

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

RESOLUTION NO. 06-52

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

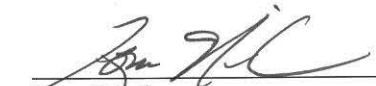
WHEREAS, the CTRMA, the GEC, and the Developer, pursuant to the change order process set forth in the CDA, have determined that the changes to the design and construction of a bridge header for the northbound exit ramp at FM 1431, including additional bridge abutment, roadway embankment, retaining wall, pavement structure, drilled shafts, and traffic rail, requires the issuance of Change Order No. 9, 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. 9 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. 9 is made an attachment to the Contract Documents, as defined in the CDA, as of the date that Change Order No. 9 is fully executed by the CTRMA and the Developer.

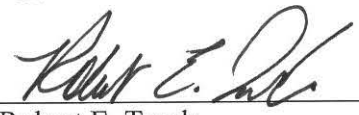
Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 27th day of September, 2006.

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 06-52
Date Passed 09/27/06



Central Texas Regional
Mobility Authority

MEMORANDUM

To: Mike Heiligenstein
Bill Chapman

Date: September 20, 2006

From: Richard Ridings *Richard Ridings*

Subject: Change Order No. 009 – Construct Ultimate Header NB 183A North of FM 1431

Copies: Tom Neilson, Everett Owen, Ron Fagan

This attached Change Order (CO) No. 009 is in the amount of \$ 217,890.00. This change order includes additional bridge abutment, roadway embankment, retaining wall, pavement structure, drilled shafts, and traffic rail. This work was requested to improve the appearance of the stub out at the FM 1431 bridge and reduce the rework required when the ultimate main lanes are extended beyond New Hope Road and the ultimate ramps are constructed between FM 1431 and New Hope Road.

The GEC has reviewed the subject CO and recommends approval.

Attached is an update of the Change Order Budget.

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 Singleton • Johanna Zmud Ph.D. • Mike Heiligenstein, *Executive Director*



Central Texas Regional
Mobility Authority

Change Order No. 009 Summary **Construct Ultimate Header NB 183A North of FM 1431**

Description

Provide design and construction for the ultimate header located on NB 183A north of FM 1431. This change order includes additional bridge abutment, roadway embankment, retaining wall, pavement structure, drilled shafts, and traffic rail.

Justification

This work was requested to improve the appearance of the stub out at the FM 1431 bridge and reduce the rework required when the ultimate main lanes are extended beyond New Hope Road and the ultimate ramps are constructed between FM 1431 and New Hope Road.

Price

\$ 217,890.00

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 Singleton • Johanna Zmud Ph.D. • Mike Helligenstein, *Executive Director*

EXHIBIT M

FORM OF CHANGE ORDER

CHANGE ORDER PROPOSAL NO. 009 CONTRACT NO. 183A Turnpike

SECTION 1

Originator: Rich Ginder

Date: August 7, 2006

Title: Toll / Aesthetics Manager

Contract No. 183A Turnpike

Company Name: Hill Country Constructors

DESCRIPTION:

Design and construct a bridge header for the ultimate northbound exit ramp north of FM 1431.

Scope:

Original scope of the northbound FM 1431 bridge included a bent structure on the north end of the bridge for the ultimate northbound exit ramp. There was some dialogue between HCC and CTRMA to extend the abutment structure along with associated wrap around retaining walls to include the ultimate exit ramp. An abutment structure for the ultimate exit ramp braided bridge was included in this change order. This change order consists of additional bridge abutments, roadway embankment, retaining wall, pavement structures, drill shafts, and traffic rail. There is a credit for the bent structure that would have been constructed if the desired change did not occur.

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.

 9-1-06
Developer Project Manager Date

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 009

CONTRACT NO. 183A Turnpike

SECTION II

The total amount of this Change Order is \$ 217,890.00. Documentation supporting the Change Order is attached as Exhibits CO.6.1 through CO.6.3.

Payment Schedule Items Added/Deducted:

<u>Activity No.</u>	<u>Description</u>	<u>Amount</u>
A021505	Design of Ult. Bridge Header	\$ 14,700.00
A021040	Design QA of Ult. Bridge Header	\$ 1,838.00
B061784	Embankment	\$ 28,963.00
B071900	Select Embankment	\$ 6,095.00
B082021	Cemented Treated Base	\$ 4,594.00
B082020	Bond Breaker	\$ 1,533.00
B086560	Concrete Pavement	\$ 33,312.00
B086560	Approach Slabs	\$ 23,945.00
B093040	Abutment Drill Shafts	\$ 18,667.00
B093060	Bent Drill Shaft Credit	\$ (9,222.00)
B093050	Abutment Concrete	\$ 25,367.00
B093070	Bent Column Credit	\$ (6,186.00)
B093180	Bent Cap Credit	\$ (7,803.00)
B096861	MSE Walls	\$ 41,516.00
B093130	Permanent Traffic Rail	\$ 5,692.00
B127570	Rip Rap Concrete in Gore	\$ 5,607.00
A011184	Incidentals	\$ 21,397.00
A021030	Construction QA	\$ 7,875.00

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

A.	Developer Labor (construction)	
1.	Wages ¹	\$ 34,859.00
2.	Labor benefits ² (55% of A.1)	\$ 19,172.00

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.

B.	Developer and Subcontractor Labor (professional services)		
1.	Wages ¹ (Raw)	\$	6,750.00
2.	Labor benefits ² (145% of B.1, which includes overhead and profit)	\$	9,788.00
3.	Off-duty peace officers and patrol cruisers ¹	\$	0.00
C.	Materials ¹ (with taxes, freight and discounts)	\$	55,452.00
D.	Developer Equipment ¹	\$	57,900.00
E.	Subcontracts ¹ (Time and Materials costs)	\$	11,565.00
F.	Utility Direct Costs ¹	\$	0.00
G.	Overhead and Profit		
1.	Labor (25% of A.1 and A.2)	\$	13,508.00
2.	Traffic Control (5% of B.3)	\$	0.00
3.	Materials (15% of C)	\$	8,318.00
4.	Subcontracts (5% of E)	\$	578.00
5.	Utility Direct Costs (5% of F)	\$	0.00
H.	Grand Total	\$	217,890.00

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 009

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.

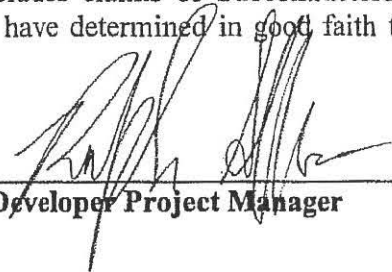
This Change Order Proposal includes all known and anticipated impacts or amounts, direct, indirect and consequential, which may be incurred as a result of the event, occurrence or matter giving rise to the proposed change.

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 009

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

9-1-06

Date

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 009

CONTRACT NO. 183A Turnpike

SECTION IV (Reviewed by GEC Manager)

Michael J. Snow *9/20/06*

GEC Team Construction Manager (CDA) Date

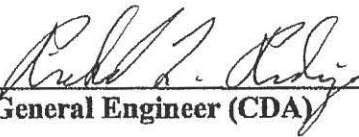
Comments:

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 009

CONTRACT NO. 183A Turnpike

SECTION V (Reviewed by GEC Project General Engineer)



Project General Engineer (CDA)

9/20/08

Date

Comments:

**CHANGE ORDER
REQUEST**

CHANGE ORDER PROPOSAL NO. 009

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. 009

CONTRACT NO. 183A Turnpike

SECTION VII (Approval by CTRMA)

CHANGE ORDER ISSUED: Yes No

CTRMA Executive Director

Date

Comments:

**Exhibit CO.9.1
Cost Breakdown Spreadsheet**

Change Order Estimates

Owner:
Location:

CTRMA
NB Off Ramp North of FM 1431

Cost Impacts of Change	Unit	UM	Raw Unit Cost	A.1 Constr Dev Labor (HCC)	B.1* Prof Serv Raw Wages	B.3 Police	C Materials Add. (HCC)	D Equip	E** Subs	F Util Dir Costs	SubTotal	Schedule Activity No.	Cost with Markup
CONSTRUCTION COSTS:													
Excavation and Embankment	3,763.00	CY	\$ 7.13	\$2,509	\$0		\$890	\$23,423	\$0		\$26,822	B061784	\$28,963
Select Embankment (MLF)	460.00	CY	\$ 12.12	\$504	\$0		\$150	\$2,991	\$1,928		\$5,573	B071900	\$6,095
8" Cement Treated Base	460.00	SY	\$ 8.77	\$236	\$0		\$2,465	\$1,335	\$0		\$4,036	B082021	\$4,595
Place AC Bondbreaker	25.00	TN	\$ 58.40	\$0	\$0		\$0	\$0	\$1,460		\$1,460	B082020	\$1,533
Concrete Pavement	398.70	SY	\$ 68.25	\$5,178	\$0		\$12,668	\$8,190	\$1,175		\$27,211	B086560	\$33,312
Approach Slabs	44.00	CY	\$ 393.45	\$7,274	\$0		\$5,180	\$4,119	\$739		\$17,312	B086560	\$23,945
Drilled Shafts	144.00	LF	\$ 108.45	\$2,784	\$0		\$3,919	\$4,208	\$4,706		\$15,617	B093040	\$18,667
Bent Drill Shaft Credit	48.00	LF	\$ (177.83)	-\$33	\$0		-\$2,400	-\$103	-\$6,000		-\$8,536	B093060	-\$9,222
Abutment Concrete	26.00	CY	\$ 731.19	\$7,084	\$0		\$4,347	\$6,839	\$741		\$19,011	B093050	\$25,367
Bent Column Credit	17.00	CY	\$ (273.41)	-\$1,465	\$0		-\$2,330	-\$517	-\$336		-\$4,648	B093070	-\$6,186
Bent Cap Credit	15.00	CY	\$ (386.87)	-\$1,982	\$0		-\$2,814	-\$751	-\$456		-\$5,803	B093180	-\$7,804
MSE Walls	1,393.00	SF	\$ 24.35	\$5,420	\$0		\$21,699	\$6,693	\$108		\$33,920	B096861	\$41,516
Permanent Traffic Rail	180.00	LF	\$ 26.48	\$437	\$0		\$3,840	\$489	\$0		\$4,766	B093130	\$5,692
Rip Rap Concrete	1,195.00	SF	\$ 3.52	\$1,415	\$0		\$1,805	\$984	\$0		\$4,204	B127570	\$5,607
Incidentals	1	LS	\$ 11,331.00	\$5,498			\$5,833	\$0			\$11,331	A011184	\$21,397
Construction QA	1	LS	\$ 7,500.00	\$0			\$0	\$0	\$7,500		\$7,500	A021030	\$7,875
DESIGN & APPROVAL COSTS:													
Design - URS					\$6,000						\$6,000	A021505	\$14,700
Design QA - KBR					\$750						\$750	A021040	\$1,838
Direct Utility Costs										\$0	\$0		
Permits/Fees					\$0		\$0		\$0		\$0		
Traffic Control					\$0				\$0		\$0		
SubTotal:				\$34,859	\$6,750	\$0	\$55,452	\$57,900	\$11,565	\$0	\$166,526		
MARK-UPS:													
Labor Benefits/Overhead/Profit				\$19,172	\$9,788						\$28,960		
OH & Profit				\$13,508		\$0	\$8,318	\$0	\$578	\$0	\$22,404		
SubTotal:				\$67,539	\$16,538	\$0	\$63,770	\$57,900	\$12,143	\$0			

*Based on hourly work

**Based on unit cost and/or lump sum

Total: \$217,890
Bid: \$0
Total Change: \$217,890

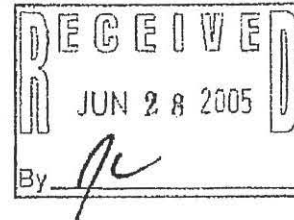
Exhibit CO.9.2
CTRMA Request for Change Order Letter



June 28, 2005

13640 Briarwick Drive
Suite 200
Austin, Texas 78729-1706
Phone: (512) 996-9778
Fax: (512) 996-9784
<http://www.ctrma.org>

Hill Country Constructors
12357-A Riata Trace Parkway Suite 300
Austin, TX 78727



Attn: Mr. Ralph Gleffe, P.E.
Project Manager

Reference: Request for Change Proposal

Dear Mr. Gleffe:

During the May 31, 2005 Aesthetics Workshop, a discussion was conducted regarding the alternatives available to enhance and improve the termination of the NB off ramp north of FM 1431. The CTRMA desires to consider this improvement as a potential change order to the 183 A CDA.

Please consider this letter a CTRMA Request for Change Proposal, in accordance with CDA Paragraph 14.2.1. Your timely reply and detailed proposal will be appreciated.

Sincerely,

Richard Ridings, P.E.
CDA Project Manager

Executive Director:
Mike Heiligenstein

Board of Directors:
Robert E. Tesch
Chairman

Lowell Lebermann
Vice-Chairman

Robert L. Bennett
Treasurer

Henry H. Gilmore

James H. Mills

David Singleton

Johanna Zmud, Ph.D.

cc: Loretta Schietinger, P.E.
Mike Snare, P.E.
Bubba Needham, P.E.
Everett Owen, P.E.
Ron Fagan
Curt Ashmos
Mike Heiligenstein

CDA.14.2.1
BILL MANRER

Exhibit CO.9.3
HCC Construction Estimate

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 163A - NORTH TIE-IN ALTERNATE F ADD. #

PAGE: 1
 RUN DATE: 07/21/06
 RUN TIME: 13:35

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
ANB1431	NB FM 1431 OFF RAMP CO	1.000 LS	166,527.896	34,859	55,452	57,901	18,315	166,528
	2,083.3 MAN-HOURS			PERM MATL. 44,130 JOB MATL. 11,323				
001	EXCAVATION AND EMBANKMENT	3,763.000 CY	7.128	2,509	890	23,423		26,822
	140.1 MAN-HOURS			PERM MATL. 890 JOB MATL.				
001A	375 & LEGALS 25,000'-35,000'	3,763.000 ECY	4.252	800		15,199		15,999
	5/10.0/1--- P - DAYS: 0.94		PROD. RATE: 400.00 ECY/HR		PERM MATL. JOB MATL.			
	47.0 MAN-HOURS	80.000 ECY PER MAN-HOUR	0.012 MAN-HOURS PER ECY					
	01 THIS IS INCREMENTAL TO THE ROADWAY EMBANKMENT ITEM							
	02 LOAD TIME: 2 BUCKETS X 30 SEC/BUCKET = 1.0 MIN + .5 MIN NEXT TRUCK = 1.5 MIN/LOAD 55 MIN/HR / 1.5 MIN/LOAD = 35 LOADS/HR X 13 CY/LOAD = 455 CY/HR							
	03 AVERAGE HAUL = 5.7 MILES							
	LOAD	2.0 MIN						
	HAUL	13.7 MIN	SPEED 25 MPH					
	DUMP	3.0 MIN						
	RETURN	13.7 MIN	SPEED 25 MPH					
	WAIT	5.0 MIN						
	TOTAL	37.4 MIN						
	USE 55 MIN/HOUR							
	1.5 LOADS/HOUR							
	13.0 CY/LOAD							
	19.1 CY/TRUCK HOUR							
04	OPERATOR FOREMAN 2006	L	0.500	0.032	122			
05	FOREMAN'S PICKUP (HR)	E	0.500	0.009		35		
06	GENERAL LABOR 2006	L	0.500	0.017	65			
07	EXCAVATOR OPERATOR 2006	L	1.000	0.046	172			
08	CAT 345 BACKHOE (1998)	E	1.000	0.354		1,331		
09	SEMI END DUMP, 25T (OO)	E	21.000	3.413		12,841		
10	BLADE OPERATOR 2006	L	1.000	0.048	181			

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL

ANB1431	NE FM 1431 OFF RAMP CO	- CONTINUED...						

	11 CAT 14H BLADE (2004)	E	1.000	0.201		757		
	12 BLADE PRO LASER	E	1.000	0.063		235		
	13 GENERAL LABOR 2006	L	2.000	0.069	260			
001B	OG PREP	732.000 SY	0.672	87		405		492

5/10.0/1---	P - DAYS: 0.12	PROD. RATE: 600.00 SY/HR		PERM MATL. JOB MATL.				
	4.3 MAN-HOURS	171.429 SY PER MAN-HOUR	0.006 MAN-HOURS PER SY					
	01 OPERATOR FOREMAN 2006	L	1.000	0.043	32			
	02 FOREMAN'S PICKUP (HR)	E	1.000	0.012		9		
	03 SCRAPER OPERATOR 2006	L	1.000	0.029	21			
	04 CAT 623G SCRAPER (2002)	E	1.000	0.278		203		
	05 ROLLER OPERATOR 2006	L	1.000	0.032	23			
	06 CAT 825 G PACTOR (1990)	E	1.000	0.201		147		
	07 SCRAPER OPERATOR 2006	L	0.500	0.014	11			
	08 613 WATER WAGON - RENT	E	0.500	0.063		46		
001C	EMBANK 777'S & LEGALS	3,763.000 ECY	2.131	1,229		6,790		8,020

5/10.0/1---	P - DAYS: 1.51	PROD. RATE: 250.00 ECY/HR		PERM MATL. JOB MATL.				
	67.7 MAN-HOURS	55.556 ECY PER MAN-HOUR	0.018 MAN-HOURS PER ECY					
	01 OPERATOR FOREMAN 2006	L	0.500	0.052	195			
	02 FOREMAN'S PICKUP (HR)	E	0.500	0.015		55		
	03 GENERAL LABOR 2006	L	1.000	0.055	208			
	04 DOZER OPERATOR 2006	L	1.000	0.074	279			
	05 CAT D9R DOZER (1998)	E	1.000	0.677		2,548		
	06 ROLLER OPERATOR 2006	L	1.000	0.076	286			
	07 CAT 825 G PACTOR (1990)	E	1.000	0.482		1,815		
	08 SCRAPER OPERATOR 2006	L	1.000	0.069	261			
	09 631 WATER WAGON - RENT	E	1.000	0.630		2,372		

