

**GENERAL MEETING OF THE BOARD OF DIRECTORS
OF THE
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

RESOLUTION NO. 06-60

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et. seq.* (the "RMA Rules"); and

WHEREAS, Chapter 370 of the Texas Transportation Code authorizes regional mobility authorities to develop projects through the use of comprehensive development agreements ("CDAs"); and

WHEREAS, the CTRMA solicited proposals for the development of 183-A and in Resolution No. 04-43, dated September 8, 2004, the Board of Directors approved of the selection of Hill Country Constructors as the Developer for 183-A, and the CTRMA and Hill Country Constructors subsequently entered into a CDA effective November 29, 2004 for the development of the 183-A Turnpike Project; and

WHEREAS, the work performed under the CDA requires oversight by the General Engineering Consultant retained by the CTRMA (the "GEC"); and

WHEREAS, the CDA includes a process for the consideration and development of potential change orders for aspects or portions of the work performed under the CDA which might warrant adjustment to the Development Price or the contractual deadlines for performance by the Developer; and

WHEREAS, the change order process includes consideration of potential changes or revisions caused by several sources or events, including certain requests for changes by the CTRMA and certain otherwise undiscovered matters affecting the 183-A Project, as well as other items more fully set forth in the CDA; and

WHEREAS, the CDA provides that all change orders be formally agreed to by the CTRMA and the Developer, and that except those involving an amount up to an including \$50,000.00 as set forth in Resolution No. 05-46, dated June 29, 2005, the Board must approve any change order; and


WHEREAS, the CTRMA, the GEC, and the Developer, pursuant to the change order process set forth in the CDA, have determined that construction of a median cable barrier system which will enhance the safety of those traveling on portions of the 183-A Project requires the issuance of Change Order No. 11, as set forth and in accordance with the terms thereof and attached hereto as Attachment "A".

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors approves the execution and issuance of Change Order No. 11 as set forth and in accordance with the terms thereof and attached hereto as Attachment "A"; and

BE IT FURTHER RESOLVED, that Change Order No. 11 is made an attachment to the Contract Documents, as defined in the CDA, as of the date that Change Order No. 11 is fully executed by the CTRMA and the Developer.


Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 25th day of October, 2006.

Submitted and reviewed by:



Tom Nielson
General Counsel for the Central
Texas Regional Mobility Authority

Approved:



Robert E. Tesch
Chairman, Board of Directors
Resolution Number 06-60
Date Passed 10/25/06

-



Central Texas Regional
Mobility Authority

Change Order No. 011 Summary Construct Three Cable Barrier System

Description

Provide design and construction for a three cable barrier system in the median of 183A in lieu of the scoped post and cable system.

Justification

This work was requested to provide a crash worthy barrier system in the median of 183A. Originally scoped was a toll evasion system consisting of a post and single cable. The post and single cable system was not crash worthy. The three cable barrier system will prevent any crossover accident occurring on the main lanes of 183A.

Price

\$ 105,462.00

301 Congress Avenue, Suite 650 Austin, TX 78701

Telephone: (512) 996-9778 / Fax: (512) 996-9784 / www.mobilityauthority.com

Robert E. Tesch, *Chairman* • Lowell H. Lebermann, Jr., *Vice-Chairman* • Robert L. Bennett, Jr., *Treasurer*
Henry H. Gilmore • James H. Mills • David Sinaleton • Johanna Zmud Ph.D. • Mike Heilinenstein, *Executive Director*



Central Texas Regional
Mobility Authority

MEMORANDUM

To: Mike Heiligenstein
Bill Chapman

Date: October 19, 2006

From: Richard Ridings *Richard Ridings*

Subject: Change Order No. 011 – Construct Three Cable Barrier System

Copies: Tom Neilson, Everett Owen, Ron Fagan

This attached Change Order (CO) No. 009 is in the amount of \$ 105,462.00. This change order includes the construction of a three cable barrier system in the median of 183A. This work was requested to provide a crash worthy barrier system in the median of 183A. Originally scoped was a toll evasion system consisting of a post and single cable. The post and single cable system was not crash worthy. The three cable barrier system will prevent any crossover accident occurring on the main lanes of 183A.

The GEC has reviewed the subject CO and recommends approval.

