CONSTRUCTION COMMITTEE MEETING AGENDA

DATE: **Tuesday, September 10, 2024**

TIME: **9:00 AM**

PLACE: **Carl T. Langford Board Room / Orlando International Airport/ One Jeff Fuqua Blvd. / Orlando, FL 32827**

[ITEMS IN BOLD REQUIRE APPROVAL BY THE AVIATION AUTHORITY BOARD]

I. CALL TO ORDER/ ROLL CALL/ ANNOUNCEMENTS

II. CONSIDERATION OF MINUTES [THIS SECTION INTENTIONALLY LEFT BLANK.]

III. CHANGE ORDERS (REFERENCE CHANGE ORDER AGENDA PAGE)

IV. NEW BUSINESS

GENERAL

A. REQUEST FOR APPROVAL OF A JOB ORDER CONSTRUCTION SERVICES ADDENDUM TO THE CONTINUING VERTICAL CONSTRUCTION SERVICES AGREEMENT WITH GOMEZ CONSTRUCTION COMPANY FOR **E-S00018**, TERMINAL C TSA DURESS SYSTEM, AT THE ORLANDO INTERNATIONAL AIRPORT.

B. REQUEST FOR RECOMMENDATION OF APPROVAL OF PAYMENT OF ADDITIONAL BUILDERS RISK INSURANCE PREMIUM TO ARTHUR J GALLAGHER RISK MANAGEMENT SERVICES, LLC. FOR UNDER THE SOFT COSTS ACCOUNT FOR W-S00121, CONSTRUCTION PROJECTS BP-S00195, BP-S00196, AND BP-S00198, AT THE ORLANDO INTERNATIONAL AIRPORT.

C. REQUEST FOR RECOMMENDATION OF APPROVAL OF PAYMENT OF ADDITIONAL OWNER'S PROTECTIVE PROFESSIONAL INDEMNITY INSURANCE PREMIUM TO ARTHUR J GALLAGHER RISK MANAGEMENT SERVICES, LLC. FOR UNDER THE SOFT COSTS ACCOUNT FOR W-S00121, CONSTRUCTION PROJECTS BP-S00195, BP-S00196, AND BP-S00198, AT THE ORLANDO INTERNATIONAL AIRPORT.

D. REQUEST FOR APPROVAL OF A NO-COST ALLOCATION OF COSTS FOR INSURANCE CONSULTANT SERVICES FROM SIVER INSURANCE CONSULTANTS FOR **W-S00121**, TO BP-S00195: TERMINAL C GATES 250-253, BP-S00196: TERMINAL C GATES 250-253 RAMP, REMAIN OVERNIGHT, AIRFIELD, AND BP-S00198: GROUND TRANSPORTATION FACILITY PEDESTRIAN BRIDGE AND RAC LOBBY, AT THE ORLANDO INTERNATIONAL AIRPORT.

E. REQUEST FOR APPROVAL TO AWARD OTHER ENTITY CONTRACT 24-799-OEC FOR THE PURCHASE OF CISCO NETWORK EQUIPMENT TO VEYTEC, INC UTILIZING NO. 43220000-NASPO-19-ACS FOR **W-S00161**, TERMINAL C GTF/RAC LOBBY FF&E AND IT ITEMS, AT THE ORLANDO INTERNATIONAL AIRPORT.

F. REQUEST FOR APPROVAL OF AN ADDENDUM TO THE CONTINUING PROGRAM AND PROJECT MANAGEMENT SERVICES AGREEMENT WITH PSA CONSTRUCTORS, INC., DBA PSA MANAGEMENT, INC. FOR PRE-CONSTRUCTION PHASE OAR SERVICES FOR **BP-00506**, PARKING GUIDANCE SYSTEMS, OAR PRE-CONSTRUCTION SERVICES, AT THE ORLANDO INTERNATIONAL AIRPORT.

G. CONTRACTOR FINAL PAYMENT AUTHORIZATION FOR **V-00974**, AIRSIDES 2 AND 4 CONTINUITY OF OPERATIONS PLAN (COOP) (DESIGN/BUILD), AT THE ORLANDO INTERNATIONAL AIRPORT.

V. INFORMATION ITEMS

A. Field Change Order Log

B. Revised Backup Documentation for Change Order No. BP-00497-01, for Taxiways G and H, with Hubbard Construction Company, at the Orlando International Airport. [From the Construction Committee on August 6, 2024, Item No. III-A].

C. Revised Backup Documentation for Change Order No. BP-S00195-49, for Taxiways G and H, with Hubbard Construction Company, at the Orlando International Airport. [From the Construction Committee on September 3, 2024, Item No. III-B].

D. Small Business Development Department Evaluation of the Good Faith Effort Submission by The Middlesex Corporation for H-00370, Airside 3 Apron PCC Slab Rehabilitation, at the Orlando International Airport. [From the Construction Committee on September 3, 2024, Item No. IV-C].

For individuals who conduct lobbying activities with Aviation Authority employees or Board members, registration with the Aviation Authority is required each year prior to conducting any lobbying activities. Lobbying any Aviation Authority Staff who are members of any committee responsible for ranking Proposals, Letters of Interest, Statements of Qualifications or Bids and thereafter forwarding those recommendations to the Board and/or Board Members is prohibited from the time that a Request for Proposals, Request for Letters of Interests, Request for Qualifications or Request for Bids is released to the time that the Board makes an award. In the event a lobbyist meets with or otherwise communicates with Staff or a Board member, including the Mayor of the City of Orlando or the Mayor of Orange County, the lobbyist shall file a Notice of Lobbying (Form 4) detailing each instance of lobbying to the Aviation Authority within 7 calendar days of such lobbying. Lobbyists will also provide a notice to the Aviation Authority when meeting with the Mayor of the City or Mayor of Orange County at their offices. The policy, forms, and instructions are available on the Aviation Authority's web site ww.orlandoairports.net). Please contact the Chief Administrative Officer, Ms. Yovannie Rodriguez, with questions at (407) 825-7105.

Any appeals of decisions made by the Construction Committee must be filed with the Chief Executive Officer within five business days, no later than 04:00 pm on September 17, 2024. If a bidder or proposer is aggrieved by any of the proceedings of today's meeting and wishes to appeal the results of actions made by this committee, they must file an appeal stating the item they wish to appeal and the basis for which they wish to appeal, and it must be received in writing by the Chief Executive Officer, Mr. Kevin J. Thibault, via email at kevin.thibault@goaa.org, with a copy to yovannie.rodriguez@goaa.org.

Any member of the public who wishes to address the committee on an agenda item being considered at this meeting must notify the committee in writing by submitting a completed Appearance Request Form. This form may be requested from and submitted to the Recording Secretary via email at CCM@goaa.org, or in person on the date of the meeting. Each speaker will be allowed up to three minutes, and speakers will be limited to no more than five speakers per group or joint effort; excluding businesses and other such entities, which will be limited to one speaker to represent the entity, as a whole.

The next Construction Committee Meeting is scheduled for Tuesday, September 17, 2024, at 09:00 am

CONSTRUCTION COMMITTEE MEETING
CHANGE ORDER AGENDA

Tuesday, September 10, 2024

ITEM	CHANGE ORDER	AMOUNT	TIME IMPACT	DESCRIPTION OF CO
III-A	BP-S00195-51	$ 179,084.00	0 (Substantial) 0 (Final)	VARIOUS REVISIONS South Terminal C, Phase 1X - Airside Concourse **Contractor: Hensel Phelps Construction Co. dba Hensel Phelps Construction**
III-B	V-01011-10	$ 97,655.76	0 (Substantial) 0 (Final)	REMOVE METAL SEALANT Airside 4 60's Wing Renovations (Design/Build) **Contractor: Gomez Construction Company**
III-C	V-S00045-02	($ 6,520.00)	0 (Substantial) 0 (Final)	FINAL CHANGE ORDER Terminal C Enhancements Trash Platforms **Contractor: Gomez Construction Company**

***Requires Board approval.**

CC
ITEM III
9/10/2024

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

CHANGE ORDER AGENDA
FOR CONSTRUCTION COMMITTEE

CHANGE ORDER NO. 51	**AMOUNT $179,084.00**	**Extension Of Time (Subst.):**	**0 Days**
		Extension Of Time (Final):	**0 Days**

CONTRACT NO. & DESCRIPTION:	BP- S00195 - SOUTH TERMINAL C, PHASE 1X - Airside Concourse	DATE: 09/10/24
CONTRACTOR:	Hensel Phelps Construction Company	
A/E:	HNTB Corporation	

DESCRIPTION OF CHANGE TO CONTRACT:

1. **Item: RFI 0024 - P1X Air Sampling Control Panels Circuit COR 0017 (R3)**

   Provide all labor and equipment necessary to furnish and install additional conduit, supports, wire, and circuitry to provide power to four (4) Air Sampling Control Panels as identified in RFI 0024 response.

   Add $34,584.00

2. **Item: RFI 0103 - Architectural Finish Schedule COR 0052 (R1)**

   Provide all labor and equipment necessary to provide finish flooring for the designated rooms on the Transfer and International Levels as identified in the RFI 0103 response.

   Add $28,148.00

3. **Item: RFI 0342 & 0342.1 - Alternate Cameras for Discontinued Camera Types COR 0065 (R2)**

   Provide all material necessary to procure current models of discontinued camera types H, J, K, D, and E as identified in Specification Section 28 23 00 and as identified in RFI 0342 and RFI 0342.1 responses. This proposal also includes a credit for the discontinued camera equipment only.

   Add $83,010.00

4. **Item: RFI 0616 Visual Docking Guidance System Operator Panel Locations and Device Service COR 0113 (R0)**

   Provide all material necessary to furnish and install additional conduit, junction boxes, and supports from the VDGS operator panel to the dedicated VDGS device as identified in RFI 0616 response.

   Add $33,342.00

   Total ADD $179,084.00

(The language above will be exactly what will appear on the actual Change Order under "Description of Change".)

CC
ITEM III-A
9/10/2024

GREATER ORLANDO AVIATION AUTHORITY
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REASON FOR CHANGE:

1. **Item: Design Omission:** During the review of the fire alarm drawings with the electrical drawings, the Air Sampling Control Panels (ASCP) did not have destinated circuitry to power the units. RFI 0024 incorporated power requirements for the ASCPs by identifying the electrical branch circuitry on the power plan drawings and updating the electrical panel schedules.

2. **Item: Design Omission:** The contract document's architectural drawing A6.12.01 did not provide a complete finish schedule for rooms on the Transfer and International Levels. The design team provided in RFI 0103 the omitted architectural drawing A6.12.02 of designated room finishes that were not included in the bid documents.

3. **Item: Unforeseen Condition:** The originally specified camera types H, J, K, D, and E as identified in the Contract Specification Section 28 23 00 have been discontinued by the manufacturer. Therefore, it is necessary to procure the most current models as submitted and approved in RFI 0342 and RFI 0342.1 responses. This proposal also includes a credit for the discontinued camera equipment only.

4. **Item: Design Omission:** In the contract Ground Support Equipment (GSE) set of drawings, the QP4 keyed note "M" indicates the Visual Docking Guidance System (VDGS) Operator Panel. On sheet QP4.01.01, there are 3 VDGS units and 3 operator panels shown. On sheet QP4.01.02, there are 3 VDGS devices called out with only one operator panel is shown. Lastly, on sheet QP4.01.03, there are 6 VDGS devices shown, 3 at each gate with only one operator panel shown at each gate. Per the approved Submittal Package 0236 – 27 10 20 – 1, each VDGS unit is intended to have a dedicated operator panel. Also, the GSE drawings do not indicate which operator panel is intended for each VDGS device which is necessary to properly coordinate pathways between the two components. The design team provided updated drawings in RFI 0616 that added the additional VDGS operator panels required for each dedicated VDGS device.

SOURCE OF FUNDS: General Airport Revenue Bonds (GARB's), Passenger Facility Charges (PFC's)

Is above change within the intended scope of the original contract? Yes ☒ No ☐

EXPLAIN:

Previously Presented Bulletin(s):		(Copy Attached)
Previously Approved Field Change Order(s):		(Copy Attached)

Contractor's Original RCO Submission	$	179,084.00	
GOAA/OAR Estimate	$	174,347.00	
(a) Change Contract Amount By			**$** 179,084.00
(b) Amount of Associated Additional A/E Fees	(Not for Approval / For Info. Only)		$
(c) Amount of Associated Additional OAR Fees	(Not for Approval / For Info. Only)		$
(d) Total Cost Impact of this Change (d = a + b + c)			**$** 179,084.00

Is there any potential backcharge to the A/E? Yes ☒ No ☐	Omissions	$ 9,607.00
	Errors	$

PREPARED BY: John Volpe PHONE: 407-825-7838

*NOTE: All Agenda Items are to be submitted to **GOAA's Construction-Engineering-Financial (CEF) Consultant** (i.e., Anser Advisory, LLC). The deadline for the agenda items is **no later than 3:00 p.m. on Tuesdays, two weeks** preceding the intended Construction Committee meeting.*

GOAA's CEF Consultant:	Date Received:	Date Review Completed:	Initials of Reviewer:	Verification of Funding by CF
Anser Advisory	8/27/24	9/4/24	VM	Melvin Martinez

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

CHANGE ORDER AGENDA
FOR CONSTRUCTION COMMITTEE

CHANGE ORDER NO. 10	**AMOUNT $97,655.76**	**Extension Of Time (Subst.):**	**0 Days**
		Extension Of Time (Final):	**0 Days**

CONTRACT NO. & DESCRIPTION:	V-01011 – Airside 4 60's Wing Renovations (D/B)	DATE: 9/10/2024
CONTRACTOR:	Gomez Construction Company	
A/E:	N/A	

DESCRIPTION OF CHANGE TO CONTRACT:

Provide all labor, equipment, and materials to remove the existing metal cladding sealant, lightly abrade the joint edges to remove residual sealant. Once removed, the joint shall be solvent wiped clean, and new Dow 795 silicone sealant shall be installed. Water testing to be completed on inset vertical wall of track. Once inset and additional 4'x4' section of vertical wall have been cleaned, two coats of Sherwin Williams Loxon XP shall be applied. The coating shall be applied according to manufacturer's recommendation. All work shall be completed between the hours of 6:00 pm to 2:00 am. Any work within the APM safety envelope shall be coordinated with the APM scheduled maintenance outage.

ADD: $97,655.76

(The language above will be exactly what will appear on the actual Change Order under "Description of Change".)

REASON FOR CHANGE:

Unforeseen Condition – During the design phase of the project leaks within the 60s wing hold room area were discovered. A portion of these leaks were addressed within change order no. 5 to this project. During the water test that was performed after the roof repair included in change order 5, additional leaks were identified on the vertical cladding members of the APM platform on the transfer level. After further investigation it was determined that the existing caulking for the vertical members is failing. This was bought to GOAA Facilities attention and determined that the repairs should be completed under this project as the contractor is currently on site. An O&M fund code has been provided to compensate the contractor for these leak repairs. The finishes for V-01011, within the 60s wing hold room area cannot be completed until these leaks have been repaired.

SOURCE OF FUNDS: Previously approved Operations and Maintenance funds

O&M Cost Code: 301.631.210.5460002.000.000000

Is above change within the intended scope of the original contract? Yes ☐ No ☒

EXPLAIN: The leaks in this area were discovered once the demo was completed on the hub area, ramp level.

Previously Presented Bulletin(s):	N/A	(Copy Attached)
Previously Approved Field Change Order(s):	N/A	(Copy Attached)

Contractor's Original RCO Submission	$ 97,655.76		
GOAA/OAR Estimate	$ 103,493.38		
(a) Change Contract Amount By		$	97,655.76
(b) Amount of Associated Additional A/E Fees	(Not for Approval / For Info. Only)	$	0.00
(c) Amount of Associated Additional OAR Fees	(Not for Approval / For Info. Only)	$	0.00
(d) Total Cost Impact of this Change (d = a + b + c)		$	97,655.76
Is there any potential backcharge to the A/E? Yes ☐ No ☒	Omissions	$	0.00

CC
ITEM III-B
9/10/2024

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

	Errors	$ 0.00
PREPARED BY: Carmen Hernandez, GCI, Inc.		PHONE: X3386

*NOTE: All Agenda Items are to be submitted to **GOAA's Construction-Engineering-Financial (CEF) Consultant** (i.e., Anser Advisory, LLC). The deadline for the agenda items is **no later than 3:00 p.m. on Tuesdays, two weeks** preceding the intended Construction Committee meeting.*

GOAA's CEF Consultant	Date Received:	Date Review Completed:	Initials of Reviewer:	Verification of Funding by CF
ANSER ADVISORY	8/28/2024	9/04/2024	ZTG	Melvin Martinez

ATTACHMENT A

FINANCE FORM

Date:	9/5/24	**CCM / PC:**	CCM
Requestor's Name:		**Requestor's Extension:**	
Form Preparer's Name:	John Field	**Preparer's Extension:**	x 2495
Requestor's Department:		**Purchasing Solicitation #:**	
Description:	**V-01011 Airside 4 60's Wing Renovation**	**Committee Date:**	9/17/24
Vendor:		**Committee Agenda Item #:**	

NON-PROJECT FUNDS: O&M, CAPEX, OEA REVENUE FUNDS

Account Code Format:	**FY 24 Amount**	**FY25 Amount**	**FY26 Amount**	**FY27 Amount**	**FY28 Amount**	**TOTAL CONTRACT**
301.631.210.5460002.000.000000	97,655.76					97,655.76
Total Requisition:	97,655.76					97,655.76
Requisition Number:	**97821**					
Funding Approver:	Andrea Harper					
OMB Notes:						

Number	Description	Approval Status	Creation Date	Currency	Total	Preparer	Reserved
97821	V-01011 Airside 4 60's Wing Renova	In Process	05-SEP-2024 09:23:3	USD	97,655.76	Field, John M	☑

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

CHANGE ORDER AGENDA
FOR CONSTRUCTION COMMITTEE

CHANGE ORDER NO. 02	**AMOUNT $ (6,520.00)**	**Extension Of Time (Subst.):**	**0 Days**
		Extension Of Time (Final):	**0 Days**

CONTRACT NO. & DESCRIPTION:	V-S0045 Terminal C Enhancements Trash Room Platforms	DATE: 9/10/24
CONTRACTOR:	Gomez Construction Company, Inc.	
A/E:	NA	

DESCRIPTION OF CHANGE TO CONTRACT: **Final Change Order**

Item #1: Final Adjustment of Allowance Amount – Final reconciliation of the *Modify Trash Chutes Allowance* for $10,000.00. The actual cost of the work totaled $3,480.00. This change order reduces the contract allowance by the unused portion of the allowance amount. DEDUCT: ($6,520.00)

(The language above will be exactly what will appear on the actual Change Order under "Description of Change".)

REASON FOR CHANGE:

Item #1: Allowance Reconciliation– Unused balance of allowance not needed as all scope has been completed in the field; the project is substantially complete and in close-out.

SOURCE OF FUNDS: Previously approved General Airport Revenue Bonds

Is above change within the intended scope of the original contract? Yes ☒ No ☐

EXPLAIN:

Previously Presented Bulletin(s):	NA	(Copy Attached)
Previously Approved Field Change Order(s):	NA	(Copy Attached)

Contractor's Original RCO Submission	$ **NA**	
GOAA/OAR Estimate	$ NA	
(a) Change Contract Amount By		**$ (6,520.00)**
(b) Amount of Associated Additional A/E Fees	(Not for Approval / For Info. Only)	$ 0.00
(c) Amount of Associated Additional OAR Fees	(Not for Approval / For Info. Only)	$ 0.00
(d) Total Cost Impact of this Change (d = a + b + c)		**$ (6,520.00)**

Is there any potential backcharge to the A/E? Yes ☐ No ☒	Omissions	$ 0.00
	Errors	$ 0.00

PREPARED BY: Don Corthell, PSA PHONE: 407-492-6319

*NOTE: All Agenda Items are to be submitted to **GOAA's Construction-Engineering-Financial (CEF) Consultant** (i.e., Anser Advisory, LLC). The deadline for the agenda items is **no later than 3:00 p.m. on Tuesdays, two weeks** preceding the intended Construction Committee meeting.*

GOAA's CEF Consultant: Anser Advisory	Date Received: 08/27/2024	Date Review Completed: 09/04/2024	Initials of Reviewer: MM	Verification of Funding by CF: Melvin Martinez

CC
ITEM III-C
9/10/2024

Published By: Don Corthell, PSA
Reviewed By: Ksenia Merck

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

MEMORANDUM

TO: Members of the Construction Committee

FROM: Scott Shedek, VP of Construction

DATE: September 10, 2024

ITEM DESCRIPTION

Request for Approval of a Job Order Construction Services Addendum to the Continuing Vertical Construction Services Agreement with Gomez Construction Company for E-S00018 Terminal C TSA Duress System, at the Orlando International Airport.

BACKGROUND

The above-referenced project is to provide all labor, materials, cabling, conduit and programming to provide : 1) three (3) owner provided rack mounted network video encoders integrated into the TSA VSS system; 2) Terminate thirty-nine (39) hardwired duress buttons in the field and at the head-end; 3) program camera call-up upon duress activation; 4) adjust field of view for existing cameras as needed; and 5) trouble shoot and or fix one existing camera that is currently offline.

ISSUES

Duration of the project is 120 calendar days for Substantial Completion and 60 calendar days for Final Completion, wi th an anticipated Notice-to-Proceed (NTP) date of September 24, 2024. Liquidated Damages are defined as $0.00 per calendar day for late Substantial Completion, and $0.00 per calendar day for late Final Completion.

This continuing contractor was selected for this project based on (☑ all that apply):

☒ Experience ☒ Available Personnel ☐ Current Workload

☒ Expertise ☒ Equitable Distribution ☐ Other:_____

SMALL BUSINESS

The MWBE/LDB participation has been reviewed by the Office of Small Business Development. Their findings and recommendation are attached.

ALTERNATIVES

None.

FISCAL IMPACT

Funding is from previously approved General Airport Revenue Bonds. Funding source verifed by Melvin Martinez of Construction Finance on 09 /05 / 24 as correct and available.

CC
ITEM IV-A
9/10/2024

RECOMMENDED ACTION

It is respectfully requested that the Construction Committee approve a Job Order Construction Services Addendum to the Continuing Vertical Construction Services Agreement with above-referenced continuing contractor in the total direct-negotiated amount of $201,994.42, which includes a Lump Sum amount of $201,994.42 and al lowance(s) totaling the amount of $0.00 including Performance and Payment Bonds in the amount of $1,920.71.

The invoicing method for this Job Order Contract will be:

☒ Lump Sum (~~with or~~ w/o Allowances)

Lump Sum	$201,994.42
Allowance(s) (NTE)	$0.00
TOTAL	**$201,994.42**
AAC – Compliance Review Date	09/05/2024 MM
AAC – Funding Eligibility Review Date	09/05/2024

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

MEMORANDUM

TO: Members of the Construction Committee

FROM: Edelis Molina, Manager Small Business Programs

DATE: September 10, 2024

ITEM DESCRIPTION

Request for Approval of a Job Order Construction Services Addendum to the Continuing Vertical Construction Services Agreement with Gomez Construction Company for E-S00018 Terminal C TSA Duress System, Orlando International Airport

SMALL BUSINESS

We have reviewed the qualifications of the subject contract's MWBE/LDB/VBE specifications and have determined that Gomez Construction Company proposes 39% MWBE participation on this job order construction services addendum.

Orlando International Airport
One Jeff Fuqua Boulevard, Orlando, Florida 32827
407-825-2001

MWBE UTILIZATION FORM FOR NON-FEDERALLY FUNDED PROJECTS
PLEASE COMPLETE THIS FORM

This form should be used to report Construction and Engineering /Professional Services activities.

Name of Airport: **Orlando International Airport** Telephone No: **(407) 825-7179**

Address: **One Jeff Fuqua Boulevard, Orlando, FL 32827**

Project Name & Number: **Request for Approval of a Job Order Construction Services Addendum to the Continuing Vertical Construction Services Agreement with Gomez Construction Company for E-S00018 Terminal C TSA Duress System, Orlando International Airport**

1. Construction Information:

TOTAL: **$201,994.42**

2. MWBE Goal by Group Representation:

Asian Pacific American	-	Actual Result	0%
Asian Subcontinent American	-	Actual Result	0%
Black American	-	Actual Result	0%
Caucasian Female American	-	Actual Result	0%
Hispanic American	78,414.00	Actual Result	39%
Native American	-	Actual Result	0%
Other		Actual Result	0%
Total MWBE Participation	**78,414.00**	**Actual Result**	**39%**

3.a. Prime Contractor Information:

Name: **Gomez Construction Company**
Address: **750 Jackson Avenue**
City, State, Zip: **Winter Park, Florida 32789**
Telephone: **407-628-4353**

3.b. Name and Address of MWBE Subcontractor

Name: **Quality Cable Contractors, Inc.**
Address: 1936 Premier Row Suite 600
City, State, Zip: Orlando, FL 32809
Telephone: 407-246-0606 Ext. 208

3.c. *Identity: Hispanic American
Work Item(s): Low Voltage
Amount of Subcontract $78,414.00
Percent of Prime Contract (%): 39%

4. Engineering/Professional Services Information:

TOTAL:

5. MWBE Goal by Group Representation:

Asian Pacific American		Actual Result	
Asian Subcontinent American		Actual Result	
Black American		Actual Result	
Caucasian Female American		Actual Result	
Hispanic American		Actual Result	
Native American		Actual Result	
Other		Actual Result	
Total MWBE Participation	-	**Actual Result**	

6.b. Engineering / Professional Service Firm Information:

Name:
Address:
City, State, Zip:
Telephone:

6.b. Name and Address of MWBE Subconsultant

Name:
Address:
City, State, Zip:
Telephone:

6.c. *Identity:
Work Item(s):
Amount of Subcontract
Percent of Prime Contract (%):

*** In Items 3.c. and 6.c. above specify the identity of MWBE Subcontractors and E/PS Firms (e.g. Black American, Hispanic American, Asian Subcontinent American, Asian Pacific American, Caucasian Female American, Native American & Other)**

Published By:
Reviewed By:

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

MEMORANDUM

TO: Members of the Construction Committee

FROM: Tricia Cottman, Vice President of Risk Management

DATE: September 10, 2024

ITEM DESCRIPTION

Request for Recommendation of Approval of Payment of Additional Builders Risk Insurance Premium to Arthur J Gallagher Risk Management Services, LLC ("Gallagher") for under the Soft Costs account of WS00121 for Construction Projects #BP-S00195, BP-S00196 & BP-S00198 at the Orlando International Airport

BACKGROUND

On September 21, 2022, the Aviation Authority approved, as the recommendation of Construction Committee from September 6, 2022, the procurement of the Rolling Master Builders Risk insurance program for major construction projects and authorized payment of the deposit premium in the amount of $3,460,748. The Rolling Master Builders Risk insurance program was established to cover major construction projects, which are enrolled upon Notice to Proceed and intended to cover during the project's construction phase, based on required quarterly reporting and subject to final audit. BPS195 & BPS198 were enrolled in the first iteration of this Rolling Master Builders Risk policy.

