

SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i>		1. SOLICITATION NO. F22600-02-R-0047	2. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED 20-Sep-2002	PAGE OF PAGES 1 OF 32
IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.					
4. CONTRACT NO. F22600-02-D-0008		5. REQUISITION/PURCHASE REQUEST NO.		6. PROJECT NO.	
7. ISSUED BY 81ST CONTRACTING SQUADRON TSGT ERIC DISMUKE 310 M STREET, RM 102 KEESLER AFB MS 39534-2147 TEL:228-377-1831 FAX: 228-377-3298		CODE FA3010	8. ADDRESS OFFER TO <i>(If Other Than Item 7)</i> 81ST CONTRACTING SQUADRON 310 M STREET RM 102 KEESLER AFB MS 39534-2147 TEL: FAX: 228-377-3298		CODE FA3010
9. FOR INFORMATION CALL:	A. NAME ERIC W. DISMUKE		B. TELEPHONE NO. <i>(Include area code) (NO COLLECT CALLS)</i> 228-377-1831		
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 <i>(Title, identifying no., date):</i> 1. PROJECT DESCRIPTION: REPLACE FLOORING; SEE BID SCHEDULE, STATEMENT OF WORK. 2. THIS ACQUISITION IS BEING ISSUED AS A SOLE SOURCE 8(A) SET-ASIDE. 3. ENTER PRICES IN SECTION B. 4. NOTE ALL AMENDMENTS TO THIS SOLICITATION (IF ANY) MUST BE ACKNOWLEDGED. 5. IN CLAUSE 52.232-27, PROMPT PAYMENT FOR CONSTRUCTION CONTACTS-NOTE: FOR THE PURPOSE OF THIS CLAUSE THE FOLLOWING PARAGRAPHS ARE AMENDED AS FOLLOWS: (a)(1)(i)(A)-30; (a) (4)(i)-14 6. YOUR ATTENTION IS DIRECTED TO SECTION I, CONTRACT CLAUSE 52.211-10, WITH REFERENCE TO "COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK".					
11. The Contractor shall begin performance within _____ calendar days and complete it within _____ calendar days after receiving <input type="checkbox"/> award, <input checked="" type="checkbox"/> notice to proceed. This performance period is <input type="checkbox"/> mandatory, <input type="checkbox"/> negotiable. <i>(See 52.211-10 _____ .)</i>					
12 A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND 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 10	
13. ADDITIONAL SOLICITATION REQUIREMENTS: A. Sealed offers in original and <u> 1 </u> copies to perform the work required are due at the place specified in Item 8 by <u> 16:00:00 </u> <i>(hour)</i> local time <u> 08/16/2002 </u> <i>(date)</i> . If this is a sealed bid solicitation, offers must 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 <input checked="" type="checkbox"/> is, <input type="checkbox"/> 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 <u> 90 </u> calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.					

SOLICITATION, OFFER, AND AWARD (Continued)

(Construction, Alteration, or Repair)

OFFER (Must be fully completed by offeror)

14. NAME AND ADDRESS OF OFFEROR *(Include ZIP Code)*
D N P INC
GREG NOLTE
680 KENNEDY LN
BILOXI MS 39532-4522

15. TELEPHONE NO. *(Include area code)*
228-392-7692

16. REMITTANCE ADDRESS *(Include only if different than Item 14)*

See Item 14

CODE
0ED59

FACILITY CODE

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within _____ calendar days after the date offers are due. *(Insert any number equal to or greater than the minimum requirements stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)*

AMOUNTS SEE SCHEDULE OF PRICES

18. The offeror agrees to furnish any required performance and payment bonds.

19. ACKNOWLEDGMENT OF AMENDMENTS

(The offeror acknowledges receipt of amendments to the solicitation -- give number and date of each)

AMENDMENT NO.										
DATE										

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN
OFFER *(Type or print)*

20B. SIGNATURE

20C. OFFER DATE

AWARD (To be completed by Government)

21. ITEMS ACCEPTED:
SEE SCHEDULE

22. AMOUNT
\$671,840.76

23. ACCOUNTING AND APPROPRIATION DATA

24. SUBMIT INVOICES TO ADDRESS SHOWN IN
(4 copies unless otherwise specified) 1

ITEM
Block 26

25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO
 10 U.S.C. 2304(c) 41 U.S.C. 253(c)

26. ADMINISTERED BY CODE FA3010
81ST CONTRACTING SQUADRON
TSGT ERIC DISMUKE
310 M STREET, RM 102
KEESLER AFB MS 39534-2147

27. PAYMENT WILL BE MADE BY CODE F60700
DFAS-SAVFVD (1-888-478-5636)
500 MCCULLOUGH AVE
SAN ANTONIO TX 78215-2100

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

28. NEGOTIATED AGREEMENT *(Contractor is required to sign this document and return _____ copies to issuing office.)* Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this contract.

29. AWARD *(Contractor is not required to sign this document.)*
Your offer on this solicitation, is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.

30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN *(Type or print)*

31A. NAME OF CONTRACTING OFFICER *(Type or print)*
ROBERT F. WINLAND / FLIGHT A, TEAM A LEADER

30B. SIGNATURE

30C. DATE

31B. UNITED STATES OF AMERICA
BY

31C. AWARD DATE
27-Aug-2002

SECTION B Supplies or Services and Prices

IDQ FLOORING

BID SCHEDULE BASIC YEAR- Contractor shall furnish all plant, labor, materials, and equipment to perform all work in strict accordance with the terms and conditions set forth in the contract specifications.

CLIN	QUANTITY	UNIT	UNIT PRICE	ITEM COST
0001 Removal, disposal and floor preparation as described below:				
0001a Remove and dispose of existing stretch-in type carpet, cushion and tackless strip	375	SY		
0001b Remove and dispose of existing glue-down type carpet	8250	SY		
0001c Remove and dispose of existing base (wood or synthetic), or combination base/shoe molding	18000	LF		
0001d Remove and dispose of existing vinyl composition tile	125	SY		
0001e Remove and dispose of existing sheet vinyl flooring	150	SY		
0001f Remove existing stair treads Remove and dispose of existing vinyl asbestos tile and mastic (SY per LAYER).(No increase in unit cost for working during non-duty hours will be allowed for this item.	1050	LF		
0001g This line item will always be subject to both duty and non-duty work hours)	1850	SY/LY		
0002 Install new base and trim items as described below:				
0002a Install new 4" vinyl base	4500	LF		
0002b Install new 4" rubber cove base	18075	LF		
0002c Install new 6" vinyl base	150	LF		
0002d Install new 6" rubber cove base	1372	LF		
0002e Install new commercial grade edge strips	1200	LF		
0003 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Graphic pattern	265	SY		
0004 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Solid color	265	SY		
0005 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Bold tweed pattern	50	SY		
0006 Install new glue-down plush cut pile carpet,100% nylon, Graphic pattern				
0006a 36 oz.	280	SY		

0006b 32 oz.	460	SY		
0006c 28 oz.	100	SY		
0007 Install new glue-down plush cut pile carpet,100% nylon, bold tweed pattern				
0007a 36 oz.	280	SY		
0007b 32 oz.	460	SY		
0007c 28 oz.	100	SY		
0008 Install new glue-down plush cut pile carpet,100% nylon, solid color				
0008a 36 oz.	90	SY		
0008b 32 oz.	50	SY		
0008c 28 oz.	10	SY		
0009 Install new glue-down tip shear carpet,100% nylon, 28oz., graphic pattern	390	SY		
0010 Install new glue-down tip shear carpet,100% nylon, 28oz., bold tweed pattern	140	SY		
0011 Install new glue-down tip shear carpet,100% nylon, 28oz., solid color	50	SY		
0012 Install new releasable glue-down level loop pile caper tile, 26 oz., 100% nylon, graphic pattern	1290	SY		
0013 Install new releasable glue-down level loop pile caper tile, 26 oz., 100% nylon, bold tweed pattern	50	SY		
0014 Install new releasable glue-down tip shear pile caper tile, 26 oz., 100% nylon, graphic pattern	1240	SY		
0015 Install new releasable glue-down tip shear pile caper tile, 26 oz., 100% nylon, bold tweed pattern	100	SY		
0016 Additional costs to add attached-back cushion	2000	SY		
0017 Install new separate cushion	600	SY		
0018 Install new premium vinyl composition tile	1350	SY		
0019 Install new skid-resistant vinyl composition tile	40	SY		
0020 Install new commercial grade vinyl flooring	180	SY		
0021 Install new stair treads	1070	LF		
0022 Install new risers of stairs	1000	LF		
0023 Install rubber tile (12"x12")	2690	SF		
0024 Miscellaneous Items:				
0024a Disassembly, removal, storage and reinstallation of systems furniture by certified installers	390	WRKSTN		
0024b Increase in unit cost for working during non-duty hours	940	SY		
0024c Remove, cut and replace doors	5	EA		
0024d Surface repair (I.e., patch holes, cracks, level floor within 1/8" with compound, etc.)	2500	SF		

0024e Install new leveling compound (Floor leveling in excess of 1/8")	380	GAL		
0025 Replace Flooring- Residential				
0025a Remove and dispose of existing carpeting	200	SY		
0025b Remove and dispose of existing base (Wood or Synthetic), or combination base/shoe molding	7000	LF		
0025c Remove and dispose of existing vinyl composition tile	8000	SY		
0025d Remove and dispose of existing sheet vinyl flooring	2000	SY		
0025e Remove and dispose of existing vinyl asbestos tile and mastic (SY per LAYER). (No increase in unit cost for working during non-duty hours will be allowed for this item. This line item will always be subject to both duty and non-duty work hours)	2000	SY/LY		
0026 Install new wood molding	4000	LF		
0027 Install new plush cut pile carpet, 100% nylon, patterned, 32 oz. Per sq. yd., bold tweed or solid color; including cushion	3660	SY		
0028 Install new premium vinyl composition tile	500	SY		
0029 Install new commercial grade vinyl flooring	1000	SY		
0030 Miscellaneous Items				
0030a Increase in unit cost for working during non-duty hours	200	SY		
0030b Surface repair (I.e., patch holes, cracks, level floor within 1/8" with compound, etc.)	500	SY		
0030c Install new leveling compound (Floor leveling in excess of 1/8")	10	GAL		
0030d Remove, cut and replace doors	300	EA		
0035e Rolled Rubber flooring Everroll or equal	1000	SF		
0035f Install commercial grade ceramic tile	500	SF		
0035g Remove and dispose of existing ceramic tile	500	SF		
0035h Repair seams, all carpeting	100	LF		

IDQ FLOORING

BID SCHEDULE FIRST OPTION PERIOD- Contractor shall furnish all plant, labor, materials, and equipment to perform all work in strict accordance with the terms and conditions set forth in the contract specifications.

