\$10.70	\$25,331.39
106	BOX CULVERT EXCAVATION & BACKFILL (QUINTANA RD - 8' X 7' BOX CULVERT)	C.Y.	1,422	1088.89	\$10.70	-\$3,564.28
106	BOX CULVERT EXCAVATION & BACKFILL (4' X 2' BOX CULVERT)	C.Y.	4,029	4092.28	\$10.70	\$677.10
107	EMBANKMENT	C.Y.	670	670	\$10.70	\$0.00
108.1	LIME TREAT. SUBGRADE	S.Y.	45473	43259.97	\$1.18	-\$2,611.38
108.2	LIME	TON	455	442.66	\$90.95	-\$1,122.32
203	TACK COAT	GAL.	4020	5166.24	\$1.87	\$2,143.47
205.1	HOT MIX ASPHALTIC PAVEMENT, TYPE B	S.Y.	13010	11910.81	\$6.40	-\$7,034.82
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE D	S.Y.	40200	40785.79	\$3.94	\$2,308.01
206	ASPHALT TREATED BASE (4" THICK - ALLEYS)	S.Y.	5,270	5270	\$10.65	\$0.00
206	ASPHALT TREATED BASE (5" THICK)	S.Y.	30390	29616.11	\$12.57	-\$9,727.80
206	ASPHALT TREATED BASE (7" THICK)	S.Y.	15083	12901.57	\$17.12	-\$37,346.08
300.1	CONCRETE CLASS "A" (INLETS)	C.Y.	125	124.17	\$454.75	-\$377.44
300.1	CONCRETE CLASS "A" (JUNCTION BOXES)	C.Y.	61	60.05	\$454.75	-\$432.01
300.1	CONCRETE CLASS "A" (DRIVEWAY RETAINING WALL)	C.Y.	200	0	\$454.75	-\$90,950.00
300.1	CONCRETE CLASS "A" (PLUG)	C.Y.	17	5.72	\$454.75	-\$5,129.58
300.1	CONCRETE CLASS "H" (CULVERTS)	C.Y.	428.00	76.84	\$856.00	-\$300,592.96
300.1	CONCRETE CLASS "A" (4 WAY INLET)	C.Y.	4.82	5.21	\$749.00	\$292.11
301	REINFORCING STEEL	LBS.	99800	38381.47	\$0.43	-\$26,409.97
306	STRUCTURAL EXCAVATION	C.Y.	1370	1058.99	\$6.42	-\$1,996.68
309	4 X 2 PRECAST REINFORCED CONC. BOX CULVERT	L.F.	1163	1179.31	\$166.92	\$2,722.47
309	8 X 7 PRECAST REINFORCED CONC. BOX CULVERT	L.F.	342	321.46	\$652.70	-\$13,406.46
309	10 X 10 PRECAST REINFORCED CONC. BOX CULVERT	L.F.	1315	1341	\$920.20	\$23,925.20
309	11 X 10 PRECAST REINFORCED CONC. BOX CULVERT	L.F.	2374	2418	\$1,128.85	\$49,669.40
401.1	24" STORM DRAINAGE PIPE, RCP, LATERALS	L.F.	350	362.32	\$169.06	\$2,082.82
401.1	30" STORM DRAINAGE PIPE, RCP, LATERALS	L.F.	12	12	\$178.69	\$0.00
401.1	36" STORM DRAINAGE PIPE, RCP, LATERALS	L.F.	13	11.84	\$192.60	-\$223.42
401.1	24" STORM DRAINAGE PIPE, RCP, BENDS	EA.	5	5	\$2,140.00	\$0.00
401.1	24" STORM DRAINAGE PIPE, RCP, (0'-6")	L.F.	20	0	\$83.46	-\$1,669.20
401.1	24" STORM DRAINAGE PIPE, RCP, (6'-8")	L.F.	897	787.87	\$83.46	-\$9,107.99
401.1	24" STORM DRAINAGE PIPE, RCP, (8'-10")	L.F.	419	456.94	\$83.46	\$3,166.47
401.1	30" STORM DRAINAGE PIPE, RCP, (6'-8")	L.F.	149	288.49	\$93.09	\$12,985.12