Attached is an update of the Change Order Budget.

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EXHIBIT M

FORM OF CHANGE ORDER

CHANGE ORDER PROPOSAL NO. 011 CONTRACT NO. 183A Turnpike

SECTION 1

Originator: Rich Ginder

Date: September 25, 2006

Title: Toll / Aesthetics Manager

Contract No. 183A Turnpike

Company Name: Hill Country Constructors

DESCRIPTION:

Design and construct a three cable barrier system in the center median between Avery Ranch Road and FM 1431.

Scope:

The original scope of the CDA, Technical Provisions, Section 11.4.10 required designing and installing measures such as fences, ditches, post and cable, and concrete barriers between mainlines and frontage roads, mainline medians, and ground toll plazas to prevent toll evasion. HCC's proposal included a designing and installing a single cable and wood post system to be placed in all locations where there are no concrete barriers, metal beam guard fence, and steep slopes in the medians. Since there are no continuous frontage roads north Avery Ranch Road and south of FM 1431, there is not a need to place toll evasion barriers between the mainline and frontage roads.

The revised scope is to design and install a 3-cable barrier system that is comparable with a recently installed cable barrier system along the center median of Mopac between Braker Lane and Anderson Road. This cable barrier system is to be located only in locations where there is not a concrete barrier or metal beam guard fence along the inside shoulder of either the northbound or southbound lanes.

CAUSE OF CHANGE ORDER REQUEST:

During the development of the bridge substructure aesthetic concept during the winter of 2005, HCC's designers expressed a concern about an unappealing condition with constructing a bent structure for the north side of the FM 1431 bridge for the ultimate exit

ramp. It was undetermined on the duration when the ultimate exit ramp bridge would be constructed. During the Aesthetics Workshop on April 6, 2005 it was determined that the CTRMA will request a change order proposal for the design and construction of the bridge header for the ultimate northbound exit ramp.


Developer Project Manager 9-25-06
Date

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 011

CONTRACT NO. 183A Turnpike

SECTION II

The total amount of this Change Order is \$ 105,462.00. Documentation supporting the Change Order is attached as Exhibits CO.11.1 through CO.11.3.

Payment Schedule Items Added/Deducted:

<u>Activity No.</u>	<u>Description</u>	<u>Amount</u>
A021505	Design of 3-Cable Barrier System	\$ 8,864.00
A021040	Design QA of Ult. Bridge Header	\$ 637.00
B0xxxxx	3-Cable Barrier System	\$ 79,988.00
A011184	Incidentals	\$ 13,190.00
A021030	Construction QA	\$ 2,783.00

Summary of Change Order Proposal by Categories: [Additives/(Credits)]

A.	Developer Labor (construction)	
1.	Wages ¹	\$ 33,293.00
2.	Labor benefits ² (55% of A.1)	\$ 18,311.00
B.	Developer and Subcontractor Labor (professional services)	
1.	Wages ¹ (Raw)	\$ 3,878.00
2.	Labor benefits ² (145% of B.1, which includes overhead and profit)	\$ 5,623.00
3.	Off-duty peace officers and patrol cruisers ¹	\$ 0.00
C.	Materials ¹ (with taxes, freight and discounts)	\$ 45,350.00

¹ Estimated for Negotiated Change Orders or Actual for Force Account Change Orders.

² Premiums on public-liability and workers-compensation insurance, social-Security and unemployment-insurance taxes.

D.	Developer Equipment ¹	\$	16,620.00
E.	Subcontracts ¹ (Time and Materials costs)	\$	(35,540.00)
F.	Utility Direct Costs ¹	\$	0.00
G.	Overhead and Profit		
	1. Labor (25% of A.1 and A.2)	\$	12,901.00
	2. Traffic Control (5% of B.3)	\$	0.00
	3. Materials (15% of C)	\$	6,803.00
	4. Subcontracts (5% of E)	\$	(1,777.00)
	5. Utility Direct Costs (5% of F)	\$	0.00
H.	Grand Total	\$	105,462.00

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 011

CONTRACT NO. 183A Turnpike

SECTION III

The status of Substantial Completion is as follows:

- Unaffected by this Change Order Proposal

The status of Final Acceptance is as follows:

- Unaffected by this Change Order Proposal

Accordingly, the summary of the dates of Substantial Completion and Final Acceptance and Float are as follows:

1. Substantial Completion: Unchanged
(+ or - _____ days from base of _____ calendar days after NTP2)
2. Final Acceptance: Unchanged
(+ or - _____ days from base of _____ calendar days after NTP2)
3. Number of days of Project Float Unchanged

Justification for Change Order with reference to CDA:

CDA Section 14.3 allows Developer to request a change order to increase the development price for increased costs associated with CTRMA-Directed Changes which increase the work to be furnished, performed, or paid for by the developer.