On December 13, 2023, the Authority Board approved and ratified the 2023 terms and rates of the second iteration of the Rolling Master Builders Risk Insurance for any new construction added within the twelve-month period beginning November 1, 2023, and authorized an Authority Officer or the CEO to execute following satisfactory review by legal counsel. On February 21, 2024, the Aviation Authority Board approved award of project BPS196 at the recommendation of Construction Committee from February 6, 2024, which included approval of an additional Builders Risk premium in the amount of $1,365,588.

ISSUES

The previously approved insurance premiums totaling $4,826,336 for the Rolling Master Builders Risk insurance were allocated for the capital programs covered by this insurance coverage. Based on a myriad of conditions to include, but not limited to, the value of the construction, schedule, market conditions, and risk, Table 1 displays the proposed allocation of the Rolling Master Builders Risk premium by capital project, resulting in an increase of $373,664.

Table 1

Description	Current Premium Allocation	New Premium Allocation	Change
BPS00195 Terminal C Gates 250-253	$ 2,747,331.00	$ 2,650,000.00	$ (97,331.00)
BPS00196 Terminal C Gates 250-253 Ramp, Remain Overnight, Airfield	1,385,295.00	1,750,000.00	364,705.00
BPS00198 Ground Transportation Facility Pedestrian Bridge and Level 3 Build-out	693,710.00	800,000.00	106,290.00
	$ 4,826,336.00	$ 5,200,000.00	$ 373,664.00

CC
ITEM IV-B
9/10/2024

The revised proposed premium and allocations by project are estimated based on the best available information to date. As construction progresses, and data is updated or becomes available these allocations may be revised upon evaluation of the quarterly reporting updates, resulting in subsequent payments within this allocation. Adjustments in premiums are anticipated to correlate with adjustments of projects costs and completion date. Premium is subject to final audit at the close of each project.

FISCAL IMPACT

Funding is from previously-approved funding sources for the applicable capital project, such as but not limited to General Airport Revenue Bonds, Customer Facility Charges, Capital Expenditure Funds, Line of Credit to be reimbursed by General Airport Revenue Bonds, and Florida Department of Transportation grants, to the extent eligible. Funding source verified by Melvin Martinez of Construction Finance on 09 / 05 / 24 as correct and available.

RECOMMENDED ACTION

It is respectfully requested that the Construction Committee recommend to the Aviation Authority Board approval of the procurement of this Builder's Rick Insurance policy and authorize payment to Arthur J. Gallagher Risk Management Services, LLC for the adjusted premiums to Rolling Master Builders Risk as shown below.

Not to Exceed Fees	$0.00
Lump Sum Fees	$0.00
Not to Exceed Expenses	$373,664.00
TOTAL	**$373,664.00**
AAC – Compliance Review Date	
AAC – Funding Eligibility Review Date	9/03/2024

Karen Ryan Digitally signed by: Karen Ryan
DN: CN = Karen Ryan
Date: 2024.08.30 13:48:26 -04'00'

Published By:
Reviewed By:

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

MEMORANDUM

TO: Members of the Construction Committee

FROM: Tricia Cottman, Vice President of Risk Management

DATE: September 10 , 2024

ITEM DESCRIPTION

Request for Recommendation of Approval of Payment of Additional Owner's Protective Professional Indemnity (OPPI) Insurance premium to Arthur J Gallagher Risk Management Services, LLC ("Gallagher") under the Soft Costs account of WS0021 for Construction Projects #BP-S00195, BP-S00196 & BP-S00198 at the Orlando International Airport

BACKGROUND

On September 21, 2022, the Aviation Authority approved, at the recommendation of Construction Committee from September 6, 2022, the procurement of the Owner's Protective Professional Indemnity (OPPI) insurance program for major construction projects and authorized payment of the deposit premium in the amount of $1,254,580. The deposit premium was conditionally based on each project's construction values, schedule, market conditions, and risk at the time of proposal.

ISSUES

The Authority received a proposal from its insurance broker Arthur J Gallagher for OPPI coverage on August 19, 2024, indicating an additional premium based on updated construction values, schedule, and current market conditions, including extension of policy term through December 31, 2027. The previously approved OPPI total premium of $1,254,580 was allocated amongst the Aviation Authority's capital projects. Table 1 displays the current allocation of the OPPI premium by program and the estimated new premium totals, resulting in a premium increase of $435,420. The proposal provided is an estimate; therefore, to ensure the Aviation Authority can secure the necessary level of coverage, approval is being requested for the allowance listed below. Payment will only be made for the value needed to secure OPPI coverage.

Table 1

Description	Current Premium Allocation	New Premium Allocation	Change
BPS00195 Terminal C Gates 250-253	$ 908,192.00	$ 965,000.00	$ 56,808.00
BPS00196 Terminal C Gates 250-253 Ramp, Remain Overnight, Airfield	220,500.00	375,000.00	154,500.00
BPS00198 Ground Transportation Facility Pedestrian Bridge and Level 3 Build-out	125,888.00	350,000.00	224,112.00
	$ 1,254,580.00	$ 1,690,000.00	$ 435,420.00

The program allocations are estimated based on the best available information to date. As construction progresses, and data is updated or becomes available these allocations may be revised.

CC
ITEM IV-C
9/10/2024

FISCAL IMPACT

Funding is from previously-approved funding sources for the applicable capital project, such as but not limited to General Airport Revenue Bonds, Customer Facility Charges, Capital Expenditure Funds, Line of Credit to be reimbursed by General Airport Revenue Bonds, and Florida Department of Transportation grants, to the extent eligible. Funding source verified by Melvin Martinez of Construction Finance on 09 / 05 / 24 as correct and available.

RECOMMENDED ACTION

It is respectfully requested that the Construction Committee recommend to the Aviation Authority Board approval of the procurement of this OPPI policy and authorize payment to Arthur J. Gallagher Risk Management Services, LLC for the adjusted premiums to OPPI as shown below.

Not to Exceed Fees	$0.00
Lump Sum Fees	$0.00
Not to Exceed Expenses	$435,420.00
TOTAL	**$435,420.00**
AAC – Compliance Review Date	
AAC – Funding Eligibility Review Date	9/03/2024

Karen Ryan Digitally signed by: Karen Ryan
DN: CN = Karen Ryan
Date: 2024.08.30 13:49:13 -04'00'

Published By: Tricia Cottman VP of Risk
Reviewed By: Anser Consulting

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

MEMORANDUM

TO: Members of the Construction Committee

FROM: Tricia Cottman, Vice President of Risk Management

DATE: September 10, 2024

ITEM DESCRIPTION

Request for Approval of a no-cost allocation of costs for Insurance Consultant Services from Siver Insurance Consultants (Siver) for W-S00121 to BPS195: Terminal C Gates 250-253, BPS196: Terminal C Gates 250-253 Ramp, Remain Overnight, Airfield, and BPS198: Ground Transportation Facility Pedestrian Bridge and RAC Lobby at the Orlando International Airport

BACKGROUND

On March 26, 2024, the Procurement Committee approved the contract for 24-375-RFP Insurance Consultant Services (aka W-S00121) with a five-year term and an a not to exceed amount of $250,000 over the term of the contract, billable at agreed hourly rate.

ISSUES

The contract was initially estimated to be funded completely as Operations & Maintenance funding; however, this contract will also support insurance needs for capital programs. The costs shown in Table 1 below are the estimated insurance consultant needs by capital program over the course of each program's construction schedule.

Table 1

Description		Costs
Terminal C Gates 250-253	$	35,000.00
Terminal C Gates 250-253 Ramp, Remain Overnight, Airfield		20,000.00
Ground Transportation Facility Pedestrian Bridge and Level 3 Build-out		10,000.00
	$	65,000.00
Operations and Maintenance funded services	$	185,000.00
Total contract value	$	250,000.00

These costs are estimated and may be reallocated over the construction period between the capital programs to reflect actual costs of insurance consultant services. Any increase in the overall estimated costs allocated to the projects will be brought back to this committee for approval, while reallocations between programs up to the current value can be allocated by staff within the available capital program budgets. The amount paid to the Consultant is based on the work requested, performed, and approved by Risk Management staff.

SMALL BUSINESS

The Aviation Authority did not establish any small business participation goal on this contract due to the limited scope and the lack of certified small business firms that are ready, willing, and able to participate.

ALTERNATIVES

None

FISCAL IMPACT

Funding is from previously approved funding source for the applicable capital project, such as but not limited to General Airport Revenue Bonds, Customer Facility Charges, Capital Expenditure Funds, Line of Credit to be reimbursed by General Airport Revenue bonds, and Florida Department of Transportation grants, to the extent eligible. Funding source verified by Melvin Martinez of Construction Finance on 09 / 05 / 24 as correct and available.

RECOMMENDED ACTION

It is respectfully requested that the Construction Committee approve the allocation of costs for insurance consulting services under RFP 24-375 (WS00121) for the Terminal C Gates 250-253, Terminal C Gates 250-253 Ramp, Remain Overnight, Airfield, and Ground Transportation Facility Pedestrian Bridge and RAC Lobby programs in the amounts set forth herein.

Not to Exceed Fees	$0.00
Lump Sum Fees	$0.00
Not to Exceed Expenses	$0.00
TOTAL	**$0.00**
AAC – Compliance Review Date	
AAC – Funding Eligibility Review Date	9/03/2024

Karen Ryan Digitally signed by: Karen Ryan
DN: CN = Karen Ryan
Date: 2024.08.30 13:52:29 -04'00'

Greater Orlando Aviation Authority

Date:	*3/11/2024*	**CCM / PC:**	PC
Requestor's Name:	*Tricia Cottman*	**Requestor's Extension:**	2818
Form Preparer's Name:	*Sharda Sanassi*	**Preparer's Extension:**	2108
Requestor's Department:	*Risk Management*	**Purchasing Solicitation #:**	24-375-RFP
Description:	*Professional Svcs: Insurance Consultant*	**Committee Date:**	3/19/2024
Vendor:	Siver Insurance Consultants	**Committee Agenda Item#:**	

NON-PROJECT FUNDS: O&M, CAPEX, OEA REVENUE FUNDS

Account Code Format: xxx.xxx.xxx.xxxxxxx.xxx.xxxxxx	FY 24 Amount	FY 25 Amount	FY 26 Amount	FY 27 Amount	FY 28 Amount	Total Contract
301.513.170.5310009.000.000000	48,000.00	50,000.00	50,000.00	50,000.00	50,000.00	248,000.00
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
Total Requisition	48,000.00	50,000.00	50,000.00	50,000.00	50,000.00	248,000.00
BPA or Requisition Number	**96521**	**96522**	**96523**	**96524**	**96525**	

Funding Approver: Andrea Harpas
OMB Notes:

Number	Description	Approval Status	Creation Date	Currency	Total	Preparer	Reserved
96521	FY24 Siver Insurance Consultants 24-375-RFP	In Process	19-MAR-2024	USD	48,000.00	Sanassi, Sharda	☑

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

Published By: Pankaj Gupta, Jacobs PMO
Reviewed By:

MEMORANDUM

TO: Members of the Construction Committee

FROM: Scott Shedek, V.P. of Construction

DATE: September 10, 2024

ITEM DESCRIPTION

Request for Approval to Award Other Entity Contract (OEC) 24-799-OEC for the purchase of Cisco network equipment from Veytec, Inc. utilizing #43220000-NASPO-19-ACS for the W-S00161 Terminal C GTF/RAC Lobby FF&E and IT Items at Orlando International Airport.

BACKGROUND

43220000-NASPO-19-ACS is effective until September 30, 2026.

This is for the purchase of Cisco network equipment as Owner Furnished Equipment for supporting the BP-S00198 GTF Pedestrian Bridge and RAC lobby project.

This item was selected by Engineers, Architects and Designers, working on the plans in coordination with the Agency requirements. The item is required to be compatible with the setup as installed in Terminal C Phase 1, and the ASC Gates 250-253 projects.

ISSUES

On August 21, 2024, the Aviation Authority received a proposal for purchase of Cisco Network equipment from Veytec, Inc. as follows:

Company	Bid Amount
Veytec, Inc.	$ 87,106.34

This award is based on a Government Contract/Annual Contract in accordance with Aviation Authority Policy 450.02 which states that the Aviation Authority may acquire Goods, Services and Professional Services by Direct Negotiation or other method involving limited or no competition from a Supplier having a requirements contract, annual agreement, or multi-year contract with any public entity (e.g., federal, state, county, city, authority, school board, Buying Cooperative, etc.) for Goods, Services, or Professional Services described in the contract and at prices or discounts no less favorable than any outlined in such Contracts.

SMALL BUSINESS

The Small Business Development Department (SBDD) has reviewed the requirements of the above-referenced solicitation and has determined that there are no small business goals for Minority and Women Business Enterprise (MWBE), Local Developing Business (LDB), and/or Veteran Business Enterprise (VBE) participation, as the SBDD cannot change the terms and conditions of an existing contract, such as 43220000-NASPO-19-ACS.

ALTERNATIVES

None.

CC
ITEM IV-E
9/10/2024

FISCAL IMPACT

Funding is from previously approved Customer Facility Charges. Funding source verified by Melvin Martinez of Construction Finance on 09/ 04/ 24 as correct and available.

RECOMMENDED ACTION

It is respectfully requested that the Construction Committee approve the following: (1) award 24-799-OEC for a one-time procurement of Cisco Network Equipment to Veytec, Inc. as the awarded Contractor; (2) authorize funding from the previously approved Customer Facility Charges in the not-to-exceed amount of $87,106.34; and (3) approve the Procurement Services Department to issue the necessary Purchase Order.

Lump Sum	$0
Unit Price(s) (NTE)	$ 87,106.34
TOTAL	$ 87,106.34
AAC – Compliance Review Date	SJ 08/29/24
AAC – Funding Eligibility Review Date	09/03/24

Published By: Don Corthell, PSA
Reviewed By:

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

MEMORANDUM

TO: Members of the Construction Committee

FROM: Robert Furr, Vice President, Engineering and Architecture

DATE: September 10, 2024

ITEM DESCRIPTION

Request for Approval of an Addendum to the Continuing Program and Project Management Services Agreement with PSA Constructors, Inc., dba PSA Management, Inc. for Preconstruction Phase OAR Services for BP-00506 Parking Guidance Systems, at the Orlando International Airport

BACKGROUND

On May 18, 2022, the Aviation Authority approved an agreement with PSA Constructors, Inc. dba PSA Management, Inc. for Continuing Program and Project Management (OAR) Services to the Aviation Authority at the Orlando International Airport, Orlando Executive Airport and Other Facilities.

GOAA is undertaking a project to provide a fully functional Parking Guidance System totaling approximately 10,794 parking spaces. This project will provide the labor, materials, hardware, and software required to design, furnish, install, and maintain an automated Parking Guidance System for the Parking Garages A, B and C as well as the Terminal Top, at the Orlando International Airport.

GOAA Procurement and Parking are the Sponsors and are providing overall management of the procurement phase of the project; Lumin Advisors is the subject-matter expert (SME) which has been contracted by GOAA Parking to provide Technical Documents for the RFP and other associated SME assistance.

ISSUES

Consultant's proposal, dated August 25, 2024, is to provide preconstruction phase OAR services. The scope of services will consist of the following services in conjunction with GOAA Procurement, Parking, Legal and Lumin Advisors to include as needed: review of proposals received, field investigations with bidders, communications with the Procurement Committee, and final contract review and negotiations prior to NTP.

If approved, services will be effective the date of Construction Committee approval.

This continuing consultant was selected for this task based on (☑ all that apply):

☒ Experience	☒ Available Personnel	☐ Current Workload
☒ Expertise	☐ Equitable Distribution	☐ Other:_____

SMALL BUSINESS

The MWBE/DBE participation has been reviewed by the Office of Small Business Development. Their findings and recommendation are attached.

CC
ITEM IV-F
9/10/2024

ALTERNATIVES

None.

FISCAL IMPACT

Funding is from Line of Credit to be reimbursed by General Airport Revenue Bonds(GARBs). Funding source verified by Melvin Martinez of Construction Finance on 09 / 04 / 24 as correct and available.

RECOMMENDED ACTION

It is respectfully requested that the Construction Committee approve an Addendum to the Continuing Program and Project Management Services Agreement with PSA Constructors, Inc. dba PSA Management, Inc. for the services contained herein and the amount as shown below:

Not to Exceed Fees	$16,290.00
Lump Sum Fees	$0.00
Not to Exceed Expenses	$0.00
TOTAL	**$16,290.00**
AAC – Compliance Review Date	N/R 9/03/2024
AAC – Funding Eligibility Review Date	9/03/2024

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

MEMORANDUM

TO: Members of the Construction Committee

FROM: Edelis Molina, Manager Small Business Programs

DATE: September 10, 2024

ITEM DESCRIPTION

Request for Approval of an Addendum to the Continuing Program and Project Management Services Agreement with PSA Constructors, Inc. dba PSA Management Inc. for Preconstruction Phase OAR Services for BP-00506 Parking Guidance Systems, at the Orlando International Airport

SMALL BUSINESS

We have reviewed the qualifications of the subject contract's MWBE/LDB/VBE specifications and determined that PSA Constructors, Inc. dba PSA Management, Inc. does not propose small business participation on this addendum as the services being provided are for staffing support.

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

MEMORANDUM

TO: **Members of the Construction Committee**

FROM: **Scott Shedek**
Vice President of Construction

DATE: **August 10, 2024**

RE: **CONTRACTOR FINAL PAYMENT AUTHORIZATION**
V-00974 Airsides 2 & 4 Continuity of Operations Plan (COOP) D/B

CONTRACTOR: Gomez Construction Company

The **Construction Contract** for referenced project has been completed and all issues involving the Contractor have been addressed and resolved. Attached is a copy of the current overall project status.

It is respectfully requested that the Construction Committee authorize final payment to **Gomez Construction Company** for **V-00974 Airsides 2 & 4 Continuity of Operations Plan (COOP) D/B.**

SS:kc

Attachment

CC
ITEM IV-G
9/10/2024

1. SCOPE: Fabricated and installed new canopies at Airsides 2 and 4 for the emergency egress of passengers from the APM platforms as a Continuity of Operations Plan (COOP) at the Orlando International Airport. Design and installation shall include an ADA ramp at Airside 2. Allowances were included for the installation of steel bollards at existing columns, interior renovations at Airside 4, and for canopy lighting.

2. SCHEDULE:

Notice to Proceed		05/23/22
Original Contract Completion	120 Days	09/19/22
Time Extensions Approved	0 Days	
Time Suspensions Approved	0 Days	
Revised Contract Completion	120 Days	**09/19/22**
Contract Required Milestone ▪ No milestones established for this project		N/A
Partial Occupancy / Use Agreement ▪ None issued		N/A
Certificate of Occupancy / Agency Sign Off ▪ Building Permit #: BLD2023-19740		11/13/23
Actual Substantial Completion *		**11/02/23**
Contractually Required Final Completion	30 Days	12/02/23
Actual Final Completion *		08/26/24
Final Inspection w/FAA/FDOT (If Required)		N/A

***Comments:** Substantial Completion was achieved 409 calendar days late due to Owner Requested changes. The Aviation Authority had beneficial occupancy and full use of the project facilities at Substantial Completion with no resulting impacts on operations. The Aviation Authority did not incur any added costs because of this late completion. The Contract Documents define Liquidated Damages for late Substantial Completion as $0.00/Day.

Final Completion was achieved 268 calendar days late. The processing of (4) change orders and the late submission of the closeout documents delayed closeout of the project. The Aviation Authority did not incur any added costs because of this late completion. The Contract Documents define Liquidated Damages for late Final Completion as $0.00/Day.

3. TEAM:

A. DESIGNER: N/A

B. CONTRACTOR: Gomez Construction Company
Performance - Construction Phase = Good
Performance - Close-Out Phase = Good
(Project Manager: Robert E. Lacey)

Subcontractor	Minority (Y/N)	Minority Type	Minority % of Work	Contractor's Performance Evaluation
All-Rite Fence Services	N			Good
Designers West Interiors	Y	MWBE	1.0%	Good
Electric Services, Inc.	N			Good
White Sign Company	N			Good

(Performance Ratings: Good, Fair, Poor)

Work Performed by LDB Minority Subcontractors:	0.0%
Work Performed by MWBE Minority Subcontractors:	1.0%
Work Performed by SDVOBE Minority Subcontractors:	0.0%
Work Performed by DBE Minority Subcontractors:	0.0%
Total Work Performed by Minority Subcontractors:	**1.0%**
Work Performed by Minority Prime Contractor:	**33.6%**
Proposed LDB Participation at Award	*0.0%*
Proposed MWBE Participation at Award	*0.0%*
Proposed SDVOBE Participation at Award	*0.0%*
Proposed DBE Participation at Award	*0.0%*
Total Proposed Minority Subcontractors:	***0.0%***

***Comments:** GC exceeded their proposed MWBE participation of zero percent.

C. OWNER'S AUTHORIZED REPRESENTATIVE: WSP USA, INC.
(Representative: Ramfis Morales, Project Manager)

Performance - Construction Phase = Good
Performance - Close-Out Phase = Good

D. TESTING LABORATORY: N/A

E. GOAA ENGINEERING SENIOR PROJECT MANAGER: None

F. GOAA CONSTRUCTION SENIOR PROJECT MANAGER: Scott Shedek

G. GOAA SPONSOR: Engineering & Construction

H. DISPUTE REVIEW BOARD (DRB) MEMBERS: N/A

4. CONSTRUCTION COST SUMMARY: (Oracle PO No. 1007058)

Funding Source(s): General Account Revenue Bonds

Original Construction Contract	$	571,790.33		
Change Orders (4 issued)	$	(217,300.96)	-38.0%	Decrease
Final Construction Contract	$	354,489.37		

Breakdown of Change Orders

Owner-Requested (additional scope)	$	(217,300.96)	-38.0%	Decrease
Unforeseen Conditions	$	0.00		
A/E Errors & Omissions	$	0.00		
Other	$	0.00		
Total Amount of Change Orders	$	(217,300.96)	-38.0%	Decrease

*Total DBE/MWBE/LDB **Subcontractor** Participation*	*$*	*3,580.00*	*1.0%*
*Total DBE/MWBE/LDB **Contractor** Participation*	*$*	*119,277.39*	*33.6%*
***Total** DBE/MWBE/LDB Participation*	*$*	*122,857.39*	*43.6%*

5. OWNER FURNISHED MATERIAL SUMMARY: N/A

6. CONSTRUCTION CLAIMS: N/A

7. PROBLEM AREAS TO BE CONSIDERED ON FUTURE PROJECTS: N/A

8. LEED CERTIFICATIONS: N/A

9. ATTIC STOCK RECEIVED: Per the specifications, there is no attic stock required for this project.

10. CLOSEOUT DOCUMENTS:

~~1) Late Completion Analysis / Recommendation Letter [Form 013C] (If Required)~~
2) Change Order/GMP Amendment Summary
~~3) Subcontractor Modification Summary (GMP's only)~~
4) Summary of Disbursements
5) Project and DBE/MWBE Payment Summary Reports
~~6) Construction Department Receipt/Acceptance of Record Drawings [Form 011]~~
7) Construction Department Receipt/Acceptance of Asbuilt Drawings [Form 011A]
8) Copy of Transmittal to Maintenance Department for O&M Manuals
~~9) Parking Permit Office Release [Form 001]~~
~~10) Badge & I.D. Office Release [Form 002]~~
~~11) Key Shop Release [Form 003]~~
~~12) Environmental Group Letter of Concurrence for Closeout (If Required)~~
13) Certificate(s) of Substantial Completion (w/Substantial Completion Acceptance Form)
~~14) GMP Milestone Completion or Partial Occupancy/Use Agreements (If Required)~~
15) Certificate(s) of Occupancy / Agency Sign Off
16) Current Certificate of Insurance
17) Consent of Surety to Final Payment [w/Power of Attorney] (Standard AIA Form)
18) Final Release Form from General Contractor (as Provided in the Contract Documents)
19) Final Release Forms from Subcontractors/Suppliers (as required)
20) Warranties
~~21) Commissioning Check-Out Form (if applicable)~~
~~22) Proof of Training Sessions / Start-up (if applicable)~~
~~23) LEED Sign-Off (if applicable)~~
~~24) Attic Stock Receipt Forms (if applicable)~~
25) Project Contact List
26) Final Payment Application

Ramfis Morales, Project Manager
WSP USA, INC. (OAR)

Scott Shedek
Vice President of Construction

Max E. Marble
Sr. Vice President of Capital Programs

SS:kc

Attachments

Information Items

CC
ITEM V
9/10/2024

INFORMATION ITEM
SUPPLEMENTAL INFORMATION

Project Controls
Field Change Order (FCO) Tracking Log

Project	FCO No.	Amount	OAR or PM	FCO Date	Converted to Change Order
BP-S00195	04	$ 50,000.00	S. Mizell	5-Jun-23	Open
BP-S00195	06	$ 2,500.00	S. Mizell	11-Jul-23	Open
BP-S00195	10	$ 35,000.00	S. Mizell	5-Sep-23	Open
BP-S00195	11	$ 20,000.00	S. Mizell	5-Sep-23	Open
BP-S00195	13	$ 48,000.00	J. Volpe	11-Feb-24	Open
BP-S00195	15	$ 18,000.00	J. Volpe	1-Apr-24	Open
BP-S00195	16	$ 10,000.00	J. Volpe	1-Apr-24	Open
BP-S00195	17	$ 27,000.00	J. Volpe	13-May-24	Open
BP-S00195	18	$ 32,000.00	J. Volpe	24-May-24	Open
BP-S00195	19	$ 30,000.00	J. Volpe	24-May-24	Open
BP-S00195	20	$ 12,000.00	J. Volpe	1-Jul-24	Open
BP-S00198	01	$ 35,508.00	S. Mizell	15-Dec-23	Open
E-00275	01	$ 2,469.79	B. Gainous	7-Feb-24	Open
E-00275	02	$ 28,765.98	B. Gainous	25-Mar-24	Open
V-01011	01	$ 24,672.14	N. Johnson	12-Mar-24	Open
V-01022	1	$ 4,280.53	B. Gainous	2-Jul-24	Open

CC
ITEM V-A
9/10/2024

INFORMATION ITEM
Original CCM
08/06/24
Item No. III-A
Revised Memo & Backup

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Change Order No. 1 - RunWay Closure Phase 3B

Biditem	Client	Description	Quantity	Units	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		EXTENDED SAFETY SECURITY & MAINTENANCE OF TRAFFIC	1.00	LS	3,029.80	~~$95,340.56~~	$29,742.02	$31,579.69	$0.00	$156,662.27
										156,662.27
						$93,367.41				
		Subtotal			3,029.80	~~$95,340.56~~	$29,742.02	$31,579.69	$0.00	$156,662.27
		Markup Percent				12%	12%	12%	8%	
		Markup Total				$11,440.87	$3,569.04	$3,789.56	$0.00	$18,799.47
		Subtotal								~~$175,461.74~~
		Bond								**$173,488.60**
		Total	1.00	LS						~~$175,461.74~~

The original cost for this item was based on 60 days. We are only allowed 20 days for this closure, so the cost was reduced by 2/3..

$$\frac{\$173{,}488.60}{3} = \$57{,}829.53$$

Negotiated Unit Price **$57,756.30**

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

Classification	Unit Rate	Unit Rate - As Reviewed	% Difference
Working Foreman	$ 73.15	$ 71.47	2.30%
Carpenter	$ 37.67	$ 36.81	2.28%
Labor - Skilled	$ 30.25	$ 29.56	2.28%
Labor - Common	$ 28.32	$ 27.67	2.30%
Concrete Finisher	$ 37.67	$ 36.81	2.28%
Pipe Layer	$ 37.95	$ 37.08	2.29%
Operator - Excavator	$ 40.15	$ 39.22	2.32%
Operator - Dozer	$ 41.80	$ 40.84	2.30%
Operator - Loader	$ 34.92	$ 34.12	2.29%
Operator - Grader	$ 40.23	$ 39.30	2.31%
Operator - Roller	$ 29.70	$ 29.02	2.29%
Electrician Working Foreman	$ 91.77	$ 89.66	2.30%
Electrician Working Foreman	$ 53.89	$ 52.65	2.30%
Average % Difference			2.30%

Labor rates adjusted to match reviewed rates. Labor total reduced 2.3%.