RECAPITULATION OF CITY OF SAN ANTONIO BASE CONTRACT SHOWING VARIATION
OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
401.1	30" STORM DRAINAGE PIPE, RCP, (8'-10')	L.F.	598	461.43	\$93.09	-\$12,713.30
401.1	36" STORM DRAINAGE PIPE, RCP, (12'-14')	L.F.	68	80	\$119.84	\$1,438.08
401.1	36" STORM DRAINAGE PIPE, RCP, (14'-16')	L.F.	10	0	\$119.84	-\$1,198.40
401.1	72" STORM DRAINAGE PIPE, RCP, (16'-18')	L.F.	6	6.48	\$310.30	\$148.94
401.1	72" STORM DRAINAGE PIPE, RCP, (18'-20')	L.F.	13	8.77	\$310.30	-\$1,312.57
401.1	72" STORM DRAINAGE PIPE, RCP, (20'-22')	L.F.	10	2.75	\$342.40	-\$2,482.40
401.1	72" STORM DRAINAGE PIPE, RCP, (22'-24')	L.F.	22	63.72	\$342.40	\$14,284.93
401.1	72" STORM DRAINAGE PIPE, RCP, (24'-26')	L.F.	50	8.28	\$395.90	-\$16,516.95
401.1	84" STORM DRAINAGE PIPE, RCP, (22'-24')	L.F.	84	93.1	\$428.00	\$3,894.80
401.2	22"X13" STORM DRAINAGE PIPE, CSAP, LATERALS	L.F.	12	0	\$133.75	-\$1,605.00
403.13	STORM SEWER MANHOLES & J.B., STAGE II CONSTRUCTION	V.F.	93	93.99	\$224.70	\$222.45
403.14	STORM J.B. STAGE II (5' X 5')	V.F.	67	67	\$246.10	\$0.00
403.14	STORM J.B. STAGE II (6' X 6')	V.F.	21	20.5	\$246.10	-\$123.05
407.4	CONCRETE COLLAR (DRAINAGE)	C.Y.	10	14.33	\$508.25	\$2,200.72
409	CAST IRON CASTINGS	LBS.	14040	13520	\$1.07	-\$556.40
410.2	GRAVEL SUBGRADE FILLER (DRAINAGE)	C.Y.	3070	381.32	\$11.77	-\$31,645.76
501	MACHINE LAID CURB	L.F.	20194	21218	\$5.00	\$5,120.00
502.1	CONCRETE SIDEWALKS	S.Y.	7780	6617.3	\$20.00	-\$23,254.00
502.2	CONCRETE DRIVEWAYS	S.Y.	4200	5335.6	\$25.00	\$28,390.00
502.3	COMERCIAL DRIVEWAYS	S.Y.	1595	1875.08	\$30.00	\$8,402.40
503.1	ASPHALTIC CONCRETE DRIVEWAYS	S.Y.	766	291.62	\$28.00	-\$13,282.64
503.2	GRAVEL DRIVEWAYS	S.Y.	752	639.84	\$20.00	-\$2,243.20
504	CONCRETE MEDIANS AND ISLANDS	S.Y.	402	320.65	\$25.00	-\$2,033.75
505	CONCRETE RIPRAP (5" THICK)	S.Y.	100	58.11	\$50.00	-\$2,094.50
506	CONCRETE RETAINING WALLS (COMBINATION)	C.Y.	200	127.53	\$450.00	-\$32,611.50
507.1	CHAIN LINK WIRE FENCE (4 FT. HIGH)	L.F.	724	1056	\$9.50	\$3,154.00
507.4	GATES - PEDESTRIAN	EA.	35	13	\$90.00	-\$1,980.00
507.5	GATES VEHICULAR	OPEN.	18	49	\$200.00	\$6,200.00
507.6	METAL FENCE WITH BRICK COLUMNS	L.F.	68	0	\$56.00	-\$3,808.00
508	RELOCATING WIRE FENCE	L.F.	245	76	\$12.00	-\$2,028.00
510	TIMBER GUARD POSTS	EA.	4	0	\$76.00	-\$304.00
511.3	REPLACING ASPHALT TREATED BASE & PAVEMENT, 7" DEPTH	S.Y.	280	50	\$53.50	-\$12,305.00
513.1	REMOVING AND RELOCATING MAILBOXES	EA.	76	93	\$80.25	\$1,364.25
513.3	BRICK MAILBOX	EA.	1	0	\$214.00	-\$214.00
515	TOPSOIL	C.Y.	1733	1041.88	\$17.00	-\$11,749.04
516.1	BERMUDA SODDING	S.Y.	15752	9616.28	\$5.08	-\$31,169.46
523.1	ADJUSTING VEHICULAR GATES	OPEN.	57	20	\$251.45	-\$9,303.65
523.2	ADJUSTING PEDESTRIAN GATES	EA.	43	11	\$197.95	-\$6,334.40
524	CONCRETE STEPS	C.Y.	24	3.81	\$197.95	-\$3,996.61
530	BARRICADES, SIGNS, AND TRAFFIC HANDLING	MO.	24	24	\$1,605.00	\$0.00
531.03	R1-1 STOP	EA.	29	29	\$160.50	\$0.00
531.04	R1-2 YIELD	EA.	1	0	\$165.85	-\$165.85
531.06	R2-1 SPEED LIMIT	EA.	2	2	\$149.80	\$0.00
531.17	R4-7 KEEP RIGHT	EA.	4	4	\$144.45	\$0.00
531.18	R5-1 DO NOT ENTER	EA.	2	2	\$165.85	\$0.00
531.19	R6-1 ONE WAY	EA.	2	2	\$149.80	\$0.00