CLIN	QUANTITY	UNIT	UNIT PRICE	ITEM COST
1001 Removal, disposal and floor preparation as described below:				
1001a Remove and dispose of existing stretch-in type carpet, cushion and tackless strip	225	SY		
1001b Remove and dispose of existing glue-down type carpet	4950	SY		
1001c Remove and dispose of existing base (wood or synthetic), or combination base/shoe molding	10800	LF		
1001d Remove and dispose of existing vinyl composition tile	75	SY		
1001e Remove and dispose of existing sheet vinyl flooring	90	SY		
1001f Remove existing stair treads Remove and dispose of existing vinyl asbestos tile and mastic (SY per LAYER).(No increase in unit cost for working during non-duty hours will be allowed for this item.	630	LF		
1001g This line item will always be subject to both duty and non-duty work hours)	1110	SY/LY		
1002 Install new base and trim items as described below:				
1002a Install new 4" vinyl base	2700	LF		
1002b Install new 4" rubber cove base	10845	LF		
1002c Install new 6" vinyl base	90	LF		
1002d Install new 6" rubber cove base	823	LF		
1002e Install new commercial grade edge strips	720	LF		
1003 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Graphic pattern	159	SY		
1004 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Solid color	159	SY		
1005 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Bold tweed pattern	30	SY		
1006 Install new glue-down plush cut pile carpet,100% nylon, Graphic pattern				
1006a 36 oz.	168	SY		
1006b 32 oz.	276	SY		

1006c 28 oz.	60	SY		
1007 Install new glue-down plush cut pile carpet,100% nylon, bold tweed pattern				
1007a 36 oz.	168	SY		
1007b 32 oz.	276	SY		
1007c 28 oz.	60	SY		
1008 Install new glue-down plush cut pile carpet,100% nylon, solid color				
1008a 36 oz.	54	SY		
1008b 32 oz.	30	SY		
1008c 28 oz.	06	SY		
1009 Install new glue-down tip shear carpet,100% nylon, 28oz., graphic pattern	234	SY		
1010 Install new glue-down tip shear carpet,100% nylon, 28oz., bold tweed pattern	84	SY		
1011 Install new glue-down tip shear carpet,100% nylon, 28oz., solid color	30	SY		
1012 Install new releasable glue-down level loop pile caper tile, 26 oz., 100% nylon, graphic pattern	774	SY		
1013 Install new releasable glue-down level loop pile caper tile, 26 oz., 100% nylon, bold tweed pattern	30	SY		
1014 Install new releasable glue-down tip shear pile caper tile, 26 oz., 100% nylon, graphic pattern	744	SY		
1015 Install new releasable glue-down tip shear pile caper tile, 26 oz., 100% nylon, bold tweed pattern	60	SY		
1016 Additional costs to add attached-back cushion	1200	SY		
1017 Install new separate cushion	360	SY		
1018 Install new premium vinyl composition tile	810	SY		
1019 Install new skid-resistant vinyl composition tile	24	SY		
1020 Install new commercial grade vinyl flooring	108	SY		
1021 Install new stair treads	642	LF		
1022 Install new risers of stairs	600	LF		
1023 Install rubber tile (12"x12")	1614	SF		
1024 Miscellaneous Items:				
1024a Disassembly, removal, storage and reinstallation of systems furniture by certified installers	234	WRKSTN		
1024b Increase in unit cost for working during non-duty hours	564	SY		
1024c Remove, cut and replace doors	3	EA		
0024d Surface repair (I.e., patch holes, cracks, level floor within 1/8" with compound, etc.)	1500	SF		
0024e Install new leveling compound (Floor				

leveling in excess of 1/8")	228	GAL		
1025 Replace Flooring- Residential				
1025a Remove and dispose of existing carpeting	120	SY		
1025b Remove and dispose of existing base (Wood or Synthetic), or combination base/shoe molding	4200	LF		
1025c Remove and dispose of existing vinyl composition tile	4800	SY		
1025d Remove and dispose of existing sheet vinyl flooring	1200	SY		
1025e Remove and dispose of existing vinyl asbestos tile and mastic (SY per LAYER). (No increase in unit cost for working during non-duty hours will be allowed for this item. This line item will always be subject to both duty and non-duty work hours)	1200	SY/LY		
1026 Install new wood molding	2400	LF		
1027 Install new plush cut pile carpet, 100% nylon, patterned, 32 oz. Per sq. yd., bold tweed or solid color; including cushion	2196	SY		
1028 Install new premium vinyl composition tile	300	SY		
1029 Install new commercial grade vinyl flooring	600	SY		
1030 Miscellaneous Items				
1030a Increase in unit cost for working during non-duty hours	120	SY		
1030b Surface repair (I.e., patch holes, cracks, level floor within 1/8" with compound, etc.)	300	SY		
1030c Install new leveling compound (Floor leveling in excess of 1/8")	06	GAL		
1030d Remove, cut and replace doors	180	EA		
1035e Rolled Rubber flooring Everroll or equal	600	SF		
1035f Install commercial grade ceramic tile	300	SF		
1035g Remove and dispose of existing ceramic tile	300	SF		
1035h Repair seams, all carpeting	60	LF		

IDQ FLOORING

BID SCHEDULE SECOND OPTION PERIOD- Contractor shall furnish all plant, labor, materials, and equipment to perform all work in strict accordance with the terms and conditions set forth in the contract specifications.

CLIN	QUANTITY	UNIT	UNIT PRICE	ITEM COST
2001 Removal, disposal and floor preparation as described below:				
2001a Remove and dispose of existing stretch-in type carpet, cushion and tackless strip	150	SY		
2001b Remove and dispose of existing glue-down type carpet	3300	SY		
2001c Remove and dispose of existing base (wood or synthetic), or combination base/shoe molding	7200	LF		
2001d Remove and dispose of existing vinyl composition tile	50	SY		
2001e Remove and dispose of existing sheet vinyl flooring	60	SY		
2001f Remove existing stair treads Remove and dispose of existing vinyl asbestos tile and mastic (SY per LAYER).(No increase in unit cost for working during non-duty hours will be allowed for this item.	420	LF		
2001g This line item will always be subject to both duty and non-duty work hours)	740	SY/LY		
2002 Install new base and trim items as described below:				
2002a Install new 4" vinyl base	1800	LF		
2002b Install new 4" rubber cove base	7230	LF		
2002c Install new 6" vinyl base	60	LF		
2002d Install new 6" rubber cove base	549	LF		
2002e Install new commercial grade edge strips	480	LF		
2003 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Graphic pattern	106	SY		
2004 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Solid color	106	SY		
2005 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Bold tweed pattern	20	SY		
2006 Install new glue-down plush cut pile carpet,100% nylon, Graphic pattern				
2006a 36 oz.	112	SY		

2006b 32 oz.	184	SY		
2006c 28 oz.	40	SY		
2007 Install new glue-down plush cut pile carpet,100% nylon, bold tweed pattern				
2007a 36 oz.	112	SY		
2007b 32 oz.	184	SY		
2007c 28 oz.	40	SY		
2008 Install new glue-down plush cut pile carpet,100% nylon, solid color				
2008a 36 oz.	36	SY		
2008b 32 oz.	20	SY		
2008c 28 oz.	04	SY		
2009 Install new glue-down tip shear carpet,100% nylon, 28oz., graphic pattern	156	SY		
2010 Install new glue-down tip shear carpet,100% nylon, 28oz., bold tweed pattern	56	SY		
2011 Install new glue-down tip shear carpet,100% nylon, 28oz., solid color	20	SY		
2012 Install new releasable glue-down level loop pile caper tile, 26 oz., 100% nylon, graphic pattern	516	SY		
2013 Install new releasable glue-down level loop pile caper tile, 26 oz., 100% nylon, bold tweed pattern	20	SY		
2014 Install new releasable glue-down tip shear pile caper tile, 26 oz., 100% nylon, graphic pattern	496	SY		
2015 Install new releasable glue-down tip shear pile caper tile, 26 oz., 100% nylon, bold tweed pattern	40	SY		
2016 Additional costs to add attached-back cushion	800	SY		
2017 Install new separate cushion	240	SY		
2018 Install new premium vinyl composition tile	540	SY		
2019 Install new skid-resistant vinyl composition tile	16	SY		
2020 Install new commercial grade vinyl flooring	72	SY		
2021 Install new stair treads	428	LF		
2022 Install new risers of stairs	400	LF		
2023 Install rubber tile (12"x12")	1076	SF		
2024 Miscellaneous Items:				
2024a Disassembly, removal, storage and reinstallation of systems furniture by certified installers	156	WRKSTN		
2024b Increase in unit cost for working during non-duty hours	376	SY		
2024c Remove, cut and replace doors	2	EA		
2024d Surface repair (I.e., patch holes, cracks, level floor within 1/8" with compound, etc.)	1000	SF		

2024e Install new leveling compound (Floor leveling in excess of 1/8")	152	GAL		
20025 Replace Flooring- Residential				
2025a Remove and dispose of existing carpeting	80	SY		
2025b Remove and dispose of existing base (Wood or Synthetic), or combination base/shoe molding	2800	LF		
2025c Remove and dispose of existing vinyl composition tile	3200	SY		
2025d Remove and dispose of existing sheet vinyl flooring	800	SY		
2025e Remove and dispose of existing vinyl asbestos tile and mastic (SY per LAYER). (No increase in unit cost for working during non-duty hours will be allowed for this item. This line item will always be subject to both duty and non-duty work hours)	800	SY/LY		
2026 Install new wood molding	1600	LF		
2027 Install new plush cut pile carpet, 100% nylon, patterned, 32 oz. Per sq. yd., bold tweed or solid color; including cushion	1464	SY		
2028 Install new premium vinyl composition tile	200	SY		
2029 Install new commercial grade vinyl flooring	400	SY		
2030 Miscellaneous Items				
2030a Increase in unit cost for working during non-duty hours	80	SY		
2030b Surface repair (I.e., patch holes, cracks, level floor within 1/8" with compound, etc.)	200	SY		
2030c Install new leveling compound (Floor leveling in excess of 1/8")	04	GAL		
2030d Remove, cut and replace doors	120	EA		
2035e Rolled Rubber flooring Everroll or equal	400	SF		
2035f Install commercial grade ceramic tile	200	SF		
2035g Remove and dispose of existing ceramic tile	200	SF		
2035h Repair seams, all carpeting	40	LF		

IDQ FLOORING

BID SCHEDULE THIRD OPTION PERIOD- Contractor shall furnish all plant, labor, materials, and equipment to perform all work in strict accordance with the terms and conditions set forth in the contract specifications.