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							
=====									
001D	ROUGH/FINE GRADE SUBGRADE	460.000 SY	2.306	275		786		1,061	

	5/10.0/1--- P - DAYS: 0.31	PROD. RATE: 150.00 SY/HR				PERM MATL.			
						JOB MATL.			
	14.4 MAN-HOURS	31.915 SY PER MAN-HOUR	0.031 MAN-HOURS PER SY						
01	OPERATOR FOREMAN 2006	L	1.000	0.173	80				
02	FOREMAN'S PICKUP (HR)	E	1.000	0.049		23			
03	BLADE OPERATOR 2006	L	1.000	0.128	59				
04	CAT 14H BLADE (2004)	E	1.000	0.537		247			
05	BLADE PRO LASER	E	1.000	0.167		77			
06	GENERAL LABOR 2006	L	1.000	0.092	42				
07	FRONT END LOADER OPR 06	L	0.200	0.019	9				
08	CAT 938 G LOADER (1999)	E	0.200	0.057		26			
09	SCRAPER OPERATOR 2006	L	0.500	0.058	27				
10	631 WATER WAGON - RENT	E	0.500	0.525		242			
11	ROLLER OPERATOR 2006	L	1.000	0.127	58				
12	PNEU ROLLER CAT PS360	E	1.000	0.374		172			

001E	CONTOUR GRADING	213.000 SY	1.275	90		181		272	

	5/10.0/1--- P - DAYS: 0.11	PROD. RATE: 200.00 SY/HR				PERM MATL.			
						JOB MATL.			
	5.0 MAN-HOURS	42.553 SY PER MAN-HOUR	0.023 MAN-HOURS PER SY						
01	OPERATOR FOREMAN 2006	L	1.000	0.130	28				
02	FOREMAN'S PICKUP (HR)	E	1.000	0.037		8			
03	GENERAL LABOR 2006	L	2.000	0.138	29				
04	BLADE OPERATOR 2006	L	0.500	0.048	10				
05	CAT 14H BLADE (2004)	E	0.500	0.201		43			
06	BLADE PRO LASER	E	0.500	0.063		13			
07	DOZER OPERATOR 2006	L	0.500	0.046	10				
08	CAT D4 XL (1998)	E	0.500	0.101		22			
09	EXCAVATOR OPERATOR 2006	L	0.200	0.018	4				
10	JD 710 G BACKHOE (2005)	E	0.200	0.055		12			
11	SCRAPER OPERATOR 2006	L	0.500	0.043	9				
12	631 WATER WAGON - RENT	E	0.500	0.394		84			

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							

001F	SHOULDER PAVEMENT	178.000 LF	0.503	27		62		90	

5/10.0/1---	P - DAYS: 0.04	PROD. RATE: 500.00 LF/HR			PERM MATL.				
					JOB MATL.				
	1.6 MAN-HOURS	111.111 LF PER MAN-HOUR	0.009 MAN-HOURS PER LF						
01	OPERATOR FOREMAN 2006	L	0.500	0.026	5				
02	FOREMAN'S PICKUP (HR)	E	0.500	0.007		1			
03	BLADE OPERATOR 2006	L	1.000	0.039	7				
04	CAT 14H BLADE (2004)	E	1.000	0.161		29			
05	BLADE PRO LASER	E	1.000	0.050		9			
06	EXCAVATOR OPERATOR 2006	L	0.500	0.018	3				
07	JD 710 G BACKHOE (2005)	E	0.500	0.055		10			
08	LOWBOY DRIVER 2006	L	0.500	0.016	3				
09	613 WATER WAGON - RENT	E	0.500	0.075		13			
10	GENERAL LABOR 2006	L	2.000	0.055	10				

001G	BUY WATER FROM CITY	178.000 MGAL	5.000		890			890	

5/10.0/1---	D - DAYS: 222.00	PROD. RATE: 0.08 MGAL/HR			PERM MATL.	890			
					JOB MATL.				
01	WATER - BLOCKHOUSE MUD	p/	178.000 MGAL	5.000		890			

002	MLF - 36"	460.000 ECY	12.114	504	150	2,991	1,928	5,573	

	27.1 MAN-HOURS				PERM MATL.	150			
					JOB MATL.				

002A	STOCKPILE 777'S AND LEGALS	540.000 BCY	0.511	43		233		276	

5/10.0/1---	P - DAYS: 0.14	PROD. RATE: 400.00 BCY/HR			PERM MATL.				
					JOB MATL.				
	2.0 MAN-HOURS	266.667 BCY PER MAN-HOUR	0.004 MAN-HOURS PER BCY						
01	OPERATOR FOREMAN 2006	L	0.500	0.032	18				
02	FOREMAN'S PICKUP (HR)	E	0.500	0.009		5			
03	DOZER OPERATOR 2006	L	1.000	0.046	25				
04	CAT D9R DOZER (1998)	E	1.000	0.423		229			

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							
=====									
002D	EMBRANK SELECT	460.000 ECY	2.573	178		1,005	0	1,184	

5/10.0/1---	D - DAYS: 0.27	PROD. RATE: 170.37 ECY/HR		PERM MATL.		JOB MATL.			
	9.5 MAN-HOURS	48.677 ECY PER MAN-HOUR	0.021 MAN-HOURS PER ECY						
01	OPERATOR FOREMAN 2006	L	0.500	0.076	35				
02	FOREMAN'S PICKUP (HR)	E	0.500	0.022		10			
03	GENERAL LABOR 2006	L	0.500	0.041	19				
04	DOZER OPERATOR 2006	L	1.000	0.109	50				
05	CAT D9R DOZER (1998)	E	1.000	0.993		457			
06	ROLLER OPERATOR 2006	L	1.000	0.111	51				
07	CAT 825 G FACTOR (1990)	E	1.000	0.708		326			
08	SCRAPER OPERATOR 2006	L	0.500	0.051	23				
09	631 WATER WAGON - RENT	E	0.500	0.463		213			

002E	FINEGRADE/PRIME SELECT BASE	460.000 SY	2.178	172	150	680		1,062	

5/10.0/1---	P - DAYS: 0.18	PROD. RATE: 250.00 SY/HR		PERM MATL.		JOB MATL.			
	8.8 MAN-HOURS	52.083 SY PER MAN-HOUR	0.019 MAN-HOURS PER SY						
01	OPERATOR FOREMAN 2006	L	1.000	0.104	48				
02	FOREMAN'S PICKUP (HR)	E	1.000	0.029		14			
03	BLADE OPERATOR 2006	L	1.000	0.077	35				
04	CAT 14H BLADE (2004)	E	1.000	0.322		148			
05	BLADE PRO LASER	E	1.000	0.100		46			
06	ROLLER OPERATOR 2006	L	1.000	0.076	35				
07	PNEU ROLLER CAT PS360	E	1.000	0.224		103			
08	FRONT END LOADER OPR 06	L	0.500	0.029	13				
09	CAT 938 G LOADER (1999)	E	0.500	0.085		39			
10	SCRAPER OPERATOR 2006	L	1.000	0.069	32				
11	631 WATER WAGON - RENT	E	1.000	0.630		290			
12	IR SP20 HAND ROLLER(O)	E	0.500	0.027		13			
13	ROLLER OPERATOR 2006	L							
14	ROAD OIL DISTRIBUTOR	B	0.300	0.078	8	27			
15	EMULSION	P	150.000 GAL	1.000		150		<PLUG>	

***** ZERO COST RECORD! *****

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
ANB1431 NB FM 1431 OFF RAMP CO - CONTINUED...								
003	8" CTB	460.000 SY	8.775	236	2,465	1,335	0	4,036
*****				PERM MATL.	2,465	*****	*****	*****
13.1 MAN-HOURS				JOB MATL.				
003A	PRODUCE CTB	225.000 TON	12.562	62	2,370	395		2,827
5/10.0/1--- P - DAYS: 0.11 PROD. RATE: 200.00 TON/HR				PERM MATL.	2,370			
3.6 MAN-HOURS 62.500 TON PER MAN-HOUR 0.016 MAN-HOURS PER TON				JOB MATL.				
01	OPERATOR FOREMAN 2006	L	1.000	0.130	29			
02	FOREMAN'S PICKUP (HR)	E	1.000	0.037		8		
03	GENERAL LABOR	L	1.000	0.057	13			
04	FRONT END LOADER OPR 06	L	1.000	0.072	16			
05	CAT 966 G LOADER (2004)	E	1.000	0.342		77		
06	SCRAPER OPERATOR 2006	L	0.200	0.017	4			
07	613 WATER WAGON - RENT	E	0.200	0.075		17		
08	PUG MILL	e/	225.000 TN	1.000		225		
09	PUG FOG	e/	225.000 TN	0.300		68		
10	FLEX BASE, (TY D)(GR 2)(CL 4)	P	225.000 TN	6.750	1,519			<PLUG>
11	CEMENT, BULK, TY 1	P/	7.000 TN	120.000	840			
12	WATER-CITY OF CEDAR PARK	P	4.000 MGAL	2.770	11			
003B	STOCKPILE AGGREGATE	225.000 TON	0.276	11		51		62
5/10.0/1--- P - DAYS: 0.08 PROD. RATE: 300.00 TON/HR				PERM MATL.				
0.8 MAN-HOURS				JOB MATL.				
01	FRONT END LOADER OPR 06	L	1.000	0.048	11			
02	CAT 966 G LOADER (2004)	E	1.000	0.228		51		
003C	HAUL CTB	113.000 CY	3.869			437		437
5/10.0/1--- P - DAYS: 0.67 PROD. RATE: 16.80 CY/HR				PERM MATL.				
01 AVERAGE HAUL = 3.0 MILES				JOB MATL.				