RECAPITULATION OF CITY OF SAN ANTONIO BASE CONTRACT SHOWING VARIATION
OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
531.34	S1-1 ADVANCE SCHOOL CROSSING	EA.	3	0	\$165.85	-\$497.55
531.35	S2-1 SCHOOL CROSSING	EA.	2	0	\$165.85	-\$331.70
531.36	S4-1 SCHOOL SPEED LIMIT	EA.	3	0	\$171.20	-\$513.60
531.37	W1-1 TURN	EA.	3	3	\$160.50	\$0.00
531.38	W1-2 CURVE	EA.	1	1	\$165.85	\$0.00
531.45	W1-8 CHEVERON ALIGNMENT	EA.	13	13	\$144.45	\$0.00
531.54	W13-1 ADVISORY SPEED	EA.	3	3	\$48.15	\$0.00
531.59	D-3 9 INCH STREET NAME	EA.	20	20	\$107.00	\$0.00
531.60	SPECIAL: D-3 10 INCH STREET NAME	EA.	16	16	\$107.00	\$0.00
535A	4" WIDE YELLOW LINE	L.F.	2784	0	\$0.91	-\$2,533.44
535B	4" WIDE WHITE LINE	L.F.	936	0	\$0.91	-\$851.76
535F	16" WIDE WHITE LINE	L.F.	70	0	\$3.64	-\$254.80
535X	6" X 6" (H X W) CURB YELLOW PAINT	L.F.	790	0	\$0.54	-\$426.60
541	CURB INLET GRAVEL FILTER	L.F.	767	130	\$8.56	-\$5,452.72
546	GRAVEL FILTER BAG	L.F.	40	0	\$42.80	-\$1,712.00
550	TRENCH EXCAVATION SAFETY PROTECTION (DRAINAGE, 0'-15')	L.F.	3850	3614.63	\$1.07	-\$251.85
550	TRENCH EXCAVATION SAFETY PROTECTION (DRAINAGE, >15')	L.F.	4450	4521.55	\$1.07	\$76.56
710	TEMPORARY PEDESTRIAN BRIDGES	L.F.	50	0	\$107.00	-\$5,350.00
800A	CONTAMINATED GROUND WATER, (0 - 30,000)	GAL.	30000	30000	\$0.50	\$0.00
800A	CONTAMINATED GROUND WATER, (OVER 30,000)	GAL.	300000	935620	\$0.04	\$25,424.80
800B	CONTAMINATED TRAPPED WATER	GAL.	420000	186980	\$0.04	-\$9,320.80
800C	CONTAMINATED SOIL IN THE GROUNDWATER ZONE (NON-HAZARDOUS CLASS II)	MTCY	49800	0	\$11.00	-\$547,800.00
800D	CONTAMINATED SOIL IN THE GROUNDWATER ZONE (NON-HAZARDOUS CLASS I)	MTCY	50	0	\$50.75	-\$2,537.50
800E	CONTAMINATED SOIL IN THE GROUNDWATER ZONE (HAZARDOUS)	MTCY	20	0	\$200.00	-\$4,000.00
800F	CONTAMINATED SOIL ABOVE THE WATER BEARING STRATA (NON-HAZARDOUS CLASS II)	MTCY	5000	0	\$12.00	-\$60,000.00
800G	CONTAMINATED SOIL ABOVE THE WATER BEARING STRATA (NON-HAZARDOUS CLASS I)	MTCY	500	0	\$51.75	-\$25,875.00
800H	CONTAMINATED SOIL ABOVE THE WATER BEARING STRATA (HAZARDOUS)	MTCY	100	0	\$200.00	-\$20,000.00
800I	SUSPECT SOIL ABOVE THE WATER BEARING STRATA	MTCY	10000	0	\$3.00	-\$30,000.00
801A	PROTECTIVE BARRIER	S.F.	86934	0	\$21.40	-\$1,860,387.60
801B	CONDUIT BOOT, LESS THAN 18" DIA.	EA.	4	0	\$2,675.00	-\$10,700.00
801B	CONDUIT BOOT, 18" DIA. AND LARGER	EA.	2	0	\$4,012.50	-\$8,025.00
802	FLOWABLE FILL	C.Y.	2040	1866.67	\$74.90	-\$12,982.42
804	IMPORTED SECONDARY BACKFILL	C.Y.	6,750	0	\$8.56	-\$57,780.00
805	ADJUSTING CARPORT	EA.	4	0	\$5,350.00	-\$21,400.00
TOTAL CHANGE IN COSA BASE CONTRACT						-\$3,211,940.83
TOTAL CHANGE IN COSA FIELD ALTERATIONS						\$2,475,621.34
TOTAL CHANGE IN COSA CONTRACT						-\$736,319.49

FIELD ALTERATION NO 19 - CITY OF SAN ANTONIO PROJECT RECAPITULATION
 PROJECT: QUINTANA ROAD DRAINAGE NO. 64, EXTENSION
 CITY OF SAN ANTONIO STREET AND DRAINAGE
 CONTRACTOR: LAUGHLIN ENVIRONMENTAL, INC.
 ENGINEER: FERNANDEZ FRAZER WHITE & ASSOC., INC. 11824 RADIUM, SAN ANTONIO, TX 78316, (210) 377-0774
 DATE: July 11, 2003
 DENOTES ORIGINAL QUANTITY REDUCED BY FIELD ALTERATION

