

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1 OF 3 PAGES
2. AMENDMENT/MODIFICATION NO. 0003	3. EFFECTIVE DATE 7/31/03	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY U.S. Army Corps of Engineers Honolulu Engineer District Construction/A-E Contract Branch Building 200 Fort Shafter, Hawaii 96858-5440	CODE	7. ADMINISTERED BY (If other than Item 6) U.S. Army Corps of Engineers Honolulu Engineer District Schofield Resident Office Building 230 Fort Shafter, Hawaii 96858-5440	CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(<input checked="" type="checkbox"/>) 9A. AMENDMENT OF SOLICITATION NO. DACA83-03-R-0013	
		(<input checked="" type="checkbox"/>) 9B. DATED (SEE ITEM 11) 7/31/03	
		10A. MODIFICATION OF CONTRACTS/ORDER NO.	
		10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input checked="" type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
FY03 MCA/BUP PN 52068/69, Whole Barracks Renewal Brigade Complex, Phase 3A, Quad C, Schofield Barracks, Oahu, Hawaii

(See pages 2 and 3 of 3 pages)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	

AM-0003
 No. DACA83-03-R-0013
 Item 14 (Continued)

Standard Form 30
 Page 2 of 3 Pages

1. CHANGES TO SPECIFICATIONS. Attached hereto are new and revised pages and sections to the specifications. The revision mark "(Am-0003)" is shown on each new and revised page.

A. REVISIONS. The following information is revised in the solicitation. Changes are indicated in bold.

SF 1442
 Proposal Schedule: Items 3, 4, 5, Note 5, and Payment c, d, e
 Section 00900 Responses to Contractor Questions
 Section 01900, paragraph 1.13.2
 Statement of Work page SOW-6
 Chapter 6 paragraphs 6-5.6 and 6-5.8
 Attachment Table of Contents page 1

B. ADDITIONS. The following information is added to the solicitation:

Section 01572 pages 1 to 5
 Section 01670 pages 1 to 2

C. DELETIONS. The following information is deleted from the specifications:

Attachment 9

2. CHANGES TO DRAWINGS.

A. REVISED DRAWINGS (ISSUED). The following revised drawings replace like-numbered drawings and are issued herewith:

Whole Barracks Renewal Brigade Complex
 QUAD C (RFP Concept Design)

REV	<u>RING NO.</u>	<u>DRAWING NO.</u>	<u>SHEET NO.</u>	<u>LTR</u>	<u>REVISION DATE</u>
	1	721-11-28	T-1	b	7/24/03
	4	721-11-28	A-1.1	b	7/24/03
	13	721-11-28	A-3.1	b	7/24/03
	14	721-11-28	A-3.2	b	7/24/03
	23	721-11-28	M-1	b	7/24/03
	28	721-11-28	M-6	b	7/24/03
	29	721-11-28	M-7	b	7/24/03

Whole Barracks Renewal Brigade Complex
 QUAD C (RFP Information Drawings)

REV	<u>RING NO.</u>	<u>DRAWING NO.</u>	<u>SHEET NO.</u>	<u>LTR</u>	<u>REVISION DATE</u>
	1		T-X	a	7/29/03

AM-0003
No. DACA83-03-R-0013
Item 14 (Continued)

Standard Form 30
Page 3 of 3 Pages

B. NEW DRAWINGS. The following new drawings are issued herewith:

<u>RING NO.</u>	<u>SHEET NO.</u>	<u>TITLE</u>
15	AB-13	ARTILLERY BARRACKS - REINFORCING DETAILS

3. The proposal due date of August 11, 2003, 2:00 p.m. Hawaiian Standard Time (HST), remains unchanged.

SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NUMBER DACA83-03-R-0013	2. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED 07/03/03	PAGE OF PAGES 1 of 7 *
	IMPORTANT - The "offer" section on the reverse must be fully completed by the offeror.			

4. CONTRACT NUMBER	5. REQUISITION/PURCHASE REQUEST NUMBER	6. PROJECT NUMBER
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7. ISSUED BY U.S. Army Corps of Engineers Honolulu Engineer District Construction/A-E Contracts Branch Building 230 Fort Shafter, Hawaii 96858-5440	CODE	8. ADDRESS OFFER TO U.S. Army Corps of Engineers Honolulu Engineer District Construction/A-E Contracts Branch Building 200 Fort Shafter, Hawaii 96858-5440
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9. FOR INFORMATION CALL	A. NAME Renee Hicks	B. TELEPHONE NUMBER (Include area code) (NO COLLECT CALLS) (808)438-8564
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SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying number, date):

FY03 MCA/BUP PN 52068/69, WHOLE BARRACKS RENEWAL BRIGADE COMPLEX PHASE 3A, QUAD C, SCHOFIELD BKS, OAHU, HI

(SEE MAIN TABLE OF CONTENTS)

11. The Contractor shall begin performance within 7 calendar days and complete it 900 calendar days after award, notice to proceed. This performance period is mandatory, negotiable. (See 52.211-10)

12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE PAYMENT BONDS? <i>(If "YES," indicate within how many calendar days after award in Item 12B.)</i> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12B. CALENDAR DAYS 14
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13. ADDITIONAL SOLICITATION REQUIREMENTS:

A. Sealed offers in original and _____ copies to perform the work required are due at the place specified in Item 8 by 2:00pm HST (hour) local time 8/11/03 (date). If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

B. An offer guarantee is, is not required.

C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

D. Offers providing less than 120 * calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

SECTION 00010
PROPOSAL SCHEDULE

FY03 MCA/BUP PN52068/52069, WBR Brigade Complex, Ph 3A (Quad C)
Schofield Barracks