CC
ITEM V-B
9/10/2024

Notes: Add 50 calendar days + phase 3b

Work Zone Signs; 25 units x 60 days
Low Profile Barricades; 300 units x 60 days
Portable Lighted Runway Closure Markers; 2 units x 2 months

Biditem

40

EXTENDED SAFETY SECURITY & MAINTENANCE OF TRAFFIC

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	~~67,141.24~~	~~28,199.32~~	~~95,340.56~~	29,742.02	31,579.69	0.00	0.00	0.00	0.00	0.00	~~156,662.27~~
Total	~~67,141.24~~	~~28,199.32~~	~~95,340.56~~	29,742.02	31,579.69	0.00	0.00	0.00	0.00	0.00	~~156,662.27~~

93,367.41

154,689.12

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
3,029.8000	0.0003	3,029.8000	51.7071	22.1603	31.4676	0.0009

Activity: 48000 Airport Traffic Control Devices Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	30,679.69	0.00	0.00	0.00	0.00	0.00	30,679.69
Total	0.00	0.00	0.00	0.00	30,679.69	0.00	0.00	0.00	0.00	0.00	30,679.69

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2MOT035	Rent Work Zone Signs	1.00	1,500.00	ED	0.35	106.250	0.37	557.81
2MOT050	Airport Safety Barricate 8'	1.00	15,000.00	ED	0.60	106.250	0.64	9,562.50
2MOT051	Airport Barricad Solar Light	1.00	30,000.00	ED	0.01	106.250	0.01	318.75
2MOT052	Closed Runway/Taxiway Marker	1.00	2.00	EA	825.00	106.250	876.57	1,753.13
2MOT099	Maintain Lighted Runway Clos	1.00	2.00	MO	300.00	106.250	318.75	637.50
2MOTRCM	Portable Lighted Runway Closure Markers	1.00	2.00	MO	6,500.00	106.250	6,906.25	13,812.50
2SANDBAG	Sandbags for LP Wall	1.00	380.00	EA	10.00	106.250	10.63	4,037.50

Activity: 48010 Unload & Set LP Barricade Quantity: 2260.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.91	0.38	1.29	0.25	0.00	0.00	0.00	0.00	0.00	0.00	1.53
Total	~~2,048.64~~	~~860.43~~	~~2,909.07~~	555.41	0.00	0.00	0.00	0.00	0.00	0.00	~~3,464.48~~

2,857.59

3,413.00

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1.5330	0.0056	179.9994	275.9311	1.2556	1,799.9936	0.0006	2,759.3106

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
87.9000	25.7110	0.0389	33.0952	0.9065

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1717 (Mod) BARR WALL;TEMP,UNLD/SET /LDR Prod: UH 180 Eff: 100.00 Crew Hrs: 12.56 Labor Pcs: 7.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816312	TRUCK PICKUP <3/4 TON	1.00	12.56	HR	12.17	100.000	12.17	152.86
822505	LOADER 2-1/2CY CAT	1.00	12.56	HR	32.05	100.000	32.05	402.55
L10190	CREW CHIEF	1.00	12.56	MH	46.83	80.000	53.20	668.18
L10320	OPERATOR LOADER	1.00	12.56	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	428.55	~~438.68~~
L10400	LABORER-SKILLED	1.00	12.56	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	371.27	~~380.02~~
L10410	LABORER-COMMON	4.00	50.22	MH	~~18.13~~	~~110.000~~	27.32	~~28.32~~	1389.59	~~1,422.19~~

Activity: 48015 Relocate LP Barricade Quantity: 3350.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	6.82	2.86	9.68	1.85	0.00	0.00	0.00	0.00	0.00	0.00	11.53
Total	~~22,839.46~~	~~9,592.56~~	~~32,432.02~~	6,190.80	0.00	0.00	0.00	0.00	0.00	0.00	~~38,622.82~~
			31,858.24								38,049.04

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
11.5292	0.0418	23.9286	275.8773	14.0000	239.2857	0.0042	2,758.7729

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
980.0000	3.4184	0.2925	33.0939	6.8177

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1717 (Mod) BARR WALL;TEMP,UNLD/SET /LDR Prod: UH 23.9286 Eff: 100.00 Crew Hrs: 140.00 Labor Pcs: 7.00 Equipment Pcs: 2.00

Notes: Additional Phase 3B (19 Calendar Days); +/- 14 Work days Night Work (1800-0700) Runway 17R-35L Closed

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816312	TRUCK PICKUP <3/4 TON	1.00	140.00	HR	12.17	100.000	12.17	1,703.80
822505	LOADER 2-1/2CY CAT	1.00	140.00	HR	32.05	100.000	32.05	4,487.00
L10190	CREW CHIEF	1.00	140.00	MH	46.83	80.000	53.20	7,447.84
L10320	OPERATOR LOADER	1.00	140.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	94,776.80	~~4,889.68~~
L10400	LABORER-SKILLED	1.00	140.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	4,138.40	~~4,235.83~~
L10410	LABORER-COMMON	4.00	560.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	15,495.20	~~5,858.67~~

Activity: 48020 Remove & Load Out LP Barricade Quantity: 2260.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.91	0.38	1.29	0.25	0.00	0.00	0.00	0.00	0.00	0.00	1.53
Total	~~2,048.64~~	~~860.43~~	~~2,909.07~~	555.41	0.00	0.00	0.00	0.00	0.00	0.00	~~3,464.48~~
			2,857.59								3,413.00

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1.5330	0.0056	179.9994	275.9311	1.2556	1,799.9936	0.0006	2,759.3106

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
87.9000	25.7110	0.0389	33.0952	0.9065

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1717 (Mod) BARR WALL;TEMP,UNLD/SET /LDR Prod: UH 180 Eff: 100.00 Crew Hrs: 12.56 Labor Pcs: 7.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816312	TRUCK PICKUP <3/4 TON	1.00	12.56	HR	12.17	100.000	12.17	152.86
822505	LOADER 2-1/2CY CAT	1.00	12.56	HR	32.05	100.000	32.05	402.55
L10190	CREW CHIEF	1.00	12.56	MH	46.83	80.000	53.20	668.18
L10320	OPERATOR LOADER	1.00	12.56	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	~~438.68~~ 428.55
L10400	LABORER-SKILLED	1.00	12.56	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	~~380.02~~ 371.27
L10410	LABORER-COMMON	4.00	50.22	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	~~1,422.19~~ 1389.59

Activity: 48100 Maintain MOT Devices Quantity: 7.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	154.70	64.97	219.67	24.34	0.00	0.00	0.00	0.00	0.00	0.00	244.01
Total	~~1,082.90~~	~~454.82~~	~~1,537.72~~ 1519.55	170.38	0.00	0.00	0.00	0.00	0.00	0.00	~~1,708.10~~ 1689.93

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
244.0143	2.0000	0.5000	122.0071	1.4000	5.0000	0.2000	1,220.0714

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
42.0000	0.1667	6.0000	36.6124	154.7000

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1712 MOT;MNT TRAFFIC DEV Prod: HU 2 Eff: 100.00 Crew Hrs: 14.00 Labor Pcs: 3.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816312	TRUCK PICKUP <3/4 TON	1.00	14.00	HR	12.17	100.000	12.17	170.38
L10190	CREW CHIEF	1.00	14.00	MH	46.83	80.000	53.20	744.79
L10410	LABORER-COMMON	2.00	28.00	MH	~~18.13~~	~~110.000~~ 27.67	~~28.32~~	~~792.93~~ 774.76

Activity: 48520 Light Plants for Nighttime Quantity: 14.00 Unit: DAY

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
520.0000	10.0000	0.1000	52.0000	14.0000	1.0000	1.0000	520.0000

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AAEMTY (Mod) EMPTY SHELL CREW Prod: HU 10 Eff: 100.00 Crew Hrs: 140.00 Labor Pcs: 0.00 Equipment Pcs: 4.00

Notes: Additional Phase 3B (19 Calendar Days) Night Work (1800-0700) Runway 17R-35L Closed

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
814512T	LIGHT PLANT, 4LITE,3KW	4.00	560.00	HR	13.00	100.000	13.00	7,280.00

Activity: 48565 Escorts within airfield areas Quantity: 7.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	2,130.70	894.89	3,025.59	1,217.00	0.00	0.00	0.00	0.00	0.00	0.00	4,242.59
Total	~~14,914.90~~	~~6,264.26~~	~~21,179.16~~ 20,692.00	8,519.00	0.00	0.00	0.00	0.00	0.00	0.00	~~29,698.16~~ 29,211.00

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
4,242.5943	50.0000	0.0200	84.8519	35.0000	0.2000	5.0000	848.5189

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
700.0000	0.0100	100.0000	30.2559	2,130.7000

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1712 (Mod) MOT;MNT TRAFFIC DEV Prod: HU 50 Eff: 100.00 Crew Hrs: 350.00 Labor Pcs: 2.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816312	TRUCK PICKUP <3/4 TON	2.00	700.00	HR	12.17	100.000	12.17	8,519.00
L10400	LABORER-SKILLED	2.00	700.00	MH	~~19.37~~	~~110.000~~ 29.56	~~30.26~~	~~21,179.16~~ 20,692.00

Activity: 48570 Flaggers (Monitor Ground Control) Quantity: 7.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	3,196.05	1,342.34	4,538.39	608.50	0.00	0.00	0.00	0.00	0.00	0.00	5,146.89
Total	~~22,372.35~~	~~9,396.39~~	~~31,768.74~~ 31,038.00	4,259.50	0.00	0.00	0.00	0.00	0.00	0.00	~~36,028.24~~ 35,297.50

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
5,146.8914	50.0000	0.0200	102.9378	35.0000	0.2000	5.0000	1,029.3783

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,050.0000	0.0067	150.0000	30.2559	3,196.0500

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1713 (Mod) MOT:FLAGGERS Prod: HU 50 Eff: 100.00 Crew Hrs: 350.00 Labor Pcs: 3.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816312	TRUCK PICKUP <3/4 TON	1.00	350.00	HR	12.17	100.000	12.17	4,259.50
L10400	LABORER-SKILLED	3.00	1,050.00	MH	~~19.37~~	~~110.000~~ 29.56	~~30.26~~	~~31,768.74~~ 31,038.00

Activity: 48735 Maintain Access Road Quantity: 7.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	130.90	54.98	185.88	224.36	0.00	0.00	0.00	0.00	0.00	0.00	410.24
Total	~~916.29~~	~~384.84~~	~~1,301.13~~ 1271.34	1,570.52	0.00	0.00	0.00	0.00	0.00	0.00	~~2,871.65~~ 2841.86

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
410.2357	2.0000	0.5000	205.1179	1.4000	5.0000	0.2000	2,051.1786

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
42.0000	0.1667	6.0000	30.9793	130.8986

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA4225 LROCK;DUMP/SPR,W/LOADER Prod: HU 2 Eff: 100.00 Crew Hrs: 14.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
822507	LOADER 3-1/2CY CAT	1.00	14.00	HR	79.63	100.000	79.63	1,114.82
824151	ROLLER,VIB R&S 60-66"	1.00	14.00	HR	32.55	100.000	32.55	455.70
L10320	OPERATOR LOADER	1.00	14.00	MH	~~22.36~~	~~110.000~~ 34.12	~~34.93~~	~~488.96~~ 477.68
L10350	OPERATOR ROLLER	1.00	14.00	MH	~~19.01~~	~~110.000~~ 29.56	~~29.69~~	~~415.71~~ 406.28
L10410	LABORER-COMMON	1.00	14.00	MH	~~18.13~~	~~110.000~~ 27.67	~~28.32~~	~~396.46~~ 387.38

Activity: 48740 Security Area Monitoring (SAM) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	~~918.06~~	~~385.59~~	~~1,303.65~~ 1273.60	641.00	900.00	0.00	0.00	0.00	0.00	0.00	2,844.65
Total	~~918.06~~	~~385.59~~	~~1,303.65~~	641.00	900.00	0.00	0.00	0.00	0.00	0.00	~~2,844.65~~ 2814.60

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1,944.6500	20.0000	0.0500	97.2325	2.0000	0.5000	2.0000	1,422.3250

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	32.5913	918.0600

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AAEMTY (Mod) EMPTY SHELL CREW Prod: HU 20 Eff: 100.00 Crew Hrs: 20.00 Labor Pcs: 2.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2O3014	Toilet 4 EA	1.00	2.00	SHMO	450.00	100.000	450.00	900.00
822505	LOADER 2-1/2CY CAT	1.00	20.00	HR	32.05	100.000	32.05	641.00
L10320	OPERATOR LOADER	1.00	20.00	MH	~~22.36~~	~~110.000~~ 34.12	~~34.93~~	682.40 ~~698.53~~
L10400	LABORER-SKILLED	1.00	20.00	MH	~~19.37~~	~~110.000~~ 29.56	~~30.26~~	591.20 ~~605.12~~

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Change Order No.1 INLET BOXES, SPECIAL (AIRCRAFT RATED) (S-2)

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		INLET BOXES, SPECIAL (AIRCRAFT RATED) (S-2)	1.00	EA	$56,746.20	613.62	~~$22,748.84~~	$14,534.67	~~$14,941.09~~	~~$4,521.60~~	~~$56,746.20~~
							$ 22,338.07		$ 14,729.05	$ 4,500	
											~~$6,746.20~~
		Subtotal				613.62	~~$22,748.84~~	$14,534.67	~~$14,941.09~~	~~$4,521.60~~	~~$56,746.20~~
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$2,729.86	$1,744.16	$1,792.93	$361.73	$6,628.68
		Subtotal									~~$63,374.88~~
		Bond									
		Total	1.00	EA	$63,374.88						~~$63,374.88~~

Negotiated Unit Price
$62,630.34

$ 62,654.00

Classification	Unit Rate	Unit Rate - As Reviewed	% Difference
Working Foreman	$ 73.15	$ 71.47	2.30%
Carpenter	$ 37.67	$ 36.81	2.28%
Labor - Skilled	$ 30.25	$ 29.56	2.28%
Labor - Common	$ 28.32	$ 27.67	2.30%
Concrete Finisher	$ 37.67	$ 36.81	2.28%
Pipe Layer	$ 37.95	$ 37.08	2.29%
Operator - Excavator	$ 40.15	$ 39.22	2.32%
Operator - Dozer	$ 41.80	$ 40.84	2.30%
Operator - Loader	$ 34.92	$ 34.12	2.29%
Operator - Grader	$ 40.23	$ 39.30	2.31%
Operator - Roller	$ 29.70	$ 29.02	2.29%
Electrician Working Foreman	$ 91.77	$ 89.66	2.30%
Electrician Working Foreman	$ 53.89	$ 52.65	2.30%
Average % Difference			2.30%

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

D-751-5.2 (Inlet Boxes, Special Large (Aircraft Rated) (Structure S-2))

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		INLET BOXES, SPECIAL (AIRCRAFT RATED) (S-2)	1.00	EA	$56,746.20	613.62	$22,748.84	$14,534.67	$14,941.09	$4,521.60	$56,746.20
											56,746.20
		Subtotal				613.62	$22,748.84	$14,534.67	$14,941.09	$4,521.60	$56,746.20
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$2,729.86	$1,744.16	$1,792.93	$361.73	$6,628.68
		Subtotal									$63,374.88
		Bond									
		Total	1.00	EA	$63,374.88						$63,374.88

Notes: C.I.P. MANHOLES/JUNCTION BOXES, SPECIAL (AIRCRAFT RATED) (STRUCTURE S-2)

CONCRETE TOTAL = 17 CY
REBAR TOTAL = 6,000 LBS

FORM TOTAL = 500 SF
Wall = 290 SF
Bottom = 70 SF
Top = 140 SF

Cast-in-Place Drainage Junction Boxes (Interior 8ft x 5ft), bottom slab 13'x10'x1.33', top slab 10.33'x7.33', 6' Depth.

Biditem

60

INLET BOXES, SPECIAL (AIRCRAFT RATED) (S-2)

Takeoff Qty: 1.000 EA

Bid Qty: 1.000 EA

Client #: D-751-5.2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	~~16,020.32~~	~~6,728.52~~	~~22,748.84~~	14,534.67	14,887.09	54.00	4,521.60	0.00	0.00	0.00	~~56,746.20~~
Total	~~16,020.32~~	~~6,728.52~~	~~22,748.84~~	14,534.67	14,887.09	54.00	4,521.60	0.00	0.00	0.00	~~56,746.20~~

22,338.07

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
613.6200	0.0016	613.6200	92.4778	26.1079	37.0732	0.0016

Activity: 10.01 Concrete Matl, Class IV, 5500 Quantity: 17.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	240.26	0.00	0.00	0.00	0.00	0.00	240.26
Total	0.00	0.00	0.00	0.00	4,084.50	0.00	0.00	0.00	0.00	0.00	4,084.50

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B1030	Conc 5500 psi	1.00	17.00	YD3	168.00	106.250	178.50	3,034.50
2B1048	Fuel Surcharge	1.00	3.00	LD	75.00	100.000	75.00	225.00
2B1050	Envir Fees	1.00	3.00	LD	25.00	100.000	25.00	75.00
2B1052	Min Load	1.00	3.00	LD	250.00	100.000	250.00	750.00

Activity: 10.03 Form Matl. Quantity: 500.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00	0.00	1.29
Total	0.00	0.00	0.00	0.00	642.82	0.00	0.00	0.00	0.00	0.00	642.82

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BF301	Box Culvert Footing Form	1.00	70.00	FT2	0.66	106.250	0.70	49.09
2BF303	Box Culvert Wall Form	1.00	290.00	FT2	0.66	106.250	0.70	203.36
2BF305	Box Culvert Top Form	1.00	140.00	FT2	0.66	106.250	0.70	98.18
2BFENG	Form Mtls Engineering Fees	1.00	1.00	EA	275.00	106.250	292.19	292.19

Activity: 10.04 Rebar Matl. Quantity: 6000.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.71
Total	0.00	0.00	0.00	0.00	~~4,271.25~~	0.00	0.00	0.00	0.00	0.00	~~4,271.25~~ $4,064.06

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B2005	Rebar Matl (black)	1.00	6,000.00	LB	0.6125	~~0.65~~	~~106.250~~	~~0.69~~	~~4,143.75~~
2B2007	Rebar Accessories	1.00	6,000.00	LB	0.25	~~0.02~~	~~106.250~~	~~0.02~~	~~127.50~~

Activity: 10.05 Unld / Handle Rebar Quantity: 6000.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.12	0.05	0.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Total	~~718.21~~	~~301.65~~	~~1,019.86~~ 1,004.28	593.25	0.00	0.00	0.00	0.00	0.00	0.00	~~1,613.11~~ 1,597.53

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
0.2689	0.0010	1,000.0000	268.8517	0.6000	10,000.0000	0.0001	2,688.5167

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	200.0000	0.0050	33.9953	0.1197

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA5220 CONC;REBAR,UNLD/HNDL Prod: UH 1000 Eff: 100.00 Crew Hrs: 6.00 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
819143	(R) CRANE, RT 21-40 TON	1.00	6.00	HR	98.88	100.000	98.88	593.25
L10271	OPERATOR CRANE BRIDGE	1.00	6.00	MH	36.30	110.000	56.70	340.20
L10411	LABORER-COMMON BRIDGE	4.00	24.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 664.08	~~679.66~~

Activity: 10.07 USF 9151 Frame & Grate Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D2FG	USF 9151 Frame & Grate	1.00	1.00	EA	4,672.13	106.250	4,964.14	4,964.14

Activity: 10.08 Bedding Stone Quantity: 12.00 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	31.88	4.50	0.00	0.00	0.00	0.00	36.38
Total	0.00	0.00	0.00	0.00	382.50	54.00	0.00	0.00	0.00	0.00	~~436.50~~ $431.58

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG055	# 57 (1- #4)	1.00	12.00	TON	30.00	106.250	31.88	382.50
335110	Misc Aggregate Haul	1.00	12.00	TON	$4.09	~~4.50~~	~~100.000~~	~~4.50~~	~~54.00~~

Activity: 20.01 Excv. for Junction Box Quantity: 45.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	18.34	7.70	26.05	19.84	0.00	0.00	0.00	0.00	0.00	0.00	45.89
Total	~~825.49~~	~~346.70~~	~~1,172.19~~ 1151.29	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,064.99~~ 2044.90

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
45.8887	0.1111	9.0000	412.9980	0.5000	90.0000	0.0111	4,129.9800

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	1.5000	0.6667	39.0730	18.3442

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 9 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN PIPE	1.00	5.00	MH	46.83	80.000	53.20	265.99
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.08	~~37.96~~	370.80	~~379.57~~

Activity: 20.02 Grade for Junction Box Quantity: 450.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.83	0.77	2.60	1.98	0.00	0.00	0.00	0.00	0.00	0.00	4.59
Total	~~825.49~~	~~346.70~~	~~1,172.19~~ 1151.29	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,064.99~~ 2044.09

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
4.5889	0.0111	90.0000	412.9980	0.5000	900.0000	0.0011	4,129.9800

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	15.0000	0.0667	39.0730	1.8344

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 90 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN PIPE	1.00	5.00	MH	46.83	80.000	53.20	265.99
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.08	~~37.96~~	370.80	~~379.57~~

Activity: 20.03 Backfill Junction Box Quantity: 10.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	~~82.55~~	~~34.67~~	~~117.22~~	89.28	0.00	0.00	0.00	0.00	0.00	0.00	206.50
Total	~~825.49~~	~~346.70~~	~~1,172.19~~ 1151.29	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,064.99~~ 2044.09

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
206.4990	0.5000	2.0000	412.9980	0.5000	20.0000	0.0500	4,129.9800

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	0.3333	3.0000	39.0730	82.5490

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 2 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55

884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN PIPE	1.00	5.00	MH	46.83	80.000	53.20	265.99
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 196.10 ~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~ 170.60 ~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~ 147.80 ~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.08	~~37.96~~ 370.80 ~~379.57~~

Activity: 30.01 F/P/S Junction Box Quantity: 500.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	22.23	9.33	31.56	18.17	0.00	0.00	0.00	0.00	0.00	0.00	49.73
Total	~~11,112.96~~	~~4,667.44~~	~~15,780.40~~	9,085.80	0.00	0.00	0.00	0.00	0.00	0.00	~~24,866.20~~
			15,491.33								24,577.13

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
49.7324	0.1200	8.3333	414.4367	6.0000	83.3333	0.0120	4,144.3667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
420.0000	1.1905	0.8400	37.5724	22.2259

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3333 (Mod) CONC;BX CULV, 5 MAN W/CR Prod: UH 8.3333 Eff: 100.00 Crew Hrs: 60.00 Labor Pcs: 7.00 Equipment Pcs: 6.00

Notes: Form; 3 shifts
Pour; 2 shift
Strip; 1 shift

.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
814101T	GENERATOR SMALL	1.00	60.00	HR	1.00	100.000	1.00	60.00
814202T	(R) AIR COMPRESSOR 200 CFM	1.00	60.00	HR	6.50	100.000	6.50	390.00
816312	TRUCK PICKUP <3/4 TON	1.00	60.00	HR	12.17	100.000	12.17	730.20
816343	TRUCK, FLATBED, 1 TON	1.00	60.00	HR	13.89	100.000	13.89	833.40
823206	BACKHOE 390 - 39T	1.00	60.00	HR	108.76	100.000	108.76	6,525.60
839830	MISC. SMALL TOOLS	1.00	60.00	HR	9.11	100.000	9.11	546.60
L10170	FOREMAN	1.00	60.00	MH	46.83	80.000	53.20	3,191.93
L10240	OPERATOR BACKHOE	1.00	60.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 2353.20 ~~2,408.60~~
L10410	LABORER-COMMON	2.00	120.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 3320.40 ~~3,398.29~~
L10430	CARPENTER	3.00	180.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~ 6625.80 ~~6,781.58~~

Activity: 30.02 Pump Concrete Quantity: 17.00 Unit: YD3

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BRT03	Conc Pumping	1.00	17.00	YD3	30.00	106.250	31.88	541.88

Activity: 30.03 Point & Patch Quantity: 500.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.20	0.50	1.70	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.03
Total	~~599.32~~	~~251.72~~	~~851.04~~	164.22	0.00	0.00	0.00	0.00	0.00	0.00	~~1,015.26~~
			840.22								1,004.44