CLIN	QUANTITY	UNIT	UNIT PRICE	ITEM COST
3001 Removal, disposal and floor preparation as described below:				
3001a Remove and dispose of existing stretch-in type carpet, cushion and tackless strip	150	SY		
3001b Remove and dispose of existing glue-down type carpet	3300	SY		
3001c Remove and dispose of existing base (wood or synthetic), or combination base/shoe molding	7200	LF		
3001d Remove and dispose of existing vinyl composition tile	50	SY		
3001e Remove and dispose of existing sheet vinyl flooring	60	SY		
3001f Remove existing stair treads Remove and dispose of existing vinyl asbestos tile and mastic (SY per LAYER).(No increase in unit cost for working during non-duty hours will be allowed for this item.	420	LF		
3001g This line item will always be subject to both duty and non-duty work hours)	740	SY/LY		
3002 Install new base and trim items as described below:				
3002a Install new 4" vinyl base	1800	LF		
3002b Install new 4" rubber cove base	7230	LF		
3002c Install new 6" vinyl base	60	LF		
3002d Install new 6" rubber cove base	549	LF		
3002e Install new commercial grade edge strips	480	LF		
3003 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Graphic pattern	106	SY		
3004 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Solid color	106	SY		
3005 Install new glue-down level loop pile carpet,100% nylon, 28 oz. Bold tweed pattern	20	SY		
3006 Install new glue-down plush cut pile carpet,100% nylon, Graphic pattern				
3006a 36 oz.	112	SY		

3006b 32 oz.	184	SY		
3006c 28 oz.	40	SY		
3007 Install new glue-down plush cut pile carpet,100% nylon, bold tweed pattern				
3007a 36 oz.	112	SY		
3007b 32 oz.	184	SY		
3007c 28 oz.	40	SY		
3008 Install new glue-down plush cut pile carpet,100% nylon, solid color				
3008a 36 oz.	36	SY		
3008b 32 oz.	20	SY		
3008c 28 oz.	04	SY		
3009 Install new glue-down tip shear carpet,100% nylon, 28oz., graphic pattern	156	SY		
3010 Install new glue-down tip shear carpet,100% nylon, 28oz., bold tweed pattern	56	SY		
3011 Install new glue-down tip shear carpet,100% nylon, 28oz., solid color	20	SY		
3012 Install new releasable glue-down level loop pile caper tile, 26 oz., 100% nylon, graphic pattern	516	SY		
3013 Install new releasable glue-down level loop pile caper tile, 26 oz., 100% nylon, bold tweed pattern	20	SY		
3014 Install new releasable glue-down tip shear pile caper tile, 26 oz., 100% nylon, graphic pattern	496	SY		
3015 Install new releasable glue-down tip shear pile caper tile, 26 oz., 100% nylon, bold tweed pattern	40	SY		
3016 Additional costs to add attached-back cushion	800	SY		
3017 Install new separate cushion	240	SY		
3018 Install new premium vinyl composition tile	540	SY		
3019 Install new skid-resistant vinyl composition tile	16	SY		
3020 Install new commercial grade vinyl flooring	72	SY		
3021 Install new stair treads	428	LF		
3022 Install new risers of stairs	400	LF		
3023 Install rubber tile (12"x12")	1076	SF		
3024 Miscellaneous Items:				
3024a Disassembly, removal, storage and reinstallation of systems furniture by certified installers	156	WRKSTN		
3024b Increase in unit cost for working during non-duty hours	376	SY		
3024c Remove, cut and replace doors	2	EA		
3024d Surface repair (I.e., patch holes, cracks, level floor within 1/8" with compound, etc.)	1000	SF		

3024e Install new leveling compound (Floor leveling in excess of 1/8")	152	GAL		
30025 Replace Flooring- Residential				
3025a Remove and dispose of existing carpeting	80	SY		
3025b Remove and dispose of existing base (Wood or Synthetic), or combination base/shoe molding	2800	LF		
3025c Remove and dispose of existing vinyl composition tile	3200	SY		
3025d Remove and dispose of existing sheet vinyl flooring	800	SY		
3025e Remove and dispose of existing vinyl asbestos tile and mastic (SY per LAYER). (No increase in unit cost for working during non-duty hours will be allowed for this item. This line item will always be subject to both duty and non-duty work hours)	800	SY/LY		
3026 Install new wood molding	1600	LF		
3027 Install new plush cut pile carpet, 100% nylon, patterned, 32 oz. Per sq. yd., bold tweed or solid color; including cushion	1464	SY		
3028 Install new premium vinyl composition tile	200	SY		
3029 Install new commercial grade vinyl flooring	400	SY		
3030 Miscellaneous Items				
3030a Increase in unit cost for working during non-duty hours	80	SY		
3030b Surface repair (I.e., patch holes, cracks, level floor within 1/8" with compound, etc.)	200	SY		
3030c Install new leveling compound (Floor leveling in excess of 1/8")	04	GAL		
3030d Remove, cut and replace doors	120	EA		
3035e Rolled Rubber flooring Everroll or equal	400	SF		
3035f Install commercial grade ceramic tile	200	SF		
3035g Remove and dispose of existing ceramic tile	200	SF		
3035h Repair seams, all carpeting	40	LF		

SECTION E Inspection and Acceptance

CLAUSES INCORPORATED BY REFERENCE:

52.246-12 Inspection of Construction

AUG 1996

5352.246-9000 **INSPECTION AND ACCEPTANCE (AETC)**
(IAW AETCFARS 5346.502)

JUL 1993

Civil Engineering is designated as the office responsible for inspecting the work while the **Contracting Officer** is responsible for final acceptance of the work.

(End of clause)

SECTION F Deliveries or Performance

CLAUSES INCORPORATED BY REFERENCE:

52.211-13 Time Extensions

SEP 2000

CLAUSES INCORPORATED BY FULL TEXT

52.211-12 LIQUIDATED DAMAGES--CONSTRUCTION (SEP 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of * for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, the resulting damage will consist of Liquidated Damages until such reasonable time as may be required for final completion of the work, together with any increased costs occasioned by the Government in completing the work.

(c) If the Government does not terminate the Contractor's right to proceed, the resulting damage will consist of Liquidated Damages until work is completed or accepted.

* \$138.20 for each day of delay for each separate call, except that if, at the time of the delinquency, the Contractor is performing concurrently on more than one call against the same delivery order, Liquidated Damages shall be assessed at 50% of the above rate for each day of delay, i.e., a delinquent call, in accordance with the foregoing, shall be configured as $\$128.20 \times 50\% = \69.10

(End of clause)

5352.211-9000 ALLOTTED WORK TIME (AETC)
(IAW AETC FARS 5311.404(b))

SEP 1996

- (a) Prior to issuance of each individual delivery order, the period of performance will be negotiated. No delivery order will be issued with a completion date of more than 120 calendar days beyond the contract expiration date regardless of the days. Working time on delivery orders are independent of each other and may run concurrently.
- (b) When a delivery order is issued, it will specify a required start date and a required delivery date computed in accordance with this paragraph. The contractor may start work at an earlier date and may complete at an earlier date than specified provided he gives the Contracting Officer two days advance notice in writing. This earlier start date must be approved by the Contracting Officer. If the earlier start date is approved, the Contracting Officer will recompute the required completion date to comply with the allotted work time.

SECTION H Special Contract Requirements

REQUIRED INSURANCE

(IAW FAR 28.306(b))

Reference FAR clause entitled "Insurance..." the Contractor shall, at its own expense, procure and thereafter maintain the following kinds of insurance with respect to performance under the contract.

- (1) Workman's Compensation and Employers Liability Insurance as required by law except that if this contract is to be performed in a state which does not require or permit private insurance, then compliance with the statutory or administrative requirements in any such state will be satisfactory. The required Workmen's Compensation insurance shall extend to cover employer's liability for accidental bodily injury or death and for occupational disease with a minimum liability limit of **\$100,000**.
- (2) General Liability Insurance. Bodily injury liability insurance, in the minimum limits of **\$500,000** per occurrence shall be required on the comprehensive form of policy.
- (3) Automobile Liability Insurance. This insurance shall be required on the comprehensive form of policy and shall provide bodily injury liability and property damage liability covering the operation of all automobiles used in connection with the performance of the contract. At least the minimum limits of **\$200,000** per person and **\$500,000** per occurrence of bodily injury and **\$20,000** per occurrence for property damage shall be required.

5352.214-9000

SMOKING IN AETC FACILITIES

JUL 1993

(IAW AETCFARS 5314.201-2(h))

Contractors are advised that the Commander has placed restrictions on the smoking of products in AETC facilities. AFI 40-102, *Tobacco Use in the Air Force*, and its AETC Supplement 1, outline the procedures used by the commander to control smoking in our facilities. Contractor employees and visitors are subject to the same restrictions as government personnel. Smoking is permitted only in designated smoking areas.

(End of clause)

SECTION I Contract Clauses

CLAUSES INCORPORATED BY REFERENCE:

52.202-1	Definitions	DEC 2001
52.202-1 Alt I	Definitions (Dec 2001) --Alternate I	MAY 2001
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	JUL 1995
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	JUN 1997
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	JUL 1995
52.211-13	Time Extensions	SEP 2000
52.211-15	Defense Priority And Allocation Requirements	SEP 1990
52.215-2	Audit and Records--Negotiation	JUN 1999
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.219-8	Utilization of Small Business Concerns	OCT 2000
52.219-14	Limitations On Subcontracting	DEC 1996
52.222-3	Convict Labor	AUG 1996
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	SEP 2000
52.222-6	Davis Bacon Act	FEB 1995
52.222-7	Withholding of Funds	FEB 1988
52.222-8	Payrolls and Basic Records	FEB 1988
52.222-9	Apprentices and Trainees	FEB 1988
52.222-10	Compliance with Copeland Act Requirements	FEB 1988
52.222-11	Subcontracts (Labor Standards)	FEB 1988
52.222-12	Contract Termination-Debarment	FEB 1988
52.222-13	Compliance with Davis-Bacon and Related Act Regulations.	FEB 1988
52.222-14	Disputes Concerning Labor Standards	FEB 1988
52.222-15	Certification of Eligibility	FEB 1988
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	APR 2002
52.222-27	Affirmative Action Compliance Requirements for Construction	FEB 1999
52.222-30	Davis-Bacon Act--Price Adjustment INone or Separately Specified Pricing Method)	DEC 2001
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era and Other Eligible Veterans	DEC 2001
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era and Other Eligible Veterans	DEC 2001
52.223-3	Hazardous Material Identification And Material Safety Data	JAN 1997
52.223-5	Pollution Prevention and Right-to-Know Information	APR 1998
52.223-6	Drug Free Workplace	MAY 2001
52.223-9	Estimate of Percentage of Recovered Material Content for EPA-Designated Products	AUG 2000
52.225-13	Restrictions on Certain Foreign Purchases	JUL 2000