RECAPITULATION OF CITY OF SAN ANTONIO FIELD ALTERATIONS SHOWING VARIATION
 OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
FIELD ALTERATION NO. 1						
DELETE						
300H	Concrete Class "H" Culverts	C.Y.	-179.06	0	\$856.00	\$153,275.36
301	Reinforcing Steel	LBS.	-29428	0	\$0.43	\$12,654.04
410.2	Gravel Subgrade Filler	C.Y.	-2447	0	\$11.77	\$28,801.19
800C	Contaminated Soil in Ground Water Zone (Non-Hazardous Cl II)	MTCT	-49800	0	\$11.00	\$547,800.00
801A	Protective Barrier	S.F.	-86934	0	\$21.40	\$1,860,387.60
801B	Conduit Boot, Less than 18" Diameter	EA.	-4	0	\$2,675.00	\$10,700.00
801B	Conduit Boot, 18" Diameter and Larger	EA.	-2	0	\$4,012.50	\$8,025.00
ADD						
309.1	11X10 Precast Box Culvert at Curves	L.F.	105.1	121	\$1,255.27	\$19,958.79
800.C1	CONTAMINATED SOIL IN THE GROUNDWATER ZONE (NON-HAZARDOUS CLASS II), with In-Situ sampling	MTCY	49800	22447	\$8.00	-\$218,824.00
800J	Disposal of Clean Soil at Kelly AFB	T.C.Y.	5	14858	\$5.00	\$74,265.00
810	Sand Cement Bedding	L.F.	3886	3880	\$7.41	-\$44.46
811	Clay Protective Barrier	L.F.	3886	3880	\$77.20	-\$463.20
900	Value Engineering	L.S.	1	1	\$710,600.40	\$0.00
TOTAL CHANGE, FIELD ALTERATION 1						\$2,496,535.32

FIELD ALTERATION NO. 2 WATER ON Mc LAUGHLAN

1	12" DI Pipe, in open trench	L.F.	63	63	\$40.73	\$0.00
1	8" DI Pipe, in open trench	L.F.	2323	2323	\$34.72	\$0.00
1	6" DI Pipe, in open trench	L.F.	10	10	\$26.89	\$0.00
2	8" Mueller Resilient Gate Valve	EA.	7	7	\$1,041.11	\$0.00
2	6" Mueller Resilient Gate Valve	EA.	1	1	\$780.03	\$0.00
4	Standard Fire Hydrant, Complete	EA.	4	4	\$1,926.00	\$0.00
6	2" Blowoff Assembly, Temporary	EA.	2	2	\$963.00	\$0.00
7	Ductile Iron Fittings, all sizes and types	TON	3.15	3.15	\$3,424.00	\$0.00
8	Valve Box, adjust	EA.	12	12	\$267.50	\$0.00
9	12" Tie-in	EA.	2	2	\$2,140.00	\$0.00
9	8" Tie-in	EA.	6	6	\$1,819.00	\$0.00
9	6" Tie-in	EA.	1	1	\$1,498.00	\$0.00
10	Relay 3/4" Short Service	EA.	31	31	\$401.25	\$0.00
10	Relay 3/4" Long Service	EA.	33	33	\$588.50	\$0.00
12	Relocate Meter	EA.	5	5	\$267.50	\$0.00
14	Hydrostatic Pressure Test	EA.	2	2	\$802.50	\$0.00
15	Trench Excavation Protection	L.F.	2396	2396	\$1.61	\$0.00
16	Cut and Replace Pavement with 6" Asphalt Treated Base	S.Y.	540	540	\$33.71	\$0.00
TOTAL CHANGE, FIELD ALTERATION 2						\$0.00

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
FIELD ALTERATION NO. 3						
	Temporary Fencing	MO.	15	13	\$633.33	-\$1,266.66
	OSHA Training	L.S.	1	1	\$2,100.00	\$0.00
	TOTAL CHANGE, FIELD ALTERATION 3					-\$1,266.66
FIELD ALTERATION NO. 4						
509	Metal Beam Guard Rail	L.F.	75	75	\$37.45	\$0.00
800J	Disposal of clean soil at cove gardens	C.Y.	6300	6300	\$8.00	\$0.00
	TOTAL CHANGE, FIELD ALTERATION 4					\$0.00
FIELD ALTERATION NO. 6 KING LANDFILL						
DELETE						
108.1	Lime Treatment for Subgrade	S.Y.	-1250	0	\$1.18	\$1,475.00
108.2	LIME	TON	-12.5	0	\$90.95	\$1,136.88
206	ASPHALT TREATED BASE, 5" THICK	S.Y.	-1250	0	\$12.57	\$15,712.50
ADD						
800F	CONTAMINATED SOIL, NON HAZARDOUS CLASS II	C.Y.	1735	1735	\$16.68	\$0.00
804	IMPORTED BACKFILL	C.Y.	871	871	\$12.00	\$0.00
206	ASPHALT TREATED BASE, 8" THICK	S.Y.	1250	1250	\$18.30	\$0.00
	TOTAL CHANGE FIELD ALTERATION 6					\$18,324.38
FIELD ALTERATION NO. 7 REMOVE STORM DRAIN ON QUINTANA						
	Remove Storm Drain	L.F.	1600	1600	\$16.03	\$0.00
FIELD ALTERATION NO. 10 DELAY CONSTRUCTION OF KING						
	Delay Construction of King	DAY	18	18	\$2,415.00	\$0.00
FIELD ALTERATION NO. 11 BMWWD / KING LANDFILL						
	Install 6" DI	L.F.	240	240	\$14.36	\$0.00
	6" tie in	EA.	12	4	\$391.00	-\$3,128.00
	6" cross	EA.	1	1	\$490.00	\$0.00
	bonds & insurance	EA.	1	0.637476	\$431.42	-\$156.40
	o/h & profit	EA.	1	0.637476	\$905.98	-\$328.44
	TOTAL FIELD ALTERATION 11					-\$3,612.84
FIELD ALTERATION NO. 12 BMWWD HYDROSTATIC TESTING / KING LANDFILL						
DELETE						
	Install 6" Tie in	EA.	-8	0	\$391.00	\$3,128.00
ADD						