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
2.0305	0.0143	69.9996	142.1355	0.7143	699.9958	0.0014	1,421.3555

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
21.4200	23.3427	0.0428	39.7311	1.1986

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: UH 70 Eff: 100.00 Crew Hrs: 7.14 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	7.14	HR	13.89	100.000	13.89	99.17

839830	MISC. SMALL TOOLS	1.00	7.14	HR	9.11	100.000	9.11	65.05
L10190	CREW CHIEF	1.00	7.14	MH	~~46.83~~	~~80.000~~	51.98	~~53.20~~ ~~379.84~~
L10410	LABORER-COMMON	1.00	7.14	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ ~~202.20~~
L10450	CONC. FINISHER	1.00	7.14	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~ ~~269.00~~

Activity: 40.02 Install frame&grate Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	251.82	105.76	357.58	69.00	0.00	0.00	0.00	0.00	0.00	0.00	426.58
Total	~~251.82~~	~~105.76~~	~~357.58~~	69.00	0.00	0.00	0.00	0.00	0.00	0.00	~~426.58~~
			353.03								422.03

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
426.5800	3.0000	0.3333	142.1933	0.3000	3.3333	0.3000	1,421.9333

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.0000	0.1111	9.0000	39.7311	251.8200

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
839830	MISC. SMALL TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
L10173	FOREMAN PIPE	1.00	3.00	MH	46.83	80.000	53.20	159.59
L10410	LABORER-COMMON	1.00	3.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 83.01 ~~84.96~~
L10450	CONC. FINISHER	1.00	3.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~ 110.43 ~~113.03~~

Activity: 50.01 Install Rebar - SUB Quantity: 6000.00 Unit: LB

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

$4,500.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
450300	Reinforcing Steel Install	1.00	6,000.00	LBS	0.75	100.000	0.75	~~4,521.60~~

Activity: 60.3 By Pass Pumping (Unreviewed) Quantity: 9.00 Unit: DAY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	95.73	40.21	135.93	216.00	0.00	0.00	0.00	0.00	0.00	0.00	351.93
Total	~~861.54~~	~~361.85~~	~~1,223.39~~	1,944.00	0.00	0.00	0.00	0.00	0.00	0.00	~~3,167.39~~
			1195.34								3,139.34

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
351.9322	24.0000	0.0417	14.6638	21.6000	0.4167	2.4000	146.6384

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
43.2000	0.2083	4.8000	28.3192	95.7267

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1825 (Mod) PUMPING Prod: HU 24 Eff: 100.00 Crew Hrs: 216.00 Labor Pcs: 0.20 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821182	(R) PUMP HYDRAULIC 8"	1.00	216.00	HR	7.00	100.000	7.00	1,512.00
821200	(R) 8" DISCHARGE PIPE, 100'	1.00	216.00	HR	2.00	100.000	2.00	432.00
L10410	LABORER-COMMON	0.20	43.20	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 1195.35 ~~1,223.39~~

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Change Order No.1 INLET BOXES, SPECIAL (AIRCRAFT RATED) (S-8)

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		INLET BOXES, SPECIAL (AIRCRAFT RATED) (S-2)	1.00	EA	$81,499.73	861.29	~~$33,765.97~~ $33,001.56	$20,586.24	~~$18,104.96~~ $17,779.42	~~$9,042.56~~ $9,012.50	~~$81,499.73~~ 81,499.73
		Subtotal				861.29	~~$33,765.97~~	$20,586.24	~~$18,104.96~~	~~$9,042.56~~	~~$81,499.73~~
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$4,051.92	$2,470.35	$2,172.60	$723.40	~~$9,418.27~~
		Subtotal									~~$90,918.00~~
		Bond									
		Total	1.00	EA	$90,918.00						~~$90,918.00~~

$89,756.52

Classification	Unit Rate	Unit Rate - As Reviewed	% Difference
Working Foreman	$ 73.15	$ 71.47	2.30%
Carpenter	$ 37.67	$ 36.81	2.28%
Labor - Skilled	$ 30.25	$ 29.56	2.28%
Labor - Common	$ 28.32	$ 27.67	2.30%
Concrete Finisher	$ 37.67	$ 36.81	2.28%
Pipe Layer	$ 37.95	$ 37.08	2.29%
Operator - Excavator	$ 40.15	$ 39.22	2.32%
Operator - Dozer	$ 41.80	$ 40.84	2.30%
Operator - Loader	$ 34.92	$ 34.12	2.29%
Operator - Grader	$ 40.23	$ 39.30	2.31%
Operator - Roller	$ 29.70	$ 29.02	2.29%
Electrician Working Foreman	$ 91.77	$ 89.66	2.30%
Electrician Working Foreman	$ 53.89	$ 52.65	2.30%
Average % Difference			2.30%

$89,744.31 Negotiated Unit Price

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

D-751-5.2 (Inlet Boxes, Special Large (Aircraft Rated) (Structure S-8))

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		INLET BOXES, SPECIAL (AIRCRAFT RATED) (S-2)	1.00	EA	$81,499.73	861.29	$33,765.97	$20,586.24	$18,104.96	$9,042.56	$81,499.73
											81,499.73
		Subtotal				861.29	$33,765.97	$20,586.24	$18,104.96	$9,042.56	$81,499.73
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$4,051.92	$2,470.35	$2,172.60	$723.40	$9,418.27
		Subtotal									$90,918.00
		Bond									
		Total	1.00	EA	$90,918.00						$90,918.00

Notes: C.I.P. MANHOLES/JUNCTION BOXES, SPECIAL (AIRCRAFT RATED) (STRUCTURE S-8)

CONCRETE TOTAL = 24 CY
REBAR TOTAL = 8,350 LBS

FORM TOTAL = 850 SF
Wall = 630 SF
Bottom = 60 SF
Top = 160 SF

Cast-in-Place Drainage Junction Boxes (Interior 5ft x 9.5ft), bottom slab 10'x14.5'x1.33', 8.5' Depth.

Biditem

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MANHOLES/JNCTION BOXES SPECIAL AIRCRAFT RATED S-8

Takeoff Qty: 1.000 EA

Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	~~23,778.86~~	~~9,987.11~~	~~33,765.97~~	20,586.24	18,005.96	99.00	9,042.56	0.00	0.00	0.00	81,499.73
Total	~~23,778.86~~	~~9,987.11~~	~~33,765.97~~	20,586.24	18,005.96	99.00	9,042.56	0.00	0.00	0.00	~~81,499.73~~

33,001.56

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
861.2900	0.0012	861.2900	94.6252	27.6084	39.2039	0.0016

Activity: 10.01 Concrete Matl, Class IV, 5500 Quantity: 24.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	201.42	0.00	0.00	0.00	0.00	0.00	201.42
Total	0.00	0.00	0.00	0.00	4,834.00	0.00	0.00	0.00	0.00	0.00	4,834.00

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B1030	Conc 5500 psi	1.00	24.00	YD3	168.00	106.250	178.50	4,284.00
2B1048	Fuel Surcharge	1.00	3.00	LD	75.00	100.000	75.00	225.00
2B1050	Envir Fees	1.00	3.00	LD	25.00	100.000	25.00	75.00
2B1052	Min Load	1.00	1.00	LD	250.00	100.000	250.00	250.00

Activity: 10.03 Form Matl. Quantity: 850.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.67
Total	0.00	0.00	0.00	0.00	568.97	0.00	0.00	0.00	0.00	0.00	568.97

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BF301	Box Culvert Footing Form	1.00	60.00	FT2	0.63	106.250	0.67	40.16
2BF303	Box Culvert Wall Form	1.00	630.00	FT2	0.63	106.250	0.67	421.71
2BF305	Box Culvert Top Form	1.00	160.00	FT2	0.63	106.250	0.67	107.10

Activity: 10.04 Rebar Matl. Quantity: 8350.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75
Total	0.00	0.00	0.00	0.00	6,236.35	0.00	0.00	0.00	0.00	0.00	~~6,236.35~~

$5948.01

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit		Unit Cost	Tax/OT %	Actual UC	Total
2B2005	Rebar Matl (black)	1.00	8,350.00	LB	0.6125	~~0.65~~	~~106.250~~	~~0.69~~	~~5,766.72~~
2B2007	Rebar Accessories	1.00	8,350.00	LB	0.025	~~0.02~~	~~106.250~~	~~0.02~~	~~177.44~~
2BFENG	Form Mtls Engineering Fees	1.00	1.00	EA		275.00	106.250	292.19	292.19

Activity: 10.05 Unld / Handle Rebar Quantity: 8350.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.12	0.05	0.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Total	~~999.52~~	~~419.79~~	~~1,419.31~~ 1397.63	825.61	0.00	0.00	0.00	0.00	0.00	0.00	~~2,244.92~~ 2223.24

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
0.2689	0.0010	1,000.0000	268.8527	0.8350	10,000.0000	0.0001	2,688.5269

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
41.7500	200.0000	0.0050	33.9954	0.1197

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA5220 CONC;REBAR,UNLD/HNDL Prod: UH 1000 Eff: 100.00 Crew Hrs: 8.35 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
819143	(R) CRANE, RT 21-40 TON	1.00	8.35	HR	98.88	100.000	98.88	825.61
L10271	OPERATOR CRANE BRIDGE	1.00	8.35	MH	36.30	110.000	56.70	473.45
L10411	LABORER-COMMON BRIDGE	4.00	33.40	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 924.18	~~945.86~~

Activity: 10.07 USF 9151 Frame & Grate Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D2FG	USF 9151 Frame & Grate	1.00	1.00	EA	4,672.13	106.250	4,964.14	4,964.14

Activity: 10.08 Bedding Stone Quantity: 20.00 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	31.88	4.95	0.00	0.00	0.00	0.00	36.83
Total	0.00	0.00	0.00	0.00	637.50	99.00	0.00	0.00	0.00	0.00	~~736.50~~ 719.30

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG055	# 57 (1- #4)	1.00	20.00	TON	30.00	106.250	31.88	637.50
335110	Misc Aggregate Haul	1.00	20.00	TON	$4.09 ~~4.95~~	100.000	4.95	~~99.00~~

Activity: 20.01 Excv. for Junction Box Quantity: 100.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	8.96	3.76	12.72	8.93	0.00	0.00	0.00	0.00	0.00	0.00	21.65
Total	~~895.74~~	~~376.21~~	~~1,271.95~~ 1242.65	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~ 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
21.6475	0.0500	20.0000	432.9500	0.5000	200.0000	0.0050	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	3.3333	0.3000	42.3983	8.9574

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 20 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~ 357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~ 170.60	~~174.63~~

L10400	LABORER-SKILLED	1.00	5.00	MH	19.37	110.000	29.56	30.26	147.80	151.28
L10460	PIPELAYERS	2.00	10.00	MH	24.30	110.000	37.08	37.96	370.80	379.57

Activity: 20.02 Grade for Junction Box Quantity: 500.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.79	0.75	2.54	1.79	0.00	0.00	0.00	0.00	0.00	0.00	4.33
Total	895.74	376.21	1,271.95	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75

1242.65 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
4.3295	0.0100	100.0000	432.9500	0.5000	1,000.0000	0.0010	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	16.6667	0.0600	42.3983	1.7915

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 100 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	46.83	110.000	71.47	73.15	357.35	365.75
L10240	OPERATOR BACKHOE	1.00	5.00	MH	25.70	110.000	39.22	40.14	196.10	200.72
L10320	OPERATOR LOADER	1.00	5.00	MH	22.36	110.000	34.12	34.93	170.60	174.63
L10400	LABORER-SKILLED	1.00	5.00	MH	19.37	110.000	29.56	30.26	147.80	151.28
L10460	PIPELAYERS	2.00	10.00	MH	24.30	110.000	37.08	37.96	370.80	379.57

Activity: 20.03 Backfill Junction Box Quantity: 15.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	59.72	25.08	84.80	59.52	0.00	0.00	0.00	0.00	0.00	0.00	144.32
Total	895.74	376.21	1,271.95	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75

1242.65 1242.65

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
144.3167	0.3333	3.0000	432.9500	0.5000	30.0000	0.0333	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	0.5000	2.0000	42.3983	59.7160

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 3 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	46.83	110.000	71.47	73.15	357.35	365.75
L10240	OPERATOR BACKHOE	1.00	5.00	MH	25.70	110.000	39.22	40.14	196.10	200.72
L10320	OPERATOR LOADER	1.00	5.00	MH	22.36	110.000	34.12	34.93	170.60	174.63
L10400	LABORER-SKILLED	1.00	5.00	MH	19.37	110.000	29.56	30.26	147.80	151.28
L10460	PIPELAYERS	2.00	10.00	MH	24.30	110.000	37.08	37.96	370.80	379.57

Activity: 30.01 F/P/S Junction Box Quantity: 850.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total

U. Cost	~~19.51~~	~~8.19~~	~~27.70~~	14.83	0.00	0.00	0.00	0.00	0.00	0.00	42.53
Total	~~16,582.36~~	~~6,964.59~~	~~23,546.95~~	12,602.01	0.00	0.00	0.00	0.00	0.00	0.00	~~36,148.96~~

23006.43 35608.44

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
42.5282	0.0979	10.2143	434.3950	8.3217	102.1428	0.0098	4,343.9498

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
582.5200	1.4592	0.6853	40.4226	19.5087

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3333 (Mod) CONC;BX CULV, 5 MAN W/CR Prod: UH 10.2143 Eff: 100.00 Crew Hrs: 83.22 Labor Pcs: 7.00 Equipment Pcs: 6.00

Notes: Form; 4 shifts
Pour; 3 shift
Strip; 1 shift

.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
814101T	GENERATOR SMALL	1.00	83.22	HR	1.00	100.000	1.00	83.22
814202T	(R) AIR COMPRESSOR 200 CFM	1.00	83.22	HR	6.50	100.000	6.50	540.93
816312	TRUCK PICKUP <3/4 TON	1.00	83.22	HR	12.17	100.000	12.17	1,012.79
816343	TRUCK, FLATBED, 1 TON	1.00	83.22	HR	13.89	100.000	13.89	1,155.93
823206	BACKHOE 390 - 39T	1.00	83.22	HR	108.76	100.000	108.76	9,051.01
839830	MISC. SMALL TOOLS	1.00	83.22	HR	9.11	100.000	9.11	758.13
L10170	FOREMAN	1.00	83.22	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	5947.73	~~6,087.41~~
L10240	OPERATOR BACKHOE	1.00	83.22	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	3263.89	~~3,340.73~~
L10410	LABORER-COMMON	2.00	166.43	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	4605.19	~~4,713.14~~
L10430	CARPENTER	3.00	249.65	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	9189.62	~~9,405.67~~

Activity: 30.02 Pump Concrete Quantity: 24.00 Unit: YD3

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BRT03	Conc Pumping	1.00	24.00	YD3	30.00	106.250	31.88	765.00

Activity: 30.03 Point & Patch Quantity: 850.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.40	0.59	1.99	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.32
Total	~~1,189.58~~	~~499.62~~	~~1,689.20~~	279.22	0.00	0.00	0.00	0.00	0.00	0.00	~~1,968.42~~

1650.43 1929.65

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
2.3158	0.0143	70.0003	162.1059	1.2143	700.0033	0.0014	1,621.0594

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
36.4200	23.3388	0.0428	46.3811	1.3995

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: UH 70.0003 Eff: 100.00 Crew Hrs: 12.14 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	12.14	HR	13.89	100.000	13.89	168.62
839830	MISC. SMALL TOOLS	1.00	12.14	HR	9.11	100.000	9.11	110.60
L10190	FOREMAN	1.00	12.14	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	867.65	~~888.02~~
L10410	LABORER-COMMON	1.00	12.14	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	335.91	~~343.80~~
L10450	CONC. FINISHER	1.00	12.14	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	446.87	~~457.38~~

Activity: 40.02 Install frame & grate Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	293.97	123.47	417.44	69.00	0.00	0.00	0.00	0.00	0.00	0.00	486.44
Total	~~293.97~~	~~123.47~~	~~417.44~~	69.00	0.00	0.00	0.00	0.00	0.00	0.00	~~486.44~~

407.85 476.85

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
486.4400	3.0000	0.3333	162.1467	0.3000	3.3333	0.3000	1,621.4667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.0000	0.1111	9.0000	46.3822	293.9700

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
839830	MISC. SMALL TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
L10173	FOREMAN	1.00	3.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	214.41	~~219.45~~
L10410	LABORER-COMMON	1.00	3.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	83.01	~~84.96~~
L10450	CONC. FINISHER	1.00	3.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	110.43	~~113.03~~

Activity: 50.01 Install Rebar - SUB Quantity: 8350.00 Unit: LB

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction $6,262.56

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
450300	Reinforcing Steel Install	1.00	8,350.00	LBS	0.75	100.000	0.75	~~6,292.56~~

Activity: 60.1 DEWATERING, SUBCONTRACT Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
446201	Install Wellpoints, Storm	1.00	1.00	EA	2,750.00	100.000	2,750.00	2,750.00

Activity: 60.2 WELPT / SOCK, PUMP OPER. PIP Quantity: 2.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	438.75	184.28	623.02	770.00	0.00	0.00	0.00	0.00	0.00	0.00	1,393.02
Total	~~877.49~~	~~368.55~~	~~1,246.04~~ 1217.48	1,540.00	0.00	0.00	0.00	0.00	0.00	0.00	~~2,786.04~~ 2757.48

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1,393.0200	110.0000	0.0091	12.6638	22.0000	0.0909	11.0000	126.6382

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
44.0000	0.0455	22.0000	28.3191	438.7450

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1818 (Mod) PIPWRK;WELLP,OPER LONG TERM Prod: HU 110 Eff: 100.00 Crew Hrs: 220.00 Labor Pcs: 0.20 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821320	(R) PUMP, WELLPOINT, 8"	1.00	220.00	HR	7.00	100.000	7.00	1,540.00
L10410	LABORER-COMMON	0.20	44.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	1217.48	~~1,246.04~~

Activity: 60.3 By Pass Pumping Quantity: 12.00 Unit: DY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	95.73	40.21	135.93	216.00	0.00	0.00	0.00	0.00	0.00	0.00	351.93
Total	~~1,148.72~~	~~482.46~~	~~1,631.18~~ 1593.79	2,592.00	0.00	0.00	0.00	0.00	0.00	0.00	~~4,223.18~~ 4185.79

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
351.9317	24.0000	0.0417	14.6638	28.8000	0.4167	2.4000	146.6382

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
57.6000	0.2083	4.8000	28.3191	95.7267

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1825 (Mod) PUMPING Prod: HU 24 Eff: 100.00 Crew Hrs: 288.00 Labor Pcs: 0.20 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total

821182	(R) PUMP HYDRAULIC 8"	1.00	288.00	HR	7.00	100.000	7.00		2,016.00
821200	(R) 8" DISCHARGE PIPE, 100'	1.00	288.00	HR	2.00	100.000	2.00		576.00
L10410	LABORER-COMMON	0.20	57.60	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	1593.79	~~1,631.18~~

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Bulling No.1 JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-12aa1)

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-12aa1)	1.00	EA	$75,845.68	856.89	~~$31,851.04~~	$19,628.08	~~$18,398.05~~	~~$5,968.51~~	~~$75,845.68~~
							$31,348.15		$18,119.64	$5,940.00	
											75,845.68
		Subtotal				856.89	~~$31,851.04~~	$19,628.08	~~$18,398.05~~	~~$5,968.51~~	~~$75,845.68~~
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$3,822.12	$2,355.37	$2,207.77	$477.48	$8,862.74
		Subtotal									~~$84,708.42~~
		Bond									
		Total	1.00	EA	$84,708.42						~~$84,708.42~~

$83,802.57
- $46,934.57
$36,868.00

Classification	Unit Rate	Unit Rate - As Reviewed	% Difference
Working Foreman	$ 73.15	$ 71.47	2.30%
Carpenter	$ 37.67	$ 36.81	2.28%
Labor - Skilled	$ 30.25	$ 29.56	2.28%
Labor - Common	$ 28.32	$ 27.67	2.30%
Concrete Finisher	$ 37.67	$ 36.81	2.28%
Pipe Layer	$ 37.95	$ 37.08	2.29%
Operator - Excavator	$ 40.15	$ 39.22	2.32%
Operator - Dozer	$ 41.80	$ 40.84	2.30%
Operator - Loader	$ 34.92	$ 34.12	2.29%
Operator - Grader	$ 40.23	$ 39.30	2.31%
Operator - Roller	$ 29.70	$ 29.02	2.29%
Electrician Working Foreman	$ 91.77	$ 89.66	2.30%
Electrician Working Foreman	$ 53.89	$ 52.65	2.30%
Average % Difference			2.30%

Submitted price is for entire structure construction.

Contractor has been paid for this structure under original Add Alt 1 pay item 425-2-71 a sum of $46,934.57.

Negotiated Unit Price - **$36,698.67**

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

S-12AA1 _425-2-71 (Manhole/Junction Box. J-7, > 10', Modified Top))

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-12aa1)	1.00	EA	$75,845.68	856.89	$31,851.04	$19,628.08	$18,398.05	$5,968.51	$75,845.68
											75,845.68
		Subtotal				856.89	$31,851.04	$19,628.08	$18,398.05	$5,968.51	$75,845.68
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$3,822.12	$2,355.37	$2,207.77	$477.48	$8,862.74
		Subtotal									$84,708.42
		Bond									
		Total	1.00	EA	$84,708.42						$84,708.42

Notes: C.I.P. MANHOLES/JUNCTION BOXES, SPECIAL (AIRCRAFT RATED) (STRUCTURE S-12AA1)

CONCRETE TOTAL = 23 CY
REBAR TOTAL = 7920 LBS

FORM TOTAL = 940 SF
Wall = 620 SF
Bottom = 60 SF
Top = 260 SF

Cast-in-Place Drainage Junction Boxes (Interior 12.5ft x 11ft), bottom slab 14.17'x12.83'x0.83', top slab 14.17'x12.83'x0.83', 7' Depth.

Biditem

70

INLET BOXES, SPECIAL (AIRCRAFT RATED) (S-12aa1)

Takeoff Qty: 1.000 EA

Bid Qty: 1.000 EA

Client #: D-751-5.2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	22,430.32	9,420.72	31,851.04	19,628.08	18,344.05	54.00	5,968.51	0.00	0.00	0.00	75,845.68
Total	~~22,430.32~~	~~9,420.72~~	~~31,851.04~~	19,628.08	18,344.05	54.00	5,968.51	0.00	0.00	0.00	75,845.68

31348.15

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
856.8900	0.0012	856.8900	88.5127	26.1764	37.1705	0.0014

Activity: 10.01 Concrete Matl, Class IV, 5500 Quantity: 23.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	224.15	0.00	0.00	0.00	0.00	0.00	224.15
Total	0.00	0.00	0.00	0.00	5,155.50	0.00	0.00	0.00	0.00	0.00	5,155.50

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B1030	Conc 5500 psi	1.00	23.00	YD3	168.00	106.250	178.50	4,105.50
2B1048	Fuel Surcharge	1.00	3.00	LD	75.00	100.000	75.00	225.00
2B1050	Envir Fees	1.00	3.00	LD	25.00	100.000	25.00	75.00
2B1052	Min Load	1.00	3.00	LD	250.00	100.000	250.00	750.00

Activity: 10.03 Form Matl. Quantity: 940.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00	0.00	1.56
Total	0.00	0.00	0.00	0.00	1,470.73	0.00	0.00	0.00	0.00	0.00	1,470.73

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BF301	Box Culvert Footing Form	1.00	60.00	FT2	1.18	106.250	1.25	75.23
2BF303	Box Culvert Wall Form	1.00	620.00	FT2	1.18	106.250	1.25	777.33
2BF305	Box Culvert Top Form	1.00	260.00	FT2	1.18	106.250	1.25	325.98
2BFENG	Form Mtls Engineering Fees	1.00	1.00	EA	275.00	106.250	292.19	292.19

Activity: 10.04 Rebar Matl. Quantity: 7920.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.71
Total	0.00	0.00	0.00	0.00	5,638.05	0.00	0.00	0.00	0.00	0.00	~~5,638.05~~

$5,364.56

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Constru

Resource	Description	Pcs/Wste	Quantity	Unit		Unit Cost	Tax/OT %	Actual UC	Total
2B2005	Rebar Matl (black)	1.00	7,920.00	LB	0.6125	~~0.65~~	106.250	0.69	~~5,469.75~~
2B2007	Rebar Accessories	1.00	7,920.00	LB	0.025	~~0.02~~	106.250	0.02	~~168.30~~

Activity: 10.05 Unld / Handle Rebar Quantity: 7920.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.12	0.05	0.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Total	~~948.04~~	~~398.17~~	~~1,346.21~~	783.09	0.00	0.00	0.00	0.00	0.00	0.00	~~2,129.30~~

1325.66

2108.75

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
0.2689	0.0010	1,000.0000	268.8510	0.7920	10,000.0000	0.0001	2,688.5101

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
39.6000	200.0000	0.0050	33.9952	0.1197

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA5220 CONC;REBAR,UNLD/HNDL Prod: UH 1000 Eff: 100.00 Crew Hrs: 7.92 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
819143	(R) CRANE, RT 21-40 TON	1.00	7.92	HR	98.88	100.000	98.88	783.09
L10271	OPERATOR CRANE BRIDGE	1.00	7.92	MH	36.30	110.000	56.70	449.07
L10411	LABORER-COMMON BRIDGE	4.00	31.68	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	876.59	~~897.14~~

Activity: 10.07 USF 9151 Frame & Grate Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D2FG	USF 9151 Frame & Grate	1.00	1.00	EA	4,672.13	106.250	4,964.14	4,964.14

Activity: 10.08 Bedding Stone Quantity: 12.00 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	31.88	4.50	0.00	0.00	0.00	0.00	36.38
Total	0.00	0.00	0.00	0.00	382.50	54.00	0.00	0.00	0.00	0.00	436.50

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG055	# 57 (1- #4)	1.00	12.00	TON	30.00	106.250	31.88	382.50
335110	Misc Aggregate Haul	1.00	12.00	TON	$4.09	~~4.50~~	100.000	4.50	$49.08	~~54.00~~

Activity: 20.01 Excv. for Junction Box Quantity: 50.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	~~16.51~~	~~6.93~~	~~23.44~~	17.86	0.00	0.00	0.00	0.00	0.00	0.00	~~41.30~~
Total	~~825.49~~	~~346.70~~	~~1,172.19~~	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,064.99~~

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
41.2998	0.1000	10.0000	412.9980	0.5000	100.0000	0.0100	4,129.9800

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	1.6667	0.6000	39.0730	16.5098