52.227-1	Authorization and Consent	JUL 1995
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	AUG 1996
52.227-4	Patent Indemnity-Construction Contracts	APR 1984
52.228-1	Bid Guarantee	SEP 1996
52.228-2	Additional Bond Security	OCT 1997
52.228-5	Insurance - Work On A Government Installation	JAN 1997
52.228-11	Pledges Of Assets	FEB 1992
52.228-12	Prospective Subcontractor Requests for Bonds	OCT 1995
52.228-14	Irrevocable Letter of Credit	DEC 1999
52.228-15	Performance and Payment Bonds--Construction	JUL 2000
52.229-4	Federal, State And Local Taxes (Noncompetitive Contract)	JAN 1991
52.229-5	Taxes--Contracts Performed In U S Possessions Or Puerto Rico	APR 1984
52.232-5	Payments under Fixed-Price Construction Contracts	MAY 1997
52.232-17	Interest	JUN 1996
52.232-19	Availability Of Funds For The Next Fiscal Year	APR 1984
52.232-23	Assignment Of Claims	JAN 1986
52.232-23 Alt I	Assignment of Claims (Jan 1986) - Alternate I	APR 1984
52.232-27	Prompt Payment for Construction Contracts	FEB 2002
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	MAY 1999
52.233-1	Disputes	JUL 2002
52.233-3	Protest After Award	AUG 1996
52.236-2	Differing Site Conditions	APR 1984
52.236-3	Site Investigation and Conditions Affecting the Work	APR 1984
52.236-5	Material and Workmanship	APR 1984
52.236-6	Superintendence by the Contractor	APR 1984
52.236-7	Permits and Responsibilities	NOV 1991
52.236-8	Other Contracts	APR 1984
52.236-9	Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements	APR 1984
52.236-10	Operations and Storage Areas	APR 1984
52.236-11	Use and Possession Prior to Completion	APR 1984
52.236-12	Cleaning Up	APR 1984
52.236-13	Accident Prevention	NOV 1991
52.236-13 Alt I	Accident Prevention (Nov 1991) - Alternate I	NOV 1991
52.236-14	Availability and Use of Utility Services	APR 1984
52.236-15	Schedules for Construction Contracts	APR 1984
52.236-17	Layout of Work	APR 1984
52.236-21	Specifications and Drawings for Construction	FEB 1997
52.236-26	Preconstruction Conference	FEB 1995
52.242-13	Bankruptcy	JUL 1995
52.242-14	Suspension of Work	APR 1984
52.243-4	Changes	AUG 1987
52.244-5	Competition In Subcontracting	DEC 1996
52.246-21	Warranty of Construction	MAR 1994
52.248-3	Value Engineering-Construction	FEB 2000
52.249-2	Termination For Convenience Of The Government (Fixed-Price)	SEP 1996
52.249-2 Alt I	Termination for Convenience of the Government (Fixed-Price) (Sep 1996) - Alternate I	SEP 1996
52.249-10	Default (Fixed-Price Construction)	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense- Contract-Related Felonies	MAR 1999

252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004	Required Central Contractor Registration	NOV 2001
252.205-7000	Provisions Of Information To Cooperative Agreement Holders	DEC 1991
252.209-7000	Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate Range Nuclear Forces (INF) Treaty	NOV 1995
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	MAR 1998
252.215-7000	Pricing Adjustments	DEC 1991
252.223-7001	Hazard Warning Labels	DEC 1991
252.223-7004	Drug Free Work Force	SEP 1988
252.223-7006	Prohibition On Storage And Disposal Of Toxic And Hazardous Materials	APR 1993
252.225-7012	Preference For Certain Domestic Commodities	APR 2002
252.225-7031	Secondary Arab Boycott Of Israel	JUN 1992
252.231-7000	Supplemental Cost Principles	DEC 1991
252.236-7000	Modification Proposals-Price Breakdown	DEC 1991
252.236-7005	Airfield Safety Precautions	DEC 1991
252.242-7000	Postaward Conference	DEC 1991
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	MAR 1998

CLAUSES INCORPORATED BY FULL TEXT

5352.217-9000 Option Clause Limitation Notice. (Jul 1994)

This contract contains two option provisions, (i) Option to Extend Services, and (ii) Option to Extend the Term of the Contract (see FAR 52.217-8 and FAR 52.217-9). Either or both may be exercised unilaterally by the government. The clause entitled "Option to Extend the Term of the Contract" will not be exercised after any exercise of the "Option to Extend Services" clause.

52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to (a) commence work under this contract within 10 calendar days after receipt of the first delivery order, within 5 calendar days of subsequent delivery orders (b) prosecute the work diligently, and (c) contract shall become effective 1 Sep 02 or the date of award, whichever is later, and shall remain in effect through 31 Aug 03. The contractor will be required to prosecute the work and to complete each separate delivery order as specified in Contract Clause, Allotted Work Time (Sep 96). The time stated for completion shall include final cleanup of the premises.

(End of clause)

52.216-18 ORDERING. (OCT 1995)

(a) Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders or task orders by the individuals or activities designated in the Schedule. Such orders may be issued from 1 Sep 02, or date of award, through 31 Aug 03(Basic Period); 1 Sep 03 through 31 Aug 04 (First Option Period); 1 Sep 04 through 28 Feb 05 (Second Option Period), 1 Mar 05 through 31 Aug 05.

(b) All delivery orders or task orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order or task order and this contract, the contract shall control.

(c) If mailed, a delivery order or task order is considered "issued" when the Government deposits the order in the

mail. Orders may be issued orally, by facsimile, or by electronic commerce methods only if authorized in the Schedule.

(End of clause)

52.216-19 ORDER LIMITATIONS. (OCT 1995)

(a) Minimum order. When the Government requires supplies or services covered by this contract in an amount of less than **\$2000.00**, the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.

(b) Maximum order. The Contractor is not obligated to honor:

(1) Any order for a single item in excess of **\$500,000.00**.

(2) Any order for a combination of items in excess of **\$1,000,000.00**

(3) A series of orders from the same ordering office within **14** days that together call for quantities exceeding the limitation in subparagraph (1) or (2) above.

(c) If this is a requirements contract (i.e., includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation (FAR)), the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum-order limitations in paragraph (b) above.

(d) Notwithstanding paragraphs (b) and (c) above, the Contractor shall honor any order exceeding the maximum order limitations in paragraph (b), unless that order (or orders) is returned to the ordering office within **5** days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

(End of clause)

52.216-21 REQUIREMENTS (OCT 1995)

(a) This is a requirements contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies or services specified in the Schedule are estimates only and are not purchased by this contract. Except as this contract may otherwise provide, if the Government's requirements do not result in orders in the quantities described as "estimated" or "maximum" in the Schedule, that fact shall not constitute the basis for an equitable price adjustment.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. Subject to any limitations in the Order Limitations clause or elsewhere in this contract, the Contractor shall furnish to the Government all supplies or services specified in the Schedule and called for by orders issued in accordance with the Ordering clause. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(c) Except as this contract otherwise provides, the Government shall order from the Contractor all the supplies or services specified in the Schedule that are required to be purchased by the Government activity or activities specified in the Schedule.

(d) The Government is not required to purchase from the Contractor requirements in excess of any limit on total orders under this contract.

(e) If the Government urgently requires delivery of any quantity of an item before the earliest date that delivery may be specified under this contract, and if the Contractor will not accept an order providing for the accelerated delivery, the Government may acquire the urgently required goods or services from another source.

(f) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after 120 Calendar Days.

(End of clause)

52.217-8 OPTION TO EXTEND SERVICES (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in contract. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within 60 Days.

(End of clause)

52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor within 15 days; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 42 Months.

(End of clause)

52.225-9 BUY AMERICAN ACT—CONSTRUCTION MATERIALS (MAY 2002)

(a) Definitions. As used in this clause--

Component means an article, material, or supply incorporated directly into a construction material.

Construction material means an article, material, or supply brought to the construction site by the Contractor or a subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

Cost of components means--

(1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the end product (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or

(2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the end product.

Domestic construction material means--

- (1) An unmanufactured construction material mined or produced in the United States; or
- (2) A construction material manufactured in the United States, if the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic.

Foreign construction material means a construction material other than a domestic construction material.

United States means the 50 States and the District of Columbia, U.S. territories and possessions, Puerto Rico, the Northern Mariana Islands, and any other place subject to U.S. jurisdiction, but does not include leased bases.

(b) Domestic preference. (1) This clause implements the Buy American Act (41 U.S.C. 10a-10d) by providing a preference for domestic construction material. The Contractor shall use only domestic construction material in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.

(2) This requirement does not apply to the construction material or components listed by the Government as follows: none.

(3) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(2) of this clause if the Government determines that

(i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the requirements of the Buy American Act is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent;

(ii) The application of the restriction of the Buy American Act to a particular construction material would be impracticable or inconsistent with the public interest; or

(iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.

(c) Request for determination of inapplicability of the Buy American Act. (1)(i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(3) of this clause shall include adequate information for Government evaluation of the request, including--

(A) A description of the foreign and domestic construction materials;

(B) Unit of measure;

(C) Quantity;

(D) Price;

(E) Time of delivery or availability;

(F) Location of the construction project;

(G) Name and address of the proposed supplier; and

(H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.

(ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.

(iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).

(iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.

(2) If the Government determines after contract award that an exception to the Buy American Act applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(3)(i) of this clause.

(3) Unless the Government determines that an exception to the Buy American Act applies, use of foreign construction material is noncompliant with the Buy American Act.

(d) Data. To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

Foreign and Domestic Construction Materials Price Comparison

Construction material description	Unit of measure	Quantity	Price (dollars) \1\
Item 1			
Foreign construction material....
Domestic construction material....
Item 2			
Foreign construction material....
Domestic construction material....

Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).

List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.

Include other applicable supporting information.

(End of clause)

52.236-4 PHYSICAL DATA (APR 1984)

Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

(a) The indications of physical conditions on the drawings and in the specifications are the result of site investigations by . . . N/A. insert a description of investigational methods used, such as surveys, auger borings, core borings, test pits, probings, test tunnels).

(b) Weather conditions Average number of rain days per month

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
12	14	7	8	12	13	15	12	9	6	7	13

(c) Transportation facilities . . . N/A (insert a summary of transportation facilities providing access from the site, including information about their availability and limitations).

(d) . . . N/A. (insert other pertinent information).

(End of clause)

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://farsite.hill.af.mil>

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any [Defense Federal Acquisition Regulation](#) (48 CFR [Chapter 2](#)) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

252.219-7009 SECTION 8(A) DIRECT AWARD (MAR 2002)

(a) This contract is issued as a direct award between the contracting office and the 8(a) Contractor pursuant to the Partnership Agreement dated February 1, 2002, between the Small Business Administration (SBA) and the Department of Defense. Accordingly, the SBA, even if not identified in Section A of this contract, is the prime contractor and retains responsibility for 8(a) certification, for 8(a) eligibility determinations and related issues, and for providing counseling and assistance to the 8(a) Contractor under the 8(a) Program. The cognizant SBA district office is:

Mississippi District Office
AmSouth Bank Plaza
210 E. Capitol Street, Suite 900
Jackson, Mississippi 39201

(b) The contracting office is responsible for administering the contract and for taking any action on behalf of the Government under the terms and conditions of the contract; provided that the contracting office shall give advance notice to the SBA before it issues a final notice terminating performance, either in whole or in part, under the contract. The contracting office also shall coordinate with the SBA prior to processing any novation agreement. The contracting office may assign contract administration functions to a contract administration office.

(c) The Contractor agrees that--

(1) It will notify the Contracting Officer, simultaneous with its notification to the SBA (as required by SBA's 8(a) regulations at 13 CFR 124.308), when the owner or owners upon whom 8(a) eligibility is based plan to relinquish ownership or control of the concern. Consistent with Section 407 of Pub. L. 100-656, transfer of ownership or control shall result in termination of the contract for convenience, unless the SBA waives the requirement for termination prior to the actual relinquishing of ownership and control; and

(2) It will not subcontract the performance of any of the requirements of this contract without the prior written approval of the SBA and the Contracting Officer.