The above three sections represent a true and complete summary of all aspects of this change.

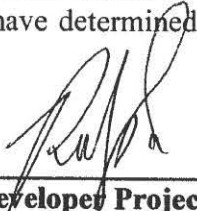

This Change Order Proposal includes all known and anticipated impacts or amounts, direct, indirect and consequential, which may be incurred as a result of the event, occurrence or matter giving rise to the proposed change.

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 011

CONTRACT NO. 183A Turnpike

If the foregoing Change Order Proposal includes claims of Subcontractors or Suppliers, the undersigned have reviewed such claims and have determined in good faith that the claims are justified as to both entitlement and amount.

Developer Project Manager

9-25-06
Date

**CHANGE ORDER
REQUEST**

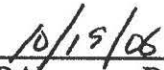
CHANGE ORDER PROPOSAL NO. 011

CONTRACT NO. 183A Turnpike

SECTION IV (Reviewed by GEC Manager)



GEC Team Construction Manager (CDA)



Date

Comments:

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 011

CONTRACT NO. 183A Turnpike

SECTION V (Reviewed by GEC Project General Engineer)

Richard L. Pridgen 10/19/06

Project General Engineer (CDA) **Date**

Comments:

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 011

CONTRACT NO. 183A Turnpike

SECTION Vi (Reviewed by CTRMA's Director of Finance)

ACTION TAKEN:

- Finance Approval** **Attached** **No** **N/A**

Director of Finance

Date

Comments:

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 011

CONTRACT NO. 183A Turnpike

SECTION VII (Approval by CTRMA)

CHANGE ORDER ISSUED: Yes No

CTRMA Executive Director

Date

Comments:

**Exhibit CO.11.1
Cost Breakdown Spreadsheet**

EXHIBIT M - Change Order Request #08

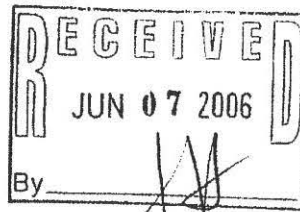
A. DEVELOPER LABOR (CONSTRUCTION)	
1. WAGES	33,293
2. LABOR BENEFITS (55% OF A.1)	18,311
B. DEVELOPER AND SUBCONTRACTOR LABOR (PROFESSIONAL SERVICES)	
1. WAGES	3,878
2. LABOR BENEFITS (145% OF B.1)	5,623
3. OFF-DUTY PEACE OFFICERS AND PATROL CRUISERS	-
C. MATERIALS	45,350
D. EQUIPMENT	16,620
E. SUBCONTRACTS	(35,540)
F. UTILITY DIRECT COSTS	-
G. OVERHEAD & PROFIT	
1. LABOR (25% OF A.1 and A.2)	12,901
2. TRAFFIC CONTROL (5% OF B.3)	-
3. MATERIALS (15% OF C)	6,803
4. SUBCONTRACTS (5% OF E)	(1,777)
5. UTILITY DIRECT COSTS (5% OF F)	-
H. GRAND TOTAL	105,462