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	AMOUNT
Base Schedule:				
1.	Design Work			
	a. MCA Funded	1	Job	\$ _____
	b. BUP Funded	1	Job	\$ _____
	Total Bid Item No. 1			\$ _____
2.	Construction Work			
	a. MCA Funded	1	Job	\$ _____
	b. BUP Funded	1	Job	\$ _____
	Total Bid Item No. 2			\$ _____
	Total Base Schedule			\$ _____
Options:				
3.	Work to Increase SDD Rating from Silver to Gold (Option No. 1)			
	3a. Design Work			
	(1). MCA Funded	1	Job	\$ _____
	(2). BUP Funded	1	Job	\$ _____
	3b. Construction Work			
	(1). MCA Funded	1	Job	\$ _____
	(2). BUP Funded	1	Job	\$ _____
	Total Option No. 1			\$ _____
4.	Cook Tops (Option No. 2)			
	4a. Design Work			
	(1). MCA Funded	1	Job	\$ _____
	(2). BUP Funded	1	Job	\$ _____
	4b. Construction Work			
	(1). MCA Funded	1	Job	\$ _____
	(2). BUP Funded	1	Job	\$ _____
	Total Option No. 2			\$ _____

member, or other specifically named relationship. The Contracting Officer may require such additional information from the contractor as is necessary to make a determination in the matter.

d. The Offeror further agrees that the Contracting Officer's approval of any substitution shall be at no cost to the Government, provided such substitution does not involve a change to the scope of work under the contract. The Offeror further agrees that it shall hold harmless and indemnify the Government, its lawful agents, employees and officers from any liability that may arise from the act of the Contracting Officer permitting the contractor to substitute for the originally proposed employee, joint venture partner, subcontractor team member, or other specifically named legal relationship.

e. The Offeror agrees that it shall, as contractor, insert in all subcontracts, joint venture agreements, teaming agreements, or other legal relationships provisions substantially similar to this, and shall require its subcontractors, joint venture partners, team members and other parties with whom it has a legal relationship to do the same.

3. By submission of an offer under the OPTION, Offeror agrees that the Government may exercise the OPTION at the time of award, or at any time within 30 days following the date of the award of the basic contract. (See Provision No. 52.217-5, EVALUATION OF OPTIONS, in Section 00100).

4. Failure to bid on all the items in the Proposal Schedule may cause the bid to be considered nonresponsive.

5. If contaminated soil is encountered during construction, the Contractor may be required to provide or perform some of the following items. To minimize delays associated with encountering contaminated soil during construction, Offeror shall provide a unit price for each of the following items. The unit price for each item must reflect the total cost (including direct costs, indirect costs, markups, etc.) for that specific item. If contaminated soil is encountered during construction, the Contractor shall promptly notify the Contracting Officer that such a condition has been encountered, describe the condition encountered, and provide a listing of which of the following items will be required. Upon notification of encountering contaminated soil, the Contracting Officer will promptly investigate the matter, and if necessary, issue a modification directing the Contractor to proceed with any or all of the required items (using the following unit prices):

A.	<u>DESCRIPTION</u>	<u>Unit</u>	<u>Unit Price</u>
	1) Prepare Sampling Analysis Plan	Ea	\$ _____
	2) Prepare Site Safety and Health Plan	Ea	\$ _____
	3) Perform Tests:		
	a) Polynuclear Aromatic Hydrocarbons (PAHs)	Ea	\$ _____
	b) Aromatic and Halogenated Volatile Organic Compounds (including Methyl Ethyl Ketone)	Ea	\$ _____
	c) Lead/Cadmium	Ea	\$ _____
	d) Polychlorinated Biphenyls (PCBs)	Ea	\$ _____
	e) TPH- Diesel/Oil Range Organics (Excavated area)	Ea	\$ _____
	f) TPH-Gasoline Range Organics	Ea	\$ _____
	g) TCLP (stockpile)	Ea	\$ _____

h) TPH- Diesel/Oil Range Organics (Stockpiles) Ea \$ _____

4) Handling of Contaminated Soil

a. Remove and Dispose Contaminated Soil CY \$ _____

b. Replace with New Soil CY \$ _____

c. Remove and Reuse On Site CY \$ _____

B. PAYMENT

The Item numbers described below correspond to the item numbers above in Note 5A.

a. Item No. 1) Prepare Sampling Analysis Plan, will be paid for at the contract unit price, including all incidental items necessary to complete the work.

b. Item No. 2) Prepare Site Safety and Health Plan, will be paid for at the contract unit price, including all incidental items necessary to complete the work.

c. Item No. 3)a, 3)b, 3)c, 3)d, 3)e, 3)f, 3)g, and 3)h. Perform Tests, will be paid for at the contract unit price, including sampling, analyses, reports and all incidental items necessary to complete the work.

d. Item No.4a), Remove and Dispose Contaminated Soil:

(1) Measurement for payment will be to the nearest cubic yard of contaminated soil acceptably removed and disposed.

(2) Payment for contaminated soil acceptably removed and disposed will be made at the applicable contract unit price per cubic yard, including, cleanup, and all incidental items necessary to complete the work.

e. Item No.4a), Replace with New Soil:

(1) Measurement for payment will be to the nearest cubic yard of new soil placed.

(2) Payment for new soil placed will be made at the applicable contract unit price per cubic yard, including, cleanup, and all incidental items necessary to complete the work.

f. Item No.4a), Remove and Reuse on site:

1) Measurement for payment will be to the nearest cubic yard of contaminated soil acceptably removed and reused on site.

(2) Payment for contaminated soil acceptably removed and reused on site will be made at the applicable contract unit price per cubic yard, including, cleanup, and all incidental items necessary to complete the work.