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 10 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN PIPE	1.00	5.00	MH	46.83	80.000	53.20	265.99
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.08	~~37.96~~	370.80	~~379.57~~

Activity: 20.02 Grade for Junction Box Quantity: 450.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.83	0.77	2.60	1.98	0.00	0.00	0.00	0.00	0.00	0.00	4.59
Total	~~825.49~~	~~346.70~~	~~1,172.19~~ 1151.29	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,064.99~~ 2044.09

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
4.5889	0.0111	90.0000	412.9980	0.5000	900.0000	0.0011	4,129.9800

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	15.0000	0.0667	39.0730	1.8344

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 90 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN PIPE	1.00	5.00	MH	46.83	80.000	53.20	265.99
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.08	~~37.96~~	370.80	~~379.57~~

Activity: 20.03 Backfill Junction Box Quantity: 10.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	82.55	34.67	117.22	89.28	0.00	0.00	0.00	0.00	0.00	0.00	206.50
Total	~~825.49~~	~~346.70~~	~~1,172.19~~ 1151.29	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,064.99~~ 2044.09

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
206.4990	0.5000	2.0000	412.9980	0.5000	20.0000	0.0500	4,129.9800

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	0.3333	3.0000	39.0730	82.5490

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 2 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN PIPE	1.00	5.00	MH	46.83	80.000	53.20	265.99
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.08	~~37.96~~	370.80	~~379.57~~

Activity: 30.01 F/P/S Junction Box Quantity: 940.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	17.73	7.45	25.18	14.50	0.00	0.00	0.00	0.00	0.00	0.00	39.68
Total	~~16,669.44~~	~~7,001.17~~	~~23,670.61~~ 23307.00	13,628.70	0.00	0.00	0.00	0.00	0.00	0.00	~~37,299.31~~ 36935.70

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
39.6801	0.0957	10.4444	414.4368	9.0000	104.4444	0.0096	4,144.3678

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
630.0000	1.4921	0.6702	37.5724	17.7334

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3333 (Mod) CONC;BX CULV, 5 MAN W/CR Prod: UH 10.4444 Eff: 100.00 Crew Hrs: 90.00 Labor Pcs: 7.00 Equipment Pcs: 6.00

Notes: Form; 4 shifts
Pour; 3 shifts
Strip; 2 shifts

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
814101T	GENERATOR SMALL	1.00	90.00	HR	1.00	100.000	1.00	90.00
814202T	(R) AIR COMPRESSOR 200 CFM	1.00	90.00	HR	6.50	100.000	6.50	585.00
816312	TRUCK PICKUP <3/4 TON	1.00	90.00	HR	12.17	100.000	12.17	1,095.30
816343	TRUCK, FLATBED, 1 TON	1.00	90.00	HR	13.89	100.000	13.89	1,250.10
823206	BACKHOE 390 - 39T	1.00	90.00	HR	108.76	100.000	108.76	9,788.40
839830	MISC. SMALL TOOLS	1.00	90.00	HR	9.11	100.000	9.11	819.90
L10170	FOREMAN	1.00	90.00	MH	46.83	80.000	53.20	4,787.90
L10240	OPERATOR BACKHOE	1.00	90.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 3599.80	~~3,612.91~~
L10410	LABORER-COMMON	2.00	180.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 4980.60	~~5,097.43~~
L10430	CARPENTER	3.00	270.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~ 9938.70	~~10,172.37~~

Activity: 30.02 Pump Concrete Quantity: 23.00 Unit: YD3

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BRT03	Conc Pumping	1.00	23.00	YD3	30.00	106.250	31.88	733.13

Activity: 30.03 Point & Patch Quantity: 940.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.20	0.50	1.70	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.03
Total	~~1,127.29~~	~~473.47~~	~~1,600.76~~ 1580.43	308.89	0.00	0.00	0.00	0.00	0.00	0.00	~~1,909.65~~ 1889.32

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
2.0315	0.0143	69.9999	142.2077	1.3429	699.9985	0.0014	1,422.0768

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.2900	23.3309	0.0429	39.7310	1.1992

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: UH 70 Eff: 100.00 Crew Hrs: 13.43 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	13.43	HR	13.89	100.000	13.89	186.54
839830	MISC. SMALL TOOLS	1.00	13.43	HR	9.11	100.000	9.11	122.35
L10190	CREW CHIEF	1.00	13.43	MH	46.83	80.000	53.20	714.46
L10410	LABORER-COMMON	1.00	13.43	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 371.61	~~380.32~~
L10450	CONC. FINISHER	1.00	13.43	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~ 494.36	~~505.98~~

Activity: 40.02 Install frame & grate Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	251.82	105.76	357.58	69.00	0.00	0.00	0.00	0.00	0.00	0.00	426.58
Total	~~251.82~~	~~105.76~~	~~357.58~~ 353.03	69.00	0.00	0.00	0.00	0.00	0.00	0.00	~~426.58~~ 422.03

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
426.5800	3.0000	0.3333	142.1933	0.3000	3.3333	0.3000	1,421.9333

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.0000	0.1111	9.0000	39.7311	251.8200

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
839830	MISC. SMALL TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
L10173	FOREMAN PIPE	1.00	3.00	MH	46.83	80.000	53.20	159.59
L10410	LABORER-COMMON	1.00	3.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 83.01	~~84.96~~
L10450	CONC. FINISHER	1.00	3.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~ 110.43	~~113.03~~

Activity: 50.01 Install Rebar - SUB Quantity: 7920.00 Unit: LB

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
450300	Reinforcing Steel Install	1.00	7,920.00	LBS	0.75	100.000	0.75	~~5,968.51~~ $5,940.00

Activity: 60.3 By Pass Pumping (Unreviewed) Quantity: 10.00 Unit: DAY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	95.73	40.21	135.93	216.00	0.00	0.00	0.00	0.00	0.00	0.00	351.93
Total	~~957.26~~	~~402.05~~	~~1,359.31~~ 1328.16	2,160.00	0.00	0.00	0.00	0.00	0.00	0.00	~~3,519.31~~ 3488.16

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
351.9310	24.0000	0.0417	14.6638	24.0000	0.4167	2.4000	146.6379

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.0000	0.2083	4.8000	28.3190	95.7260

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1825 (Mod) PUMPING Prod: HU 24 Eff: 100.00 Crew Hrs: 240.00 Labor Pcs: 0.20 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821182	(R) PUMP HYDRAULIC 8"	1.00	240.00	HR	7.00	100.000	7.00	1,680.00
821200	(R) 8" DISCHARGE PIPE, 100'	1.00	240.00	HR	2.00	100.000	2.00	480.00
L10410	LABORER-COMMON	0.20	48.00	MH	~~18.13~~	~~110.000~~	27.32	~~28.32~~ 1328.16	~~1,359.31~~

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Change Order No. 1 - TYPE E DITCH BOTTOM INLET S-13bb

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		TYPE E DITCH BOTTOM INLET S-13bb	1.00	EA	$9,665.08	42.50	~~$1,844.32~~ $1,801.90	$1,004.71	~~$4,316.05~~ $4,051.81	~~$2,500.00~~	~~$9,665.08~~
							$1,801.90		$4,051.81		~~9,665.08~~
		Subtotal				42.50	~~$1,844.32~~	$1,004.71	~~$4,316.05~~	~~$2,500.00~~	~~$9,665.08~~
		Markup Percent					12%	12%	12%	~~8%~~	
		Markup Total					$221.32	$120.57	$517.93	~~$200.00~~	$1,059.81
		Subtotal									~~$10,724.89~~
		Bond									
		Total	1.00	EA	$10,724.89						~~$10,724.89~~

$7,681.43

Negotiated Unit Price **$7868.52**

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		TYPE E DITCH BOTTOM INLET S-13bb	1.00	EA	$9,665.08	42.50	$1,844.32	$1,004.71	$4,316.05	$2,500.00	$9,665.08
											9,665.08
		Subtotal				42.50	$1,844.32	$1,004.71	$4,316.05	$2,500.00	$9,665.08
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$221.32	$120.57	$517.93	$200.00	$1,059.81
		Subtotal									$10,724.89
		Bond									
		Total	1.00	EA	$10,724.89						$10,724.89

Biditem

73

TYPE E DITCH BOTTOM INLET S-13bb

Takeoff Qty: 1.000 EA

Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1,298.83	545.49	1,844.32	1,004.71	4,296.25	19.80	2,500.00	0.00	0.00	0.00	9,665.08
Total	~~1,298.83~~	~~545.49~~	~~1,844.32~~ 1801.90	1,004.71	4,296.25	19.80	~~2,500.00~~	0.00	0.00	0.00	~~9,665.08~~

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
42.5000	0.0235	42.5000	227.4136	30.5607	43.3958	0.1081

Activity: 31102 TYPE E <10' SUPPLIED Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit		Tax/OT %	Actual UC	
2D6E<10	Type E, DB Inlet, <10'	1.00	1.00	EA	~~3,500.00~~ $3,251.30	106.250	3,718.75	~~3,718.75~~ $3,454.51

Activity: 31210.1 MISC MATERIALS Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D10-E-DBI	Misc - E - D.B. Inlet	1.00	1.00	EA	450.00	100.000	450.00	450.00

Activity: 31210.2 Unload/Stkple/Tram Structure Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	11.14	4.67	15.81	19.91	0.00	0.00	0.00	0.00	0.00	0.00	35.72
Total	~~11.14~~	~~4.67~~	~~15.81~~ 15.45	19.91	0.00	0.00	0.00	0.00	0.00	0.00	~~35.72~~ 35.36

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
35.7200	0.2500	4.0000	142.8800	0.0250	40.0000	0.0250	1,428.8000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.5000	2.0000	0.5000	31.6200	11.1400

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3584 PIPWRK;UTIL,UNLOAD/STRING Prod: HU 0.25 Eff: 100.00 Crew Hrs: 0.25 Labor Pcs: 2.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
822507	LOADER 3-1/2CY CAT	1.00	0.25	HR	79.63	100.000	79.64	19.91
L10320	OPERATOR LOADER	1.00	0.25	MH	~~22.36~~	~~110.000~~	34.12	~~34.92~~ 8.53 ~~8.73~~
L10410	LABORER-COMMON	1.00	0.25	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 6.92 ~~7.08~~

Activity: 31210.3 Set "E" DBI <10' Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	895.74	376.21	1,271.95	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75
Total	~~895.74~~	~~376.21~~	~~1,271.95~~ 1242.65	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~ 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
2,164.7500	5.0000	0.2000	432.9500	0.5000	2.0000	0.5000	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	0.0333	30.0000	42.3983	895.7400

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: HU 5 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 31210.4 TRIM & FINISH DRAIN INLET/MH Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	391.95	164.61	556.56	92.00	0.00	0.00	0.00	0.00	0.00	0.00	648.56
Total	~~391.95~~	~~164.61~~	~~556.56~~ 543.80	92.00	0.00	0.00	0.00	0.00	0.00	0.00	~~648.56~~ 635.80

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
648.5600	4.0000	0.2500	162.1400	0.4000	2.5000	0.4000	1,621.4000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
12.0000	0.0833	12.0000	46.3800	391.9500

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 4 Eff: 100.00 Crew Hrs: 4.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	4.00	HR	13.89	100.000	13.89	55.56
839830	MISC. SMALL TOOLS	1.00	4.00	HR	9.11	100.000	9.11	36.44
L10173	FOREMAN	1.00	4.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	285.88	~~292.59~~
L10410	LABORER-COMMON	1.00	4.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	110.68	~~113.27~~
L10450	CONC. FINISHER	1.00	4.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	147.24	~~150.70~~

Activity: 31210.5 Inlet Apron Paving Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
441002	Inlet Apron Paving	~~1.00~~	~~1.00~~	EA	~~2,500.00~~	~~100.000~~	~~2,500.00~~	~~2,500.00~~

Activity: 31210.6 Bedding Stone Quantity: 4.00 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	31.88	4.95	0.00	0.00	0.00	0.00	36.83
Total	0.00	0.00	0.00	0.00	127.50	19.80	0.00	0.00	0.00	0.00	~~147.30~~ 143.86

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG055	# 57 (1- #4)	1.00	4.00	TON	30.00	106.250	31.88	127.50
335110	Misc Aggregate Haul	1.00	4.00	TON	4.09	~~4.95~~	100.000	4.95	~~19.80~~

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Change Order No.1 JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-14)

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-14)	1.00	EA	$142,485.96	1,427.33	~~$55,413.85~~	$33,844.94	~~$35,073.59~~	~~$18,153.58~~	~~$142,485.96~~
							$54,168.27		$34,347.13	$18,080.00	
											~~142,485.96~~
		Subtotal				1,427.33	~~$55,413.85~~	$33,844.94	~~$35,073.59~~	~~$18,153.58~~	~~$142,485.96~~
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$6,649.66	$4,061.39	$4,208.83	$1,452.29	$16,372.17
		Subtotal									~~$158,858.13~~
		Bond									
		Total	1.00	EA	$158,858.13						~~$158,858.13~~

$156,569.98
- $ 39,332.19
$117,237.79

Submitted price is for entire structure construction.

Contractor has been paid for this structure under original Add Alt 2 pay item D-751-5.1 a sum of $39,332.19.

Negotiated Unit Price **$117,358.13**

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

S-14 _ D-751-5.2 (Manhole/Junction Box, Special (Aircraft Rated))

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-14)	1.00	EA	$142,485.96	1,427.33	$55,413.85	$33,844.94	$35,073.59	$18,153.58	$142,485.96
											142,485.96
		Subtotal				1,427.33	$55,413.85	$33,844.94	$35,073.59	$18,153.58	$142,485.96
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$6,649.66	$4,061.39	$4,208.83	$1,452.29	$16,372.17
		Subtotal									$158,858.13
		Bond									
		Total	1.00	EA	$158,858.13						$158,858.13

Notes:

C.I.P. MANHOLES/JUNCTION BOXES, SPECIAL (AIRCRAFT RATED) (STRUCTURE S-14) ESI No.4

CONCRETE TOTAL = 59 CY
REBAR TOTAL = 20,440 LBS

FORM TOTAL = 1,450 SF
Wall = 860 SF
Bottom = 470 SF
Top = 120 SF

Cast-in-Place Drainage Junction Boxes (Interior 15ft x 15ft), bottom slab 20'x20'x1.33', 6' Depth.

Biditem

80

MANHOLES/JNCTION BOXES SPECIAL AIRCRAFT RATED S-14

Takeoff Qty: 1.000 EA

Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	39,023.84	16,390.01	55,413.85	33,844.94	34,954.79	118.80	18,153.58	0.00	0.00	0.00	142,485.96
Total	~~39,023.84~~	~~16,390.01~~	~~55,413.85~~	33,844.94	34,954.79	118.80	18,153.58	0.00	0.00	0.00	142,485.96

54168.27

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,427.3300	0.0007	1,427.3300	99.8269	27.3404	38.8234	0.0009

Activity: 10.01 Concrete Matl, Class IV, 5500 Quantity: 59.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	195.45	0.00	0.00	0.00	0.00	0.00	195.45
Total	0.00	0.00	0.00	0.00	11,531.50	0.00	0.00	0.00	0.00	0.00	11,531.50

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B1030	Conc 5500 psi	1.00	59.00	YD3	168.00	106.250	178.50	10,531.50
2B1048	Fuel Surcharge	1.00	5.00	LD	75.00	100.000	75.00	375.00
2B1050	Envir Fees	1.00	5.00	LD	25.00	100.000	25.00	125.00
2B1052	Min Load	1.00	2.00	LD	250.00	100.000	250.00	500.00

Activity: 10.03 Form Matl. Quantity: 1450.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.67
Total	0.00	0.00	0.00	0.00	970.60	0.00	0.00	0.00	0.00	0.00	970.60

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BF301	Box Culvert Footing Form	1.00	120.00	FT2	0.63	106.250	0.67	80.33
2BF303	Box Culvert Wall Form	1.00	860.00	FT2	0.63	106.250	0.67	575.66
2BF305	Box Culvert Top Form	1.00	470.00	FT2	0.63	106.250	0.67	314.61

Activity: 10.04 Rebar Matl. Quantity: 20440.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.73
Total	0.00	0.00	0.00	0.00	14,842.92	0.00	0.00	0.00	0.00	0.00	~~14,842.92~~

$14,137.10

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit		Unit Cost	Tax/OT %	Actual UC	Total
2B2005	Rebar Matl (black)	1.00	20,440.00	LB	0.6125	~~0.65~~	~~106.250~~	~~0.69~~	~~14,116.38~~
2B2007	Rebar Accessories	1.00	20,440.00	LB	0.025	~~0.02~~	~~106.250~~	~~0.02~~	~~434.35~~
2BFENG	Form Mtls Engineering Fees	1.00	1.00	EA		275.00	106.250	292.19	292.19

Activity: 10.05 Unld / Handle Rebar Quantity: 20440.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.12	0.05	0.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Total	~~2,446.71~~	~~1,027.62~~	~~3,474.33~~	2,021.01	0.00	0.00	0.00	0.00	0.00	0.00	~~5,495.34~~

3421.26

3623.27

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
0.2689	0.0010	1,000.0000	268.8523	2.0440	10,000.0000	0.0001	2,688.5225

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
102.2000	200.0000	0.0050	33.9954	0.1197

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA5220 CONC;REBAR,UNLD/HNDL Prod: UH 1000 Eff: 100.00 Crew Hrs: 20.44 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
819143	(R) CRANE, RT 21-40 TON	1.00	20.44	HR	98.88	100.000	98.88	2,021.01
L10271	OPERATOR CRANE BRIDGE	1.00	20.44	MH	36.30	110.000	56.70	1,158.96
L10411	LABORER-COMMON BRIDGE	4.00	81.76	MH	~~18.13~~	~~110.000~~	27.32	~~28.32~~ 2262.30 ~~2,315.37~~

Activity: 10.07 USF 9151 Frame & Grate Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D2FG	USF 9151 Frame & Grate	1.00	1.00	EA	4,672.13	106.250	4,964.14	4,964.14

Activity: 10.08 Bedding Stone Quantity: 24.00 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	31.88	4.95	0.00	0.00	0.00	0.00	36.83
Total	0.00	0.00	0.00	0.00	765.00	118.80	0.00	0.00	0.00	0.00	~~883.80~~ 863.16

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG055	# 57 (1- #4)	1.00	24.00	TON	30.00	106.250	31.88	765.00
335110	Misc Aggregate Haul	1.00	24.00	TON	$4.09 ~~4.95~~	100.000	4.95	~~118.80~~

Activity: 20.01 Excv. for Junction Box Quantity: 75.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	11.94	5.02	16.96	11.90	0.00	0.00	0.00	0.00	0.00	0.00	28.86
Total	~~895.74~~	~~376.21~~	~~1,271.95~~ 1242.65	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~ 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
28.8633	0.0667	15.0000	432.9500	0.5000	150.0000	0.0067	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	2.5000	0.4000	42.3983	11.9432

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 15 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~ 357.35 ~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 196.10 ~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~ 170.60 ~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~ 147.80 ~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~ 370.80 ~~379.57~~

Activity: 20.02 Grade for Junction Box Quantity: 625.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.43	0.60	2.04	1.43	0.00	0.00	0.00	0.00	0.00	0.00	3.46
Total	~~895.74~~	~~376.21~~	~~1,271.95~~ 1242.65	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~ 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
3.4636	0.0080	125.0000	432.9500	0.5000	1,250.0000	0.0008	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	20.8333	0.0480	42.3983	1.4332

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 125 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 20.03 Backfill Junction Box Quantity: 15.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	59.72	25.08	84.80	59.52	0.00	0.00	0.00	0.00	0.00	0.00	144.32
Total	~~895.74~~	~~376.21~~	~~1,271.95~~	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75
			1242.65								2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
144.3167	0.3333	3.0000	432.9500	0.5000	30.0000	0.0333	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	0.5000	2.0000	42.3983	59.7160

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 3 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 30.01 F/P/S Junction Box Quantity: 1450.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	19.24	8.08	27.32	14.62	0.00	0.00	0.00	0.00	0.00	0.00	41.94
Total	~~27,897.10~~	~~11,716.78~~	~~39,613.88~~	21,200.20	0.00	0.00	0.00	0.00	0.00	0.00	~~60,814.08~~
			38704.40								59904.60

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
41.9407	0.0966	10.3571	434.3863	14.0000	103.5714	0.0097	4,343.8629

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
980.0000	1.4796	0.6759	40.4223	19.2394

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3333 (Mod) CONC;BX CULV, 5 MAN W/CR Prod: UH 10.3571 Eff: 100.00 Crew Hrs: 140.00 Labor Pcs: 7.00 Equipment Pcs: 6.00

Notes: Form; 6 shifts
Pour; 5 shift
Strip; 3 shift

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
814101T	GENERATOR SMALL	1.00	140.00	HR	1.00	100.000	1.00	140.00
814202T	(R) AIR COMPRESSOR 200 CFM	1.00	140.00	HR	6.50	100.000	6.50	910.00
816312	TRUCK PICKUP <3/4 TON	1.00	140.00	HR	12.17	100.000	12.17	1,703.80
816343	TRUCK, FLATBED, 1 TON	1.00	140.00	HR	13.89	100.000	13.89	1,944.60
823206	BACKHOE 390 - 39T	1.00	140.00	HR	108.76	100.000	108.76	15,226.40
839830	MISC. SMALL TOOLS	1.00	140.00	HR	9.11	100.000	9.11	1,275.40
L10170	FOREMAN	1.00	140.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~ 10005.80	~~10,240.78~~
L10240	OPERATOR BACKHOE	1.00	140.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 5490.80	~~5,620.08~~
L10410	LABORER-COMMON	2.00	280.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 7747.60	~~7,929.34~~
L10430	CARPENTER	3.00	420.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~ 15460.20	~~15,823.68~~

Activity: 30.02 Pump Concrete Quantity: 59.00 Unit: YD3

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BRT03	Conc Pumping	1.00	59.00	YD3	30.00	106.250	31.88	1,880.63

Activity: 30.03 Point & Patch Quantity: 1450.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.40	0.59	1.99	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.32
Total	~~2,029.33~~	~~852.32~~	~~2,881.65~~ 2815.33	476.33	0.00	0.00	0.00	0.00	0.00	0.00	~~3,357.98~~ 3291.86

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
2.3158	0.0143	70.0000	162.1093	2.0714	699.9995	0.0014	1,621.0927

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
62.1300	23.3382	0.0428	46.3810	1.3995

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: UH 70 Eff: 100.00 Crew Hrs: 20.71 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	20.71	HR	13.89	100.000	13.89	287.66
839830	MISC. SMALL TOOLS	1.00	20.71	HR	9.11	100.000	9.11	188.67
L10190	FOREMAN	1.00	20.71	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~ 1480.14	~~1,514.90~~
L10410	LABORER-COMMON	1.00	20.71	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 573.05	~~586.49~~
L10450	CONC. FINISHER	1.00	20.71	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~ 762.34	~~780.26~~

Activity: 40.02 Install frame & grate Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	293.97	123.47	417.44	69.00	0.00	0.00	0.00	0.00	0.00	0.00	486.44
Total	293.97	123.47	417.44	69.00	0.00	0.00	0.00	0.00	0.00	0.00	486.44

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
486.4400	3.0000	0.3333	162.1467	0.3000	3.3333	0.3000	1,621.4667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.0000	0.1111	9.0000	46.3822	293.9700

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
839830	MISC. SMALL TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
L10173	FOREMAN	1.00	3.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~ 214.41	~~219.45~~
L10410	LABORER-COMMON	1.00	3.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 83.01	~~84.96~~
L10450	CONC. FINISHER	1.00	3.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~ 110.43	~~113.03~~

Activity: 50.01 Install Rebar - SUB Quantity: 20440.00 Unit: LB

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

$15,330.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	
450300	Reinforcing Steel Install	1.00	20,440.00	LBS	0.75	100.000	0.75	~~15,403.58~~

Activity: 60.1 DEWATERING, SUBCONTRACT Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
446201	Install Wellpoints, Storm	1.00	1.00	EA	2,750.00	100.000	2,750.00	2,750.00

Activity: 60.2 WELPT / SOCK, PUMP OPER. PIP Quantity: 4.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	438.75	184.27	623.02	770.00	0.00	0.00	0.00	0.00	0.00	0.00	1,393.02
Total	~~1,754.98~~	~~737.09~~	~~2,492.07~~	3,080.00	0.00	0.00	0.00	0.00	0.00	0.00	~~5,572.07~~
			2434.96								5514.96

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1,393.0175	110.0000	0.0091	12.6638	44.0000	0.0909	11.0000	126.6380

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
88.0000	0.0455	22.0000	28.3190	438.7450

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1818 (Mod) PIPWRK;WELLP,OPER LONG TERM Prod: HU 110 Eff: 100.00 Crew Hrs: 440.00 Labor Pcs: 0.20 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821320	(R) PUMP, WELLPOINT, 8"	1.00	440.00	HR	7.00	100.000	7.00	3,080.00
L10410	LABORER-COMMON	0.20	88.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 2434.96 ~~2,492.07~~

Activity: 60.3 By Pass Pumping Quantity: 20.00 Unit: DY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	95.73	40.21	135.93	216.00	0.00	0.00	0.00	0.00	0.00	0.00	351.93
Total	~~1,914.53~~	~~804.10~~	~~2,718.63~~	4,320.00	0.00	0.00	0.00	0.00	0.00	0.00	~~7,038.63~~
			2656.32								6976.32

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
351.9315	24.0000	0.0417	14.6638	48.0000	0.4167	2.4000	146.6381

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
96.0000	0.2083	4.8000	28.3191	95.7265

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1825 (Mod) PUMPING Prod: HU 24 Eff: 100.00 Crew Hrs: 480.00 Labor Pcs: 0.20 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821182	(R) PUMP HYDRAULIC 8"	1.00	480.00	HR	7.00	100.000	7.00	3,360.00
821200	(R) 8" DISCHARGE PIPE, 100'	1.00	480.00	HR	2.00	100.000	2.00	960.00
L10410	LABORER-COMMON	0.20	96.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 2656.32 ~~2,718.63~~

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Bulling No.2 JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-15)

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-15)	1.00	EA	$105,441.95	978.27	~~$37,772.40~~ $36,926.04	$23,752.68	~~$29,048.98~~ $28,476.52	~~$14,867.89~~ $14,810.00	~~$105,441.95~~
											~~105,441.95~~
		Subtotal				978.27	~~$37,772.40~~	$23,752.68	~~$29,048.98~~	~~$14,867.89~~	~~$105,441.95~~
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$4,532.69	$2,850.32	$3,485.88	$1,189.43	$12,058.32
		Subtotal									~~$117,500.27~~
		Bond									
		Total	1.00	EA	$117,500.27						~~$117,500.27~~

Submitted price is for entire structure construction.