US 1. A
Three Cable Barrier System

ITEM	DESCRIPTION	UOM	ORIGINAL QUANTITY	PROPOSED QUANTITY	DELTA	UNIT COST	A.1	B.1	C	D	E	TOTAL
							LABOR	PROF SERV	MATL	EQUIP	SUB	
001	CABLE BARRIER SYSTEM	LF	-	3,730.00	3,730.00	9.35	11,354	-	34,864	7,212	-	53,430
001A	MATERIALS	LF	-	3,730.00	3,730.00	9.35	-	-	34,864	-	-	34,864
001B	EXCAVATE POSTS	EA	-	232.00	232.00	38.59	4,209	-	-	4,745	-	8,954
001C	POSTS	EA	-	232.00	232.00	23.10	4,084	-	-	1,276	-	5,360
001D	SET CABLES	LF	-	3,730.00	3,730.00	1.14	3,061	-	-	1,191	-	4,252
002	CONCRETE FLATWORK	SF	-	7,035	7,035	4.85	16,441	-	8,279	9,408	-	34,128
002A	MATERIALS	SF	-	7,035	7,035	1.18	-	-	8,279	-	-	8,279
002B	EARTHWORK	SF	-	7,035	7,035	1.87	7,160	-	-	5,974	-	13,134
002C	FORM/POUR/STRIP	CY	-	108	108	117.73	9,281	-	-	3,434	-	12,715
003	CREDIT FOR ORIG POST AND CABLE	LF	12,730	-	(12,730)	3.00	-	-	-	-	(38,190)	(38,190)
003A	POST AND CABLE FENCE	LF	12,730	-	(12,730)	3.00	-	-	-	-	(38,190)	(38,190)
004	ADJUSTMENTS	LS	-	1	1	14,233.00	5,498	3,878	2,207	-	2,650	14,233
017A	SURVEY PERSONNEL	MO	-	0	0	22,992.00	5,498	-	250	-	-	5,748
017B	SAFETY, TOOLS, AND TRAINING	MH	-	1,869	1,869	1.05	-	-	1,957	-	-	1,957
017C	CONSTRUCTION Q/A	LS	-	1	1	2,650.00	-	-	-	-	2,650	2,650
017D	DESIGN (URS / TCB)	LS	-	1	1	3,618.00	-	3,618	-	-	-	3,618
017D	DESIGN QA (KBR)	LS	-	1	1	260.00	-	260	-	-	-	260
TOTAL CONSTRUCTION COSTS							33,293	3,878	45,350	16,620	(35,540)	63,601

Exhibit CO.11.2
CTRMA Request for Change Order Letter

June 5, 2006



Central Texas Regional
Mobility Authority

Mr. Ralph Gleffe
Hill Country Constructors
12357-A Riata Trace Parkway Suite 300
Austin, TX 78727

RE: 183A Project: Request for Change Proposal #008 Median Barriers

Dear Ralph:

The CTRMA requests that HCC provide a Change Proposal for the design and construction of triple cable and post barriers in the median wherever median barrier is not provided in the current design and where HCC has proposed a single post and cable design. The triple cable barrier system should be placed as close to the center of the median ditch as the drainage constraints will allow. HCC is to provide a preliminary design for CTRMA approval.

This request does not constitute approval of the requested change order. Such approval shall only be granted by formal action of the CTRMA Board of Directors.

If you have any questions, please contact Richard Ridings at (512) 697-2592.

Sincerely,


Mike Heiligenstein
Executive Director

Cc: Richard Ridings
Everett Owen
Tom Nielson
file

CDA, 14, 2, 1 - 008
Rich Gunder

301 Congress Avenue, Suite 650 Austin, TX 78701
Telephone: (512) 996-9778 / Fax: (512) 996-9784 / www.mobilityauthority.com

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**Exhibit CO.11.3
HCC Construction Estimate**

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
ATL-4-20	CABLE BARRIER SYS TL-4-20	3,730.000 LF	17.051	33,292	45,350	16,620	-31,662	63,600
	1,869.4 MAN-HOURS			PERM MATL.	40,060			
	OWNER REQUESTED CHANGE ORDER REQUEST			JOB MATL.	5,290			

CABLE BARRIER SYSTEM - GIBRALTAR TL-4-20 SOCKETED SYSTEM

ASSUMPTIONS:

- POSTS ARE SPACED AT 20 FT CENTERS
- GIBRALTAR TL-4-20 SOCKETED SYSTEM IS USED
- CABLE BARRIER SYSTEM IS LOCATED NEAR THE CENTER MEDIAN
- CABLE BARRIER IS WHERE THERE IS NOT ANY FLEXIBLE OR RIGID BARRIERS ON EITHER INSIDE SHOULDER OF THE THE MAIN LANES
- APRON AROUND END TERMINALS ARE ASSUMED TO BE 30' X 6' X 5" THICK
- MOWSTRIP IS 1.5' WIDE AND 5" THICK.