PAYMENT(S)

Compensation for all work to be performed under this contract will be made under the payment item(s) listed herein. Price(s) and payment(s) for the item(s) shall cover all work, complete and finished in accordance with the specifications, schedules, and drawings, and shall be full compensation for all work in connection therewith, including quality control and cost of performance-and payment-bond premiums as specified in the CONTRACT CLAUSES. Price(s) and payment(s) shall constitute full and final compensation for furnishing all materials, equipment, management, supervision, labor, transportation, fuel, power, water, and all incidental items necessary to complete the work, except as otherwise specified to be furnished by the Government. For the purpose of CONTRACT CLAUSE entitled "PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS", the term "designated billing office" and "designated payment office" are as follows:

a. Billing Office
U.S. Army Engineer District, Honolulu
Schofield Barracks Resident Office, Bldg. 230
Fort Shafter, HI 96858-5440

b. Payment Office
USACE Finance Center
Attn: CEFC-FP
5722 Integrity Drive
Millington, TN 38054-5005

Item numbers mentioned herein after correspond to the item numbers in the PROPOSAL SCHEDULE.

a. Item Nos. 1a and 1b, Design Work, will be paid for at the contract price, to include design for, site preparation, building, waterlines, sanitary-sewer system, storm-drainage system, pavement, concrete sidewalks, curbs, and gutters, landscaping, mechanical work, electrical work, and all incidental items necessary to complete the work.

b. Item Nos. 2a and 2b, Construction Work, will be paid for at the contract price, complete in place and ready for use, including site preparation, building, waterlines, sanitary-sewer system, storm-drainage system, pavement, concrete sidewalks, curbs, and gutters, establishment of turf, mechanical work, electrical work, testing, final connections, cleanup, and all incidental items necessary to complete the work.

c. **Item No. 3a.(1), 3a.(2), 3b.(1) and 3b.(2)**, Work to increase SDD Rating from Silver to Gold (Option No. 1), will be paid for at the contract price including design and construction, **as applicable**, and all incidental items necessary to complete the work.

d. **Item Nos. 4a.(1), 4a.(2), 4b.(1) and 4b.(2)**, Cook Tops (Option No. 2), will be paid for at the contract price complete in place and ready for use, including exhaust hoods, ductwork, garbage disposer, electric circuits, **design and construction, as applicable**, and all other incidental items necessary to complete the work.

e. **Item No. 5a.(1), 5a.(2), 5b.(1), and 5b.(2), AT/FP Floor Slab Reinforcement** (Option 3), will be paid for at the contract price complete in place and ready for use, including design **and** construction, **as applicable**, and all other incidental items necessary to complete the work.

RESPONSES TO CONTRACTOR QUESTIONS

Architectural Window Systems., Mark Braunschweig

36. In the Statement of Work for this project the RFP is clear that the AT/FP requirements are to meet the July 31, 2002 DOD standards, specifically UFC 4-010-01. The windows and entrance doors are shown and called out to be wood, which will not meet these blast requirements (even with the laminated glass). Is there something in the specifications that we are perhaps overlooking that alleviates these requirements as they pertain to the windows?

Response- See RFP Specification paragraph 5-7.1.8 for exterior window and door requirements. See RFP Concept Design Drawings, sheet A-4.1, for NOTE, which indicates type of material.

Dick Pacific Construction, Edward Requilman

37. It appears that the exterior concrete walls are covered in plaster on both the interior face and exterior face. Is it the intent of the seismic / AT/FP strengthening provided in the RFP to have the shotcrete applied directly over the plaster, or does the plaster need to be removed prior to applying the shotcrete?

Response- Concrete surfaces on which shotcrete is to be installed shall have all debris, chemicals, contaminants including plaster removed in accordance with ACI 506R-90.

FY03 MCA PN 52068 & BUP 52069
WBR, BRIGADE COMPLEX,
PHASE 3A, QUAD C

Statement of Work

16 June 2003

FY03 MCA PN 52068 & BUP 52069
WHOLE BARRACKS RENEWAL
BRIGADE COMPLEX, PHASE 3A, QUAD C

STATEMENT OF WORK

16 June 2003

U.S. ARMY CORPS OF ENGINEERS
Honolulu Engineer District

STATEMENT OF WORK CONTENTS

		<u>Page</u>
CHAPTER 1 DESIGN OBJECTIVES		
Paragraph	1-1	SCOPE OF WORK 1-1
	1-2	APPLICABLE CRITERIA 1-1
	1-3	DESIGN QUALITY 1-1
	1-4	DESIGN FREEDOM 1-1
	1-5	ENERGY AND RESOURCES CONSERVING FEATURES 1-1
	1-6	INSTALLATION REAL PROPERTY MASTER PLAN 1-2
	1-7	ACCESSIBILITY REQUIREMENTS 1-2
	1-8	ANTI-TERRORISM FORCE PROTECTION CONSIDERATIONS 1-2
	1-9	HISTORIC PRESERVATION (SECTION 106) 1-2
	1-10	ORGANIZATIONAL STRUCTURE 1-2
CHAPTER 2 FUNCTIONAL AND AREA REQUIREMENTS		
Paragraph	2-1	GENERAL REQUIREMENTS 2-1
	2-2	BUILDING 355-COMPANY OPERATIONS FACILITIES FUNCTIONAL AND AREA REQUIREMENTS 2-1
	2-3	BUILDING 355- GYMNASIUM FUNCTIONAL AND AREA REQUIREMENTS 2-12
	2-4	BUILDING 356 AND 358-UNACCOMPANIED ENLISTED PERSONNEL 2-13
	2-5	HOUSING (UEPH) FACILITIES FUNCTIONAL AND AREA REQUIREMENTS. BUILDING 357-DINING FACILITY FUNCTIONAL AND AREA 2-21
	2-6	REQUIREMENTS BUILDING 357- SOLDIER SERVICES FUNCTIONAL AND AREA REQUIREMENTS 2-33
	2-7	BUILDING 357-BATTALION HEADQUARTERS (HQ) FUNCTIONAL AND AREA REQUIREMENTS 2-40
	2-8	OTHER STRUCTURES 2-57
CHAPTER 3 SITE PLANNING AND DESIGN		
Paragraph	3-1	SCOPE OF WORK 3-1
	3-2	SITE VERIFICATION 3-1
	3-3	EXISTING CONDITIONS 3-1
	3-4	EXCAVATION PERMITS 3-1
	3-5	SITE DEVELOPMENT PLAN 3-1
	3-6	GRADING AND DRAINAGE 3-2
	3-7	GENERAL SITE DESIGN CRITERIA 3-2
	3-8	CIRCULATION AND PARKING 3-2
	3-9	ANTITERRORISM FORCE PROTECTION (AT/FP) STANDOFF REQUIREMENTS 3-4
	3-10	REFERENCE REQUIREMENTS AND STANDARDS 3-4
	3-11	SOILS, PAVEMENTS AND EARTHWORK 3-6
	3-12	EROSION AND SEDIMENT CONTROL 3-9
	3-13	DEMOLITION 3-9
	3-14	CLEARING AND GRUBBING 3-10
	3-15	WETLANDS 3-10
	3-16	EARTHWORK 3-10
	3-17	BORROW MATERIAL 3-10