RECAPITULATION OF CITY OF SAN ANTONIO FIELD ALTERATIONS SHOWING VARIATION
OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
	2" blowoff assembly, temporary	EA.	4	4	\$1,100.00	\$0.00
	6" tie in	EA.	4	4	\$1,750.00	\$0.00
	hydrostatic pressure test	EA.	1	1	\$500.00	\$0.00
	bonds & insurance	EA.	1	1	\$595.00	\$0.00
	o/h & profit	EA.	1	1	\$1,249.50	\$0.00
	TOTAL FIELD ALTERNATION 12					\$3,128.00

FIELD ALTERATION NO. 13 ADDITIONAL BARRICADE MONTHS, BASE CONTRACT

Months	Mo.	4	4	\$1,605.00	\$0.00
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FIELD ALTERATION NO. 14 ADDITIONAL BARRICADE MONTHS, KING & MAYFIELD - HOLDER

King - Additional Barricade Months	Mo.	4	4	\$1,605.00	\$0.00
Mayfield/Holder - Additional Barricade Months	Mo.	1	1	\$800.00	\$0.00
TOTAL FIELD ALTERNATION 14					\$0.00

FIELD ALTERATION NO. 15 Move Moursund Road Material

Removal, Transportation and disposal of Class II material	L.S.	1	1	\$12,250.00	\$0.00
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FIELD ALTERATION NO. 16 ADJUST KING / LINDEMEN INTERSECTION

Adjust J.B. top, subgrade, base	L.S.	1	1	\$5,500.00	\$0.00
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FIELD ALTERATION NO. 17 TRAFFIC BUTTONS / BYNUM

DELETE

534A	4" Wide Yellow Line	L.F.	-2784	0	\$0.91	\$2,533.44
535B	4" Wide White Line	L.F.	-936	0	\$0.91	\$851.76
535F	16" Wide White Line	L.F.	-70	0	\$3.64	\$254.80
535X	6" X 6" (H X W) Curb Yellow Paint	L.F.	-790	0	\$0.54	\$426.60

ADD

spec	4" Wide machine applied marking, yellow	L.F.	2800	2800	\$0.91	\$0.00
spec	4" Wide machine applied marking, white	L.F.	1070	1070	\$0.91	\$0.00
spec	16" Wide white line	L.F.	70	0	\$2.89	-\$202.30
spec	Left white arrow paint marking	EA.	1	1	\$69.30	\$0.00
spec	Word "ONLY" Paint marking	EA.	1	1	\$114.79	\$0.00
537.1	Traffic Button (Type W)	EA.	420	420	\$2.31	\$0.00
537.2	Traffic Button (Type Y)	EA.	610	610	\$2.31	\$0.00
537.13	Pavement Marker (Type I-C)	EA.	110	110	\$5.48	\$0.00
537.15	Pavement Marker (Type II-A)	EA.	100	100	\$5.48	\$0.00