Contractor has been paid for this structure under original Add Alt 2 pay item D-751-5.2 a sum of $41,143.13.

Negotiated Unit Price **$74,784.70**

$115,848.67
- $ 41,143.13
$ 74,705.70

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

S-15 _ D-751-5.2 (Inlet Box, Special Large (Aircraft Rated))

Notes: C.I.P. MANHOLES/JUNCTION BOXES, SPECIAL (AIRCRAFT RATED) (STRUCTURE S-15)

CONCRETE TOTAL = 46 CY
REBAR TOTAL = 16,080 LBS

FORM TOTAL = 720 SF
Wall = 410 SF
Bottom = 80 SF
Top = 230 SF

Cast-in-Place Drainage Junction Boxes (Interior 13ft x 3ft), bottom slab 18'x8'x1.33', top slab 25.33'x15.33, 5.1' Depth.

Biditem **MANHOLES/JNCTION BOXES SPECIAL AIRCRAFT RATED S-15**

90

Takeoff Qty: 1.000 EA
Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	26,600.27	11,172.13	37,772.40	23,752.68	28,949.98	99.00	14,867.89	0.00	0.00	0.00	105,441.95
Total	~~26,600.27~~	~~11,172.13~~	~~37,772.40~~	23,752.68	~~28,949.98~~	99.00	~~14,867.89~~	0.00	0.00	0.00	105,441.95

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
978.2700	0.0010	978.2700	107.7841	27.1911	38.6114	0.0012

Activity: 10.01 Concrete Matl, Class IV, 5500 Quantity: 46.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	210.02	0.00	0.00	0.00	0.00	0.00	210.02
Total	0.00	0.00	0.00	0.00	9,661.00	0.00	0.00	0.00	0.00	0.00	9,661.00

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B1030	Conc 5500 psi	1.00	46.00	YD3	168.00	106.250	178.50	8,211.00
2B1048	Fuel Surcharge	1.00	7.00	LD	75.00	100.000	75.00	525.00
2B1050	Envir Fees	1.00	7.00	LD	25.00	100.000	25.00	175.00
2B1052	Min Load	1.00	3.00	LD	250.00	100.000	250.00	750.00

Activity: 10.03 Form Matl. Quantity: 720.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00	1.08
Total	0.00	0.00	0.00	0.00	774.14	0.00	0.00	0.00	0.00	0.00	774.14

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BF301	Box Culvert Footing Form	1.00	80.00	FT2	0.63	106.250	0.67	53.55
2BF303	Box Culvert Wall Form	1.00	410.00	FT2	0.63	106.250	0.67	274.44
2BF305	Box Culvert Top Form	1.00	230.00	FT2	0.63	106.250	0.67	153.96
2BFENG	Form Mtls Engineering Fees	1.00	1.00	EA	275.00	106.250	292.19	292.19

Activity: 10.04 Rebar Matl. Quantity: 16080.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.71
Total	0.00	0.00	0.00	0.00	11,446.95	0.00	0.00	0.00	0.00	0.00	~~11,446.95~~

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construc $10,891.69

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B2005	Rebar Matl (black)	1.00	16,080.00	LB	0.6125 ~~0.65~~	~~106.250~~	~~0.69~~	~~11,105.25~~
2B2007	Rebar Accessories	1.00	16,080.00	LB	0.25 ~~0.02~~	~~106.250~~	~~0.02~~	~~341.70~~

Activity: 10.05 Unld / Handle Rebar Quantity: 16080.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.12	0.05	0.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Total	~~1,924.80~~	~~808.42~~	~~2,733.22~~	1,589.91	0.00	0.00	0.00	0.00	0.00	0.00	4,323.13

2691.47 4281.38

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
0.2689	0.0010	1,000.0000	268.8514	1.6080	10,000.0000	0.0001	2,688.5137

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
80.4000	200.0000	0.0050	33.9953	0.1197

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA5220 CONC;REBAR,UNLD/HNDL Prod: UH 1000 Eff: 100.00 Crew Hrs: 16.08 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
819143	(R) CRANE, RT 21-40 TON	1.00	16.08	HR	98.88	100.000	98.88	1,589.91
L10271	OPERATOR CRANE BRIDGE	1.00	16.08	MH	36.30	110.000	56.70	911.74
L10411	LABORER-COMMON BRIDGE	4.00	64.32	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	1779.73	~~1,821.48~~

Activity: 10.07 USF 9151 Frame & Grate Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D2FG	USF 9151 Frame & Grate	1.00	1.00	EA	4,672.13	106.250	4,964.14	4,964.14

Activity: 10.08 Bedding Stone Quantity: 20.00 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	31.88	4.95	0.00	0.00	0.00	0.00	36.83
Total	0.00	0.00	0.00	0.00	637.50	99.00	0.00	0.00	0.00	0.00	~~736.50~~

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construct $719.30

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG055	# 57 (1- #4)	1.00	20.00	TON	30.00	106.250	31.88	637.50
335110	Misc Aggregate Haul	1.00	20.00	TON	$4.09 ~~4.95~~	100.000	4.95	~~99.00~~

Activity: 20.01 Excv. for Junction Box Quantity: 75.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	11.94	5.02	16.96	11.90	0.00	0.00	0.00	0.00	0.00	0.00	28.86
Total	~~895.74~~	~~376.21~~	~~1,271.95~~	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
28.8633	0.0667	15.0000	432.9500	0.5000	150.0000	0.0067	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	2.5000	0.4000	42.3983	11.9432

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 15 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 20.02 Grade for Junction Box Quantity: 450.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.99	0.84	2.83	1.98	0.00	0.00	0.00	0.00	0.00	0.00	4.81
Total	~~895.74~~	~~376.21~~	~~1,271.95~~ 1242.65	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~ 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
4.8106	0.0111	90.0000	432.9500	0.5000	900.0000	0.0011	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	15.0000	0.0667	42.3983	1.9905

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 90 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 20.03 Backfill Junction Box Quantity: 15.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	59.72	25.08	84.80	59.52	0.00	0.00	0.00	0.00	0.00	0.00	144.32
Total	895.74	376.21	1,271.95	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
144.3167	0.3333	3.0000	432.9500	0.5000	30.0000	0.0333	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	0.5000	2.0000	42.3983	59.7160

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 3 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	357.80	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 30.01 F/P/S Junction Box Quantity: 720.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	24.91	10.46	35.37	18.93	0.00	0.00	0.00	0.00	0.00	0.00	54.30
Total	~~17,933.85~~	~~7,532.22~~	~~25,466.07~~	13,628.70	0.00	0.00	0.00	0.00	0.00	0.00	39,094.77

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
54.2983	0.1250	8.0000	434.3863	9.0000	80.0000	0.0125	4,343.8633

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
630.0000	1.1429	0.8750	40.4223	24.9081

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3333 (Mod) CONC;BX CULV, 5 MAN W/CR Prod: UH 8 Eff: 100.00 Crew Hrs: 90.00 Labor Pcs: 7.00 Equipment Pcs: 6.00

Notes: Form; 3 shifts per Junction Box
Pour; 3 shift
Strip; 1 shift

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
814101T	GENERATOR SMALL	1.00	90.00	HR	1.00	100.000	1.00	90.00
814202T	(R) AIR COMPRESSOR 200 CFM	1.00	90.00	HR	6.50	100.000	6.50	585.00
816312	TRUCK PICKUP <3/4 TON	1.00	90.00	HR	12.17	100.000	12.17	1,095.30
816343	TRUCK, FLATBED, 1 TON	1.00	90.00	HR	13.89	100.000	13.89	1,250.10
823206	BACKHOE 390 - 39T	1.00	90.00	HR	108.76	100.000	108.76	9,788.40
839830	MISC. SMALL TOOLS	1.00	90.00	HR	9.11	100.000	9.11	819.90
L10170	FOREMAN	1.00	90.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	6432.30	~~6,583.36~~
L10240	OPERATOR BACKHOE	1.00	90.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	3529.80	~~3,612.91~~
L10410	LABORER-COMMON	2.00	180.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	4980.60	~~5,097.43~~
L10430	CARPENTER	3.00	270.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	9938.70	~~10,172.37~~

Activity: 30.02 Pump Concrete Quantity: 46.00 Unit: YD3

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BRT03	Conc Pumping	1.00	46.00	YD3	30.00	106.250	31.88	1,466.25

Activity: 30.03 Point & Patch Quantity: 720.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.40	0.59	1.99	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.32
Total	~~1,008.29~~	~~423.49~~	~~1,431.78~~ 1398.91	236.67	0.00	0.00	0.00	0.00	0.00	0.00	~~1,668.45~~ 1635.58

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
2.3173	0.0143	70.0001	162.2106	1.0286	700.0010	0.0014	1,622.1064

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.8700	23.3236	0.0429	46.3810	1.4004

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: UH 70.0001 Eff: 100.00 Crew Hrs: 10.29 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	10.29	HR	13.89	100.000	13.89	142.93
839830	MISC. SMALL TOOLS	1.00	10.29	HR	9.11	100.000	9.11	93.74
L10190	FOREMAN	1.00	10.29	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	735.42	~~752.70~~
L10410	LABORER-COMMON	1.00	10.29	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	284.72	~~291.40~~
L10450	CONC. FINISHER	1.00	10.29	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	378.77	~~387.68~~

Activity: 40.02 Install Frame & grate Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	293.97	123.47	417.44	69.00	0.00	0.00	0.00	0.00	0.00	0.00	486.44
Total	~~293.97~~	~~123.47~~	~~417.44~~ 407.85	69.00	0.00	0.00	0.00	0.00	0.00	0.00	~~486.44~~ 476.85

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
486.4400	3.0000	0.3333	162.1467	0.3000	3.3333	0.3000	1,621.4667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.0000	0.1111	9.0000	46.3822	293.9700

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
839830	MISC. SMALL TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
L10173	FOREMAN	1.00	3.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	214.41	~~219.45~~
L10410	LABORER-COMMON	1.00	3.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	83.01	~~84.96~~
L10450	CONC. FINISHER	1.00	3.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	110.43	~~113.03~~

Activity: 50.01 Install Rebar - SUB Quantity: 16080.00 Unit: LB

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
450300	Reinforcing Steel Install	1.00	16,080.00	LBS	0.75	100.000	0.75	~~12,117.89~~ $12,060.00

Activity: 60.1 DEWATERING, SUBCONTRACT Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
446201	Install Wellpoints, Storm	1.00	1.00	EA	2,750.00	100.000	2,750.00	2,750.00

Activity: 60.2 WELPT / SOCK, PUMP OPER. PIP Quantity: 3.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	438.75	184.27	623.02	770.00	0.00	0.00	0.00	0.00	0.00	0.00	1,393.02
Total	~~1,316.24~~	~~552.82~~	~~1,869.06~~ 1826.22	2,310.00	0.00	0.00	0.00	0.00	0.00	0.00	~~4,179.06~~ 4136.22

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1,393.0200	110.0000	0.0091	12.6638	33.0000	0.0909	11.0000	126.6382

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
66.0000	0.0455	22.0000	28.3191	438.7467

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1818 (Mod) PIPWRK;WELLP,OPER LONG TERM Prod: HU 110 Eff: 100.00 Crew Hrs: 330.00 Labor Pcs: 0.20 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821320	(R) PUMP, WELLPOINT, 8"	1.00	330.00	HR	7.00	100.000	7.00	2,310.00
L10410	LABORER-COMMON	0.20	66.00	MH	~~18.13~~	~~110.000~~ 27.67	~~28.32~~ 1826.22	~~1,869.06~~

Activity: 60.3 By Pass Pumping Quantity: 15.00 Unit: DY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	95.73	40.21	135.93	216.00	0.00	0.00	0.00	0.00	0.00	0.00	351.93
Total	~~1,435.90~~	~~603.08~~	~~2,038.98~~ 1992.24	3,240.00	0.00	0.00	0.00	0.00	0.00	0.00	~~5,278.98~~ 5232.24

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
351.9320	24.0000	0.0417	14.6638	36.0000	0.4167	2.4000	146.6383

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
72.0000	0.2083	4.8000	28.3192	95.7267

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1825 (Mod) PUMPING Prod: HU 24 Eff: 100.00 Crew Hrs: 360.00 Labor Pcs: 0.20 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821182	(R) PUMP HYDRAULIC 8"	1.00	360.00	HR	7.00	100.000	7.00	2,520.00
821200	(R) 8" DISCHARGE PIPE, 100'	1.00	360.00	HR	2.00	100.000	2.00	720.00
L10410	LABORER-COMMON	0.20	72.00	MH	~~18.13~~	~~110.000~~ 27.67	~~28.32~~ 1992.24	~~2,038.98~~

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Change Order No. 1 JUNCTION BOXES, (AIRCRAFT RATED) (S-16)

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		JUNCTION BOXES, (AIRCRAFT RATED) (S-16)	1.00	EA	$60,732.90	654.23	~~$25,540.53~~ **$24,959.89**	$16,138.88	~~$12,889.68~~ **$12,720.36**	~~$6,163.81~~ **$6,147.50**	~~$60,732.90~~
											~~60,732.90~~
		Subtotal				654.23	~~$25,540.53~~	$16,138.88	~~$12,889.68~~	~~$6,163.81~~	~~$60,732.90~~
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$3,064.86	$1,936.67	$1,546.76	$493.10	$7,041.40
		Subtotal									$67,774.30
		Bond									
		Total	1.00	EA	$67,774.30						~~$67,774.30~~

Submitted price is for entire structure construction.

Contractor has been paid for this structure under original Add Alt 3 pay item D-751-5.2 a sum of $36,618.88.

Negotiated Unit Price **$30,031.45**

$ 66,916.73
- $ 36,948.16
$ 29,968.57

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

S-16 _ D-751-5.2 (Inlet Box, Special Large (Aircraft Rated))

Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
JUNCTION BOXES, (AIRCRAFT RATED) (S-16)	1.00	EA	$60,732.90	654.23	$25,540.53	$16,138.88	$12,889.68	$6,163.81	$60,732.90
									60,732.90
Subtotal				654.23	$25,540.53	$16,138.88	$12,889.68	$6,163.81	$60,732.90
Markup Percent					12%	12%	12%	8%	
Markup Total					$3,064.86	$1,936.67	$1,546.76	$493.10	$7,041.40
Subtotal									$67,774.30
Bond									
Total	1.00	EA	$67,774.30						$67,774.30

Notes: C.I.P. MANHOLES/JUNCTION BOXES, SPECIAL (AIRCRAFT RATED) (STRUCTURE S-16)

CONCRETE TOTAL = 13 CY
REBAR TOTAL = 4,530 LBS

FORM TOTAL = 480 SF
Wall = 310 SF
Bottom = 60 SF
Top = 110 SF

Cast-in-Place Drainage Junction Boxes (Interior 5ft x 5ft), bottom slab 10'x10'x1.33', 5.6' Depth.

Biditem **MANHOLES/JNCTION BOXES SPECIAL AIRCRAFT RATED S-16**

95

Takeoff Qty: 1.000 EA
Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	~~17,986.29~~	~~7,554.24~~	~~25,540.53~~	16,138.88	~~12,815.43~~	74.25	~~6,163.81~~	0.00	0.00	0.00	60,732.90
Total	~~17,986.29~~	~~7,554.24~~	~~25,540.53~~	16,138.88	~~12,815.43~~	74.25	~~6,163.81~~	0.00	0.00	0.00	60,732.90

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
654.2300	0.0015	654.2300	92.8311	27.4923	39.0391	0.0018

Activity: 10.01 Concrete Matl, Class IV, 5500 Quantity: 13.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	240.04	0.00	0.00	0.00	0.00	0.00	240.04
Total	0.00	0.00	0.00	0.00	3,120.50	0.00	0.00	0.00	0.00	0.00	3,120.50

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B1030	Conc 5500 psi	1.00	13.00	YD3	168.00	106.250	178.50	2,320.50
2B1048	Fuel Surcharge	1.00	3.00	LD	75.00	100.000	75.00	225.00
2B1050	Envir Fees	1.00	3.00	LD	25.00	100.000	25.00	75.00
2B1052	Min Load	1.00	2.00	LD	250.00	100.000	250.00	500.00

Activity: 10.03 Form Matl. Quantity: 480.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.67
Total	0.00	0.00	0.00	0.00	321.30	0.00	0.00	0.00	0.00	0.00	321.30

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BF301	Box Culvert Footing Form	1.00	60.00	FT2	0.63	106.250	0.67	40.16
2BF303	Box Culvert Wall Form	1.00	310.00	FT2	0.63	106.250	0.67	207.51
2BF305	Box Culvert Top Form	1.00	110.00	FT2	0.63	106.250	0.67	73.63

Activity: 10.04 Rebar Matl. Quantity: 4530.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.78
Total	0.00	0.00	0.00	0.00	3,516.98	0.00	0.00	0.00	0.00	0.00	~~3,516.98~~

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Constru $3,360.56

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B2005	Rebar Matl (black)	1.00	4,530.00	LB	0.6125 ~~0.65~~	~~106.250~~	~~0.69~~	~~3,128.53~~
2B2007	Rebar Accessories	1.00	4,530.00	LB	0.0250 ~~0.02~~	~~106.250~~	~~0.02~~	~~96.26~~
2BFENG	Form Mtls Engineering Fees	1.00	1.00	EA	275.00	106.250	292.19	292.19

Activity: 10.05 Unld / Handle Rebar Quantity: 4530.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.12	0.05	0.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Total	~~542.25~~	~~227.74~~	~~769.99~~	447.90	0.00	0.00	0.00	0.00	0.00	0.00	~~1,217.89~~

758.23 1206.13

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Unit
0.2688	0.0010	1,000.0000	268.8499	0.4530	10,000.0000	0.0001	2,688.4989

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
22.6500	200.0000	0.0050	33.9951	0.1197

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA5220 CONC;REBAR,UNLD/HNDL Prod: UH 1000 Eff: 100.00 Crew Hrs: 4.53 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
819143	(R) CRANE, RT 21-40 TON	1.00	4.53	HR	98.88	100.000	98.87	447.90
L10271	OPERATOR CRANE BRIDGE	1.00	4.53	MH	36.30	110.000	56.70	256.85
L10411	LABORER-COMMON BRIDGE	4.00	18.12	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 501.38 ~~513.14~~

Activity: 10.07 USF 9151 Frame & Grate Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D2FG	USF 9151 Frame & Grate	1.00	1.00	EA	4,672.13	106.250	4,964.14	4,964.14

Activity: 10.08 Bedding Stone Quantity: 15.00 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	31.88	4.95	0.00	0.00	0.00	0.00	36.83
Total	0.00	0.00	0.00	0.00	478.13	74.25	0.00	0.00	0.00	0.00	~~552.38~~

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construc $539.48

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG055	# 57 (1- #4)	1.00	15.00	TON	30.00	106.250	31.88	478.13
335110	Misc Aggregate Haul	1.00	15.00	TON	$4.09 ~~4.95~~	100.000	4.95	~~74.25~~

Activity: 20.01 Excv. for Junction Box Quantity: 75.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	11.94	5.02	16.96	11.90	0.00	0.00	0.00	0.00	0.00	0.00	28.86
Total	~~895.74~~	~~376.21~~	~~1,271.95~~	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
28.8633	0.0667	15.0000	432.9500	0.5000	150.0000	0.0067	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	2.5000	0.4000	42.3983	11.9432

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 15 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~ 357.35 ~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 196.10 ~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~ 170.60 ~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~ 147.80 ~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~ 370.80 ~~379.57~~

Activity: 20.02 Grade for Junction Box Quantity: 400.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	2.24	0.94	3.18	2.23	0.00	0.00	0.00	0.00	0.00	0.00	5.41
Total	~~895.74~~	~~376.21~~	1242.65 ~~1,271.95~~	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~ 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
5.4119	0.0125	80.0000	432.9500	0.5000	800.0000	0.0013	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	13.3333	0.0750	42.3983	2.2394

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 80 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	110.000	71.47	~~73.15~~	357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	110.000	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	110.000	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	110.000	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	110.000	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 20.03 Backfill Junction Box Quantity: 15.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	59.72	25.08	84.80	59.52	0.00	0.00	0.00	0.00	0.00	0.00	144.32
Total	~~895.74~~	~~376.21~~	~~1,271.95~~	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~

Crew $/Unit	Crew Hrs/Unit	1242.65 Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	2135.45 $/Shift
144.3167	0.3333	3.0000	432.9500	0.5000	30.0000	0.0333	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	0.5000	2.0000	42.3983	59.7160

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 3 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	110.000	71.47	~~73.15~~	357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	110.000	39.22	~~40.14~~	146.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	110.000	34.12	~~34.93~~	170.6	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	110.000	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	110.000	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 30.01 F/P/S Junction Box Quantity: 480.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	24.91	10.46	35.37	18.93	0.00	0.00	0.00	0.00	0.00	0.00	54.30
Total	~~11,955.90~~	~~5,021.48~~	~~16,977.38~~	9,085.80	0.00	0.00	0.00	0.00	0.00	0.00	26,063.18

Crew $/Unit	Crew Hrs/Unit	16587.60 Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	25673.40 $/Shift
54.2983	0.1250	8.0000	434.3863	6.0000	80.0000	0.0125	4,343.8633

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
420.0000	1.1429	0.8750	40.4223	24.9081

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3333 (Mod) CONC;BX CULV, 5 MAN W/CR Prod: UH 8 Eff: 100.00 Crew Hrs: 60.00 Labor Pcs: 7.00 Equipment Pcs: 6.00

Notes: Form; 2 shifts
Pour; 3 shift
Strip; 1 shift

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
814101T	GENERATOR SMALL	1.00	60.00	HR	1.00	100.000	1.00	60.00
814202T	(R) AIR COMPRESSOR 200 CFM	1.00	60.00	HR	6.50	100.000	6.50	390.00
816312	TRUCK PICKUP <3/4 TON	1.00	60.00	HR	12.17	100.000	12.17	730.20
816343	TRUCK, FLATBED, 1 TON	1.00	60.00	HR	13.89	100.000	13.89	833.40
823206	BACKHOE 390 - 39T	1.00	60.00	HR	108.76	100.000	108.76	6,525.60
839830	MISC. SMALL TOOLS	1.00	60.00	HR	9.11	100.000	9.11	546.60
L10170	FOREMAN	1.00	60.00	MH	~~46.83~~	~~110.000~~ 71.47	~~73.15~~ 4288.20	~~4,388.91~~
L10240	OPERATOR BACKHOE	1.00	60.00	MH	~~25.70~~	~~110.000~~ 39.22	~~40.14~~ 2353.20	~~2,408.60~~
L10410	LABORER-COMMON	2.00	120.00	MH	~~18.13~~	~~110.000~~ 27.67	~~28.32~~ 3320.40	~~3,398.29~~
L10430	CARPENTER	3.00	180.00	MH	~~24.12~~	~~110.000~~ 36.81	~~37.68~~ 6625.80	~~6,781.58~~

Activity: 30.02 Pump Concrete Quantity: 13.00 Unit: YD3

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BRT03	Conc Pumping	1.00	13.00	YD3	30.00	106.250	31.88	414.38

Activity: 30.03 Point & Patch Quantity: 480.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.40	0.59	1.99	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.32
Total	~~672.20~~	~~282.32~~	~~954.52~~ 932.62	157.78	0.00	0.00	0.00	0.00	0.00	0.00	1,112.30 1090.40

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
2.3173	0.0143	70.0004	162.2114	0.6857	700.0044	0.0014	1,622.1143

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
20.5800	23.3236	0.0429	46.3810	1.4004

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: UH 70 Eff: 100.00 Crew Hrs: 6.86 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	6.86	HR	13.89	100.000	13.89	95.29
839830	MISC. SMALL TOOLS	1.00	6.86	HR	9.11	100.000	9.11	62.49
L10190	FOREMAN	1.00	6.86	MH	~~46.83~~	~~110.000~~ 71.47	~~73.15~~ 490.28	~~501.80~~
L10410	LABORER-COMMON	1.00	6.86	MH	~~18.13~~	~~110.000~~ 27.67	~~28.32~~ 189.82	~~194.27~~
L10450	CONC. FINISHER	1.00	6.86	MH	~~24.12~~	~~110.000~~ 36.81	~~37.67~~ 252.52	~~258.45~~

Activity: 40.02 Install frame & grate Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	293.97	123.47	417.44	69.00	0.00	0.00	0.00	0.00	0.00	0.00	486.44
Total	~~293.97~~	~~123.47~~	~~417.44~~ 407.85	69.00	0.00	0.00	0.00	0.00	0.00	0.00	~~486.44~~ 476.85

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
486.4400	3.0000	0.3333	162.1467	0.3000	3.3333	0.3000	1,621.4667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.0000	0.1111	9.0000	46.3822	293.9700

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
839830	MISC. SMALL TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
L10173	FOREMAN	1.00	3.00	MH	~~46.83~~	~~110.000~~ 71.47	~~73.15~~ 214.41	~~219.45~~
L10410	LABORER-COMMON	1.00	3.00	MH	~~18.13~~	~~110.000~~ 27.32	~~28.32~~ 83.01	~~84.96~~
L10450	CONC. FINISHER	1.00	3.00	MH	~~24.12~~	~~110.000~~ 36.81	~~37.68~~ 110.43	~~113.03~~

Activity: 50.01 Install Rebar - SUB Quantity: 4530.00 Unit: LB

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
450300	Reinforcing Steel Install	1.00	4,530.00	LBS	0.75	100.000	0.75	~~3,413.81~~

$3,397.50

Activity: 60.1 DEWATERING, SUBCONTRACT Quantity: 1.00 Un

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
446201	Install Wellpoints, Storm	1.00	1.00	EA	2,750.00	100.000	2,750.00	2,750.00

Activity: 60.2 WELPT / SOCK, PUMP OPER. PIP Quantity: 2.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	438.75	184.28	623.02	770.00	0.00	0.00	0.00	0.00	0.00	0.00	1,393.02
Total	~~877.49~~	~~368.55~~	~~1,246.04~~	1,540.00	0.00	0.00	0.00	0.00	0.00	0.00	~~2,786.04~~

1217.48 2757.48

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1,393.0200	110.0000	0.0091	12.6638	22.0000	0.0909	11.0000	126.6382

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
44.0000	0.0455	22.0000	28.3191	438.7450

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1818 (Mod) PIPWRK;WELLP,OPER LONG TERM Prod: HU 110 Eff: 100.00 Crew Hrs: 220.00 Labor Pcs: 0.20 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821320	(R) PUMP, WELLPOINT, 8"	1.00	220.00	HR	7.00	100.000	7.00	1,540.00
L10410	LABORER-COMMON	0.20	44.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 1217.48 ~~1,246.04~~

Activity: 60.3 By Pass Pumping Quantity: 10.00 Unit: DY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	95.73	40.21	135.93	216.00	0.00	0.00	0.00	0.00	0.00	0.00	351.93
Total	~~957.26~~	~~402.05~~	~~1,359.31~~	2,160.00	0.00	0.00	0.00	0.00	0.00	0.00	~~3,519.31~~

1328.16 3488.16

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
351.9310	24.0000	0.0417	14.6638	24.0000	0.4167	2.4000	146.6379

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.0000	0.2083	4.8000	28.3190	95.7260

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1825 (Mod) PUMPING Prod: HU 24 Eff: 100.00 Crew Hrs: 240.00 Labor Pcs: 0.20 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821182	(R) PUMP HYDRAULIC 8"	1.00	240.00	HR	7.00	100.000	7.00	1,680.00
821200	(R) 8" DISCHARGE PIPE, 100'	1.00	240.00	HR	2.00	100.000	2.00	480.00
L10410	LABORER-COMMON	0.20	48.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 1328.16 ~~1,359.31~~

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Bulling No.2 JUNCTION BOXES, (AIRCRAFT RATED) (S-17)

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		JUNCTION BOXES, (AIRCRAFT RATED) (S-17)	1.00	EA	$59,787.93	650.05	~~$25,366.48~~ $24,783.05	$16,087.46	~~$12,411.33~~ $12,253.06	~~$5,922.66~~ $5,907.50	~~$59,787.93~~
											~~59,787.93~~
							$24,783.05		$12,253.06	$5,907.50	
		Subtotal				650.05	~~$25,366.48~~	$16,087.46	~~$12,411.33~~	~~$5,922.66~~	~~$59,787.93~~
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$3,043.98	$1,930.50	$1,489.36	$473.81	$6,937.65
		Subtotal									~~$66,725.58~~
		Bond									
		Total	1.00	EA	$66,725.58						~~$66,725.58~~

Submitted price is for entire structure construction.