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							
=====									

LOAD	8.0 MIN							
HAUL	9.0 MIN	SPEED	20 MPH					
DUMP	10.0 MIN							
RETURN	9.0 MIN	SPEED	20 MPH					
WAIT	5.0 MIN							
TOTAL	41.0 MIN							

USE 55 MIN/HOUR
 1.3 LOADS/HOUR
 12.5 CY/LOAD
 16.8 CY/TRUCK HOUR

02 SEMI END DUMP, 25T (OO)	E	1.000	3.869			437		
003D DUMP/SPREAD/COMPACT/FINISH		225.000 TN	2.575	150		429	0	579

5/10.0/1--- P - DAYS: 0.11 PROD. RATE: 200.00 TN/HR PERM MATL.
 JOB MATL.

		7.9 MAN-HOURS	28.571 TN PER MAN-HOUR	0.035 MAN-HOURS PER TN		
01 OPERATOR FOREMAN 2006	L	1.000		0.130	29	
02 FOREMAN'S PICKUP (HR)	E	1.000		0.037		8
03 GENERAL LABOR 2006	L	1.000		0.069	16	
04 BLADE OPERATOR 2006	L	1.000		0.096	22	
05 CAT 140H BLADE (1998)	E	1.000		0.287		65
06 BLADE OPERATOR 2006	L	1.000		0.096	22	
07 CAT 14H BLADE (2004)	E	1.000		0.402		91
08 BLADE PRO LASER	E	1.000		0.125		28
09 ROLLER OPERATOR 2006	L	1.000		0.095	21	
10 HAMM 84" SGL PAD 15 TN - RENT	E	1.000		0.399		90
11 ROLLER OPERATOR 2006	L	1.000		0.095	21	
12 PNEU ROLLER CAT PS360	E	1.000		0.281		63
13 SCRAPER OPERATOR 2006	L	1.000		0.087	20	
14 613 WATER WAGON - RENT	E	1.000		0.376		85

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							
=====									
003E	CURE	460.000 SY	0.265	13	95	23		131	

	5/10.0/1----	P - DAYS: 0.05	PROD. RATE: 1,000.00 SY/HR		PERM MATL.	95			
					JOB MATL.				
	0.9 MAN-HOURS	500.000 SY PER MAN-HOUR	0.002 MAN-HOURS PER SY						
01	ROAD OIL DISTRIBUTOR	B	1.000	0.065		7	23		
02	GENERAL LABOR 2006	L	1.000	0.014		6			
03	EMULSION	P	95.000 GAL	1.000			95	<PLUG>	
004	ASPHALT PAVE	460.000 SY	3.174				1,460	1,460	

					PERM MATL.				
					JOB MATL.				
004A	AUSTIN PAVING	28.000 TN	52.150				1,460	1,460	

					PERM MATL.				
					JOB MATL.				
01	BOND BREAKER (TY D)								
	AREA	460	SY						
	AC THICKNESS	1	IN						
	YIELD	110	LB/SY/IN						
	TONAGE	25	TONS						
02	ADD 10% WASTE								
03	ABR, TY D PAVING	s/	28.000 TN	52.150			1,460		
005	11" CONCRETE PAVEMENT	399.000 SY	68.199	5,178	12,668	8,190	1,175	27,212	

					PERM MATL.	12,205			
					JOB MATL.	464			
005A	MATERIALS AND SUBS	399.000 SY	34.246		12,668		996	13,664	

					PERM MATL.	12,205			
					JOB MATL.	464			
01	CONC, 555 FLEX (PAV) FOB PLANT	P	128.000 CY	46.250		5,920			



ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB EM 1431 OFF RAMP CO	- CONTINUED...							
=====									
02	HAND PAVING WASTE AT 10%								
03	REINF STEEL, PAVING p/	153.000 CWT	34.000		5,202				
04	FIGURED TO USE SINGLE MAT .5% WASTE								
05	REINF STEEL, #6X50 MULTI-PC TB P	138.000 EA	5.250		725			<PLUG>	
06	CONC CURE COMPOUND, TY 2 P	50.000 GAL	2.650		133			<PLUG>	
07	EVAPORATION RETARDER P	11.000 GAL	8.000		88			<PLUG>	
08	REINF STEEL, CHAIR, 11" PAV P	450.000 EA	0.150		68			<PLUG>	
09	SAW & SEAL, 11" CRCP s/	399.000 SY	0.500				200		
10	REINF STEEL, PAV,INSTALL,W/O CH s/	153.000 CWT	3.900				597		
11	EXPANSION JOINT MAT'L, 1/2" P	100.000 SF	0.700		70			<PLUG>	
12									
13	HEADERS, WIRE & PINS j/	399.000 SY	0.100		40				
14	MATURITY LOGGERS j/	1.000 EA	25.000		25				
15	FORM ALLOWANCE j/	399.000 SY	1.000		399				
16									
17	GRINDING SUB - ALLOW s/	399.000 SY	0.250				100		
18	GRINDING/PROFILER SUB s/	399.000 SY	0.250				100		
005B	UNLOAD,HANDLE REBAR	153.000 CWT	0.228	9		26		35	

5/10.0/1--- P - DAYS: 0.06				PROD. RATE: 250.00 CWT/HR		PERM MATL. JOB MATL.			
0.6 MAN-HOURS									
01	FRONT END LOADER OPR 06 L	1.000	0.058	9					
02	CAT 938 G LOADER (1999) E	1.000	0.171			26			
005C	INSTALL MP TIEBARS	138.000 EA	1.300				179	179	

						PERM MATL. JOB MATL.			
01	REINF STEEL, MULTI-PIECE TIEBAR S	138.000 PR	1.300				179		
005D	BLOCKOUTS AT INLETS	2.000 EA	178.644	328		29		357	

5/10.0/1--- P - DAYS: 0.40				PROD. RATE: 0.50 EA/HR		PERM MATL. JOB MATL.			
20.0 MAN-HOURS 0.100 EA PER MAN-HOUR 10.000 MAN-HOURS PER EA									

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							
=====									
01	CARPENTER 4-MAN 2006	L	1.000	58.784					
02	FOREMAN'S PICKUP (HR)	E	1.000	14.700			29		
03	CARPENTER 2006	L	2.000	59.884					
04	GENERAL LABOR	L	2.000	45.276					
005E	ZERO CLEARANCE AND HAND PAVING	128.000 CY	82.392	4,229		6,317	0	10,546	

5/10.0/1---	P - DAYS: 1.28	PROD. RATE: 10.00 CY/HR			PERM MATL.				
					JOB MATL.				
	216.3 MAN-HOURS	0.592 CY PER MAN-HOUR	1.690 MAN-HOURS PER CY						
01	CARPENTER 4-MAN 2006	L	1.000	2.939				376	
02	FOREMAN'S PICKUP (HR)	E	1.000	0.735			94		
03	CONCRETE FINISHER 2006	L	6/11.0 4.000	11.365				1,455	
04	CONCRETE FINISHER PAV 2006	L	6/11.0 4.000	8.411				1,077	
05	GENERAL LABOR 2006	L	1.000	1.383				177	
06	GENERAL LABOR 2006	L	3.000	4.148				531	
07	CLARY SCREED OPER	L	6/11.0 1.000	1.858				238	
08	ALLEN SCREED --	E	1.000	1.256				161	
09	GOMACO 9500 (HR)	E	1.000	40.246				5,151	
10	185 CFM COMPRESSOR, D	E	1.000	0.742				95	
11	POWER BROOM OPER	L	1.000	1.305				167	
12	POWER BROOM - ROSCO RB48	E	1.000	2.290				293	
13	LOWBOY DRIVER 2006	L	1.000	1.630				209	
14	WATER TRUCK - FREIGHTLINER	E	1.000	4.084				523	
005F	CLEANUP	128.000 CY	13.348	612		1,096		1,708	

5/10.0/1---	D - DAYS: 0.50	PROD. RATE: 25.60 CY/HR			PERM MATL.				
					JOB MATL.				
	35.0 MAN-HOURS	3.657 CY PER MAN-HOUR	0.273 MAN-HOURS PER CY						
01	OPERATOR FOREMAN 2006	L	1.000	1.014				130	
02	FOREMAN'S PICKUP (HR)	E	1.000	0.287				37	
03	BLADE OPERATOR 2006	L	1.000	0.752				96	
04	CAT 14H BLADE (2004)	E	1.000	3.144				402	
05	BLADE PRO LASER	E	1.000	0.977				125	
06	FRONT END LOADER OPR 06	L	1.000	0.563				72	
07	CAT 938 G LOADER (1999)	E	1.000	1.668				214	

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
------	-------------	----------	-----------	-------	----------	-----------	-------------	-------

ANB1431 NB FM 1431 OFF RAMP CO - CONTINUED...