TOTAL FIELD ALTERATION 17

\$3,864.30

RECAPITULATION OF CITY OF SAN ANTONIO FIELD ALTERATIONS SHOWING VARIATION
OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
FIELD ALTERATION NO. 18 REMOVE TREES ON KING ST.						
	Remove dead trees and trees in conflict with rewoaled sidewalk	L.S.	1	1	\$4,312.50	\$0.00
FIELD ALTERATION NO. 5, KING STREET						
100	MOBILIZATION	L.S.	1	1	\$74,900.00	\$0.00
100.1	INSURANCE AND BOND	L.S.	1	1	\$28,000.00	\$0.00
101	PREPARATION OF RIGHT-OF-WAY	L.S.	1	1	\$29,960.00	\$0.00
103.1	REMOVE CONCRETE CURB	L.F.	140	168	\$1.10	\$30.80
103.2	REMOVE SIDEWALKS AND DRIVEWAYS	S.F.	9,022	3726	\$0.32	-\$1,694.72
104	STREET EXCAVATION	C.Y.	8,850	8850	\$10.70	\$0.00
108.1	LIME TREATMENT FOR SUBGRADE (6" COMPACTED DEPTH)	S.Y.	12,931	11644.03	\$1.91	-\$2,458.11
108.2	LIME	TON	130	116.41	\$93.50	-\$1,270.67
203	TACK COAT	GAL.	1,293	1162.17	\$1.87	-\$244.65
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE D, 1 1/2" DEPTH	S.Y.	11,609	11621.85	\$3.94	\$50.63
206	ASPHALTIC TREATED BASE (5" COMPACTED DEPTH)	S.Y.	12,931	13428.83	\$12.57	\$6,257.72
300.1	CONCRETE CLASS "A" (JUNCTION BOXES)	C.Y.	89	99.16	\$454.75	\$4,620.26
300.1	CONCRETE CLASS "A" (INLETS, TYPE "C")	C.Y.	42.4	42.36	\$454.75	-\$18.19
300.1	CONCRETE CLASS "A" (DRIVEWAY RETAINING WALLS)	C.Y.	20	0	\$500.00	-\$10,000.00
301	REINFORCING STEEL	LB	25,881	26622	\$0.43	\$318.63
306	STRUCTURAL EXCAVATION	C.Y.	872	803.32	\$10.70	-\$734.88
401.1	24" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", LATERAL	L.F.	171	170.2	\$84.53	-\$67.62
401.1	24" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (12'-14')	L.F.	9	0	\$87.74	-\$789.66
401.1	24" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (14'-16')	L.F.	136	72	\$87.74	-\$5,615.36
401.1	30" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (16'-18')	L.F.	30	40	\$96.30	\$963.00
401.1	30" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (18'-20')	L.F.	5	0	\$96.30	-\$481.50
401.1	36" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (10'-12')	L.F.	79	73.11	\$114.49	-\$674.35
401.1	36" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (12'-14')	L.F.	230	230	\$114.49	\$0.00
401.1	36" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (14'-16')	L.F.	20	0	\$114.49	-\$2,289.80
401.1	36" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (16'-18')	L.F.	35	56	\$114.49	\$2,404.29
401.1	42" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (12'-14')	L.F.	209	220.4	\$162.64	\$1,854.10
401.1	42" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (14'-16')	L.F.	146	135.22	\$162.64	-\$1,753.26
401.1	42" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (16'-18')	L.F.	10	8.67	\$162.64	-\$216.31
401.1	48" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (14'-16')	L.F.	20	0	\$154.08	-\$3,081.60
401.1	48" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (16'-18')	L.F.	563	682.01	\$154.08	\$18,337.06
401.1	48" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (18'-20')	L.F.	100	0	\$154.08	-\$15,408.00
401.1	54" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (16'-18')	L.F.	399	438.45	\$208.65	\$8,231.24
401.1	54" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (18'-20')	L.F.	40	0	\$208.65	-\$8,346.00
401.1	66" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (18'-20')	L.F.	224	229.16	\$277.13	\$1,429.99
401.1	66" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (20'-22')	L.F.	308	302.3	\$277.13	-\$1,579.64
401.1	72" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (20'-22')	L.F.	143	85.94	\$329.56	-\$18,804.69
401.1	72" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (22'-24')	L.F.	240	88.22	\$329.56	-\$50,020.62
401.1	72" STORM DRAINAGE PIPE, R.C.P., "D-LOAD", (24'-26')	L.F.	55	263.84	\$329.56	\$68,825.31
401.3	24" STORM DRAINAGE PIPE, BEND, "D-LOAD", R.C.P.	EA.	12	12	\$2,140.00	\$0.00
403.13	STORM SEWER MANHOLES (STAGE II CONSTRUCTION)	V.F.	103	98.36	\$224.70	-\$1,042.61
407.4	CONCRETE COLLAR	C.Y.	6	1.04	\$508.25	-\$2,520.92