16 June 2003

3-18	WATER DISTRIBUTION SYSTEM.....	3-10
3-19	SANITARY SEWERAGE SYSTEM.....	3-13
3-20	STORMWATER MANAGEMENT SYSTEMS.....	3-16
3-21	GRADING AND DRAINAGE.....	3-16
3-22	PAVEMENT DESIGN CRITERIA.....	3-19
3-23	PERMIT REQUIREMENTS.....	3-19
3-24	GAS DISTRIBUTION SYSTEM.....	3-19
3-25	HEATING HOT WATER AND CHILLED WATER DISTRIBUTION....	3-19
3-26	STEAM DISTRIBUTION.....	3-20
3-27	FUEL OIL STORAGE AND DISTRIBUTION.....	3-20
3-28	LIQUEFIED PETROLEUM GAS STORAGE AND DISTRIBUTION.....	3-20

CHAPTER 4 SITE ENGINEERING- DELETED

CHAPTER 5 ARCHITECTURAL DESIGN

Paragraph	5-1	DESIGN GOALS	5-1
	5-2	APPLICABLE CODES AND STANDARDS.....	5-2
	5-3	IBC OCCUPANCY AND BUILDING TYPE CLASSIFICATIONS.....	5-3
	5-4	EXTERIOR DESIGN.....	5-3
	5-5	INTERIOR DESIGN.....	5-7
	5-6	PAINT FINISHES AND COATINGS	5-11
	5-7	PHYSICAL SECURITY REQUIREMENTS	5-12
	5-8	SIGNAGE.....	5-13
	5-9	ACCESSIBILITY FOR HANDICAPPED (PHYSICALLY IMPAIRED) PERSONS, BARRIER FREE DESIGN.....	5-14

CHAPTER 6 STRUCTURAL DESIGN

Paragraph	6-1	GENERAL.....	6-1
	6-2	DESIGN CRITERIA	6-1
	6-3	MINIMUM LOAD STANDARDS.....	6-1
	6-4	MINIMUM MATERIAL STRENGTHS AND PROPERTIES.	6-2
	6-5	SPECIAL REQUIREMENTS.....	6-3

CHAPTER 7 THERMAL PERFORMANCE

Paragraph	7-1	THERMAL CHARACTERISTICS.....	7-1
	7-2	THERMAL INSULATION.....	7-1
	7-3	INFILTRATION.....	7-1

CHAPTER 8 PLUMBING

Paragraph	8-1	GENERAL.....	8-1
	8-2	APPENDIX AND RECOMMENDATIONS.....	8-2
	8-3	DESIGN CALCULATIONS	8-3
	8-4	EQUIPMENT.....	8-3
	8-5	FIXTURES	8-3
	8-6	PIPING SYSTEMS	8-4
	8-7	MISCELLANEOUS ITEMS	8-5
	8-8	PIPE INSULATION	8-6

CHAPTER 9 ELECTRICAL SYSTEMS

Paragraph	9-1	BUILDING ELECTRICAL SYSTEM.....	9-1
	9-2	TELECOMMUNICATIONS PREMISES DISTRIBUTION SYSTEM.....	9-7
	9-3	INTERIOR CABLE TELEVISION SYSTEM.....	9-10
	9-4	EXTERIOR ELECTRICAL DISTRIBUTION SYSTEM.....	9-11
	9-5	TELECOMMUNICATIONS OUTSIDE PLANT.....	9-17
	9-6	EXTERIOR CABLE TELEVISION SYSTEM.....	9-19
	9-7	SPECIAL UTILITIES AND SUPPLEMENTARY CONSTRUCTION.....	9-21

CHAPTER 10 HEATING, VENTILATING, AND AIR CONDITIONING

Paragraph	10-1	GENERAL.....	10-1
	10-2	APPENDIX AND RECOMMENDATIONS.....	10-4
	10-3	DESIGN CALCULATIONS.....	10-4
	10-4	MECHANICAL SYSTEMS.....	10-5
	10-5	CENTRAL COOLING EQUIPMENT.....	10-5
	10-6	AIR DISTRIBUTION SYSTEMS.....	10-11
	10-7	PIPING SYSTEMS.....	10-14
	10-8	INSULATION.....	10-15
	10-9	INSTRUMENTATION AND CONTROLS.....	10-15
	10-10	TESTING, ADJUSTING AND BALANCING.....	10-17
	10-11	COMMISSIONING.....	10-17
	10-12	TRAINING.....	10-17

CHAPTER 11 ENERGY CONSERVATION

Paragraph	11-1	ENERGY RECOVERY EQUIPMENT.....	11-1
-----------	------	--------------------------------	------