08	CONCRETE FINISHER PAV 2006	L	2.000	1.306		167		
09	LOWBOY DRIVER 2006	L	1.000	0.637		82		
10	WATER TRUCK - FREIGHTLINER	E	1.000	1.595			204	
11	POWER BROOM OPER	L	1.000	0.510		65		
12	POWER BROOM - ROSCO RB48	E	1.000	0.895			114	

005G	WET HAUL		128.000 CY	5.634			721	721
------	----------	--	------------	-------	--	--	-----	-----

5/10.0/1--- P - DAYS: 1.80 PROD. RATE: 7.10 CY/HR PERM MATL.
 JOB MATL.

01 FIGURE PLANT LOCATION NORTH OF FM 1431. *71.000/10*

02 THIS IS AN AVERAGE HAUL OF 3.0 MILES

LOAD	8.0 MIN		
HAUL	18.0 MIN	SPEED	10 MPH
DUMP	6.0 MIN		
RETURN	12.0 MIN	SPEED	15 MPH
WASH OUT ETC.	10.0 MIN		
TOTAL	54.0 MIN		

USE 50 MIN/HOUR
 1.0 LOADS/HOUR
 7.0 CY/LOAD
7.1 CY/TRUCK HOUR

03	10 WHEEL END DUMP, 13T (CO)	E	<u>1.000</u> ¹⁰	5.634			721	
----	-----------------------------	---	----------------------------	-------	--	--	-----	--

006	APPROACH SLABS		1,080.000 SF	16.030	7,274	5,180	4,119	739	17,312
-----	----------------	--	--------------	--------	-------	-------	-------	-----	--------

 396.9 MAN-HOURS
 PERM MATL. 4,828
 JOB MATL. 353

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...						

006A	MATERIALS/SUB	44.000 CY	128.393		4,910		739	5,649

					PERM MATL.	4,828		
					JOB MATL.	83		
01	CONCRETE, CL S	P 49.000 CY	49.950			2,448		
02	10% WASTE ALLOWANCE ON CONC.							
03	EXPANSION JOINT AND SEALING, SUBSIDIARY TO CONC PAVING.							
04	EXPANSION JOINT MAT'L, 1.5"	P 200.000 SF	2.000		400			<PLUG>
05	REINF STEEL, STRUCTURES	P/ 55.000 CWT	36.000		1,980			
06	REINF STEEL, SUPPORT STEEL	J 55.000 CWT	1.500		83			<PLUG>
07	SAW & SEAL, 11" CRCP	S/ 120.000 SY	0.500				60	
08	REINF STEEL, STR, INSTALL	S/ 55.000 CWT	12.350				679	

006B	EXC/FINEGRADE SLEEPER SLAB	5.000 CY	36.916	73		112		185

5/10.0/1---	P - DAYS: 0.10	PROD. RATE: 5.00 CY/HR			PERM MATL.			
					JOB MATL.			
	4.5 MAN-HOURS	1.111 CY PER MAN-HOUR	0.900 MAN-HOURS PER CY					
01	OPERATOR FOREMAN 2006	L 0.500	2.597	13				
02	FOREMAN'S PICKUP (HR)	E 0.500	0.735			4		
03	GENERAL LABOR 2006	L 1.000	2.765	14				
04	GENERAL LABOR 2006	L 2.000	5.531	28				
05	EXCAVATOR OPERATOR 2006	L 0.500	1.827	9				
06	CAT 325LBACKHOE (1995)	E 0.500	8.142			41		
07	EXCAVATOR OPERATOR 2006	L 0.500	1.827	9				
08	JD 710 G BACKHOE (2005)	E 0.500	5.492			27		
09	10 WHEEL END DUMP, 13T (OO)	E 1.000	8.000			40		

006C	FORM/STRIP APPROACHES	1,080.000 SF	7.039	5,003	270	2,329		7,602

5/10.0/1---	P - DAYS: 4.32	PROD. RATE: 25.00 SF/HR			PERM MATL.			
					JOB MATL.	270		
	280.8 MAN-HOURS	3.846 SF PER MAN-HOUR	0.260 MAN-HOURS PER SF					
01	CARPENTER 4-MAN 2006	L 1.000	1.176	1,270				
02	FOREMAN'S PICKUP (HR)	E 1.000	0.294			318		
03	CARPENTER 2006	L 3.000	1.797	1,940				
04	FORMSETTER 2006	L 2.000	1.222	1,320				

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: 15
 RUN DATE: 07/21/06
 RUN TIME: 13:35

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							
=====									
007A	DRILLED SHAFT SUB	60.000 VF	70.000				4,200	4,200	

					PERM MATL.				
					JOB MATL.				
	01 DRILLED SHAFT SUB WILL DRILL, FURNISH & PLACE CONCRETE AND TIE & PLACE PARTIAL REBAR CAGE.								
	02 CIDH PILE, 36"	60.000 LF	70.000				4,200		

007B	FURNISH REINF STEEL	7,000.000 LB	0.366		2,564			2,564	

					PERM MATL.	2,520			
					JOB MATL.	44			
	01 INCLUDE HERE REBAR TO TOP DRILLED PORTION + ADDITIONAL SPLICE								
	02 REINF STEEL, DRILLED SHAFTS	P/ 70.000 CWT	36.000		2,520				
	03 REINF STEEL, SUPPORT STEEL	J 29.000 CWT	1.500		44			<PLUG>	

007C	SPOIL REMOVAL & SUPPORT	16.000 CY	19.424	46		265		311	

	5/10.0/1---	P - DAYS: 0.32	PROD. RATE: 5.00 CY/HR		PERM MATL.				
					JOB MATL.				
	3.2 MAN-HOURS 5.000 CY PER MAN-HOUR 0.200 MAN-HOURS PER CY								
	01 HAUL SPOIL TO REQUIRED FILL								
	02 FRONT END LOADER OPR 06	L 1.000	2.882	46					
	03 CAT 938 G LOADER (1999)	E 1.000	8.542			137			
	04 10 WHEEL END DUMP, 13T (OO)	E 1.000	8.000			128			

007D	FORM ABOVE EXISTING GRD	791.000 SF	5.543	1,469	259	2,150	506	4,385	

	5/10.0/1---	T - DAYS: 1.32	PROD. RATE: 60.00 SF/HR		PERM MATL.				
					JOB MATL.	259			
	79.1 MAN-HOURS 10.000 SF PER MAN-HOUR 0.100 MAN-HOURS PER SF								

	WORK DESCRIPTION	QUANTITY	PROD. RATE	PER	HOURS				
:	01 SET AND STRIP 36" ROUND COLUMNS	791.000 SF	15.000	MHR	13.18				
:									
:	DETAIL TOTALS	791.000			13.18 HOURS PER 4.0 MEMBER CREW				

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							

02	CARPENTER 4-MAN 2006	L	1.000	0.490					
03	FOREMAN'S PICKUP (HR)	E	1.000	0.122					
04	CARPENTER 2006	L	3.000	0.749					
05	FORMSETTER 2006	L	1.000	0.255					
06	HYDROCRANE OPER 2006	L	1.000	0.365					
07	HYDROCRANE GROVE RT865	E	1.000	2.595					
08	FORM HARDWARE	J	791.000 SF	0.250			2,053		
09	REINF STEEL, SUPPORT STEEL	J	41.000 CWT	1.500	198			<PLUG>	
10	REINF STEEL, STR, INSTALL	S/	41.000 CWT	12.350	62		506	<PLUG>	
007E	PLACE CONC ABOVE EXIST GRD	22.000 CY	189.048	1,269	1,097		1,794	4,159	

5/10.0/1---	P - DAYS: 1.10	PROD. RATE: 2.00 CY/HR		PERM MATL.	1,097				
				JOB MATL.					
66.0 MAN-HOURS		0.333 CY PER MAN-HOUR	3.000 MAN-HOURS PER CY						
01	CARPENTER 4-MAN 2006	L	1.000	14.696	323				
02	FOREMAN'S PICKUP (HR)	E	1.000	3.675			81		
03	GENERAL LABOR 2006	L	2.000	13.827	304				
04	GENERAL LABOR 2006	L	1.000	6.913	152				
05	CONCRETE FINISHER 2006	L	1.000	11.297	249				
06	HYDROCRANE OPER 2006	L	1.000	10.939	241				
07	HYDROCRANE GROVE RT865	E	1.000	77.850			1,713		
08									
09	CONCRETE, CL C	P	22.000 CY	47.750	1,051				
10	CONC CURE COMPOUND, TY 1	P	14.000 GAL	3.300	46				
008	CREDIT FOR 48" DRILL SHAFTS	48.000 LF	-177.850	-33	-2,400		-103	-6,000	

				PERM MATL.	-2,304				
				JOB MATL.	-96				
008A	CREDIT FOR 48" SHAFT	48.000 LF	-125.000				-6,000	-6,000	

5/10.0/1---	P - DAYS: 2.40	PROD. RATE: 2.00 LF/HR		PERM MATL.					
				JOB MATL.					
01 FIGURE 2 BENT COLUMNS WOULD HAVE BEEN NEEDED IF THE EXTENTION OF ABUT 1 DID NOT OCCUR.									