SUMMARY OF APPROXIMATE LOCATIONS

BEGIN STA	END STA	LENGTH LF	POSTS EA	END TERMINALS EA	MOWSTRIP SF	MOWSTRIP CY	APRON SF	APRON CY	ROCK Y/N
61,750	61,975	225	12	2	338	5	360	6	N
68,075	68,315	240	13	2	360	6	360	6	N
70,875	71,740	865	44	2	1,298	20	360	6	N
72,650	74,500	1,850	94	1	2,775	43	180	3	Y
74,500	75,050	550	29	1	825	13	180	3	N
TOTALS		3,730	192	8	5,595	86	1,440	22	

001	CABLE BARRIER SYSTEM	3,730.000 LF	14.324	11,353	34,864	7,212		53,429
*****				PERM MATL.	33,094			
				JOB MATL.	1,770			
				621.4 MAN-HOURS				

001A	MATERIALS	3,730.000 LF	9.347		34,864			34,864
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				PERM MATL.	33,094			
				JOB MATL.	1,770			
01	TL-4-20 CABLE BARRIER SYSTEM	P	3,730.000 LF	6.100	22,753			<PLUG>
02	END TERMINAL CABLE BARRIER SYST	P	8.000 EA	1,040.000	8,320			<PLUG>
03	TENSION METER - CABLE BARRIER	J	1.000 EA	1,770.000	1,770			<PLUG>

305 HCD TEXAS REGIONAL OFFIC GRANITE CONSTRUCTION INCORPORATED
 BID BODY BID INTERACTIVE DEVELOPMENT SYSTEM 2 (V 4.73) VER. #1.000
 BID DATE: 09/30/04 JOB 183A1205 : US 183A - NORTH TIE-IN ALTERNATE F ADD. #

PAGE: 2
 RUN DATE: 09/23/06
 RUN TIME: 07:10

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
ATL-4-20	CABLE BARRIER SYS TL-4-20	- CONTINUED...						

04
 05 POST CONCRETE QUANTITIES

POST TYPE	QTY	LENGTH	DIAMETER	NEAT	VOL	REBAR
	EA	IN	IN		CY	LBS
LINE POST	192	30	12		14	1,370
TERMINAL POST	32	30	12		2	228
ANCHOR POST	8	72	24		6	589

06	CONCRETE, CL A	232			22	2,187			
			P		26.000	CY	46.000		1,196
07	FACTOR 20% WASTE								
08	REINF STEEL, SUPPORT STEEL		P		22.000	CWT	1.500		33
09	REINF STEEL, STRUCTURES		P/		22.000	CWT	36.000		792
001B	EXCAVATE POSTS				232.000	EA	38.592	4,209	4,745
									8,953

5/10.0/1--- T - DAYS: 5.60 PROD. RATE: 4.14 EA/HR PERM MATL.
 JOB MATL.

235.2 MAN-HOURS 0.986 EA PER MAN-HOUR 1.014 MAN-HOURS PER EA

WORK DESCRIPTION	QUANTITY	PROD. RATE	PER	HOURS
01 LINE POST	192.000 EA	6.000	HR	32.00
02 TERMINAL POST	32.000 EA	2.000		16.00
03 ANCHOR POST	8.000 EA	1.000		8.00
DETAIL TOTALS	232.000			56.00 HOURS FOR ENTIRE CREW

02	OPERATOR FOREMAN 2006	L	1.000	6.269	1,454	
03	FOREMAN'S PICKUP (HR)	E	1.000	1.774		412
04	JD 710 G BACKHOE (2005)	E	1.000	13.257		3,076
05	EXCAVATOR OPERATOR 2006	L	1.000	4.410	1,023	
06	AUGER DRILL ATTACHMENT	e/	32.000 HR	25.000		800
07	GENERAL LABOR 2006	L	2.000	6.675	1,549	
08	WATER TRUCK - FREIGHTLINER	E	0.200	1.972		457
09	LOWBOY DRIVER 2006	L	0.200	0.787	183	

305 HCD TEXAS REGIONAL OFFICE GRANITE CONSTRUCTION INCORPORATED
 BID BODY BID INTERACTIVE DEVELOPMENT SYSTEM 2 (V 4.73) VER. #1.000
 BID DATE: 09/30/04 JOB 183A1205 : US 183A - NORTH TIE-IN ALTERNATE F ADD. #

PAGE: 3
 RUN DATE: 09/23/06
 RUN TIME: 07:10

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL

ATL-4-20	CABLE BARRIER SYS TL-4-20	- CONTINUED...						