Contractor has been paid for this structure under original Add Alt 3 pay item D-751-5.2 a sum of $36,618.88.

Negotiated Unit Price **$30,136.03**

$ 66,692.02
- $ 36,618.88
$ 30,073.14

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

S-17 _ D-751-5.2 (Manhole/Junction Box, Special (Aircraft Rated))

Notes:

C.I.P. MANHOLES/JUNCTION BOXES, SPECIAL (AIRCRAFT RATED) (STRUCTURE S-17)

CONCRETE TOTAL = 12 CY
REBAR TOTAL = 4,210 LBS

FORM TOTAL = 420 SF
Wall = 270 SF
Bottom = 60 SF
Top = 90 SF

Cast-in-Place Drainage Junction Boxes (Interior 5ft x 5ft), bottom slab 10'x10'x1.33', 4.9' Depth.

Biditem **MANHOLES/JNCTION BOXES SPECIAL AIRCRAFT RATED S-17**

100

Takeoff Qty: 1.000 EA
Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	17,863.72	7,502.76	25,366.48	16,087.46	12,337.08	74.25	5,922.66	0.00	0.00	0.00	59,787.93
Total	~~17,863.72~~	~~7,502.76~~	~~25,366.48~~	16,087.46	~~12,337.08~~	74.25	~~5,922.66~~	0.00	0.00	0.00	59,787.93

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
650.0500	0.0015	650.0500	91.9744	27.4805	39.0224	0.0018

Activity: 10.01 Concrete Matl, Class IV, 5500 Quantity: 12.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	245.17	0.00	0.00	0.00	0.00	0.00	245.17
Total	0.00	0.00	0.00	0.00	2,942.00	0.00	0.00	0.00	0.00	0.00	2,942.00

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B1030	Conc 5500 psi	1.00	12.00	YD3	168.00	106.250	178.50	2,142.00
2B1048	Fuel Surcharge	1.00	3.00	LD	75.00	100.000	75.00	225.00
2B1050	Envir Fees	1.00	3.00	LD	25.00	100.000	25.00	75.00
2B1052	Min Load	1.00	2.00	LD	250.00	100.000	250.00	500.00

Activity: 10.03 Form Matl. Quantity: 420.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.67
Total	0.00	0.00	0.00	0.00	281.13	0.00	0.00	0.00	0.00	0.00	281.13

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BF301	Box Culvert Footing Form	1.00	60.00	FT2	0.63	106.250	0.67	40.16
2BF303	Box Culvert Wall Form	1.00	270.00	FT2	0.63	106.250	0.67	180.73
2BF305	Box Culvert Top Form	1.00	90.00	FT2	0.63	106.250	0.67	60.24

Activity: 10.04 Rebar Matl. Quantity: 4210.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.78
Total	0.00	0.00	0.00	0.00	3,289.18	0.00	0.00	0.00	0.00	0.00	~~3,289.18~~

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Const $3,143.81

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B2005	Rebar Matl (black)	1.00	4,210.00	LB	0.06125 ~~0.65~~	~~106.250~~	~~0.69~~	~~2,907.53~~
2B2007	Rebar Accessories	1.00	4,210.00	LB	0.025 ~~0.02~~	~~106.250~~	~~0.02~~	~~89.46~~
2BFENG	Form Mtls Engineering Fees	1.00	1.00	EA	275.00	106.250	292.19	292.19

Activity: 10.05 Unld / Handle Rebar Quantity: 4210.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.12	0.05	0.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Total	~~503.95~~	~~211.65~~	~~715.60~~ 704.67	416.26	0.00	0.00	0.00	0.00	0.00	0.00	~~1,131.86~~ 1120.93

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Unit
0.2689	0.0010	1,000.0000	268.8504	0.4210	10,000.0000	0.0001	2,688.5036

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
21.0500	200.0000	0.0050	33.9952	0.1197

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA5220 CONC;REBAR,UNLD/HNDL Prod: UH 1000 Eff: 100.00 Crew Hrs: 4.21 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
819143	(R) CRANE, RT 21-40 TON	1.00	4.21	HR	98.88	100.000	98.87	416.26
L10271	OPERATOR CRANE BRIDGE	1.00	4.21	MH	36.30	110.000	55.40	56.70	238.71
L10411	LABORER-COMMON BRIDGE	4.00	16.84	MH	18.13	110.000	27.67	28.32	476.89

Activity: 10.07 USF 9151 Frame & Grate Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D2FG	USF 9151 Frame & Grate	1.00	1.00	EA	4,672.13	106.250	4,964.14	4,964.14

Activity: 10.08 Bedding Stone Quantity: 15.00 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	31.88	4.95	0.00	0.00	0.00	0.00	36.83
Total	0.00	0.00	0.00	0.00	478.13	74.25	0.00	0.00	0.00	0.00	552.38

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construc $539.48

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG055	# 57 (1- #4)	1.00	15.00	TON	30.00	106.250	31.88	478.13
335110	Misc Aggregate Haul	1.00	15.00	TON	$4.09	4.95	100.000	4.95	74.25

Activity: 20.01 Excv. for Junction Box Quantity: 75.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	11.94	5.02	16.96	11.90	0.00	0.00	0.00	0.00	0.00	0.00	28.86
Total	895.74	376.21	1,271.95	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75

1242.65 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
28.8633	0.0667	15.0000	432.9500	0.5000	150.0000	0.0067	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	2.5000	0.4000	42.3983	11.9432

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 15 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	46.83	110.000	71.47	73.15	357.35	365.75
L10240	OPERATOR BACKHOE	1.00	5.00	MH	25.70	110.000	39.22	40.14	196.10	200.72
L10320	OPERATOR LOADER	1.00	5.00	MH	22.36	110.000	34.12	34.93	170.60	174.63
L10400	LABORER-SKILLED	1.00	5.00	MH	19.37	110.000	29.56	30.26	147.80	151.28
L10460	PIPELAYERS	2.00	10.00	MH	24.30	110.000	37.96	37.96	370.80	379.57

Activity: 20.02 Grade for Junction Box Quantity: 400.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	2.24	0.94	3.18	2.23	0.00	0.00	0.00	0.00	0.00	0.00	5.41
Total	895.74	376.21	1,271.95	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75

1242.65 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
5.4119	0.0125	80.0000	432.9500	0.5000	800.0000	0.0013	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	13.3333	0.0750	42.3983	2.2394

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 80 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.10	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 20.03 Backfill Junction Box Quantity: 15.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	59.72	25.08	84.80	59.52	0.00	0.00	0.00	0.00	0.00	0.00	144.32
Total	~~895.74~~	~~376.21~~	~~1,271.95~~	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~
			1242.65								2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
144.3167	0.3333	3.0000	432.9500	0.5000	30.0000	0.0333	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	0.5000	2.0000	42.3983	59.7160

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 3 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~	370.80	~~379.57~~

Activity: 30.01 F/P/S Junction Box Quantity: 420.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	28.47	11.96	40.42	21.63	0.00	0.00	0.00	0.00	0.00	0.00	62.06
Total	~~11,955.90~~	~~5,021.48~~	~~16,977.38~~	9,085.80	0.00	0.00	0.00	0.00	0.00	0.00	26,063.18
			16587.60								25673.40

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
62.0552	0.1429	7.0000	434.3863	6.0000	70.0000	0.0143	4,343.8633

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
420.0000	1.0000	1.0000	40.4223	28.4664

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3333 (Mod) CONC;BX CULV, 5 MAN W/CR Prod: UH 7 Eff: 100.00 Crew Hrs: 60.00 Labor Pcs: 7.00 Equipment Pcs: 6.00

Notes: Form; 2 shifts
Pour; 3 shift
Strip; 1 shift

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
814101T	GENERATOR SMALL	1.00	60.00	HR	1.00	100.000	1.00	60.00
814202T	(R) AIR COMPRESSOR 200 CFM	1.00	60.00	HR	6.50	100.000	6.50	390.00
816312	TRUCK PICKUP <3/4 TON	1.00	60.00	HR	12.17	100.000	12.17	730.20
816343	TRUCK, FLATBED, 1 TON	1.00	60.00	HR	13.89	100.000	13.89	833.40
823206	BACKHOE 390 - 39T	1.00	60.00	HR	108.76	100.000	108.76	6,525.60
839830	MISC. SMALL TOOLS	1.00	60.00	HR	9.11	100.000	9.11	546.60
L10170	FOREMAN	1.00	60.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	4288.20	~~4,388.91~~
L10240	OPERATOR BACKHOE	1.00	60.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	2352.20	~~2,408.60~~
L10410	LABORER-COMMON	2.00	120.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	3320.40	~~3,398.29~~
L10430	CARPENTER	3.00	180.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	6625.80	~~6,781.58~~

Activity: 30.02 Pump Concrete Quantity: 12.00 Unit: YD3

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BRT03	Conc Pumping	1.00	12.00	YD3	30.00	106.250	31.88	382.50

Activity: 30.03 Point & Patch Quantity: 420.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.40	0.59	1.99	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.32
Total	~~587.93~~	~~246.93~~	~~834.86~~ 815.70	138.00	0.00	0.00	0.00	0.00	0.00	0.00	~~972.86~~ 953.70

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
2.3163	0.0143	70.0000	162.1433	0.6000	700.0000	0.0014	1,621.4333

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
18.0000	23.3333	0.0429	46.3811	1.3998

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: UH 70 Eff: 100.00 Crew Hrs: 6.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	6.00	HR	13.89	100.000	13.89	83.34
839830	MISC. SMALL TOOLS	1.00	6.00	HR	9.11	100.000	9.11	54.66
L10190	FOREMAN	1.00	6.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	428.82	~~438.89~~
L10410	LABORER-COMMON	1.00	6.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	166.02	~~169.92~~
L10450	CONC. FINISHER	1.00	6.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	220.86	~~226.05~~

Activity: 40.02 Install frame & grate Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	293.97	123.47	417.44	69.00	0.00	0.00	0.00	0.00	0.00	0.00	486.44
Total	~~293.97~~	~~123.47~~	~~417.44~~ 407.85	69.00	0.00	0.00	0.00	0.00	0.00	0.00	486.44 476.85

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
486.4400	3.0000	0.3333	162.1467	0.3000	3.3333	0.3000	1,621.4667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.0000	0.1111	9.0000	46.3822	293.9700

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
839830	MISC. SMALL TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
L10173	FOREMAN	1.00	3.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	214.41	~~219.45~~
L10410	LABORER-COMMON	1.00	3.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	83.01	~~84.96~~
L10450	CONC. FINISHER	1.00	3.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	110.43	~~113.03~~

Activity: 50.01 Install Rebar - SUB Quantity: 4210.00 Unit: LB

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
450300	Reinforcing Steel Install	1.00	4,210.00	LBS	0.75	100.000	0.75	~~3,172.66~~

$3,157.50

Activity: 60.1 DEWATERING, SUBCONTRACT Quantity: 1.00 Un

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
446201	Install Wellpoints, Storm	1.00	1.00	EA	2,750.00	100.000	2,750.00	2,750.00

Activity: 60.2 WELPT / SOCK, PUMP OPER. PIP Quantity: 2.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	438.75	184.28	623.02	770.00	0.00	0.00	0.00	0.00	0.00	0.00	1,393.02
Total	~~877.49~~	~~368.55~~	~~1,246.04~~	1,540.00	0.00	0.00	0.00	0.00	0.00	0.00	2,786.04

1217.48

2757.48

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1,393.0200	110.0000	0.0091	12.6638	22.0000	0.0909	11.0000	126.6382

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
44.0000	0.0455	22.0000	28.3191	438.7450

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1818 (Mod) PIPWRK;WELLP,OPER LONG TERM Prod: HU 110 Eff: 100.00 Crew Hrs: 220.00 Labor Pcs: 0.20 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821320	(R) PUMP, WELLPOINT, 8"	1.00	220.00	HR	7.00	100.000	7.00	1,540.00
L10410	LABORER-COMMON	0.20	44.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 1217.48 ~~1,246.04~~

Activity: 60.3 By Pass Pumping Quantity: 10.00 Unit: DY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	95.73	40.21	135.93	216.00	0.00	0.00	0.00	0.00	0.00	0.00	351.93
Total	~~957.26~~	~~402.05~~	~~1,359.31~~	2,160.00	0.00	0.00	0.00	0.00	0.00	0.00	~~3,519.31~~

1328.16

3488.16

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
351.9310	24.0000	0.0417	14.6638	24.0000	0.4167	2.4000	146.6379

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.0000	0.2083	4.8000	28.3190	95.7260

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1825 (Mod) PUMPING Prod: HU 24 Eff: 100.00 Crew Hrs: 240.00 Labor Pcs: 0.20 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821182	(R) PUMP HYDRAULIC 8"	1.00	240.00	HR	7.00	100.000	7.00	1,680.00
821200	(R) 8" DISCHARGE PIPE, 100'	1.00	240.00	HR	2.00	100.000	2.00	480.00
L10410	LABORER-COMMON	0.20	48.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 1328.16 ~~1,359.31~~

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Bulling No.1 MITERED END SECTION, OPTIONAL - ELLIPTICAL/ARCH, 18" CD

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
	430-982-625	MITERED END SECTION, OPTIONAL - ELLIPTICAL/ARCH, 18" CD	1.00	EA	$4,178.42	33.00	~~$1,299.28~~ **$1,279.16**	$650.68	$2,228.46	$0.00	~~$4,178.42~~
											~~4,178.42~~
		Subtotal				33.00	~~$1,299.28~~	$650.68	$2,228.46	$0.00	~~$4,178.42~~
		Markup Percent					15%	15%	15%	10%	
		Markup Total					$194.89	$97.60	$334.27	$0.00	$626.76
		Subtotal									~~$4,805.18~~
		Bond									
		Total	1.00	EA	$4,805.18						~~$4,805.18~~

$4,743.67

Negotiated Unit Price **$4,649.95**

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

Biditem

100

MITERED END (OPTIONAL OTHER) (18" SD)

Takeoff Qty: 1.000 EA

Bid Qty: 1.000 EA

Client #: 0430984625

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	914.99	384.29	1,299.28	650.68	2,228.46	0.00	0.00	0.00	0.00	0.00	4,178.42
Total	914.99	384.29	1,299.28	650.68	2,228.46	0.00	0.00	0.00	0.00	0.00	4,178.42

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
33.0000	0.0303	33.0000	126.6188	27.7270	39.3721	0.1250

Activity: 34502.1 14" X 23" MES Supplied Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	1,718.75	0.00	0.00	0.00	0.00	0.00	1,718.75
Total	0.00	0.00	0.00	0.00	1,718.75	0.00	0.00	0.00	0.00	0.00	1,718.75

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D10-MES.18	Misc-18" MES	1.00	1.00	EA	125.00	100.000	125.00	125.00
2D8ME.1423	14x23"RCP,MES	1.00	1.00	EA	1,500.00	106.250	1,593.75	1,593.75

Activity: 34502.2 14x23" MES Grate Supplied (Unreviewed) Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2D8MG.1423	14x23"RCP,MES Grate	1.00	1.00	EA	350.00	106.250	371.88	371.88

Activity: 34502.3 14x23" MES Misc Material (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	137.83	0.00	0.00	0.00	0.00	0.00	137.83
Total	0.00	0.00	0.00	0.00	137.83	0.00	0.00	0.00	0.00	0.00	137.83

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B1010	Conc 3000 psi	1.00	0.36	CY	152.00	106.250	161.50	58.14
2BF	FORM MATERIALS	1.00	1.00	EA	75.00	106.250	79.69	79.69

Activity: 34510 Set 14X23" MES (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	495.29	208.02	703.31	535.68	0.00	0.00	0.00	0.00	0.00	0.00	1,238.99
Total	495.29	208.02	703.31	535.68	0.00	0.00	0.00	0.00	0.00	0.00	1,238.99

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1,238.9900	3.0000	0.3333	412.9967	0.3000	3.3333	0.3000	4,129.9667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
18.0000	0.0556	18.0000	39.0728	495.2900

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
822505	LOADER 2-1/2CY CAT	1.00	3.00	HR	32.05	100.000	32.05	96.15
823204	BACKHOE 330 - 33T	1.00	3.00	HR	108.76	100.000	108.76	326.28
824413T	COMPACTOR PLATE	1.00	3.00	HR	6.75	100.000	6.75	20.25
839820	MISC. PIPE TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
884396	(R) TRENCH BOX 20*8'	1.00	3.00	HR	8.00	100.000	8.00	24.00
L10173	FOREMAN PIPE	1.00	3.00	MH	46.83	80.000	53.20	159.59
L10240	OPERATOR BACKHOE	1.00	3.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	117.66	~~120.43~~
L10320	OPERATOR LOADER	1.00	3.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~	102.36	~~104.78~~
L10400	LABORER-SKILLED	1.00	3.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~	88.68	~~90.77~~
L10460	PIPELAYERS	2.00	6.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~	222.48	~~227.74~~

Activity: 34550.1 14x23" Form & Pour Apron (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	251.82	105.76	357.58	69.00	0.00	0.00	0.00	0.00	0.00	0.00	426.58
Total	~~251.82~~	~~105.76~~	~~357.58~~	69.00	0.00	0.00	0.00	0.00	0.00	0.00	426.58

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
426.5800	3.0000	0.3333	142.1933	0.3000	3.3333	0.3000	1,421.9333

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.0000	0.1111	9.0000	39.7311	251.8200

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
839830	MISC. SMALL TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
L10173	FOREMAN PIPE	1.00	3.00	MH	46.83	80.000	53.20	159.59

L10410	LABORER-COMMON	1.00	3.00	MH	18.13	110.000	27.32	28.32	83.01	84.96
L10450	CONC. FINISHER	1.00	3.00	MH	24.12	110.000	36.81	37.68	110.43	113.03

Activity: 34590 14x23" Install Grate (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	167.88	70.51	238.39	46.00	0.00	0.00	0.00	0.00	0.00	0.00	284.39
Total	167.88	70.51	238.39	46.00	0.00	0.00	0.00	0.00	0.00	0.00	284.39

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
284.3900	2.0000	0.5000	142.1950	0.2000	5.0000	0.2000	1,421.9500

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.0000	0.1667	6.0000	39.7317	167.8800

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 2 Eff: 100.00 Crew Hrs: 2.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	2.00	HR	13.89	100.000	13.89	27.78
839830	MISC. SMALL TOOLS	1.00	2.00	HR	9.11	100.000	9.11	18.22
L10173	FOREMAN PIPE	1.00	2.00	MH	46.83	80.000	53.20	106.40
L10410	LABORER-COMMON	1.00	2.00	MH	18.13	110.000	27.67	28.32	55.34	56.64
L10450	CONC. FINISHER	1.00	2.00	MH	24.12	110.000	36.81	37.68	73.62	75.35

BP-497 TAXIWAYS G & H REHABILITATION - PHASE 1

BASE BID & ALTERNATES

Bulling No.1 JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-23)

Biditem	Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
		JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-23)	1.00	EA	$85,052.36	850.98	~~$33,223.04~~	$20,386.58	~~$19,981.12~~	~~$11,461.62~~	~~$85,052.36~~
							32,475.21				
											~~85,052.36~~
		Subtotal				850.98	~~$33,223.04~~	$20,386.58	~~$19,981.12~~	~~$11,461.62~~	~~$85,052.36~~
		Markup Percent					12%	12%	12%	8%	
		Markup Total					$3,986.76	$2,446.39	$2,397.73	$916.93	$9,747.82
		Subtotal									~~$94,800.18~~
		Bond									
		Total	1.00	EA	$94,800.18						~~$94,800.18~~

$93,447.45

Negotiated Unit Price **$93,520.89**

Labor rates for this item have been adjusted to reflect the approved rates in the list below. The cost for the item is being adjusted here with the consent of the Contractor. A complete breakdown of the costs with the corrected labor rates will be submitted for the record.

S-23 _ D-751-5.2 (Inlet Box, Special Large (Aircraft Rated))

Client	Description	Quantity	Units	Total Bid Unit Price	Manhours	Labor	Equipment	Materials	Sub	Total Cost
	JUNCTION BOXES, (AIRCRAFT RATED) (C.I.P. S-23)	1.00	EA	$85,052.36	850.98	$33,223.04	$20,386.58	$19,981.12	$11,461.62	$85,052.36
										85,052.36
	Subtotal				850.98	$33,223.04	$20,386.58	$19,981.12	$11,461.62	$85,052.36
	Markup Percent					12%	12%	12%	8%	
	Markup Total					$3,986.76	$2,446.39	$2,397.73	$916.93	$9,747.82
	Subtotal									$94,800.18
	Bond									
	Total	1.00	EA	$94,800.18						$94,800.18

Notes: C.I.P. MANHOLES/JUNCTION BOXES, SPECIAL (AIRCRAFT RATED) (STRUCTURE S-23)ESI No. 8

CONCRETE TOTAL = 28 CY
REBAR TOTAL = 11,560 LBS

FORM TOTAL = 760 SF
Wall = 530 SF
Bottom = 90 SF
Top = 140 SF

Cast-in-Place Drainage Junction Boxes (Interior 16ft x 4ft), bottom slab 21'x9'x1.33', 5.4' Depth.