(End of Clause)

5352.223-9000 **ELIMINATION OF CLASS I OZONE DEPLETING SUBSTANCES (ODS)** MAY 1996
 (IAW AFFARS 5323.890-7)

- (a) It is Air Force policy to preserve mission readiness while minimizing dependency on Class I Ozone Depleting Substances (ODS), and their release into the environment, to help protect the Earth's stratospheric ozone layer.
- (b) Unless a specific waiver has been approved, Air Force Procurements:
 - (1) May not include any specification, drawing, or other document that requires the use of a Class I ODS in the design, manufacture, test, operation, or maintenance of any system, subsystem, item component, or process; and
 - (2) May not include any specification, standard, drawing, or other document that establishes a requirement that can only be met by the use of a Class I ODS;
- (c) For the purposes of Air Force policy, the following are Class I ODS:
 - (1) Halons: 1011, 1202, 1211, 1301, and 2402
 - (2) Cholroflouorocarbons (CFCs): CFC-11, CFC-12, CFC-13, CFC-111, CFC-112, CFC-113, CFC-114, CFC-115, CFC-211, CFC-212, CFC-213, CFC-214, CFC-215, CFC-216, and CFC-217, and the blends R-500, R-501, R-502, and R-503; and
 - (3) Other Controlled Substances: Carbon Tetrachloride, Methyl Chloroform, and Methyl Bromide
- (d) The Air Force has reviewed the requirements specified in this contract to reflect this policy. Where considered essential, specific approval has been obtained to require use of the following substances:

Substance	Application / Use	Quantity (Lbs)
<u>NONE</u>	<u>NONE</u>	<u>NONE</u>
N/A	N/A	N/A

(e) To assist the Air Force in implementing this policy, the offeror / contractor is required to notify the contracting officer if any Class I ODS not specifically listed above is required in the performance of this contract.

5352.242-9000 **CONTRACTOR ACCESS TO AIR FORCE INSTALLATIONS** MAY 2002
 (IAW AFFARS 5342.490-1)

- (a) The contractor shall obtain base identification and vehicle passes for all contractor personnel who make frequent visits to or perform work on the Air Force Installation(s) cited in the contract. Contractor personnel are required to wear or prominently display installation identification badges or contractor-furnished, contractor identification badges while visiting or performing work on the installation.
- (b) The contractor shall submit a written request on company letterhead to the contracting officer listing the following: contract number, location of the work site, start and stop dates, and names of employees and subcontractor employees needing access to the base. The letter will also specify the individual(s) authorized to sign for a request for base identification credentials or vehicle passes. The contracting officer will endorse the requests and forward it to the issuing base pass and registration office or security police for processing. When reporting to the registration office, the authorized contractor individual(s) should provide a valid driver's license, current vehicle registration, valid vehicle insurance certificate, and to obtain a vehicle pass.
- (c) During performance of the contract, the contractor shall be responsible for obtaining required identification for newly assigned personnel and for prompt return of credentials and vehicle passes for any employee who no longer requires access to the work site.
- (d) When work under this contract requires unescorted entry to controlled or restricted areas, the contractor shall comply with AFI 31-101, The Air Force Resource Protection Program, and AFI-31-501, Personnel Security Program Management, as applicable.
- (e) Upon completion or termination of the contract or expiration of the identification passes, the prime contractor shall ensure that all base identification passes issued to the employees and subcontractor employees are returned to the issuing office.
- (f) Prior to submitting an invoice for final payment, the prime contractor shall obtain a clearance from the issuing office which states all base identification passes have been turned in, accounted for, or transferred to a follow-on contract. This certification shall be submitted to the contracting officer prior to submission of the final invoice for payment.
- (g) Failure to comply with these requirements may result in withholding of final payment.

(End of clause)

252.247-7023 TRANSPORTATION OF SUPPLIES BY SEA (MAY 2002)

(a) Definitions. As used in this clause --

(1) "Components" means articles, materials, and supplies incorporated directly into end products at any level of manufacture, fabrication, or assembly by the Contractor or any subcontractor.

(2) "Department of Defense" (DoD) means the Army, Navy, Air Force, Marine Corps, and defense agencies.

(3) "Foreign flag vessel" means any vessel that is not a U.S.-flag vessel.

(4) "Ocean transportation" means any transportation aboard a ship, vessel, boat, barge, or ferry through international waters.

(5) "Subcontractor" means a supplier, materialman, distributor, or vendor at any level below the prime contractor whose contractual obligation to perform results from, or is conditioned upon, award of the prime contract and who is performing any part of the work or other requirement of the prime contract.

(6) "Supplies" means all property, except land and interests in land, that is clearly identifiable for eventual use by or owned by the DoD at the time of transportation by sea.

(i) An item is clearly identifiable for eventual use by the DoD if, for example, the contract documentation contains a reference to a DoD contract number or a military destination.

(ii) "Supplies" includes (but is not limited to) public works; buildings and facilities; ships; floating equipment and vessels of every character, type, and description, with parts, subassemblies, accessories, and equipment; machine tools; material; equipment; stores of all kinds; end items; construction materials; and components of the foregoing.

(7) "U.S.-flag vessel" means a vessel of the United States or belonging to the United States, including any vessel registered or having national status under the laws of the United States.

(b)(1) The Contractor shall use U.S.-flag vessels when transporting any supplies by sea under this contract.

(2) A subcontractor transporting supplies by sea under this contract shall use U.S.-flag vessels if--

(i) This contract is a construction contract; or

(ii) The supplies being transported are--

(A) Noncommercial items; or

(B) Commercial items that--

(1) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it contracts for f.o.b. destination shipment);

(2) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

(3) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(c) The Contractor and its subcontractors may request that the Contracting Officer authorize shipment in foreign-flag vessels, or designate available U.S.-flag vessels, if the Contractor or a subcontractor believes that --

- (1) U.S.-flag vessels are not available for timely shipment;
 - (2) The freight charges are inordinately excessive or unreasonable; or
 - (3) Freight charges are higher than charges to private persons for transportation of like goods.
- (d) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum --
- (1) Type, weight, and cube of cargo;
 - (2) Required shipping date;
 - (3) Special handling and discharge requirements;
 - (4) Loading and discharge points;
 - (5) Name of shipper and consignee;
 - (6) Prime contract number; and
 - (7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.
- (e) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Maritime Administration, Office of Cargo Preference, U.S. Department of Transportation, 400 Seventh Street SW., Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information:
- (1) Prime contract number;
 - (2) Name of vessel;
 - (3) Vessel flag of registry;
 - (4) Date of loading;
 - (5) Port of loading;
 - (6) Port of final discharge;
 - (7) Description of commodity;
 - (8) Gross weight in pounds and cubic feet if available;
 - (9) Total ocean freight in U.S. dollars; and
 - (10) Name of the steamship company.
- (f) The Contractor shall provide with its final invoice under this contract a representation that to the best of its knowledge and belief--

- (1) No ocean transportation was used in the performance of this contract;
- (2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;
- (3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or
- (4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

ITEM DESCRIPTION	CONTRACT LINE ITEMS	QUANTITY
TOTAL		

(g) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of this contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.

(h) In the award of subcontracts for the types of supplies described in paragraph (b)(2) of this clause, the Contractor shall flow down the requirements of this clause as follows:

- (1) The Contractor shall insert the substance of this clause, including this paragraph (h), in subcontracts that exceed the simplified acquisition threshold in part 2 of the Federal Acquisition Regulation.
- (2) The Contractor shall insert the substance of paragraphs (a) through (e) of this clause, and this paragraph (h), in subcontracts that are at or below the simplified acquisition threshold in part 2 of the Federal Acquisition Regulation.

(End of clause)

252.247-7024 NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA (MAR 2000)

(a) The Contractor has indicated by the response to the solicitation provision, Representation of Extent of Transportation by Sea, that it did not anticipate transporting by sea any supplies. If, however, after the award of this contract, the Contractor learns that supplies, as defined in the Transportation of Supplies by Sea clause of this contract, will be transported by sea, the Contractor --

- (1) Shall notify the Contracting Officer of that fact; and
 - (2) Hereby agrees to comply with all the terms and conditions of the Transportation of Supplies by Sea clause of this contract.
- (b) The Contractor shall include this clause; including this paragraph (b), revised as necessary to reflect the relationship of the contracting parties--
- (1) In all subcontracts under this contract, if this contract is a construction contract; or
 - (2) If this contract is not a construction contract, in all subcontracts under this contract that are for--

(i) Noncommercial items; or

(ii) Commercial items that--

(A) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);

(B) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

(C) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(End of clause)

SECTION J List of Documents, Exhibits and Other Attachments

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(2) General Wage Decision MS020018 (Residential)	02	MAR-01-2002
(3) General Wage Decision MS020057 (Building)	02	MAR-01-2002
(4) Amendment 0001	02	AUG-22-2002
(5) D.N.P. Letter	01	AUG-22-2002

SPECIFICATIONS
FOR
KEESLER AIRFORCE BASE. MISSISSIPPI

PROJECT MAHG 02-2205
REPLACE FLOORING

PREPARED: 10 JUNE 2002
KEESLER AIR FORCE BASE CIVIL ENGINEER

PROJECT: MAHG-02-2205
FLOORING REPLACEMENT

INDEX

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SECTION 01010

STATEMENT OF WORK

PART 1 GENERAL

1.1 SCOPE:

The work to be performed under this contract shall consist of providing all plant, labor, transportation, and materials necessary to remove existing flooring (including the removal of VAT I VCT, Mastic, Sheet Vinyl, Vinyl Base, Rubber Base, Wood Base, Wood Shoe Molding, Carpet, and Carpet Tiles) (including the removal of any asbestos containing materials) and installing new VCT, Sheet Vinyl, Vinyl Base, Rubber Base, Carpet and Carpet Tiles as required. Any combination of removal and installation will be possible. The contractor shall be responsible for removal and replacement of furniture and furnishings. Work areas will be occupied during the removal and installation. The contractor must coordinate the work with the occupants to minimize the down time to the occupants. All work shall be accomplished in strict accordance with the plans and specifications subject to the terms and conditions of the contract.

1.2 DRAWINGS:

Drawings shall be furnished by the government when deemed necessary. The drawings are made to a small scale necessitating the omission of minor details and are included for general information. Drawings available are as-recorded file construction drawings of each facility.

1.3 GENERAL

1.3.1 Working Conditions:

1.3.1.1 Work shall be performed in such a manner as to cause minimum disruption to the regular routine of the occupants in the area.

1.3.1.2 Care shall be taken to minimize the spread of dust, debris and flying particles. At all times during the course of construction the premises shall be kept free from accumulations of waste material or debris.

1.3.1.3 All debris generated as a result of this contract shall become the property of the Contractor unless specifically excepted in the specifications and shall be disposed of by the Contractor outside the limits of Keesler AFB in accordance with local, state and federal environmental laws and regulations..

1.3.2 Working Conditions:

(a) The areas will be occupied throughout the duration of this contract. Work shall be performed in such a manner as to cause minimum disruption to the regular routine of the areas.

(b) Working Hours: Normal base working hours follow the Compressed Work Schedule. For the purposes of this contract, the normal base working hours are as described in the table below. The two week cycle is repetitious with the non work Friday coinciding with the normal Federal civilian pay day.

Sunday -non work day

Monday- 7:00 a.m. to 4:45 p.m. Tuesday- 7:00 a.m. to 4:45 p.m.