CHAPTER 12 FIRE PROTECTION

Paragraph	12-1	GENERAL.....	12-1
	12-2	APPENDIX AND RECOMMENDATIONS.....	12-2
	12-3	DEFINITIONS.....	12-2
	12-4	AUTHORITY HAVING JURISDICTION (AHJ).....	12-2
	12-5	WAIVER TO CRITERIA.....	12-2
	12-6	PRIORITY OF CONFLICTING REQUIREMENTS.....	12-2
	12-7	FIRE PROTECTION ENGINEER SERVICES.....	12-3
	12-8	IBC REQUIREMENTS.....	12-3
	12-9	LIFE SAFETY REQUIREMENTS.....	12-3
	12-10	FIRE SPRINKLER AND FIRE PUMP REQUIREMENTS.....	12-4
	12-11	FIRE ALARM.....	12-5
	12-12	MISCELLANEOUS FIRE REQUIREMENTS.....	12-5

CHAPTER 13 SUSTAINABLE DESIGN

Paragraph	13-1	SUSTAINABLE DESIGN GOALS.....	13-1
	13-2	PROJECT REQUIREMENTS.....	13-1
	13-3	SpiRiT REQUIREMENTS.....	13-3

CHAPTER 14 COMPREHENSIVE INTERIOR DESIGN

Paragraph	14-1	COMPREHENSIVE INTERIOR DESIGN PACKAGE	14-1
	14-2	PRESENTATION FORMATS	14-1
	14-3	DRAWING INFORMATION REQUIREMENTS	14-2
	14-4	BUILDING INTERIOR DESIGN SUBMITTAL ITEMS	14-3
	14-5	FURNISHINGS INTERIOR DESIGN SUBMITTAL ITEMS	14-4

CHAPTER 15 HISTORIC PRESERVATION

Paragraph	15-1	DESIGN BACKGROUND	15-1
	15-2	ADDITIONS.....	15-1
	15-3	EXTERIOR FENESTRATIONS	15-1
	15-4	EXTERIOR ELEMENTS	15-1
	15-5	GYMNASIUM (ORIGINAL THEATER).....	15-2

CHAPTER 16 ENVIRONMENTAL REQUIREMENTS

Paragraph	16-1	ENVIRONMENTAL ISSUES	16-1
	16-2	POTENTIAL ENVIRONMENTAL CONCERNS	16-1
	16-3	ASBESTOS.....	16-1
	16-4	LEAD.....	16-1
	16-5	PCB LIGHT BALLASTS	16-2
	16-6	UNDERGROUND STORAGE TANKS.....	16-2
	16-7	MERCURY SWITCHES	16-2
	16-8	SAFETY	16-2
	16-9	APPLICABLE FEDERAL AND STATE LAWS AND ACTIONS	16-2
	16-10	MERCURY & UST.....	16-3
	16-11	POLYCHLORINATED BIPHENYLS (PCBS).....	16-4
	16-12	SAFETY AND HEALTH.....	16-4

CHAPTER 17 LANDSCAPE DESIGN

Paragraph	17-1	OBJECTIVES.....	17-1
	17-2	REFERENCES	17-1
	17-3	DESIGN CONSIDERATIONS	17-1
	17-4	LANDSCAPE MINIMUM REQUIREMENTS	17-2

ATTACHMENTS:

<u>No.</u>	<u>DESCRIPTION</u>
1	SIGN TYPES
2	WATER ANALYSIS
3	PLUMBING AND HVAC DESIGN ANALYSIS
4	COOLING LOAD CALCULATIONS, VAC EQUIPMENT SELECTION, PLUMBING CALCULATIONS, PLUMBING EQUIPMENT SELECTION, AND CENTRAL MECHANICAL PLANT
5	FIRE PROTECTION DESIGN ANALYSIS AND CALCULATIONS
6	FIRE ALARM SEQUENCE OF OPERATION MATRIX
7	EXCAVATION PERMIT
8	LANDSCAPE DESIGN ANALYSIS
9	DELETED
10	SEISMIC EVALUATION AND REHABILITATION REPORT
11	FOOD SERVICE DESIGN ANALYSIS
12	FOOD SERVICE EQUIPMENT BROCHURES
13	SUSTAINABLE DESIGN SPIRIT CHECKLIST
14	RFP LIST OF DRAWINGS
15.	PROPOSAL DATA SHEET
16.	UFGS SECTION 13280A ASBESTOS ABATEMENT
17.	UFGS SECTION 13281A LEAD HAZARD CONTROL ACTIVITIES
18.	UNDERGROUND STORAGE TANK, PCB BALLAST, AND MERCURY LIGHT SWITCH INSPECTION FOR BLDGS. 355, 356, 357, AND 358
19.	ASBESTOS INSPECTION REPORTS, QUAD C - BLDGS. 357 AND 358
20.	BLDG 358
21.	ASBESTOS INSPECTION REPORTS, QUAD C - BLDGS. 355 AND 356
22.	BLDG. 356
23.	WATER DISTRIBUTION ANALYSIS

**FY03 MCA PN 52068 & BUP 52069
WBR, BRIGADE COMPLEX,
PHASE 3A, QUAD C**

Statement of Work

16 June 2003

24. TELECOMM DETAILS
25. GEAR WASH/RECREATION BUILDING
26. PRELIMINARY SOILS REPORT
27. GTB DETAILS
28. QUAD C RFP INFORMATION DRAWINGS
29. PROGRESSIVE COLLAPSE VULNERABILITY ASSESSMENT
30. CONCEPT DESIGN ANALYSIS OF EXISTING STRUCTURAL SYSTEM
31. CONTRACTOR OPERATIONS AND STORAGE AREA

CHAPTER 6

STRUCTURAL DESIGN

6-1 **GENERAL.** The structural criteria established herein shall be used for structural loading, design and installation of all structural systems and foundations, including manufacturing, erection, supervision, testing, and quality assurance of the completed installation of the buildings. A concept structural design which includes seismic and antiterrorism/force protection design has been prepared by the Government and is an attachment to this RPF. The offerors shall incorporate the concept structural design into their design proposal, however the concept design may be changed due to innovation or economic efficiency, not withstanding requirements of all other sections of this rfp and provided all structural criteria herein are met and accounted for in a rational analysis and stamped by a structural engineer licensed in the U.S. The winning offeror shall provide final structural design in compliance with the structural design criteria listed below.