001C	SET POSTS	232.000 EA	23.103	4,084		1,276		5,360
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5/10.0/1--- T - DAYS: 3.67 PROD. RATE: 6.33 EA/HR PERM MATL.
 JOB MATL.

201.7 MAN-HOURS 1.150 EA PER MAN-HOUR 0.869 MAN-HOURS PER EA

:	WORK DESCRIPTION	QUANTITY	PROD. RATE	PER	HOURS	:
:	01 PLACE REBAR	2,200.000 LBS	30.000	MHR	18.33	:
:	02 PLACE CONCRETE	22.000 CY	0.300		18.33	:
:	DETAIL TOTALS	2,222.000			36.67 HOURS PER 4.0 MEMBER CREW	:

02	CARPENTER 4-MAN 2006	L	1.000	4.645	1,078	
03	FOREMAN'S PICKUP (HR)	E	1.000	1.162		270
04	CONCRETE FINISHER 2006	L	2.000	7.142	1,657	
05	GENERAL LABOR 2006	L	2.000	4.371	1,014	
06	JD 710 G BACKHOE (2005)	E	0.500	4.340		1,007
07	EXCAVATOR OPERATOR 2006	L	0.500	1.444	335	

001D	SET CABLES	3,750.000 LF	1.134	3,061		1,191		4,252
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5/10.0/1--- T - DAYS: 4.10 PROD. RATE: 91.46 LF/HR PERM MATL.
 JOB MATL.

184.5 MAN-HOURS 20.325 LF PER MAN-HOUR 0.049 MAN-HOURS PER LF

:	WORK DESCRIPTION	QUANTITY	PROD. RATE	PER	HOURS	:
:	01 SET CABLES	3,750.000 LF	150.000	HOURL	25.00	:
:	02 TENSION CABLES	8.000 LOC	0.500		16.00	:
:	DETAIL TOTALS	3,758.000			41.00 HOURS FOR ENTIRE CREW	:

02	LABORER FOREMAN 2006	L	1.000	0.284	1,065	
03	FOREMAN'S PICKUP (HR)	E	1.000	0.080		301
04	GENERAL LABOR 2006	L	3.000	0.454	1,701	
05	JD 624J IT LOADER (2005)	E	0.500	0.237		889
06	FRONT END LOADER OPR 06	L	0.500	0.079	295	

305 HCD TEXAS REGIONAL OFFICE GRANITE CONSTRUCTION INCORPORATED
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 BID DATE: 09/30/04 JOB 183A1205 : US 183A - NORTH TIE-IN ALTERNATE F ADD. #

PAGE: 4
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ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
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 ATL-4-20 CABLE BARRIER SYS TL-4-20 - CONTINUED...

002	CONCRETE FLATWORK	7,035.000 SF	4.851	16,441	8,279	9,408		34,129
				PERM MATL.	6,966			
				JOB MATL.	1,313			
				948.0 MAN-HOURS				

002A	MATERIALS	7,035.000 SF	1.177		8,279			8,279
				PERM MATL.	6,966			
				JOB MATL.	1,313			

01 FLATWORK CONCRETE QTYS

NEAT VOLUME 108CY
 WASTE 20%

CONCRETE 130CY

02	CONCRETE, CL B	P	130.000 CY	44.250		5,753		
03	FORM MTL ALLOWANCE	j/	3,375.000 SF	0.350		1,181		
04	WELDED WIRE FABRIC, 6X6, 6/6	P	8,090.000 SF	0.150		1,214		<PLUG>
05	FACTOR 15% WASTE							
06	CONC CURE COMPOUND, TY 1	J	40.000 GAL	3.300		132		<PLUG>

002B	EARTHWORK	7,035.000 SF	1.867	7,160		5,974		13,135
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5/10.0/1--- T - DAYS: 6.16 PROD. RATE: 114.18 SF/HR PERM MATL.
 JOB MATL.