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NE FM 1431 OFF RAMP CO	- CONTINUED...							

	2 SHAFTS X 24 LF / SHAFT = 48 LF OF 48" DRILL SHAFTS								
02	48" DRILL SHAFT s/	48.000 LF	-125.000				-6,000		
008B	SPOIL REMOVAL & SUPPORT	22.000 CY	-6.217	-33			-103	-137	

	5/10.0/1--- P - DAYS: 0.15		PROD. RATE: 15.00 CY/HR						
	0.7 MAN-HOURS								
01	HAUL SPOIL TO REQUIRED FILL								
02	CAT 938 G LOADER (1999) E	0.500	1.424			31			
03	FRONT END LOADER OPR 06 L	0.500	0.480	11					
04	10 WHEEL END DUMP, 13T (00) E	0.500	1.333			29			
05	LABOR CREDIT FOR 48" DS 1/	2.000 EA	-22.000	-44					
06	EQUIP CREDIT FOR 48" DS e/	2.000 EA	-82.000				-164		
008C	CREDIT FOR 48" DS REINF STEEL	6,411.000 LB	-0.374		-2,400			-2,400	

					PERM MATL.		-2,304		
					JOB MATL.		-96		
01	INCLUDE HERE REBAR TO TOP DRILLED PORTION + ADDITIONAL SPLICE								
02	R S, DRILLED SHAFTS 48" CREDIT p/	64.000 CWT	-36.000		-2,304				
03	REINF STEEL, SUPPORT STEEL j/	64.000 CWT	-1.500		-96				
009	ABUTMENT CONCRETE	26.000 CY	731.194	7,084	4,347	6,839	741	19,011	

	371.8 MAN-HOURS				PERM MATL.		3,870		
					JOB MATL.		477		
009A	BUY MATERIALS	26.000 CY	180.798		3,960		741	4,701	

					PERM MATL.		3,870		
					JOB MATL.		90		
01	BUY ADDITIONAL 8% WASTE								
02	CONCRETE, CL C P	29.000 CY	47.750		1,385				
03	CONC CURE COMPOUND, TY 1 P	10.000 GAL	3.300		33				
04	REINF STEEL, STRUCTURES P/	60.000 CWT	36.000		2,160				

<PLUG>

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							

05	REINF STEEL, SUPPORT STEEL	J 60.000	CWT 1.500		90			<PLUG>	
06	REINF STEEL, STR, INSTALL	S/ 60.000	CWT 12.350				741		
07	EXPANSION JOINT MAT'L, 1"	P 50.000	SF 1.400		70			<PLUG>	
08	FILTER FABRIC FOR EROSION CTRL	P 40.000	SY 0.300		12			<PLUG>	
09	AGGREGATE DRAIN	P 20.000	TN 10.500		210				
009B	FINE GRADE	176.000	SF 3.352	371		219		590	

5/10.0/1---	P - DAYS: 0.35	PROD. RATE: 50.00 SF/HR		PERM MATL.		JOB MATL.			
21.1 MAN-HOURS		8.933	SF PER MAN-HOUR	0.120	MAN-HOURS PER SF				
01	LABORER FOREMAN 2006	L 1.000		0.519					
02	FOREMAN'S PICKUP (HR)	E 1.000		0.147			26		
03	GENERAL LABOR 2006	L 2.000		0.553					
04	CONCRETE FINISHER PAV 2006	L 2.000		0.669		118			
05	EXCAVATOR OPERATOR 2006	L 1.000		0.365					
06	JD 710 G BACKHOE (2005)	E 1.000		1.098			193		
009C	E&S FORMS	774.000	SF 12.254	4,030	271	5,184		9,484	

5/10.0/1---	T - DAYS: 3.18	PROD. RATE: 24.34 SF/HR		PERM MATL.		JOB MATL.			
222.6 MAN-HOURS		3.478	SF PER MAN-HOUR	0.288	MAN-HOURS PER SF				

:	WORK DESCRIPTION	QUANTITY	PROD. RATE	PER	HOURS				
:	01 FOOTER FORMS	270.000 SF	3.000	MHR	15.00				
:	02 BACKWALL FORMS	504.000 SF	5.000		16.80				
:	DETAIL TOTALS	774.000				31.79 HOURS PER 6.0 MEMBER CREW			

02	CARPENTER 4-MAN 2006	L 1.000	1.207	934					
03	FOREMAN'S PICKUP (HR)	E 1.000	0.302				234		
04	CARPENTER 2006	L 3.000	1.845	1,428					
05	FORMSETTER 2006	L 2.000	1.255	972					
06	HYDROCRANE OPER 2006	L 1.000	0.899	696					
07	HYDROCRANE GROVE RT865	E 1.000	6.396				4,950		
08	FORM HARDWARE	J 774.000	SF 0.350		271			<PLUG>	

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							
=====									
009D	PLACE CONCRETE	26.000 CY	67.121	803		942		1,745	

5/10.0/1---	P - DAYS: 0.58	PROD. RATE: 4.50 CY/HR			PERM MATL.				
					JOB MATL.				
	40.4 MAN-HOURS	0.643 CY PER MAN-HOUR	1.556 MAN-HOURS PER CY						
01	CARPENTER 4-MAN 2006	L	1.000	6.532	170				
02	FOREMAN'S PICKUP (HR)	E	1.000	1.633		42			
03	CONCRETE FINISHER PAV 2006	L	3.000	11.147	290				
04	CARPENTER 2006	L	1.000	3.327	86				
05	CONCRETE FINISHER 2006	L	1.000	5.021	131				
06	HYDROCRANE OPER 2006	L	1.000	4.862	126				
07	HYDROCRANE GROVE RT865	E	1.000	34.600		900			

009E	CURE CONCRETE	774.000 SF	0.426	233	77	19		330	

5/10.0/1---	P - DAYS: 0.26	PROD. RATE: 300.00 SF/HR			PERM MATL.				
					JOB MATL.				
	12.9 MAN-HOURS	60.000 SF PER MAN-HOUR	0.017 MAN-HOURS PER SF			77			
01	CARPENTER 4-MAN 2006	L	1.000	0.098	76				
02	FOREMAN'S PICKUP (HR)	E	1.000	0.024		19			
03	GENERAL LABOR 2006	L	2.000	0.092	71				
04	CONCRETE FINISHER PAV 2006	L	2.000	0.111	86				
05	CURE MTRL	j/	774.000 SF	0.100		77			

009F	POINT AND PATCH	774.000 SF	1.689	1,154	39	114		1,307	

5/10.0/1---	P - DAYS: 1.55	PROD. RATE: 50.00 SF/HR			PERM MATL.				
					JOB MATL.				
	46.4 MAN-HOURS	16.667 SF PER MAN-HOUR	0.060 MAN-HOURS PER SF			39			
01	CARPENTER 4-MAN 2006	L	1.000	0.588	455				
02	FOREMAN'S PICKUP (HR)	E	1.000	0.147		114			
03	CONCRETE FINISHER 2006	L	2.000	0.904	700				
04	POINT & PATCH MTRL	j/	774.000 SF	0.050		39			