6-2 **DESIGN CRITERIA.** Structural design criteria and guidance are contained in the following documents. Editions that are current at the date of issue of the RFP shall apply.

- 6-2.1. TI 800-01, Design Criteria
- 6-2.2. TI 809-04, Seismic Design for Buildings
- 6-2.3. TI 809-05, Seismic Evaluation and Rehabilitation for Buildings
- 6-2.4. TM 5-853-1, Security Engineering, Vols 1-3 (For Official Use Only)
- 6-2.5. MIL HNDBK 1013/1A, Design Guidelines for Physical Security of Facilities
- 6-2.6. AR 190-11, Physical Security of Arms, Ammunition, and Explosives, with Change 1
- 6-2.7. ASCE 7, Minimum Design Loads for Buildings and Other Structures
- 6-2.8. Unified Facilities Guide Specifications (UFGS)
- 6-2.9. EM 1110-2-2002, Evaluation and Repair of Concrete Structures
- 6-2.10. UFC 4-010-01, DOD Minimum Antiterrorism Standards for Buildings, 31 Jul, 2002
- 6-2.11. UFC 1-200-01, Design: General Building Requirements, dated 31 July 2003
- 6-2.12. 2000 International Building Code (IBC 2000)

6-3 **MINIMUM LOAD STANDARDS.** Design loads and load combinations shall be in accordance with 2000 IBC, except as otherwise indicated by this chapter. Additional seismic and anti-terrorism requirements are covered under criteria listed in paragraphs that follow. Design loads shall meet the minimum load standards shown in Table 6-1.

TABLE 6-1 - MINIMUM LOAD STANDARDS

<u>LOAD TYPE</u>	<u>REQUIREMENT</u>
Dead Load	Actual
Roof Live Load	1 kPa (20 psf)
Balconies, First Floor Corridor, Stair, Dining & Serving Room	4.8 kPa (100 psf)
Corridor above first floor	3.8 kPa (80 psf)
Dining and Serving Room	4.8 kPa (100 psf)
Kitchen and Dishwashing Room	12 kPa (150 psf)
Residential Live Load	1.9 kPa (40 psf)
Classroom Live Load	1.9 kPa (40 psf)

Office and Restroom Live Load	2.4 kPa (50 psf)
Light Storage Live Load	3.5 kPa (70 psf)
Stair and Exitways	4.8 kPa (100 psf)
Mechanical and Electrical Room Live Load	7.2 kPa (150 psf)
Wind Load Criteria	105 MPH Basic Wind Speed Exposure "C" in accordance with ASCE 7
Seismic Load Criteria	Refer to Seismic Evaluation and Rehabilitation Report

6-4 **MINIMUM MATERIAL STRENGTHS AND PROPERTIES.**

6-4.1 **Foundation.** Foundation shall be concrete footings and/or thickened slab edges compatible with the soil and climatic conditions of the site. Allowable soil bearing pressure shall be 3000 psf for footings bearing on undisturbed residual soil.

6-4.2 **Reinforced Concrete.** Concrete Requirements. All concrete shall conform to IBC 2000.

6-4.2.1 Minimum concrete strength at 28 days: 21 Mpa (3000 psi) with water-cement ratio not more than 0.45.

6-4.2.2 Minimum concrete thickness:

Slab-on-grade: Non-structural interior slab-on-grade design shall be in accordance with TI 809-02. Non-structural interior slab-on-grade system shall consist of minimum 102 mm (4") concrete slab over vapor barrier over granular termite barrier over separation geotextile over capillary water barrier. Welded wire reinforcement shall be secured at mid-depth of slab by mechanical means such as precast concrete spacers or reinforcing chairs. All slabs-on-grade shall be moist cured for a minimum of 7 days followed by curing by curing compound for another 3 weeks. Curing compound shall be dissipating type compatible with any floor seal or floor covering adhesive.

Structural members. The thickness of all structural members shall conform to ACI 318, Building Code Requirements for Reinforced Concrete.

6-4.2.3 The minimum yield strength F_y of reinforcing steel shall be 275 Mpa (40,000 psi).

6-4.3 **Concrete Masonry Units (CMU).**

6-4.3.1 Reinforced masonry assemblies shall have a minimum compressive strength of 10.34 Mpa (1500 psi).

6-4.3.2 Cmu shall conform to ASTM C 90, Type II, except oven-dry weight shall be no less than 581 kg per cubic meter (119 pcf) for hollow load bearing units.

6-4.3.3 Mortar shall be Type "S" conforming to ASTM C 270.

6-4.3.4 Grout shall conform to ASTM C 476 with a minimum compressive strength of 15 Mpa (2000 psi).

6-4.4 Structural Steel.

6-4.4.1 Structural steel shall conform to ASTM A 36 or better.

6-4.4.2 Anchor bolts shall conform to ASTM A 307. Machine bolts shall conform to ASTM A 325.

6-4.4.3 All welds shall be accomplished by certified welders in conformance with AWS D1.1, Structural Welding Code.

6-4.4.4 All steel shall be primed in the shop. Exposed steel shall be hot-dip galvanized.

6-4.5 Light Gage (Cold-Formed) Steel Construction. Design and construction shall be in accordance with IBC 2000.

6-4.5.1 **Fasteners.** All screws, bolts, anchor bolts and expansion shields shall be stainless steel or finished with zinc, cadmium or co-polymer coatings. Pneumatically driven pins or nails will not be permitted. All welded connections shall be designed in accordance with Section E of the AISI Specification. All welding shall be accomplished in accordance with AWS D1.3 standards. All weld areas shall be re-touched with the appropriate paint or cold galvanized to retain corrosion resistance.