RECAPITULATION OF CITY OF SAN ANTONIO FIELD ALTERATIONS SHOWING VARIATION
OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
409	CAST IRON CASTINGS	LB	6240	6240	\$1.07	\$0.00
410.2	GRAVEL SUBGRADE FILLER	CY.	450	342.19	\$10.70	-\$1,153.57
501	MACHINE LAID CURB	L.F.	5784	5827	\$5.25	\$225.75
502.1	CONCRETE SIDEWALKS	S.Y.	2380	2121.11	\$20.57	-\$5,325.37
502.2	CONCRETE DRIVEWAY	S.Y.	1481	2073.47	\$25.68	\$15,214.63
503.1	ASPHALT DRIVEWAY	S.Y.	272	0	\$28.76	-\$7,822.72
503.2	GRAVEL DRIVEWAY	S.Y.	345	345	\$20.57	\$0.00
506.1	CONCRETE RETAINING WALL COMBINATION TYPE	C.Y.	70	70.51	\$525.00	\$267.75
507.1	CHAIN LINK WIRE FENCE, 4 FEET	L.F.	575	499	\$9.50	-\$722.00
507.4	GATES, PEDESTRIAN	EA.	21	12	\$115.00	-\$1,035.00
507.5	GATES, VEHICULAR	OPEN.	21	42	\$250.00	\$5,250.00
508	RELOCATING WIRE FENCE	L.F.	260	250	\$12.00	-\$120.00
508	RELOCATING WIRE & TILE FENCE (803 KING)	L.F.	40	0	\$25.00	-\$1,000.00
508	RELOCATING WIRE FENCE AND CURB (831 KING)	L.F.	40	0	\$25.00	-\$1,000.00
513.1	REMOVE / RELOCATE MAIL BOX	EA.	55	66	\$125.00	\$1,375.00
513.1	REMOVE / RELOCATE BRICK MAIL BOX (803 KING)	EA.	1	1	\$450.00	\$0.00
515	TOPSOIL	C.Y.	366	236.93	\$17.00	-\$2,194.19
516.2	SODDING, ST. AUGUSTINE	S.Y.	3324	2154.86	\$5.08	-\$5,939.23
523.1	ADJUSTING VEHICULAR GATES	OPEN.	19	9	\$251.45	-\$2,514.50
523.2	ADJUSTING PEDESTRIAN GATES	EA.	21	10	\$197.95	-\$2,177.45
523.3	ADJUSTING SLIDING IRON VEHICULAR GATES (914 KING)	OPEN.	1	3	\$3,000.00	\$6,000.00
524	CONCRETE STEPS	C.Y.	10	8.63	\$275.00	-\$376.75
530	BARRICADES, SIGNS & TRAFFIC HANDLING	MONTH	11	11	\$1,605.00	\$0.00
531.03	R1-1 STOP	EA.	13	11	\$160.50	-\$321.00
531.21	R7-1 NO PARKING SIGN	EA.	4	2	\$149.50	-\$299.00
531.59	D-3 9 INCH STREET NAME	EA.	12	12	\$107.00	\$0.00
541	CURB INLET GRAVEL FILTER	L.F.	228	60	\$8.56	-\$1,438.08
546	GRAVEL FILTER BAGES	L.F.	36	0	\$42.80	-\$1,540.80
550	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	3030	3072.92	\$1.07	\$45.92
TOTAL FIELD ALTERATION 5						-\$22,390.72

FIELD ALTERATION NO. 8, MAYFIELD - HOLDER

100	MOBILIZATION	L.S.	1	1	\$13,318.00	\$0.00
100.1	INSURANCE AND BOND	L.S.	1	1	\$3,620.00	\$0.00
101	PREPARATION OF RIGHT-OF-WAY	L.S.	1	1	\$6,659.00	\$0.00
103.2	REMOVE SIDEWALKS AND DRIVEWAYS	S.F.	2,000	2105.26	\$0.32	\$33.68
104	STREET EXCAVATION	C.Y.	1,424	1424	\$10.70	\$0.00
107	EMBANKMENT	C.Y.	3	3	\$10.70	\$0.00
108.1	LIME TREATMENT FOR SUBGRADE (6" COMPACTED DEPTH)	S.Y.	2,700	2752.2	\$1.91	\$99.70
108.2	LIME	TON	27	27.52	\$93.50	\$48.62
203	TACK COAT	GAL.	210	237.92	\$1.87	\$52.21
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE D, 1 1/2" DEPTH	S.Y.	2,070	2535.35	\$3.94	\$1,833.48
206	ASPHALTIC TREATED BASE (5" COMPACTED DEPTH)	S.Y.	2,375	2535.35	\$12.57	\$2,015.60
230.1	REPLACE BASE & PVMT W/ A.T.B. & PVMT, 6 1/2" THICK	S.Y.	360.00	0	\$54.40	-\$19,584.00
300.1	CONCRETE CLASS "A" (DRIVEWAY RETAINING WALLS)	C.Y.	2	0	\$454.75	-\$909.50