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...						
009G	BACKFILL BY HAND	85.000 CY	10.047	493		361		854
5/10.0/1--- P - DAYS: 0.57		PROD. RATE: 15.00 CY/HR		PERM MATL.				
				JOB MATL.				
28.3 MAN-HOURS		3.000 CY PER MAN-HOUR	0.333 MAN-HOURS PER CY					
01	LABORER FOREMAN 2006	L 1.000	1.731	147				
02	FOREMAN'S PICKUP (HR)	E 1.000	0.490			42		
03	GENERAL LABOR 2006	L 2.000	1.844	157				
04	IR SP20 HAND ROLLER(O)	E 1.000	0.909			77		
05	ROLLER OPERATOR 2006	L 1.000	1.266	108				
06	CAT 938 G LOADER (1999)	E 1.000	2.847			242		
07	FRONT END LOADER OPR 06	L 1.000	0.961	82				
010	COLUMN CREDIT	17.000 CY	-273.420	-1,465	-2,330	-517	-336	-4,648
*****				PERM MATL.	-2,092	*****		
				JOB MATL.	-238	*****		
010A	CREDIT	17.000 CY	-273.420	-1,465	-2,330	-517	-336	-4,648
				PERM MATL.	-2,092			
				JOB MATL.	-238			
01	LABOR CREDIT	l/ 17.000 CY	-86.180	-1,465				
02	PERM MATERIAL CREDIT	p/ 17.000 CY	-123.080		-2,092			
03	JOB MATERIAL CREDIT	j/ 17.000 CY	-13.980		-238			
04	EQUIPMENT CREDIT	e/ 17.000 CY	-30.400			-517		
05	SUB CREDIT	s/ 17.000 CY	-19.780				-336	
011	CAP CREDIT	15.000 CY	-386.860	-1,982	-2,614	-751	-456	-5,803
*****				PERM MATL.	-2,427	*****		
				JOB MATL.	-188	*****		
011A	CREDIT	15.000 CY	-386.860	-1,982	-2,614	-751	-456	-5,803
				PERM MATL.	-2,427			
				JOB MATL.	-188			

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...						

01	LABOR CREDIT	1/ 15.000 CY	-132.150	-1,982				
02	PERM MATERIAL CREDIT	p/ 15.000 CY	-161.770		-2,427			
03	JOB MATERIAL CREDIT	j/ 15.000 CY	-12.500		-188			
04	EQUIPMENT CREDIT	e/ 15.000 CY	-50.040			-751		
05	SUB CREDIT	s/ 15.000 CY	-30.400				-456	
012	MSE WALL	1,393.000 SF	24.351	5,420	21,699	6,693	108	33,921

				PERM MATL.	21,699			
				JOB MATL.				
	312.8 MAN-HOURS							
012A	BUY MATERIALS	1,393.000 SF	15.261		21,259			21,259

				PERM MATL.	21,259			
				JOB MATL.				
01	MSE WALL PANELS-PLAIN	P 1,393.000 SF	8.500		11,841			
02	TYPE 'A' MSE WALL BKFILL (AGG)	F 790.000 TN	8.750		6,913			
03	CONCRETE, CL A	P 3.000 CY	46.000		138			
04	MSE WALL COPING W/O SSTR	P 74.000 LF	32.000		2,368			
012B	FINEGRADE, PLACE LEVELING PAD	74.000 LF	9.474	604		97		701

	5/10.0/1--- T - DAYS: 0.53	PROD. RATE: 14.00 LF/HR		PERM MATL.				
				JOB MATL.				
	29.6 MAN-HOURS	2.500 LF PER MAN-HOUR	0.400 MAN-HOURS PER LF					

:	WORK DESCRIPTION	QUANTITY	PROD. RATE	PER	HOURS			
:	01 EXCAVATE/FINEGRADE	74.000 LF	6.000	MHR	2.20			
:	02 FORM	74.000 LF	6.000		2.20			
:	03 PLACE/FINISH/CURE	2.000 CY	0.400		0.89			
:								
:	DETAIL TOTALS	150.000			5.28 HOURS PER 5.6 MEMBER CREW			

02	CARPENTER 4-MAN 2006	L 1.000	2.099	155				
03	FOREMAN'S PICKUP (HR)	E 1.000	0.525			39		
04	CONCRETE FINISHER 2006	L 2.000	3.227	239				
05	FORMSETTER 2006	L 2.000	2.182	161				

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...						

06	GENERAL LABOR 2006	L	0.200	0.197	15			
07	GENERAL LABOR 2006	L	0.200	0.197	15			
08	EXCAVATOR OPERATOR 2006	L	0.200	0.261	19			
09	JD 710 G BACKHOE (2005)	E	0.200	0.784		58		
012C	ERECT WALL PANELS	1,393.000 SF	4.049	2,396		3,245		5,641

5/10.0/1---	P - DAYS: 1.99	PROD. RATE: 70.00 SF/HR						
	139.3 MAN-HOURS	10.000 SF PER MAN-HOUR	0.100 MAN-HOURS PER SF					
01	CARPENTER 4-MAN 2006	L	1.000	0.420	585			
02	FOREMAN'S PICKUP (HR)	E	1.000	0.105		146		
03	GENERAL LABOR 2006	L	2.000	0.395	550			
04	GENERAL LABOR 2006	L	3.000	0.593	825			
05	HYDROCRANE OPER 2006	L	1.000	0.313	435			
06	HYDROCRANE GROVE RT865	E	1.000	2.224		3,098		
012D	REINFORCED BACKFILL	439.000 CY	9.126	1,458		2,548		4,006

5/10.0/1---	P - DAYS: 1.76	PROD. RATE: 25.00 CY/HR						
	91.3 MAN-HOURS	4.808 CY PER MAN-HOUR	0.208 MAN-HOURS PER CY					
01	DOZER OPERATOR 2006	L	1.000	0.741	325			
02	CAT D4 XL (1998)	E	1.000	1.619		711		
03	FRONT END LOADER OPR 06	L	1.000	0.576	253			
04	CAT 93B G LOADER (1999)	E	1.000	1.708		750		
05	DYNPAC PNEUMATIC 2.5 TN	E	1.000	1.874		823		
06	ROLLER OPERATOR 2006	L	1.000	0.759	333			
07	GENERAL LABOR 2006	L	2.000	1.106	486			
08	SCRAPER OPERATOR 2006	L	0.200	0.139	61			
09	613 WATER WAGON - RENT	E	0.200	0.602		264		
012E	BRK FILL WALL FRONT TO GRADE	74.000 LF	2.589	90		102		192

5/10.0/1---	P - DAYS: 0.10	PROD. RATE: 75.00 LF/HR						
	5.0 MAN-HOURS	14.706 LF PER MAN-HOUR	0.068 MAN-HOURS PER LF					

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							
=====									
01	OPERATOR FOREMAN 2006	L	1.000	0.346					
02	FOREMAN'S PICKUP (HR)	E	1.000	0.098			7		
03	FRONT END LOADER OPR 06	L	0.500	0.096			7		
04	CAT 938 G LOADER (1999)	E	0.500	0.285			21		
05	DOZER OPERATOR 2006	L	0.500	0.124			9		
06	CAT D4 XL (1998)	E	0.500	0.270			20		
07	GENERAL LABOR 2006	L	2.000	0.369			27		
08	DYNPAC PNEUMATIC 2.5 TN	E	1.000	0.625			46		
09	ROLLER OPERATOR 2006	L	1.000	0.253			19		
10	SCRAPER OPERATOR 2006	L	0.100	0.023			2		
11	613 WATER WAGON - RENT	E	0.100	0.100			7		
012F	FORM, PLACE LEVELUP CONC	74.000 LF	5.085	352			25	376	

5/10.0/1---	P - DAYS: 0.34	PROD. RATE: 22.00 LF/HR			PERM MATL.				
					JOB MATL.				
	16.8 MAN-HOURS	4.400 LF PER MAN-HOUR	0.227 MAN-HOURS PER LF						
01	CARPENTER 4-MAN 2006	L	1.000	1.336			99		
02	FOREMAN'S PICKUP (HR)	E	1.000	0.334			25		
03	CARPENTER 2006	L	2.000	1.361			101		
04	CONCRETE FINISHER 2006	L	2.000	2.054			152		
012G	SET COPING, HALF CONNECTOR	74.000 LF	10.694	309			483	791	

5/10.0/1---	P - DAYS: 0.30	PROD. RATE: 25.00 LF/HR			PERM MATL.				
					JOB MATL.				
	17.8 MAN-HOURS	4.167 LF PER MAN-HOUR	0.240 MAN-HOURS PER LF						
01	COPING WILL NOT INCLUDE RAIL. COPING WILL INCLUDE REBAR TO TIE INTO RAIL, CONCRETE PAVEMENT AND MOMENT SLABS								
02	OPERATOR FOREMAN 2006	L	1.000	1.039			77		
03	FOREMAN'S PICKUP (HR)	E	1.000	0.294			22		
04	CARPENTER 2006	L	1.000	0.599			44		
05	GENERAL LABOR 2006	L	3.000	1.659			123		
06	HYDROCRANE OPRER 2006	L	1.000	0.875			65		
07	HYDROCRANE GROVE RT865	E	1.000	6.228			461		