6-4.5.2 **Protective Coating.** Exposed light gage steel members will not be allowed. All light gage steel used for exterior applications shall have minimum G-90 hot dip zinc coating in accordance with ASTM A 525. Exterior applications include all steel members directly supporting exterior siding or roof sheathing. Interior applications shall have a minimum G-60 hot dip zinc coating in accordance with ASTM A 525.

6-4.6 **Miscellaneous Metal Items.** All railings, handrails, anchor bolts, plates, and steel embedded in concrete, metal studs and runners, and other miscellaneous metal items shall be galvanized. All damaged galvanized areas not embedded shall be repaired with galvanizing repair compound. All metal items listed above that are exposed to the weather or exterior shall be hot-dip galvanized or coated with inorganic zinc primer.

6-4.7 Structural Wood.

6-4.7.1 Wood structural members are not allowed.

6-5 SPECIAL REQUIREMENTS.

6-5.1 **AISC Certification requirements:** All fabrication of structural steel shall be accomplished by an AISC certified Category Sbd fabricating plant.

6-5.2 **Materials Testing.** As a minimum, the following concrete tests shall be performed: air content, slump, unit weight, temperature, and strength. Refer to United Facilities Guide Specification Section 03300, Cast-in-Place Structural Concrete, for sampling and testing standards. All costs for testing shall be borne by the Contractor.

6-5.3 **Special Inspection.** Continuous or periodic special inspection by a certified inspector shall be performed on seismic-resisting systems in accordance with IBC 2000, Section 1704. See also Unified Facilities Guide Specification Section 01452, Special Inspection for Seismic-Resisting Systems, for inspection requirements and other details.

6-5.4 **Arms Vaults.** The arms vault in each Company Operations Facility shall meet the requirements

of AR 190-11. Refer also to paragraph 5-7.2.6, "Arms Rack Anchor Rings".

6-5.5 **Antiterrorism/Force Protection (AT/FP).** This project is classified as a major renovation for inhabited structures of troop billeting and primary gathering structures which shall be designed and constructed to meet DOD AT/FP design criteria, UFC 4-010-01, DOD Minimum Antiterrorism Standards for Buildings, 31 Jul, 2002.

The Government has prepared a concept site plan which employs operational options for parking areas and roadways to meet all AT/FP standoff distance requirements of UFC 4-010-01 and to obviate the need to harden the existing Quad C buildings for anti-terrorism blast loads. Refer to Statement of Work, Chapter 3, Paragraph 3-5, Site Development Plan, for AT/FP operational options in the site concept design.

The Government has also prepared an independent anti-terrorism/force protection assessment and retrofit (AT/FP concept design) report, entitled "Progressive Collapse Vulnerability Assessment", by Mitsunaga and Associates, dated May 2003 (attached) to provide compliance to other AT/FP requirements of UFC 4-010-01.

New windows shall meet requirements of UFC 4-010-01, paragraph B-3.1 as indicated by the AT/FP concept design. Window criteria include minimum ¼" nominal laminated glass for all exterior windows and glazed doors with 3/8" minimum frame bite for structural glazed windows and 1" bite for window systems that are not structurally glazed.

The requirement to design and retrofit existing floor slabs (with FRP or similar top slab reinforcing) to withstand upward blast loads as given by paragraph B-2.1.3 of UFC 4-010-01 shall be treated as a bid option to this project since this floor slab requirement is not required in accordance with the interim 1999 AT/FP standards.

The offerors shall incorporate all AT/FP concept design report and the Site Development Plan (paragraph 3-5) into their design proposal submissions and shall include associated retrofit costs in their price proposal submissions. The AT/FP concept design and the Site Development Plan (paragraph 3-5) shall be the basis for final design and actual construction. Provide work necessary for retrofit but not shown on the on concept design. The AT/FP concept design retrofit upgrades shall be integrated with the seismic rehabilitation plan described in the following paragraph, so that strengthened/new structural members may serve dual functions. Anti-terrorism/force protection design shall be comply with the statement of work chapters on Historical Preservation.

6-5.6 **Seismic Evaluation and Rehabilitation.** Army regulations require that the buildings of Quad C be evaluated to determine possible requirements for structural rehabilitation to mitigate seismic hazards. The Government has prepared an independent seismic evaluation and rehabilitation (concept seismic design) report to minimize risks to offerors due to unknown conditions. The seismic concept design report entitled, "Seismic Evaluation and Rehabilitation Report, by Mitsunaga and associates, Inc, dated May 2003 is attached to this RFP. The offerors shall incorporate the seismic concept design into their design proposal submissions, and include seismic rehabilitation costs in their price proposal submissions. Provide work necessary for retrofit but not shown on the on concept design. **Retrofit shall include new footings or enlarging existing footings. Footings are not shown on the concept design, but are required for shearwalls.** To give the offeror the opportunity for design innovation and economy, the design proposal need not follow the concept design exactly, provided the seismic forces specified in the report are accounted for in a rational analysis developed by a licensed structural engineer, and load path requirements are met. The seismic design criteria for the seismic concept design include TI 809-05, Seismic Evaluation and Rehabilitation for Buildings, and TI 809-04, Seismic Design of Buildings.

Requirements for seismic rehabilitation shall be integrated with AT/FP and Historic Preservation requirements.

6-5.7. **Concrete Damage Repair.** No major concrete repairs are anticipated. Miscellaneous spalling and cracking shall be repaired following methods prescribed in EM 1110-2-2002, Evaluation and Repair of Concrete Structures.

6-5.8 **Existing and New Structural Systems.** Existing structural systems shall be analyzed and retrofitted to insure new live loads provided in IBC 2000 or Table 6-1 can be supported. Provide all work necessary for final design but not shown on concept design. New live loads shall include but not limited to new cooling tower, machine rooms, locker rooms, and arms rooms. Refer to attachment entitled, CONCEPT DESIGN ANALYSIS OF EXISTING STRUCTURAL SYSTEM (DEAD AND LIVE LOADS).