462.1 MAN-HOURS 15.224 SF PER MAN-HOUR 0.066 MAN-HOURS PER SF

WORK DESCRIPTION	QUANTITY	PROD. RATE	PER HOUR	HOURS
01 MOWSTRIP (1.5' WIDE)	5,595.000 SF	200.000	27.98	
02 END TERMINALS	1,140.000 EA	300.000	3.80	
03 SHOULDERING	7,460.000 LF	250.000	29.84	
DETAIL TOTALS	14,195.000		61.62 HOURS FOR ENTIRE CREW	

02 OPERATOR FOREMAN 2006	L	1.000	0.227	1,600	
03 FOREMAN'S PICKUP (HR)	E	1.000	0.064		453

305 HCD TEXAS REGIONAL OFFIC GRANITE CONSTRUCTION INCORPORATED
 BID BODY BID INTERACTIVE DEVELOPMENT SYSTEM 2 (V 4.73) VER. #1.000
 BID DATE: 09/30/04 JOB 183A1205 : US 183A - NORTH TIE-IN ALTERNATE F ADD. #

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
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ATL-4-20 CABLE BARRIER SYS TL-4-20 - CONTINUED...

04	CAT D4 XL (1998)	E	0.500	0.177				1,247
05	DOZER OPERATOR 2006	L	0.500	0.081	571			
06	JD 624J IT LOADER (2005)	E	0.500	0.190				1,337
07	FRONT END LOADER OPR 06	L	0.500	0.063	444			
08	IR SP20 HAND ROLLER(O)	B	2.000	0.450	1,487			1,680
09	WATER TRUCK - FREIGHTLINER	E	0.500	0.179				1,258
10	LOWBOY DRIVER 2006	L	0.500	0.071	502			
11	GENERAL LABOR 2006	L	3.000	0.363	2,556			
002C	FORM/POUR/STRIP		108.000 CY	117.729	9,281		3,434	12,715

5/10.0/1--- T - DAYS: 6.94 PROD. RATE: 1.56 CY/HR PERM MATL.
 JOB MATL.

485.9 MAN-HOURS 0.222 CY PER MAN-HOUR 4.499 MAN-HOURS PER CY

WORK DESCRIPTION	QUANTITY	PROD. RATE	PER	HOURS
: 01 FORM EDGES	3,375.000 SF	20.000	MHR	33.75
: 02 SET MESE	7,035.000 SF	100.000		14.07
: 03 POUR CONCRETE	108.000 CY	1.000		21.60
: DETAIL TOTALS	10,518.000			69.42 HOURS PER 5.0 MEMBER CREW

02	CARPENTER 4-MAN 2006	L	1.000	18.891	2,040			
03	FOREMAN'S PICKUP (HR)	E	1.000	4.724			510	
04	CARPENTER 2006	L	2.000	19.245	2,078			
05	CONCRETE FINISHER 2006	L	2.000	29.044	3,137			
06	GENERAL LABOR 2006	L	1.000	8.887	960			
07	JD 624J IT LOADER (2005)	E	0.500	13.944				1,506
08	FRONT END LOADER OPR 06	L	0.500	4.631	500			
09	WATER TRUCK - FREIGHTLINER	E	0.500	13.125				1,417
10	LOWBOY DRIVER 2006	L	0.500	5.239	566			

003	CREDIT FOR ORIG POST AND CABLE		12,730.000 LF	-3.000				-38,190	-38,190

				PERM MATL.					
				JOB MATL.					

305 HCD TEXAS REGIONAL OFFIC GRANITE CONSTRUCTION INCORPORATED
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 BID DATE: 09/30/04 JOB 183A1205 : US 183A - NORTH TIE-IN ALTERNATE F ADD. #

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
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ATL-4-20 CABLE BARRIER SYS TL-4-20 - CONTINUED...

003A	POST & CABLE FENCE	12,730.000 LF	-3.000				-38,190	-38,190
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PERM MATL.
 JOB MATL.