Wednesday- 7:00 a.m. to 4:45 p.m. Thursday- 7:00 a.m. to 4:45 p.m. Friday -non work day

Saturday -non work day

Sunday -non work day

Monday -7:00 a.m. to 4:45 p.m. Tuesday- 7:00 a.m. to 4:45 p.m. Wednesday- 7:00 a.m. to 4:45 p.m. Thursday- 7:00 a.m. to 4:45 p.m. Friday- 7:00 a.m. to 3:45 p.m. Saturday -non work day

The following are legal holidays:

New Year's Day

Martin Luther King, Jr's Birthday -Third Monday in January President's Day -Third Monday in February Memorial Day -

Last Monday in May Independence Day

Labor Day -Second Monday in September

Columbus Day -Second Monday in October Veteran's Day

Thanksgiving Day Christmas Day

No work shall be accomplished outside of the normal base working hours, on weekends or on federal holidays without the prior written approval of the Contracting Officer. Approval shall be requested at least thirty days in advance of the unusual hours. However, the Contracting Officer may require certain work to be performed outside of normal working hours as special requirements dictate. Examples of these special conditions include utility outages, construction that disrupts critical activities of Keesler, etc.

(c) Care shall be taken to minimize the spread of dust and flying particles. At all times during the course of construction, the premises shall be kept free from accumulations of waste materials or debris.

1.3.3 Government Owned Facilities:

1.3.3.1 Government structures, facilities, or property, including but not limited to interior finishes such as walls, door, and ceilings, and exterior items such as lawns, damaged or removed due to required construction work shall be patched, repaired or replaced, and left in their original state of repair by the General Contractor to the satisfaction of the Contracting Officer.

1.3.3.2 The contractor shall be responsible for removing, protecting and replacing in original condition and location of all furnishings, furniture and other government-owned items required to execute the work. Computer work stations and systems furniture will be paid for by the rate in accordance with the bid schedule. There will be no other reimbursement to the contractor for removing and replacing government items outlined.

1.3.4 Specialty Work:

Removal, relocation, and/or replacement of electrical, mechanical, plumbing, computers, asbestos abatement, or other specialty items shall be accomplished by workmen skilled in the trade involved. The disassembly, moving, storage and re-installation of systems furniture shall be accomplished by only workers certified for installation of systems furniture by the manufacturer. If the contractor encounters any unforeseen asbestos the contractor shall notify the contracting officer and await direction before abating the asbestos. All removal, relocation, and/or replacement of computer equipment, shall be accomplished by a qualified computer technician.

1.3.4.1 Sketches/notes must be recorded of existing computer equipment placement prior to the removal and relocation of the computer equipment. All necessary actions must be made by the contractor to insure proper reinstallation of computer equipment.

1.3.4.2 Sketches notes must be recorded of existing facilities, including system furniture, prior to removal and relocation. All necessary actions must be made by the contractor to insure proper reinstallation.

1.3.5 Schedule of Job:

Responsibility for timely installation of all materials rests solely with the General Contractor, who shall maintain coordination at all times.

1.3.6 Material Delivery:

For the purpose of material delivery I the Contractor shall have a representative present to receive shipments.

1.3.7 Cleaning Up:

Those Contractors and/or Subcontractors that are responsible for execution of individual sections of work shall also be responsible for:

1.3.7.1 Removal of all dunnage, refuse and debris from the site resulting from their operations.

This shall be done at the close of each work day and shall include Cleaning droppings, etc., from finished work.

1.3.7.2 General Contractor shall at the close of each day of work, execute cleaning work, so no hazards are left in general construction area.

HAZARDOUS MATERIALS:

The following hazardous materials are required for this contract. Because of their potentially dangerous nature, the Contractor shall take adequate precautions to protect personnel and property from injury or damage from these and all other hazardous materials used on this contract. Adhesives

SUBMITTALS:

Within **45** days after receiving the contract award and before starting material installation, the Contractor shall submit to Contracts for approval, four certified copies of each of the submittals for the following items:

SECTION 01010 02050 02080 09650 09675 09680 09690

SECTION	PARAGRAPH DESCRIPTION
01010	1.6 Schedule of Work
02050	1.6 Procedures, descriptions, work plans.
02080	1.4 Procedures. descriptions. work plans, etc.
09650	1.3 Samples, data sheets and test reports.
09675	1.3 Samples, installation procedures, certificates of compliance, O&M manuals
09680	1.3 Samples, installation procedures. certificates of compliance.
09690	1.3 Drawings. manufacturer's instructions, samples, statements of qualifications, test reports, certificates of compliance, O&M manuals

1.5.1 In every instance where licensing and certification of individuals practicing a specific trade is required by these specifications, the contractor shall submit proof of licensing or certification of those individuals to the contracting officer prior to award of contract. The Code of Federal regulations, 29 CFR 1926.58 (k) (3), requires all asbestos abatement workers to be trained and updated annually in accordance with the EPA standards for training asbestos abatement workers. Therefore, it is the contracting officer's responsibility to verify that all of the asbestos abatement workers are certified as being trained in accordance with the EPA standards.

1.6 PROGRESS OF WORK:

The Contractor shall schedule his work so that all work in a given area, including, but not limited to, removal of furnishings, demolition, preparation, material installation, relocation of furnishings and cleanup, shall be accomplished in one work day. The contractor shall submit to Base Contracts, for approval, three (3) copies of a proposed Schedule of Work each consisting of a list of rooms to be completed on a daily basis no less than ten days prior to starting.

1.7 MEASUREMENT AND PAYMENT

All work performed under this contract shall be measured and paid at the corresponding unit of measure in the bid schedule. Measurement will be the net area or quality of installed work. Payment will constitute full compensation for furnishing all labor, materials, and equipment. Items of work required in the execution of the contract and included in this specification, but not included in the bid schedule, shall be provided at no additional cost to the government.

1.8 EXCLUSIONS:

The contractor shall not necessarily be awarded delivery orders for flooring that constitutes an integral part of another Contract nor shall he be entitled to orders for work performed by government forces.

1.9 COMPLIANCE WITH EXECUTIVE ORDERS AND AGENCY GUIDELINES:

The contractor shall comply with Executive Order 13101, Greening the Government through Waste Prevention, Recycling and Federal Acquisition. This means that if there is a product called for in the performance of this contract for which a product on the market with recycled content exists, the contractor shall furnish the recycled product, so long as it meets the quality standards in the specifications at a reasonable price (id est The price of the recycled product is not more than the cost of the non recycled item). The contractor shall identify recycled products approved for use to the Contracting Officer once the material submittals have been approved and will comply with the reporting procedures in FAR 52.223-9.

PART 2- MATERIAL NOT APPLICABLE

PART 3- EXECUTION NOT APPLICABLE

END OF SECTION

SECTION 02050

DEMOLITION

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS:

The work includes demolition or removal of all construction indicated or specified. All materials resulting from demolition work, except as indicated or specified otherwise, shall become the property of the Contractor and shall be removed from the limits of Government property. Rubbish and debris shall be removed from Government property daily unless otherwise directed so as to not allow accumulation inside or outside the building. Materials that cannot be removed daily shall be stored in areas specified by the Contracting Officer.

1.2 DUST CONTROL:

The amount of dust resulting from demolition shall be controlled to prevent the spread of dust to occupied portions of the building and to avoid creation of a nuisance in the surrounding area. Use of water will not be permitted when it will result in, or create, hazardous or objectionable conditions such as but not limited to ice, flooding and pollution.

1.3 PROTECTION:

1.3.1 Protection of Existing Work:

Before beginning any cutting or demolition work, the Contractor shall carefully survey the existing work and examine the drawings or specifications to determine the extent of the work. The Contractor shall take all necessary precautions to insure against damage to existing work or furnishings to remain in place, to be reused, or to remain the property of the Government, and any damage to such work or furnishings shall be repaired or replaced as approved by the Contracting Officer at no additional cost to the Government. The Contractor shall carefully coordinate the work of this section with all other work and construct and maintain shoring, bracing and supports, as required. The Contractor shall insure that structural elements are not overloaded and be responsible for increasing structural supports or adding new supports as may be required as a result of any cutting, removal, or demolition work performed under any part of this Contract.

1.3.2 Protection of Buildings from the Weather:

The interior of the building and all materials and equipment shall be protected from the weather at all times.

1.3.3 Environmental Protection:

All work and Contractor operations shall comply with the requirements of all applicable local, Mississippi OQE, and EPA regulations.

1.4 BURNING:

The use of burning at the project site for the disposal of refuse and debris will not be permitted.

1.5 AVAILABILITY OF WORK AREAS:

Areas in which demolition work is to be accomplished will be available in accordance with the approved Schedule of Work.

1.6 SUBMITTALS:

The procedures proposed for the accomplishment of demolition work shall be submitted for approval. The procedures shall provide for safe conduct of the work, removal and disposition of materials, protection of property which is to remain undisturbed and coordination with other work in progress. The procedures shall include a detailed description of the methods and equipment to be used for each operation, and the sequence of operations.

PART 2- MATERIALS (NOT USED)

PART 3- EXECUTION

3.1 EXISTING FACILITIES:

3.1.1 Base:

Existing base and/or shoe molding shall be carefully removed so that no damage to the adjacent wall will occur. The contractor shall be responsible for repairing any damage resulting from improper removal of base and/or shoe molding.

3.1.2 Flooring:

3.1.2.1 Carpet:

Existing carpet shall be carefully removed from the floor and placed in either a bag (or rolled in polyethylene sheets) or container for removal from the building. This will reduce the amount of debris and dust resulting from demolition of the carpet. The contractor shall also be responsible for cleaning all areas which become soiled as a result of either removing or transporting of any materials. The contractor shall also be responsible for the removal of all glue if necessary or tackles strips or existing resilient flooring and also responsible for the floor preparation recommended by the carpet manufacturer. In the event the contractor soils or damages an area, the contractor shall not be allowed to continue the project until the area is repaired and/or cleaned to the satisfaction of the contracting officer. The contractor shall not be entitled to any additional time or compensation as a result of this action. If the contractor encounters any resilient floor which is suspect of containing asbestos (such as 9" x 9" vinyl asbestos tile) that is not indicated on the drawings or in the specifications, the contractor shall notify the contracting officer in writing and shall not proceed with the removal of such materials. Any delays caused by the testing or removal of asbestos shall not be included as part of the contract time. The contractor shall proceed with the next scheduled area of work without any additional compensation for the delay unless the delay directly prevents the contractor from-completing the project as scheduled.

3.1.2.2 Resilient Flooring:

All resilient flooring shall be carefully removed and placed in containers prior to moving from area. The floor shall be prepared for the new flooring in accordance with the manufacturer's recommendations. In the event the contractor soils or damages an area, the contractor shall not be allowed to continue the project until the area is repaired and/or cleaned to the satisfaction of the contracting officer. The contractor shall not be entitled to any additional time or compensation as a result of this action. If the contractor encounters any resilient floor which is suspect of containing asbestos (such as 9" x 9" vinyl asbestos tile) that is not indicated on the drawings or in the specifications, the contractor shall notify the contracting officer in writing and shall not proceed with the removal of such materials. Any delays caused by the testing or removal of asbestos shall not be included as part of the contract time. The contractor shall proceed with the next scheduled area of work without any additional compensation for the delay unless the delay directly prevents the contractor from completing the project as scheduled.