New footings or enlarged footings shall be provided where required for required building loads (including seismic loads). **Foundation design shall be based on Preliminary Geotechnical Investigation Report (Attachment 26).**

There are no structural as-built drawings for Quad C **except for one sheet**. The bidder shall assume that existing structural members are adequate for existing floor loads. The contractor shall strengthen the existing structure where the new floor plan requires increased floor live load over existing floor live load. Where there is an increase in live loads, the contractor shall perform nondestructive and destructive tests as required, after award of the contract, to verify actual existing structural conditions and to verify structural adequacy.

Asbuilt drawings for Quad C roof are not available. A photograph and description of the existing roof truss taken in an adjacent Quad Building is included. Contractor shall assume that the Quad C roof consist of a similar timber wood truss which requires complete replacement for bidding purposes. Contractor shall provide destructive and nondestructive investigative testing of the roof after award of contract. Final roof design shall be based on testing results.

SECTION 01572

CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING

PART 1 GENERAL

1.1 REQUIREMENTS

The contractor shall implement a recycling program that includes separate collection of waste and recyclable materials. The contractor shall provide necessary equipment for the storage and handling of C&D debris.

1.2 DEFINITIONS

1.2.1 C&D Landfill

A landfill that accepts non-hazardous waste such as household, commercial, and industrial waste, resulting from construction, remodeling, repair, and demolition operations.

1.2.2 Clean Concrete

Concrete which has been sampled, tested and found free of lead based paint and asbestos.

1.2.3 Construction and Demolition (C&D) Debris

Includes all non-hazardous building materials and solid waste resulting from construction, remodeling, alterations, repair, and demolition operations. This term includes asphalt concrete, concrete, cement, brick, lumber, gypsum wallboard, cardboard and other associated packaging, roofing material, ceramic tile, carpeting, plastic pipe and steel. The term also includes rock, soil, tree stumps, and other vegetative matter resulting from land clearing and landscaping for construction or land development projects

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Material dismantling sequence plan
Schedule of removal
Estimated quantity of recyclable materials

Based upon contract plans and drawings, the contractor shall

estimate the quantities of available materials for recycling. The contractor shall provide a material dismantling sequence plan, a schedule of removal, and the estimated quantity of recyclable materials at the pre-construction meeting.

SD-09 Reports

Solid Waste Disposal and Diversion.

The contractor shall provide the weight of all materials salvaged, recycled, and disposed of during the performance of the project. The format of this report is provided below. The contractor shall submit this report through the Administrative Contracting Officer (copy furnish the Contracting Officer's Representative-COR) to the Environmental Compliance Branch, Solid Waste Manager, DPW, to the address below no later than the tenth working day after final inspection.

Directorate of Public Works
Environmental Compliance Branch
947 Wright Avenue
Wheeler Army Air Field
Schofield Barracks, HI 96857-5000

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 RECYCLABLE MATERIALS

Recyclable materials to be recovered shall include but not limited to the following:

- a. Asphalt
- b. Concrete, concrete block, slump stone, and rocks
- c. Dirt
- d. Metal, ferrous and non-ferrous.
- e. Wood wastes
- f. Green wastes (i.e. trees, bush, grass trimmings)
- g. Corrugated cardboard

The contractor shall when feasible, during demolition of existing structures, separate reinforcing steel from concrete by roughly crushing debris. The steel may be recycled and the concrete may be recrushed into a finer aggregate. The clean concrete aggregate may be used as a base-course fill for the replacement structures.

3.2 DISPOSITION OF MATERIALS

Contractor is responsible for arranging collection by or delivery to the appropriate recycling center or transfer station that accepts construction and demolition waste for purpose of recycling. Prior to delivering materials, contractor shall familiarize itself with the specifications for acceptance of construction and demolition materials at recycling facilities or transfer stations.

3.3 RECYCLING PROCEEDS AND DISPOSAL COSTS

The contractor shall retain revenues or other savings obtained from recycling or re-using materials unless otherwise stated on the Drawings or in the Specifications. The contractor shall dispose of non-marketable materials to include any recyclable material rejected for any reason at an off-base facility.

3.4 RECYCLING CENTERS

The State of Hawaii maintains a listing of authorized C&D recycling companies and authorized transfer stations on their web site at <http://www.hawaii.gov/health/eh/shwb/sw/>. Reference publication Minimizing Construction and Demolition Wastes, May 2003.

DPW Environmental

Summary of Solid Waste Disposal and Diversion

Project Title: _____

Project #: _____

Type of Material	(a) Recycled (tons)	(b) Disposed in Class III Landfills (tons)	(c) Resued (tons)
ASPHALT Name of Facility/Site Where Taken: _____			
CONCRETE Name of Facility/Site Where Taken: _____			
DIRT Name of Facility/Site Where Taken: _____			
METALS Name of Facility/Site Where Taken: _____			
WOOD WASTES Name of Facility/Site Where Taken: _____			
GREEN WASTES Name of Facility/Site Where Taken: _____			
CORREGATED CARDBOARD Name of Facility/Site Where Taken: _____			
TOTAL			

Company name: _____

Name of person completing form: _____ Signature: _____

Period covered in this report: from _____ to _____

FAX TO: 656-1039

-- End of Section --

recycled or recovered materials, provided specified requirements are also met.

1.5 EPA LISTED ITEMS USED IN CONDUCT OF THE WORK BUT NOT INCORPORATED IN THE WORK

There are many products listed in 40 CFR 247 which have been designated or proposed by EPA to include recycled or recovered materials that may be used by the Contractor in performing the work but will not be incorporated into the work. These products include office products, temporary traffic control products, and pallets. It is recommended that these non-construction products, when used in the conduct of the work, contain the highest practicable percentage of recycled or recovered materials and that these products be recycled when no longer needed.

-- End of Section --

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- 1 SIGN TYPES
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