RECAPITULATION OF CITY OF SAN ANTONIO FIELD ALTERATIONS SHOWING VARIATION
OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
501	MACHINE LAID CURB	L.F.	1,380	1465	\$5.25	\$446.25
502.1	CONCRETE SIDEWALKS	S.Y.	510	520.79	\$20.57	\$221.95
502.2	CONCRETE DRIVEWAY	S.Y.	420	428.87	\$25.68	\$227.78
502.3	COMMERCIAL DRIVEWAY	S.Y.	40	43.44	\$30.00	\$103.20
503.1	ASPHALTIC CONCRETE DRIVEWAYS	S.Y.	80	0	\$28.76	-\$2,300.80
503.2	GRAVEL DRIVEWAY	S.Y.	40	0	\$20.57	-\$822.80
506.1	CONCRETE RETAINING WALL COMBINATION TYPE	C.Y.	12	12.1	\$525.00	\$52.50
507.1	CHAIN LINK WIRE FENCE, 4 FEET	L.F.	110	252	\$9.50	\$1,349.00
507.4	GATES, PEDESTRIAN	EA.	4	0	\$115.00	-\$460.00
507.5	GATES, VEHICULAR	OPEN.	3	4	\$250.00	\$250.00
507.7	IRON GATE, PEDESTRIAN	EA.	2	0	\$417.00	-\$834.00
507.8	IRON VEHICULAR GATE, 1939 MAYFIELD	OPEN.	1	1	\$702.00	\$0.00
507.8	IRON VEHICULAR GATE, 1931 MAYFIELD	OPEN.	1	1	\$1,127.00	\$0.00
507.8	IRON VEHICULAR GATE, 1919 MAYFIELD	OPEN.	1	1	\$2,105.00	\$0.00
507.8	IRON VEHICULAR GATE, 1930 MAYFIELD	OPEN.	1	0	\$702.00	-\$702.00
507.8	IRON VEHICULAR GATE, 1926 MAYFIELD	OPEN.	1	2	\$1,622.00	\$1,622.00
507.8	IRON VEHICULAR GATE AT WEST DRIVE, 127 PROSPECT	OPEN.	1	1	\$702.00	\$0.00
507.8	IRON VEHICULAR GATE AT EAST DRIVE, 127 PROSPECT	OPEN.	1	1	\$702.00	\$0.00
513.1	REMOVING AND RELOCATING MAILBOX	EA.	6	18	\$90.00	\$1,080.00
515	TOPSOIL	C.Y.	29	30.79	\$17.00	\$30.43
516.2	SODDING, ST. AUGUSTINE	S.Y.	260	280.09	\$5.80	\$116.52
523.1	ADJUSTING VEHICULAR GATES	OPEN.	3	5	\$251.45	\$502.90
523.2	ADJUSTING PEDESTRIAN GATES	EA.	3	1	\$197.95	-\$395.90
523.3	ADJUSTING IRON PEDESTRIAN GATES	EA.	1	0	\$345.00	-\$345.00
524	CONCRETE STEPS	C.Y.	1	0.52	\$275.00	-\$132.00
530	BARRICADES, SIGNS & TRAFFIC HANDLING	MONTH	4	4	\$800.00	\$0.00
531.03	R1-1 STOP	EA.	1	1	\$160.50	\$0.00
531.59	9" STREET NAME	EA.	2	2	\$107.00	\$0.00
546	GRAVEL FILTER BAGS	L.F.	10	0	\$4.60	-\$46.00
TOTAL CHANGE, FIELD ALTERATION 8						-\$16,446.17

FIELD ALTERATION NO. 9. LINDEMAN

100	MOBILIZATION	L.S.	1	1	\$2,220.00	\$0.00
100.1	INSURANCE AND BOND	L.S.	1	1	\$593.29	\$0.00
101	PREPARATION OF RIGHT-OF-WAY	L.S.	1	1	\$1,111.00	\$0.00
104	STREET EXCAVATION	C.Y.	290	290	\$10.70	\$0.00
108.1	LIME TREATMENT FOR SUBGRADE (6" COMPACTED DEPTH)	S.Y.	612	611.9	\$1.91	-\$0.19
108.2	LIME	TON	7	6.11	\$93.50	-\$83.22
203	TACK COAT	GAL.	62	54.66	\$1.87	-\$13.73
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE D, 1 1/2" DEPTH	S.Y.	540	546.66	\$3.94	\$26.24
206	ASPHALTIC TREATED BASE (5" COMPACTED DEPTH)	S.Y.	612	611.9	\$12.57	-\$1.26
300.1	CONCRETE CLASS "A" (DRIVEWAY RETAINING WALLS)	C.Y.	1	0	\$500.00	-\$500.00
501	MACHINE LAID CURB	L.F.	321	328	\$5.25	\$36.75
502.1	CONCRETE SIDEWALKS	S.Y.	120	120.33	\$20.57	\$6.79
502.2	CONCRETE DRIVEWAY	S.Y.	30	47.99	\$25.68	\$461.98

RECAPITULATION OF CITY OF SAN ANTONIO FIELD ALTERATIONS SHOWING VARIATION
OF FINAL QUANTITIES FROM ORIGINAL QUANTITIES

ITEM	DESCRIPTION	UNIT	ORIGINAL QUANTITY	FINAL QUANTITY	UNIT PRICE	CHANGE IN CONTRACT COST
502.3	COMMERCIAL DRIVEWAY	S.Y.	60	44.44	\$30.00	-\$466.80
503.2	GRAVEL DRIVEWAY	S.Y.	20	0	\$20.00	-\$400.00
506.1	CONCRETE RETAINING WALL COMBINATION TYPE	C.Y.	2	1.73	\$525.00	-\$141.75
515	TOPSOIL	C.Y.	30	7.24	\$17.00	-\$386.92
516.2	SODDING, ST. AUGUSTINE	S.Y.	273	65.88	\$5.08	-\$1,052.17
530	BARRICADES, SIGNS & TRAFFIC HANDLING	MONTH	3	3	\$300.00	\$0.00
	TOTAL CHANGE, FIELD ALTERATION 8					-\$2,514.27
	TOTAL CHANGE IN FIELD ALTERATIONS					\$2,475,621.34