3.2 DISPOSITION OF MATERIAL:

3.2.1 Title to Materials:

Title to all materials to be demolished is vested in the Contractor upon release of an area for demolition. The Government will not be responsible for the condition, loss or damage to such property after notice to proceed.

3.2.2 Material for Contractor Salvage: There will be no Contractor Salvaged materials in this section.

3.2.3 Unsalvageable Materials:

3.2.3 All unsalvageable materials shall be disposed of in accordance with all federal, state and local regulations and in an area located off Keesler AFB.

3.2.4 Materials for Government Salvage:

3.2.4.1 Property of the Government:

There will be no Government Salvaged materials in this project.

3.2.4.2 Damaged Items:

Items damaged during removal or storage shall be repaired or replaced to match existing. This shall include any and all furnishings to be removed and replaced during this project.

3.2.4.3 Property of the Government to remain:

The contractor shall be responsible for removing and replacing of all property of the government which is to remain such as desks, chairs, and other items found in the work areas.

3.3 CLEAN-UP:

3.3 Debris and Rubbish:

Debris and rubbish shall be removed from the project area on a daily basis.

3.3.2 Debris Control:

Debris shall be removed and transported in a manner as to prevent spillage on streets or adjacent areas.

3.3.3 Regulations:

State & Local regulations regarding hauling and disposal apply.

END OF SECTION

SECTION 02080

ASBESTOS ABATEMENT

PART 1. -GENERAL

1.1 Bidders shall be certified and accredited as required by the federal, state, and local regulations for the purpose of removal of materials composed of asbestos-containing materials. Bidders shall comply with Mississippi Code Annotated 37-138-1 through 37-138-31, 29 CFR 1926.58, 40 CFR PART 61 and the Air Force Occupational Safety and Health Program (AFOSH).

1.1.1 Bidders shall demonstrate prior experience on asbestos abatement projects of similar nature and scope through the submission of letters of reference including the name, address and telephone number of contact person (someone specifically familiar with the Contractor's work) for at least three (3) previous users of service. Include descriptions of projects, locations, and records of all air monitoring data that were generated during the project.

1.1.2 Bidders shall submit a notarized statement, signed by an officer of the company containing the following information:

1.1.3 A record of any citations issued to this company or any other companies with which any of the company officers have been associated with by Federal, State or Local regulatory agencies relating to asbestos abatement activity. Include projects, dates, and resolutions.

1.1.4 A list of penalties incurred through non-compliance with asbestos abatement project specifications including liquidated damages, overruns in scheduled time limitations and resolutions.

1.1.5 Situations in which an asbestos related contract has been terminated including projects, dates and reasons for termination.

1.1.6 A listing of any asbestos-related legal proceedings/claims in which the Contractor or employees scheduled to participate in this project have participated or are currently involved. Include descriptions of role, issue and resolution to date.

1.2 DEFINITIONS:

1.2.1 Abatement- Procedures to control fiber release from asbestos-containing materials. Includes removal, encapsulation, enclosure, repair, demolition and renovation activities.

1.2.2 ACGIH .American Conference of Governmental Industrial Hygienists 6500 Glenway Avenue Building 0.5 Cincinnati, Ohio 45211

1.2.3 AIHA -American Industrial Hygiene Association 475 Wolf Ledges Parkway Akron, Ohio 44311

1.2.4 Airlock -A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area, typically consisting of two curtained doorways separated by a distance of at least 3 feet such that one passes through one doorway into the airlock, allowing the doorway sheeting to overlap and close off the opening before proceeding through the second doorway, thereby preventing flow-through contamination.

1.2.5 Air monitoring -The process of measuring the fiber content of a known volume of air collected during a specific period of time. The procedure normally utilized for asbestos follows the NIOSH Standard Analytical Method for Asbestos in Air Method 7400 (Phase Contrast Microscopy). For

clearance air monitoring, electron microscopy methods may be utilized for lower delectability and specific fiber identification.

1.2.6 Air Sampling Professional -The professional contracted to supervise and/or conduct air monitoring and analysis schemes. Supervision of air sampling and evaluation of results should be performed by an individual certified in the Comprehensive Practice of Industrial Hygiene (C.I.H.) and having specialized experience in air sampling for asbestos. Other acceptable Air Sampling Professionals include Environmental Engineers, Architects, chemists and Environmental Scientists or others with equivalent experience in asbestos air monitoring. This individual shall not be affiliated in any way other than through this contract with the Contractor performing the abatement work.

1.2.7 Amended water- Water to which a surfactant has been added.

1.2.8 ANSI -American National Standards Institute 1430 Broadway
New York, New York 10018

1.2.9 Asbestos means the asbestiform varieties of serpentine {chrysotile), amphibole {crocidolite), cummingtonite - grunerite {amosite), anthophyllite, and actinolite, and tremolite.

1.2.10 Asbestos Containing Material (ACM)-Material composed of asbestos of any type and in an amount greater than 1% by weight, either alone or mixed with other fibrous or non- fibrous materials.

1.2.11 Asbestos containing waste material -asbestos containing material or asbestos contaminated objects requiring disposal.

1.2.12 Asbestos Project Manager -An individual qualified by virtue of experience and education, designated as the Government's representative and responsible for overseeing the asbestos abatement project.

1.2.13 ASTM -American Society for Testing and Materials 1916 Race Street
Philadelphia, PA. 19103

1.2.14 Authorized visitor -The Governments designated representatives and any representative of a regulatory or other agency having jurisdiction over the project.

1.2.15 Certified Industrial Hygienist -(CIH) -An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene (See Section 1.2.3 for address).

1.2.16 Clean room -An uncontaminated area or room which is a part of the worker decontamination enclosure system with provisions for storage of worker's street clothes and clean protective equipment.

1.2.17 Contractor- The individual and/or business with which the Government arranges to perform the asbestos abatement. The Contractor is responsible for the proper completion of project activities in accordance with these contract specifications even where a subcontractor has been retained to perform the actual abatement.

1.2.18 Curtained doorway -A device to allow ingress or egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway and securing the vertical edge of the other sheet along the opposite vertical side of the doorway. Other effective designs are permissible.

1.2.19 Decontamination enclosure system -A series of connected, rooms, separated from the work area and from each other by air locks, for the decontamination of workers and equipment.

1.2.20 Demolition -The wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations.

1.2.21 Encapsulate -A liquid material which can be applied to asbestos containing material which controls the possible release of asbestos fibers from the material either by creating a membrane over the surface (bridging encapsulate) or by penetrating into the material and binding its components together (penetrating encapsulate).

1.2.22 Encapsulation -The application of an encapsulant to asbestos containing materials to control the release of asbestos fibers into the air.

1.2.23 Enclosure -The construction of an air-tight, impermeable, permanent barrier around asbestos containing material to control the release of asbestos fibers into the air.

1.2.24 EPA- U.S. Environmental Protection Agency 401 M Street S.W.
Washington. D.C. 20460

1.2.25 Equipment decontamination enclosure system -That portion of a decontamination enclosure system designed for controlled transfer of materials and equipment into or out of the work area, typically consisting of a washroom and holding area.

1.2.26 Equipment room -A contaminated area or room which is part of the worker decontamination enclosure system with provisions for storage of contaminated clothing and equipment.

1.2.27 Facility -Any institutional, commercial or industrial structure, installation or building.

1.2.28 Facility component -Any pipe, duct, boiler, tank, reactor, turbine or furnace at or in a facility or any structural member of a facility.

1.2.29 Fixed object -A piece of equipment or furniture in the work area which cannot be removed from the work area.

1.2.30 Friable asbestos -Asbestos containing material which can be crumbled to dust, when dry I under hand pressure.

1.2.31 Glovebag technique -A method with limited applications for removing small amounts of friable asbestos-containing material from HVAC ducts, short piping runs, valves, joints, elbows, and other non-planar surfaces in a non-contained (plasticized) work area. -The glovebag assembly is a manufactured or fabricated device consisting of a glovebag (typically constructed of 6 mil transparent polyethylene or polyvinylchloride plastic), two inward projecting longsleeves, an internal tool pouch, and an attached, labeled receptacle for asbestos waste. The glovebag is constructed and installed in such a manner that it surrounds the object or material to be removed and contains all asbestos fibers released during the process. All workers who are permitted to use the glovebag technique must be highly trained, experienced and skilled in this method.

1.2.32 HVAC -Heating, ventilation and air conditioning system.

1.2.33 HEPA filter -A high efficiency particulate air filter capable of removing particles greater than 0.3 microns in diameter with 99.97% efficiency.

1.2.34 HEPA vacuum -A vacuum system equipped with HEPA filtration.

1.2.35 Holding area -A chamber in the equipment decontamination enclosure located between the washroom and an uncontaminated area. The holding area comprises an air lock.

1.2.36 Movable object -A piece of equipment or furniture in the work area which can be removed from the work area.

1.2.37 Negative pressure ventilation system -A portable exhaust system equipped with HEPA filtration and capable of maintaining a constant low velocity air flow into contaminated areas from adjacent uncontaminated areas.

1.2.38 NESHAPS -The National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) .

1.2.39 NIOSH -The National Institute for Occupational Safety and Health

**CDC- NIOSH
Building J N.E. Room 3007
Atlanta, Ga. 30333**

1.2.40 OSHA -The Occupational Safety and Health Administration

**200 Constitution Avenue
Washington, D.C. 20210**

1.2.41 Outside air- The air outside buildings and structures.

1.2.42 Plasticize -To cover floors and walls with plastic sheeting as herein specified.

1.2.43 Prior experience -Experience required of the contractor on asbestos projects of similar nature and scope to insure capability of performing the asbestos abatement in a satisfactory manner. Similarities shall be in areas related to material composition, project size, abatement methods required, number of employees and the engineering, work practice and personal protection controls required.

1.2.44 Removal -The stripping of any asbestos containing materials from surfaces or components of a facility.

1.2.45 Renovation -Altering in any way one or more facility components. Operations in which load-supporting structural members are wrecked or taken out are excluded.

1.2.46 Shower room -A room between the clean room and the equipment room in the worker decontamination enclosure with hot and cold or warm running water controllable at the tap and suitably arranged for complete showering during decontamination.

1.2.47 Staging area -Either the holding area or some area near the waste transfer airlock where containerized asbestos waste has been placed prior to removal from the work area.

1.2.48 Strip -To take off friable asbestos materials from any part of a facility.

1.2.49 Structural member- Any load-supporting member of a facility, such as beams and load- supporting walls or any non-load-supporting member, such as ceilings and non-load-supporting walls.

1.2.50 Surfactant -A chemical wetting agent added to water to improve penetration.

1.2.51 Visible emissions -Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

1.2.52 Waste transfer airlock -A decontamination system utilized for transferring containerized waste from inside to outside of the work area.

1.2.53 Wet cleaning -The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with water and afterwards thoroughly decontaminated or disposed of as asbestos contaminated waste.

1.2.54 Work area -Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained work area is a work area which has been sealed, plasticized, and equipped with a decontamination enclosure system.. A non-contained work area is an isolated or controlled-access work area which has not been plasticized nor equipped with a decontamination enclosure system.