01 THE ORIGINAL PROPOSAL HAD 12,730 LF BETWEEN FM 1431 AND THE SOUTH END OF THE PROJECT.

A CREDIT FOR THE FULL AMOUNT OF THE SINGLE POST AND CABLE SYSTEM WILL BE PROVIDED BECAUSE THE 3-CABLE SYSTEM ELIMINATES THE NEED FOR THE SINGLE POST AND CABLE SYSTEM.

02	POST & CABLE FENCE	s/ 12,730.000 LF	-3.000				-38,190	
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004	ADJUSTMENTS	1.000 LS	14,232.460	5,498	2,207		6,528	14,232
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PERM MATL.
 JOB MATL.

300.0 MAN-HOURS

2,207

004A	SURVEY PERSONNEL	0.250 MO	22,990.400	5,498	250			5,748
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5/10.0/1--- D - DAYS: 5.00

PERM MATL.
 JOB MATL.

250

300.0 MAN-HOURS

0.001 MO PER MAN-HOUR 1,200.000 MAN-HOURS PER MO

01	SURVEY CHIEF	G	0.250 MO	5,200.000	1,300			
02	INSTRUMENT MAN	L	3.000	9,998.999	2,500			
03	CHAINMAN	L	3.000	6,791.400	1,698			
04	*SURV-SURVEY SUPPLIES	j/	0.250 MO	1,000.000		250		

004B	SAFETY AND SMALL TOOLS	1,869.000 MHR	1.047		1,957			1,957
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PERM MATL.
 JOB MATL.

1,957

01	*SAFTY-FIRST AID SUPPLIES	j/	1,869.000 MHR	0.040		75		
02	*SAFTY-PROTECTIVE CLOTHING	j/	1,869.000 MHR	0.070		131		
03	*SAFTY-SAFETY AWARDS	j/	1,869.000 MHR	0.080		150		
04	SAFETY SUPPLIES	j/	1.000 EA	200.000		200		
05	*TOOL-SMALL TOOLS HAND	j/	1,869.000 MHR	0.750		1,402		

305 HCD TEXAS REGIONAL OFFIC GRANITE CONSTRUCTION INCORPORATED
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ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ATL-4-20	CABLE BARRIER SYS TL-4-20	- CONTINUED...							

004C	CONSTRUCTION QA	1.000 LS	2,650.000				2,650	2,650	

					PERM MATL.				
					JOB MATL.				
01	RODRIGUEZ QA	s/ 1.000 LS	2,650.000				2,650		
02	AT BID TIME RODRIGUEZ QA TESTING WAS FIGURED TO BE 4.37% OF THE DIRECT CONSTRUCTION DOLLARS.								

004D	DESIGN COST	1.000 LS	3,878.000				3,878	3,878	

					PERM MATL.				
					JOB MATL.				
01	URS	s/ 1.000 LS	3,618.000				3,618		
02	URS PREPARED A COST ESTIMATE WHICH WAS \$3,619.								
03	KBR	s/ 1.000 LS	260.000				260		
04	KBR PROFESSIONAL SERVICES WAS FIGURED TO BE 0.43% OF THE TOTAL DIRECT CONSTRUCTION AMOUNT								
	THIS EXCLUDES KBR'S MULTIPLIER OF 2.92								

**Exhibit CO.11.4
HCC Design Estimate**

**Attachment A
Change Order #xx
Cable Guard Fence**

URS	Rate	Mult	Hours	Raw \$	Total
Mindy Steckmest	\$46.98	2.92	16	\$751.68	\$2,194.91
Bob Murphy	\$28.80	2.92	32	\$921.60	\$2,691.07
Barbara McKinney	\$27.36	2.92	16	\$437.76	\$1,278.26
Melissa Tucker	\$24.32	2.92	4	\$97.28	\$284.06
Subtotal - Labor:				\$2,208.32	\$6,448.29

TCB	Rate	Mult	Hours	Raw \$	Total
Glenn Kunze	\$62.82	2.92	4	\$251.28	\$733.74
Ken Schrock	\$43.34	2.92	16	\$693.44	\$2,024.84
Bryan Young	\$29.11	2.92	16	\$465.76	\$1,360.02
Subtotal - Labor:				\$1,410.48	\$4,118.60

Total:				\$3,618.80	\$10,566.90
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Pulled 61-62