Biditem **MANHOLES/JNCTION BOXES SPECIAL AIRCRAFT RATED S-23**

110

Takeoff Qty: 1.000 EA
Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	23,396.50	9,826.54	33,223.04	20,386.58	19,862.32	118.80	11,461.62	0.00	0.00	0.00	85,052.36
Total	~~23,396.50~~	~~9,826.54~~	~~33,223.04~~	20,386.58	~~19,862.32~~	~~118.80~~	~~11,461.62~~	0.00	0.00	0.00	~~85,052.36~~

Manhours	Unit/MH	MH/Unit	$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
850.9800	0.0012	850.9800	99.9464	27.4936	39.0409	0.0016

Activity: 10.01 Concrete Matl, Class IV, 5500 Quantity: 28.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	207.07	0.00	0.00	0.00	0.00	0.00	207.07
Total	0.00	0.00	0.00	0.00	5,798.00	0.00	0.00	0.00	0.00	0.00	5,798.00

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B1030	Conc 5500 psi	1.00	28.00	YD3	168.00	106.250	178.50	4,998.00
2B1048	Fuel Surcharge	1.00	3.00	LD	75.00	100.000	75.00	225.00
2B1050	Envir Fees	1.00	3.00	LD	25.00	100.000	25.00	75.00
2B1052	Min Load	1.00	2.00	LD	250.00	100.000	250.00	500.00

Activity: 10.03 Form Matl. Quantity: 760.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00	1.05
Total	0.00	0.00	0.00	0.00	800.91	0.00	0.00	0.00	0.00	0.00	800.91

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BF301	Box Culvert Footing Form	1.00	90.00	FT2	0.63	106.250	0.67	60.24
2BF303	Box Culvert Wall Form	1.00	530.00	FT2	0.63	106.250	0.67	354.77
2BF305	Box Culvert Top Form	1.00	140.00	FT2	0.63	106.250	0.67	93.71
2BFENG	Form Mtls Engineering Fees	1.00	1.00	EA	275.00	106.250	292.19	292.19

Activity: 10.04 Rebar Matl. Quantity: 11560.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.71
Total	0.00	0.00	0.00	0.00	8,229.28	0.00	0.00	0.00	0.00	0.00	~~8,229.28~~ 7830.09

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B2005	Rebar Matl (black)	1.00	11,560.00	LB	0.06125 ~~0.65~~	~~106.250~~	~~0.69~~ 7523.03	~~7,983.63~~
2B2007	Rebar Accessories	1.00	11,560.00	LB	0.0250 ~~0.02~~	~~106.250~~	~~0.02~~ 307.06	~~245.65~~

Activity: 10.05 Unld / Handle Rebar Quantity: 11560.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.12	0.05	0.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Total	1,383.75	581.18	~~1,964.93~~ 1934.92	1,143.00	0.00	0.00	0.00	0.00	0.00	0.00	~~3,107.93~~ 3077.92

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
0.2689	0.0010	1,000.0000	268.8521	1.1560	10,000.0000	0.0001	2,688.5208

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
57.8000	200.0000	0.0050	33.9953	0.1197

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA5220 CONC;REBAR,UNLD/HNDL Prod: UH 1000 Eff: 100.00 Crew Hrs: 11.56 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
819143	(R) CRANE, RT 21-40 TON	1.00	11.56	HR	98.88	100.000	98.88	1,143.00
L10271	OPERATOR CRANE BRIDGE	1.00	11.56	MH	36.30	110.000	56.70	655.46
L10411	LABORER-COMMON BRIDGE	4.00	46.24	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 1279.46 ~~1,309.47~~

Activity: 10.07 Neenah Frame & Grate Quantity: 1.00 Unit: EA

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2DR3492	Neenah R-3492-1	1.00	1.00	EA	3,178.00	106.250	3,376.63	3,376.63

Activity: 10.08 Bedding Stone Quantity: 24.00 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	0.00	0.00	0.00	0.00	31.88	4.95	0.00	0.00	0.00	0.00	36.83
Total	0.00	0.00	0.00	0.00	765.00	118.80	0.00	0.00	0.00	0.00	~~883.80~~

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construc $863.16

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG055	# 57 (1- #4)	1.00	24.00	TON	30.00	106.250	31.88	765.00
335110	Misc Aggregate Haul	1.00	24.00	TON	$4.09 ~~4.95~~	100.000	4.95	118.80

Activity: 20.01 Excv. for Junction Box Quantity: 75.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	11.94	5.02	16.96	11.90	0.00	0.00	0.00	0.00	0.00	0.00	28.86
Total	~~895.74~~	~~376.21~~	~~1,271.95~~ 1242.65	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~ 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
28.8633	0.0667	15.0000	432.9500	0.5000	150.0000	0.0067	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	2.5000	0.4000	42.3983	11.9432

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 15 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~ 357.35 ~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 196.10 ~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~ 170.60 ~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~ 147.80 ~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~ 370.80 ~~379.57~~

Activity: 20.02 Grade for Junction Box Quantity: 300.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	2.99	1.25	4.24	2.98	0.00	0.00	0.00	0.00	0.00	0.00	7.22
Total	~~895.74~~	~~376.21~~	~~1,271.95~~ 1242.65	892.80	0.00	0.00	0.00	0.00	0.00	0.00	2,164.75 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
7.2158	0.0167	60.0000	432.9500	0.5000	600.0000	0.0017	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	10.0000	0.1000	42.3983	2.9858

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 60 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~ 357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~ 170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~ 147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~ 370.80	~~379.57~~

Activity: 20.03 Backfill Junction Box Quantity: 15.00 Unit: YD3

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	59.72	25.08	84.80	59.52	0.00	0.00	0.00	0.00	0.00	0.00	144.32
Total	~~895.74~~	~~376.21~~	~~1,271.95~~ 1242.65	892.80	0.00	0.00	0.00	0.00	0.00	0.00	~~2,164.75~~ 2135.45

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
144.3167	0.3333	3.0000	432.9500	0.5000	30.0000	0.0333	4,329.5000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.0000	0.5000	2.0000	42.3983	59.7160

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3423 PIPWRK;W/33-T BCKHOE Prod: UH 3 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	5.00	HR	13.89	100.000	13.89	69.45
822505	LOADER 2-1/2CY CAT	1.00	5.00	HR	32.05	100.000	32.05	160.25
823204	BACKHOE 330 - 33T	1.00	5.00	HR	108.76	100.000	108.76	543.80
824413T	COMPACTOR PLATE	1.00	5.00	HR	6.75	100.000	6.75	33.75
839820	MISC. PIPE TOOLS	1.00	5.00	HR	9.11	100.000	9.11	45.55
884396	(R) TRENCH BOX 20*8'	1.00	5.00	HR	8.00	100.000	8.00	40.00
L10173	FOREMAN	1.00	5.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~ 357.35	~~365.75~~
L10240	OPERATOR BACKHOE	1.00	5.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~ 196.10	~~200.72~~
L10320	OPERATOR LOADER	1.00	5.00	MH	~~22.36~~	~~110.000~~	34.12	~~34.93~~ 170.60	~~174.63~~
L10400	LABORER-SKILLED	1.00	5.00	MH	~~19.37~~	~~110.000~~	29.56	~~30.26~~ 147.80	~~151.28~~
L10460	PIPELAYERS	2.00	10.00	MH	~~24.30~~	~~110.000~~	37.96	~~37.96~~ 370.80	~~379.57~~

Activity: 30.01 F/P/S Junction Box Quantity: 760.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	20.98	8.81	29.78	15.94	0.00	0.00	0.00	0.00	0.00	0.00	45.72
Total	~~15,941.20~~	~~6,695.31~~	~~22,636.51~~ 22116.80	12,114.40	0.00	0.00	0.00	0.00	0.00	0.00	34,750.91 ~~34231.20~~

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
45.7249	0.1053	9.5000	434.3864	8.0000	95.0000	0.0105	4,343.8638

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
560.0000	1.3571	0.7368	40.4223	20.9753

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3333 (Mod) CONC;BX CULV, 5 MAN W/CR Prod: UH 9.5 Eff: 100.00 Crew Hrs: 80.00 Labor Pcs: 7.00 Equipment Pcs: 6.00

Notes: Form; 4 shifts
Pour; 3 shift
Strip; 1 shift

.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
814101T	GENERATOR SMALL	1.00	80.00	HR	1.00	100.000	1.00	80.00
814202T	(R) AIR COMPRESSOR 200 CFM	1.00	80.00	HR	6.50	100.000	6.50	520.00
816312	TRUCK PICKUP <3/4 TON	1.00	80.00	HR	12.17	100.000	12.17	973.60
816343	TRUCK, FLATBED, 1 TON	1.00	80.00	HR	13.89	100.000	13.89	1,111.20
823206	BACKHOE 390 - 39T	1.00	80.00	HR	108.76	100.000	108.76	8,700.80
839830	MISC. SMALL TOOLS	1.00	80.00	HR	9.11	100.000	9.11	728.80
L10170	FOREMAN	1.00	80.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	5717.60	~~5,851.88~~
L10240	OPERATOR BACKHOE	1.00	80.00	MH	~~25.70~~	~~110.000~~	39.22	~~40.14~~	3137.60	~~3,211.47~~
L10410	LABORER-COMMON	2.00	160.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	4427.20	~~4,531.05~~
L10430	CARPENTER	3.00	240.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	8834.40	~~9,042.11~~

Activity: 30.02 Pump Concrete Quantity: 28.00 Unit: YD3

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BRT03	Conc Pumping	1.00	28.00	YD3	30.00	106.250	31.88	892.50

Activity: 30.03 Point & Patch Quantity: 760.00 Unit: FT2

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	1.40	0.59	1.99	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.32
Total	~~1,064.15~~	~~446.94~~	~~1,511.09~~	249.78	0.00	0.00	0.00	0.00	0.00	0.00	~~1,760.87~~
			1476.42								1726.20

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
2.3169	0.0143	70.0003	162.1860	1.0857	700.0028	0.0014	1,621.8603

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
32.5800	23.3272	0.0429	46.3809	1.4002

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: UH 70 Eff: 100.00 Crew Hrs: 10.86 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	10.86	HR	13.89	100.000	13.89	150.85
839830	MISC. SMALL TOOLS	1.00	10.86	HR	9.11	100.000	9.11	98.93
L10190	FOREMAN	1.00	10.86	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	776.16	~~794.39~~
L10410	LABORER-COMMON	1.00	10.86	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	300.50	~~307.54~~
L10450	CONC. FINISHER	1.00	10.86	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	399.76	~~409.16~~

Activity: 40.02 Install frame & grate Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	293.97	123.47	417.44	69.00	0.00	0.00	0.00	0.00	0.00	0.00	486.44
Total	~~293.97~~	~~123.47~~	~~417.44~~	69.00	0.00	0.00	0.00	0.00	0.00	0.00	~~486.44~~
			407.85								476.85

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
486.4400	3.0000	0.3333	162.1467	0.3000	3.3333	0.3000	1,621.4667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.0000	0.1111	9.0000	46.3822	293.9700

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA3185 PIPWRK; TRIM & FINISH Prod: HU 3 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
816343	TRUCK, FLATBED, 1 TON	1.00	3.00	HR	13.89	100.000	13.89	41.67
839830	MISC. SMALL TOOLS	1.00	3.00	HR	9.11	100.000	9.11	27.33
L10173	FOREMAN	1.00	3.00	MH	~~46.83~~	~~110.000~~	71.47	~~73.15~~	214.41	~~219.45~~
L10410	LABORER-COMMON	1.00	3.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~	83.01	~~84.96~~
L10450	CONC. FINISHER	1.00	3.00	MH	~~24.12~~	~~110.000~~	36.81	~~37.68~~	110.43	~~113.03~~

Activity: 50.01 Install Rebar - SUB Quantity: 11560.00 Unit: LB

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
450300	Reinforcing Steel Install	1.00	11,560.00	LBS	0.75	100.000	0.75	~~8,711.62~~

$8,670.00

Activity: 60.1 DEWATERING, SUBCONTRACT Quantity: 1.00 Uni

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
446201	Install Wellpoints, Storm	1.00	1.00	EA	2,750.00	100.000	2,750.00	2,750.00

Activity: 60.2 WELPT / SOCK, PUMP OPER. PIP Quantity: 2.00 Unit: WK

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	438.75	184.28	623.02	770.00	0.00	0.00	0.00	0.00	0.00	0.00	1,393.02
Total	~~877.49~~	~~368.55~~	~~1,246.04~~	1,540.00	0.00	0.00	0.00	0.00	0.00	0.00	2,786.04

1217.48 2757.48

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
1,393.0200	110.0000	0.0091	12.6638	22.0000	0.0909	11.0000	126.6382

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
44.0000	0.0455	22.0000	28.3191	438.7450

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1818 (Mod) PIPWRK;WELLP,OPER LONG TERM Prod: HU 110 Eff: 100.00 Crew Hrs: 220.00 Labor Pcs: 0.20 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821320	(R) PUMP, WELLPOINT, 8"	1.00	220.00	HR	7.00	100.000	7.00	1,540.00
L10410	LABORER-COMMON	0.20	44.00	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 1217.48 ~~1,246.04~~

Activity: 60.3 By Pass Pumping Quantity: 12.00 Unit: DY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
U. Cost	95.73	40.21	135.93	216.00	0.00	0.00	0.00	0.00	0.00	0.00	351.93
Total	~~1,148.72~~	~~482.46~~	~~1,631.18~~	2,592.00	0.00	0.00	0.00	0.00	0.00	0.00	4,223.18

1593.79 4185.79

Crew $/Unit	Crew Hrs/Unit	Units/Crew Hr	$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	$/Shift
351.9317	24.0000	0.0417	14.6638	28.8000	0.4167	2.4000	146.6382

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
57.6000	0.2083	4.8000	28.3191	95.7267

Calendar: 50 HCC Labor 50 hr/wk Hrs/Shift: 10 WC: 5507 Street/Road Construction

Crew: AA1825 (Mod) PUMPING Prod: HU 24 Eff: 100.00 Crew Hrs: 288.00 Labor Pcs: 0.20 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
821182	(R) PUMP HYDRAULIC 8"	1.00	288.00	HR	7.00	100.000	7.00	2,016.00
821200	(R) 8" DISCHARGE PIPE, 100'	1.00	288.00	HR	2.00	100.000	2.00	576.00
L10410	LABORER-COMMON	0.20	57.60	MH	~~18.13~~	~~110.000~~	27.67	~~28.32~~ 1593.79 ~~1,631.18~~

Report Summary

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Asphalt	DOT Allow	Contingenc	Total
Total	179,021	75,189	254,209	157,171	152,901	703	78,993	0	0	0	643,978

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

INFORMATION ITEM
Original CCM
09/03/24
Item No. III-B
Revised Memo & Backup

CHANGE ORDER AGENDA
FOR CONSTRUCTION COMMITTEE

CHANGE ORDER NO. 49	**AMOUNT $41,689.00**	**Extension Of Time (Subst.):**	**0 Days**
		Extension Of Time (Final):	**0 Days**
CONTRACT NO. & DESCRIPTION:	BP- S00195 - SOUTH TERMINAL C, PHASE 1X - Airside Concourse	DATE:	09/03/24
CONTRACTOR:	Hensel Phelps Construction Company		
A/E:	HNTB Corporation		

DESCRIPTION OF CHANGE TO CONTRACT:

1. **Item: RFI 0319 Existing Pile Cap and Column Schedule Discrepancy at Grid lines D4 & D8/Y13.1 COR 0059 (R1)**

   FCO No. 11

   Provide all labor, material, and equipment necessary to furnish and install a 1'-6" column extension by splicing two steel support columns that will provide connection to the low footings and utilizing the existing anchor bolts in accordance with RFI 0319 response. This item replaces Field Change Order (FCO) No. 11

   Add $ 14,308.00

2. **Item: RFI 0571 Low Voltage Backbone and Glycol Tie-In Clash at Phase 1 COR 0100 (R1)**

   FCO No. 19

   Provide all labor, material, and equipment necessary to furnish and install additional conduits, junction boxes, and relocate the existing systems to tie-in the low-voltage backbone for Phase 1X to the existing Phase 1 system. In accordance with RFI 0571 response. This item replaces Field Change Order (FCO) No. 19.

   Add $27,381.00

   Total ADD $41,689.00

(The language above will be exactly what will appear on the actual Change Order under "Description of Change".)

CC
ITEM V-C
9/10/2024

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REASON FOR CHANGE:

1. **Item: Unforeseen Condition:** The structural column schedule (S6.07.01) specifies installation from a pile cap elevation of 88'-6", but the owner-provided columns are too short for this. In Phase 1 Airside, pile caps at gridline Y13 were at 87'-0", and columns at D4 & D8/Y12.9 were at 89'-0". For columns at D4 & D8/Y13.1 under the BP-S00195 contract, anchor bolts were post-installed in Phase 1. RFI 0319 recommended cutting off the base plate and installing a 1'-6" column extension or built-up plate. This Change Order (COR) addresses FCO No. 011..

2. **Item: Unforeseen Condition:** The contract documents indicate the intended routing of the low voltage communications backbone conduit on the Ramp Level's Area 34 reflected ceiling plan. However, the previous phase's pathways were not left in the depicted location. The pathways are currently left in an area where extending them into the Phase 1X system will create a conflict with the glycol lines, existing cameras, and speaker conduits. RFI 0571mconfirmed that additional coordination, installation of a junction box, and rerouting of intended pathways are required to provide a complete, functioning low-voltage system. This Change Order (COR) addresses FCO No. 019.

SOURCE OF FUNDS: General Airport Revenue Bonds (GARB's), Passenger Facility Charges (PFC's)

Is above change within the intended scope of the original contract? Yes ☒ No ☐

EXPLAIN:

Previously Presented Bulletin(s):		(Copy Attached)
Previously Approved Field Change Order(s):		(Copy Attached)

Contractor's Original RCO Submission	$ **41,743.00**	
GOAA/OAR Estimate	$ 40,054.00	
(a) Change Contract Amount By		**$ 41,689.00**
(b) Amount of Associated Additional A/E Fees	(Not for Approval / For Info. Only)	$
(c) Amount of Associated Additional OAR Fees	(Not for Approval / For Info. Only)	$
(d) Total Cost Impact of this Change (d = a + b + c)		**$ 41,689.00**

Is there any potential back charge to the A/E? Yes ☐ No ☒	Omissions	$ **0.00**
	Errors	$

PREPARED BY: John Volpe PHONE: 407-825-7838

*NOTE: All Agenda Items are to be submitted to **GOAA's Construction-Engineering-Financial (CEF) Consultant** (i.e., Anser Advisory, LLC). The deadline for the agenda items is **no later than 3:00 p.m. on Tuesdays, two weeks** preceding the intended Construction Committee meeting.*

GOAA's CEF Consultant	Date Received:	Date Review Completed:	Initials of Reviewer:	Verification of Funding by CF
Anser Advisory	8/20/24	8/27/24	VM	Melvin Martinez

ANDERSON
& ASSOCIATES, P.A.
Advocating and Protecting Legacies

ATTORNEYS & COUNSELORS at LAW

INFORMATION ITEM
SUPPLEMENTAL
INFORMATION

August 23, 2024

MEMORANDUM

TO: Iranetta Dennis, Vice President, Small Business Development

FROM: Veronica Anderson, Esq. VA

RE: H 00370 Airside 3 Apron PCC Slab Rehabilitation DBE Good Faith Efforts, Pursuant to 49 CFR Part 26, Appendix A

Introduction

This project was originally opened for bids on July 31, 2024. Subsequently, the Authority rejected the bids, due to all bids being over the budget. Thereafter, the scope of work was reduced and sent out for bids again. On August 13, 2024, the bidders received notice of bid rejection and received a new bid date of August 20, 2024. The Middlesex Corporation ("MC") responded with a bid of $841,357 and DBE participation of $25,826 for 3.1% participation. The DBE goal established for the project was 7%.

MC included good faith effort documentation in their bid package, to explain their inability to meet the DBE goal. The purpose of this memorandum is to evaluate MC's good faith efforts (GFE) to utilize Disadvantaged Business Enterprises (DBEs) in compliance with 49 CFR Part 26, Appendix A.

Today, I communicated with MC'S Chief Estimator, Jim Carr, to review the documentation included in the bid package. Below is a summary of MC's GFE Documentation.

Solicitation Efforts

- **Outreach to DBEs:** MC has a project management system that sends out electronic bid notification and emails to subcontractors. This tool is also used to conduct outreach to DBE's. On this project, MC sent out project information and followed up with some calls.
- **Timing of Solicitations:** There was a short window for MC to re-submit their bid; therefore, the DBE's MC solicited were held to the same timeframe. When asked about the initial bid, Mr. Carr noted that they did not meet the DBE goal in the initial bid either.
- **Documentation:** In the re-bid documents, MC provided emails, bid tracking and outreach logs, showing their outreach efforts. The logs of subcontractors does not include DBE's in marking/stripping or maintenance of traffic. There are DBE firms, in these lines of business, listed in the UCP that were not listed on the MC lists and tracking logs.

CC
ITEM V-D
9/10/2024

Information Provided to DBEs

- **Project Information:** MC sent detailed project information to DBEs via "Building Connected," which is a project management and vendor database system that provides MC with the tools to conduct outreach to subcontractors, including DBE's. The system provides access to necessary plans, specifications, and requirements.
- **Negotiations:** Mr. Carr stated that there was not enough time to negotiate the scope of work between two of the subcontractors solicited: Brevard Concrete and Paving, Inc. and Gosalia Concrete Constructors, where MC may have been able to negotiate their scopes and obtained better DBE participation. MC did not follow up to negotiate the scope of work.

Assistance Provided to DBEs

Technical Assistance: There was no technical assistance offered. MC said there was no opportunity to break down contract work into smaller, more manageable tasks to facilitate DBE participation, due to the limited scope of work.

Comparison to Similar Projects

MC rejected a DBE (Gosalia Concrete Constructors, Inc.) and selected a DBE, who is not certified in the proper NAIC for construction, where the DBE participation could not be counted, and to MC's credit, was not offered for DBE participation. The second low bidder listed the DBE, for a higher amount and additional scope, that MC rejected. MC admitted had they taken more time, they may have been able to include Gosalia Concrete Constructors, Inc. to increase their DBE participation.

Conclusion

MC informed me that the project had a limited scope of work; the rebid date of August 13, 2024, left only 2 days to get quotes, because of the internal review that had to take place. Brevard Concrete Paving, Inc., a DBE, whose NAIC does not address construction services, required MC to accept their entire bid, and not remove a section for subcontract to another company, or Brevard Concrete Paving, Inc. would not honor the bid. MC, decided to go with Brevard Concrete Paving, Inc., which resulted in lower DBE participation.

Coincidentally, MC had the same time constraints to make a GFE to meet the DBE goal as did Kiewit Infrastructure South Co., the second lowest bidder. However, the second low bidder was able to meet the goal. It should be noted that following my conversation with Mr. Carr, he forwarded additional GFE documentation. However, this documentation was not analyzed, because MC did not include this documentation in their bid package, at the time of bid opening.

In conclusion, MC needed to demonstrate that that it took all necessary and reasonable steps to achieve a DBE goal and that by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful in meeting the goal. In my opinion, with additional effort, the apparent low bidder could have met the goal or come much closer to meeting the

goal. Additionally, there were other scopes of work that were not included in the MC directory for DBE outreach, such as maintenance of traffic, marking and stripping, etc. Considering the foregoing, I conclude that MC did not sufficiently document GFE.

From:	Debbie McKeown
To:	Tara Ciaglia
Subject:	Fwd: H-00370 Award to Kiewit
Date:	Thursday, September 5, 2024 12:32:24 PM
Attachments:	image003.png image004.png image005.png

Sent from Debbie McKeown's iPhone

Begin forwarded message:

> **From:** Danielle Plummer <danielle.plummer@goaa.org>
> **Date:** September 5, 2024 at 10:17:13 AM EDT
> **To:** Jennifer Seyfried <jennifer.seyfried@goaa.org>
> **Cc:** Amber Johnson <amber.johnson@goaa.org>, Iranetta Dennis <iranetta.dennis@goaa.org>, Edelis Molina <edelis.molina@goaa.org>, Debbie McKeown <dmckeown@goaa.org>, Tara Ciaglia <tara.ciaglia@goaa.org>
> **Subject: RE: H-00370 Award to Kiewit**
>
> As Iranetta has approved the use of the Anderson and Associates memo, ok to proceed.
>
> Thank you,
>
> GREATER ORLANDO AVIATION AUTHORITY
> *Innovation Connecting the World*
>
> **Danielle Plummer**
> *Manager, Contracts & Grants*
>
> danielle.plummer@goaa.org
> **P** 407-825-4082 **C** 407-375-2275
>
> **Orlando International Airport**
> *5855 Cargo Road*
> *Orlando, Florida 32827*
> Orlandoairports.net
>
> ---
>
> **From:** Edelis Molina <edelis.molina@goaa.org>
> **Sent:** Thursday, September 5, 2024 9:53 AM
> **To:** Jennifer Seyfried <jennifer.seyfried@goaa.org>; Debbie McKeown <dmckeown@goaa.org>; Tara Ciaglia <tara.ciaglia@goaa.org>; Danielle Plummer <danielle.plummer@goaa.org>
> **Cc:** Amber Johnson <amber.johnson@goaa.org>; Iranetta Dennis

<iranetta.dennis@goaa.org>
Subject: RE: H-00370 Award to Kiewit

Good morning Jennifer,

It has been determined (see the attached Outlook message) that the memo written by Anderson and Associates is acceptable. If our standard memo format, which specifies Kiewit's small business subcontractors, is required for the contract documents, I can provide one as an information item for the 09/10/24 CCM.

Please advise.

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

Edelis Molina
Manager, Small Business Programs
Small Business Department

edelis.molina@goaa.org
P 407-825-7135 **C** 407-630-0916

Orlando International Airport
One Jeff Fuqua Boulevard
Orlando, Florida 32827
orlandoairports.net

From: Jennifer Seyfried <jennifer.seyfried@goaa.org>
Sent: Thursday, September 5, 2024 9:37 AM
To: Edelis Molina <edelis.molina@goaa.org>; Debbie McKeown <dmckeown@goaa.org>; Tara Ciaglia <tara.ciaglia@goaa.org>; Danielle Plummer <danielle.plummer@goaa.org>
Subject: H-00370 Award to Kiewit

I'm putting the contract documents together, and I can't find an OSBD memo. It wasn't in the CC agenda or anywhere in the CC meeting files, at least not that I saw.

GREATER ORLANDO AVIATION AUTHORITY
Innovation Connecting the World

Jennifer Seyfried
Drawings and Contracts Coordinator

jennifer.seyfried@goaa.org
P 407-825-4001

Orlando International Airport
11312 Terminal C Service Rd
Orlando, Florida 32824
orlandoairports.net

From: Katherine (Kit) Chamberlain <katherine.chamberlain@goaa.org>
Sent: Tuesday, August 20, 2024 3:10 PM
To: Patrick Caiazzo <patrick.caiazzo@goaa.org>; Edelis Molina <edelis.molina@goaa.org>; Max Marble <max.marble@goaa.org>; Scott Shedek <scott.shedek@goaa.org>; Tuan Nguyen <TNguyen@goaa.org>; Robert Furr <robert.furr@goaa.org>; Debbie McKeown <dmckeown@goaa.org>; Tara Ciaglia <tara.ciaglia@goaa.org>; Tammy Dobbyn <tammy.dobbyn@goaa.org>; Winston Stapleton <winston.stapleton@goaa.org>; Jazmin Stevens <jazmin.stevens@goaa.org>; Jennifer Seyfried <jennifer.seyfried@goaa.org>; Karen Ryan <Karen.Ryan@nelsonmullins.com>; Benjamin Brown <benjamin.brown@goaa.org>; Isadore Carrie <isadore.carrie@goaa.org>; kern.grimshaw@aecom.com; Christina Taylor <christina.taylor@goaa.org>; Torie Brooks <torie.brooks@goaa.org>; Elecia Mitchell <elecia.mitchell@goaa.org>; Christina Richards <christina.richards@goaa.org>; Iranetta Dennis <iranetta.dennis@goaa.org>; Travaris McCurdy <travaris.mccurdy@goaa.org>; Destiny Beckles <destiny.beckles@goaa.org>; Danielle Plummer <danielle.plummer@goaa.org>; Katherine (Kit) Chamberlain <katherine.chamberlain@goaa.org>
Subject: H-00370 Bid Opening Documents

Re: H-00370 Airside 3 Apron PCC Slab Rehabilitation
Orlando International Airport

Attached please find the bid results, minutes, attendance and bid log sheets from today's bid opening.

For your convenience, the Bid Documents from today's meeting are available via the link below:

H370 Bid Opening #2 - Actual Bids

Please contact me, should you have any questions.

Thank you.

Regards,

<image003.png>

Kit Chamberlain
Project Controls Specialist

katherine.chamberlain@goaa.org
P 407-825-2431

Orlando International Airport
11312 Terminal C Service Road
Orlando, Florida 32824
Orlandoairports.net

From: Katherine (Kit) Chamberlain
Sent: Tuesday, August 20, 2024 2:46 PM
To: 'rcornelius@middlesexcom.com' <rcornelius@middlesexcom.com>; 'alan.martin@kiewit.com' <alan.martin@kiewit.com>; David Crane <david.crane@kiewit.com>
Subject: H-00370 Bid Opening Documents

Re: H-00370 Airside 3 Apron PCC Slab Rehabilitation
Orlando International Airport

Attached please find the bid results, minutes, attendance and bid log sheets from today's bid opening.

Thank you.

Regards,

<image003.png>

Kit Chamberlain
Project Controls Specialist

katherine.chamberlain@goaa.org
P 407-825-2431

Orlando International Airport
11312 Terminal C Service Road
Orlando, Florida 32824
Orlandoairports.net