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							

012H	UNDERDRAIN MATERIALS	74.000 LF	5.946		440			440	

					PERM MATL.	440			
					JOB MATL.				
01	PVC UNDERDRAIN, 6" PERF	P 80.000 LF	2.000		160			<PLUG>	
02	PVC UNDERDRAIN, 6" NONPERF	P 50.000 LF	2.000		100			<PLUG>	
03	AGGREGATE FILTER MATERIAL	P 25.000 TN	6.000		150				
04	GEO FABRIC, EDGE DRAIN	P 100.000 SY	0.300		30			<PLUG>	

012I	INSTALL UNDERDRAIN	74.000 LF	6.948	212		194	108	514	

5/10.0/1---	P - DAYS: 0.19	PROD. RATE: 40.00 LF/HR			PERM MATL.				
					JOB MATL.				
	12.9 MAN-HOURS	5.714 LF PER MAN-HOUR	0.175 MAN-HOURS PER LF						
01	OPERATOR FOREMAN 2006	L 1.000	0.649	48					
02	FOREMAN'S PICKUP (HR)	E 1.000	0.184			14			
03	EXCAVATOR OPERATOR 2006	L 1.000	0.457	34					
04	JD 710 G BACKHOE (2005)	E 1.000	1.373			102			
05	FRONT END LOADER OPR 06	L 1.000	0.360	27					
06	CAT 938 G LOADER (1999)	E 1.000	1.068			79			
07	GENERAL LABOR 2006	L 2.000	0.691	51					
08	PIPE LAYER 2006	L 2.000	0.706	52					
09	ROCK TRENCH EXC-MISC	S 12.000 CY	9.000				108	<PLUG>	

013	PERM TRAFFIC RAIL AND ATTENUATO	180.000 LF	26.480	437	3,840	489		4,766	

					PERM MATL.				
					JOB MATL.	3,840			

013A	MATERIAL	180.000 LF	21.333		3,840			3,840	

					PERM MATL.				
					JOB MATL.	3,840			
01	PORT PRECAST TRAFF BARRIER	J 180.000 LF	21.000		3,780			<PLUG>	
02	BARRIER REFLECTOR-TYPE C	j/ 20.000 EA	3.000		60				

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...						
=====								
013B	UNLOAD & SET PCTB	180.000 LF	4.993	410		489		899

	5/10.0/1--- P - DAYS: 0.30	PROD. RATE: 60.00 LF/HR			PERM MATL.			
					JOB MATL.			
	24.0 MAN-HOURS	7.500 LF PER MAN-HOUR	0.133 MAN-HOURS PER LF					
	01 CARPENTER 4-MAN 2006	L	1.000	0.490	88			
	02 FOREMAN'S PICKUP (HR)	E	1.000	0.122		22		
	03 GENERAL LABOR 2006	L	3.000	0.691	124			
	04 CARPENTER 2006	L	2.000	0.499	90			
	05 HYDROCRANE OPER 2006	L	1.000	0.365	66			
	06 HYDROCRANE GROVE RT865	E	1.000	2.595		467		
	07 GENERAL LABOR 2006	L	1.000	0.230	41			
013C	INSTALL REFLECTORS	20.000 EA	1.383	28				28

	5/10.0/1--- P - DAYS: 0.10	PROD. RATE: 20.00 EA/HR			PERM MATL.			
					JOB MATL.			
	2.0 MAN-HOURS	10.000 EA PER MAN-HOUR	0.100 MAN-HOURS PER EA					
	01 GENERAL LABOR 2006	L	2.000	1.383	28			
014	RIPRAP	1,195.000 SF	3.519	1,415	1,805	984		4,205

					PERM MATL.	1,230		
					JOB MATL.	575		
	74.6 MAN-HOURS							
014A	COMMENTS/MATERIALS	1,195.000 SF	1.511		1,805			1,805

					PERM MATL.	1,230		
					JOB MATL.	575		
	01 20% YIELD LOSS							
	02 CONCRETE, CL B	P	22.000 CY	44.250		974		
	03 10% WASTE ON MESH							
	04 WELDED WIRE FABRIC, 2.9X2.9	P	1,375.000 SF	0.170	234			<PLUG>
	05 LUMBER	J	1.000 MBF	575.000	575			<PLUG>
	06 CONC CURE COMPOUND, TY 1	P	7.000 GAL	3.300	23			<PLUG>

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANBL431	NB FM 1431 OFF RAMP CO	- CONTINUED...							
=====									
014B	FINEGRADE/EXC KEYWAY	1,195.000 SF	0.829	518		473		991	

	5/10.0/1--- P - DAYS: 0.48	PROD. RATE: 250.00 SF/HR		PERM MATL.					
				JOB MATL.					
	29.6 MAN-HOURS	40.323 SF PER MAN-HOUR	0.025 MAN-HOURS PER SF						
01	OPERATOR FOREMAN 2006	L	1.000	0.104	124				
02	FOREMAN'S PICKUP (HR)	E	1.000	0.029		35			
03	DOZER OPERATOR 2006	L	0.400	0.030	35				
04	CAT D4 XL (1998)	E	0.400	0.065		77			
05	EXCAVATOR OPERATOR 2006	L	0.400	0.029	35				
06	CAT 325LBACRHOE (1995)	E	0.400	0.130		156			
07	BLADE OPERATOR 2006	L	0.200	0.015	18				
08	CAT 14H BLADE (2004)	E	0.200	0.064		77			
09	BLADE PRO LASER	E	0.200	0.020		24			
10	IR SP20 HAND ROLLER (O)	E	1.000	0.055		65			
11	ROLLER OPERATOR 2006	L	1.000	0.076	91				
12	GENERAL LABOR 2006	L	2.000	0.111	132				
13	GENERAL LABOR 2006	L	1.000	0.055	66				
14	LOWBOY DRIVER 2006	L	0.200	0.013	16				
15	WATER TRUCK - FREIGHTLINER	E	0.200	0.033		39			

014C	FORM POUR STRIP/RIPRAP	18.000 CY	78.265	898		511		1,409	

	5/10.0/1--- P - DAYS: 0.60	PROD. RATE: 3.00 CY/HR		PERM MATL.					
				JOB MATL.					
	45.0 MAN-HOURS	0.400 CY PER MAN-HOUR	2.500 MAN-HOURS PER CY						
01	CARPENTER 4-MAN 2006	L	1.000	9.797	176				
02	FOREMAN'S PICKUP (HR)	E	1.000	2.450		44			
03	CONCRETE FINISHER 2006	L	3.000	22.594	407				
04	GENERAL LABOR 2006	L	3.000	13.827	249				
05	HYDROCRANE OPER 2006	L	0.500	3.646	66				
06	HYDROCRANE GROVE RT865	E	0.500	25.950		467			

015	ADJUSTMENTS	1.000 LS	25,580.120	5,498	5,833		14,250	25,580	

				PERM MATL.					
				JOB MATL.	5,833				

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL	

ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...							

015A	SURVEY PERSONNEL	0.250 MO	22,990.400	5,498	250			5,748	

	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		

015B	SAFETY AND SMALL TOOLS	2,083.000 MHR	2.680		5,583			5,583	

						PERM MATL.			
						JOB MATL.	5,583		
01	*SAFTY-FIRST AID SUPPLIES	j/	2,083.000 MHR	0.040			83		
02	*SAFTY-PROTECTIVE CLOTHING	j/	2,083.000 MHR	0.070			146		
03	*SAFTY-SAFETY AWARDS	j/	2,083.000 MHR	0.080			167		
04	SAFETY SUPPLIES	j/	1.000 EA	500.000			500		
05	*TOOL-SMALL TOOLS HAND	j/	2,083.000 MHR	0.750			1,562		
06	EMPLOYEE TRAINING	j/	2,083.000 MHR	1.500			3,125		

015C	CONSTRUCTION QA	1.000 LS	7,500.000				7,500	7,500	

						PERM MATL.			
						JOB MATL.			
01	RODRIGUEZ QA	s/	1.000 LS	7,500.000			7,500		
02	AT BID TIME RODRIGUEZ QA TESTING WAS FIGURED TO BE 4.37% OF THE DIRECT CONSTRUCTION DOLLARS.								

015D	DESIGN COST	1.000 LS	6,750.000				6,750	6,750	

						PERM MATL.			
						JOB MATL.			
01	URS	s/	1.000 LS	6,000.000			6,000		
02	AT BID TIME URS PROFESSIONAL SERVICE FEES WERE 3.43% OF THE TOTAL DIRECT CONSTRUCTION DOLLARS. THIS EXCLUDES 2.92 MULTIPLIER								
03	KBR	s/	1.000 LS	750.000			750		

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: 28
RUN DATE: 07/21/06
RUN TIME: 13:35

ITEM	DESCRIPTION	QUANTITY	UNIT COST	LABOR	MATERIAL	EQUIPMENT	SUBCONTRACT	TOTAL
ANB1431	NB FM 1431 OFF RAMP CO	- CONTINUED...						

04 KBR PROFESSIONAL SERVICES WAS FIGURED TO BE 0.43% OF THE TOTAL DIRECT CONSTRUCTION AMOUNT
THIS EXCLUDES KBR'S MULTIPLIER OF 2.92