1.2.55 Worker decontamination enclosure -A decontamination system consisting of a clean room, a shower room, and an equipment room separated from each other and from the work area with airlocks and contained doorways. This system is used for all worker events and exists in the work area and for equipment and waste pass out for small jobs.

1.2.56 Competent Person -A person who is capable of identifying existing asbestos, tremolite, anthophyllite, or actinolite hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR 1926.32(f).

1.2.57 Background Level- The asbestos fiber concentration in the ambient air, measured in fibers per cubic centimeter, that is established in the work area prior to performing any pre-abatement site clean-up. In the event of a fiber release episode, as may be caused from recently damaged friable asbestos, (meaning within the previous two days) the background sample must be taken in an area through which air must pass to enter the abatement work area.

1.3 APPLICABLE STANDARDS AND GUIDELINES:

1.3.1 General requirements:

1.3.1.1 All work under this contract shall be done in strict accordance with all applicable Federal, State and Local regulations, standards and codes governing asbestos abatement and any other trade work done in conjunction with the abatement.

1.3.1.2 Where conflict among the requirements or with these specifications exists the most stringent requirements shall be utilized. The most recent edition of any relevant regulation, standard, document, or code shall be in effect.

1.3.1.3 Copies of all standards, regulations, codes and other applicable documents, including this specification shall be available at the worksite in the clean change area of the worker decontamination system.

1.3.2 Specific requirements:

1.3.2.1 Occupational Safety and Health Administration (OSHA):

1.3.2.1.1 Title 29 Code of Federal Regulations Section 1910.1001 -General Industry Standard For Asbestos (Change 50, 30 Dec. 1988).

1.3.2.1.2 Title 29 Code of Federal Regulations Section 1910.134 General Industry Standard For Respiratory Protection (Change 50, 30 Dec. 1988).

1.3.2.1.3 Title 29 Code of Federal Regulations Section 1926 Construction Industry (Rev. 1987).

1.3.2.1.4 Title 29 Code of Federal Regulations Section 1910.2 Access to Employee Exposure and Medical Records (Change 50, 30 Dec. 1988).

1.3.2.1.5 Title 29 Code of Federal Regulations Section 1910.1200 Hazard Communication (Change 50, 30 Dec. 1988).

1.3.2.2 Environmental Protection Agency (EPA):

1.3.2.2.1 Title 40 Code of Federal Regulations Part 61 Subparts A and M (Revised Subpart B) - National Emission Standard for Asbestos (Jul. 1988).

1.3.2.3 American National Standards Institute, Inc. (ANSI) Standards:

Z9.2 1979 Fundamentals Governing the Design and Operation of Local Exhaust Systems

Z41 1983 Personnel Protection -Protective Footwear

Z87.1 1979 Practice for Occupational and Educational Eye and Face Protection

Z89.1 1986 Personnel Protection -Protective Headwear for Industrial Workers Requirements

1.3.2.4 American Society for Testing and Materials (ASTM) Publications:

D1331-89 Standard Test Method for Surface and Interfacial Tension of Solutions of Surface-Active Agents(Rev. 1986)

1.3.2.4 Compressed Gas Association (CGA):

1989 Commodity Specification for Air Third Edition

1.3.2.5 State of Mississippi:

MS Code Ann. Regulations for the Accreditation and Certification of Asbestos Abatement Personnel.

1.4 SUBMITTALS AND NOTICES:

1.4.1 Contractor shall

1.4.1.1 Prior to Commencement of Work:

1.4.1.1.1 Should abatement projects in a facility being demolished or renovated be greater than 260 linear feet of pipe insulation or 160 square feet of sprayed, troweled or otherwise applied material or covering or composing building structures or components, send written notification in accordance with 40 CFR Part 61.146 of Subpart M, to the appropriate State or Federal air pollution control agency responsible for the enforcement of the National Emission Standard for Asbestos at least ten (10) days prior to the commencement of an on-site project activity. Provide the Contracting Officer with a copy of the notice.

- 1.4.1.1.2 Should abatement projects in a facility being demolished or renovated be less than 260 linear feet of pipe insulation or 160 square feet of sprayed, troweled or otherwise applied material or covering or composing building structures or components, send written notification in accordance with 40 CFR Part 61.146 of Subpart M, to the appropriate State or Federal air pollution control agency responsible for the enforcement of the National Emission Standard for Asbestos at least twenty (20) days prior to the commencement of an on-site project activity. Provide the Contracting Officer with a copy of the notice.
- 1.4.1.1.3 Submit proof satisfactory to the Contracting Officer that required permits, site location and arrangements for transport and disposal of asbestos containing waste materials have been made. Obtain and submit a copy of handling procedures and list of protective equipment utilized for asbestos disposal at the landfill, signed by the landfill Owner.
- 1.4.1.1.4 Submit documentation satisfactory to the Contracting Officer that the Contractor's employees, including foremen, supervisors and any other company personnel or agents who may be exposed to airborne asbestos fibers or who may be responsible for any aspects of abatement activities, have received adequate training that includes, at a minimum, information in Part 4 Section 4.1 of this document.
- 1.4.1.1.5 Submit documentation from a physician that all employees or agents who may be exposed to airborne asbestos in excess of background level have been provided with an opportunity to be medically monitored to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. In addition, document that personnel have received medical monitoring as required in OSHA 29 CFR 1910.1001 (b). The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures humidity, chemical contaminants) that may impact on the employees ability to perform work activities.
- 1.4.1.1.6 Submit to the Government, shop drawings for layout and construction of decontamination enclosure systems and barriers for isolation of the work area as detailed in this specification and required by applicable regulations.
- 1.4.1.1.7 With the Government representatives, inspect the premises wherein all abatement and abatement related activities will occur and submit a statement signed by both, agreeing on building and fixture condition prior to the commencement of work.
- 1.4.1.1.8 Submit manufacturer's certification that HEPA vacuums, negative pressure ventilation units and other local exhaust ventilation equipment conform to ANSI Z9.2.
- 1.4.1.1.9 When rental equipment is to be used in abatement areas or to transport asbestos contaminated waste, a written notification concerning intended use of the rental equipment must be provided to the rental agency with a copy submitted to the Contracting Officer.
- 1.4.1.1.10 Document NIOSH approvals for all respiratory protective devices utilized on site. Include manufacturer certification of HEPA filtration capabilities for all cartridges and filters. This data may be obtained through the NIOSH "List of Certified Equipment", the manufacturer, or local OSHA office.
- 1.4.1.1.11 Submit pre-abatement air sampling results. Include location of samples, name of Air Sampling Professional, equipment, and methods utilized for sampling and analysis.
- 1.4.1.1.12 Submit documentation of respirator fit-testing for all Contractor employees and agents who must enter the work area. This fit-testing shall be in accordance with qualitative procedures as detailed in the OSHA Lead Standard 29 CFR 1910.1025 Appendix D Qualitative Fit Test Protocol or be quantitative in nature.

1.4.1.2 During Abatement Activities:

1.4.1.2.1 Submit daily job progress reports detailing abatement activities. Include review of progress with respect to previously established milestones and schedules, major problems and action taken, injury reports, equipment breakdown and bulk material and air sampling results conducted by Contractor's Air Sampling Professional.

1.4.1.2.2 Submit copies of all transport manifests, trip tickets and disposal receipts for all asbestos waste materials removed from the work area during the abatement process to the Environmental Coordinator.

1.4.1.2.3 Submit daily copies of worksite entry logbooks with information on worker and visitor access.

1.4.1.2.4 Submit logs documenting filter changes on respirators, **HEPA** vacuums, negative pressure ventilation units, and other engineering controls.

1.4.1.2.5 Submit results of bulk material analysis and air sampling data collected during the course of the abatement including OSHA, compliance air monitoring results.

1.4.1.2.6 Submit results of materials testing conducted during the abatement for purposes of utilization during abatement activities (e.g. testing of encapsulant for depth of penetration, testing of substitute materials for adherence to encapsulated surfaces)

1.4.1.2.7 Post in the clean room area of the worker decontamination enclosure a list containing the names, addresses, and telephone numbers of the Contractor, the Contracting Officer, the Asbestos Project Officer, the General Superintendent, the Air Sampling Professionals, the testing laboratory and any other personnel who may be required to assist during abatement activities.

1.4.1.2.6 Submit names and certificates of newly hired employees that are brought in after abatement begins.

1.5 SITE SECURITY:

1.5.1 The work area is to be restricted only to authorized, trained, and protected personnel. These may include the Contractor's employees, employees of Subcontractors, Government employees and representatives, State and local inspectors and any other designated individuals. A list of authorized personnel shall be established prior to job start and posted in the clean room of the worker decontamination facility.

1.5.2 Entry into the work area by unauthorized individuals shall be reported immediately to the Contracting Officer by the Contractor.

1.5.3 A log book shall be maintained in the clean-room area of the worker decontamination system. Anyone who enters the work area must record name, affiliation, time in, and time out for each entry .

1.5.4 Access to the work area shall be through a single worker decontamination system. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the work area. The only exceptions for this rule are the waste pass-out airlock which shall be sealed except during the removal of containerized asbestos waste from the work area, and emergency exits in case of fire or accident. Emergency exits shall not be locked from the inside, however, they shall be sealed with polyethylene sheeting and tape until needed.

1.5.5 Contractor shall control site security during abatement operations in order to protect work efforts and equipment.

1.6 EMERGENCY PLANNING:

1.6.1 Emergency planning shall be developed prior to abatement initiation and agreed to by the Contractor and Government.

1.6.2 Emergency procedures shall be in written form and prominently posted in the clean change area and equipment room of the worker decontamination area. Everyone prior to entering the work area must read and sign these procedures to acknowledge receipt and understanding of work site layout, location of emergency exits and emergency procedures.

1.6.3 Emergency planning shall include written notification of police, fire and emergency medical personnel of planned abatement activities, work schedule and layout of work area, particularly barriers that may affect response capabilities.

1.6.4 Emergency planning shall include considerations of fire, explosion, toxic atmospheres, electrical hazards, slips, trips, and falls, confined spaces and heat related injury. Written procedures shall be developed and employee training in procedures shall be provided.

1.6.5 Employees shall be trained in evacuation procedures in the event of workplace emergencies.

1.6.5.1 For non-life-threatening situations employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers if necessary, before exiting the workplace to obtain proper medical treatment.

1.6.5.2 For life-threatening injury or illness, work decontamination shall take least priority after measures to stabilize the injured worker, remove him from the workplace and secure proper medical treatment.

1.6.6 Telephone numbers of all emergency response personnel shall be prominently posted in the clean change area and equipment room; along with the location of the nearest telephone.

1.7 Pre-Work Meeting

1.7.1 The successful Bidder shall attend a pre-work meeting. Attending this meeting will be representatives of the Government along with testing/monitoring personnel who will actually participate in the testing/monitoring program.

1.7.2 The Contractor and supervisory personnel who will provide on-site direction of the abatement activities must attend. The Contractor's Air Sampling Professional shall also attend.

1.7.3 At this meeting the Contractor shall provide all submittals as required by these specifications. In addition he shall be prepared to provide detailed information concerning the following:

1.7.3.1 Preparation of work area

1.7.3.2 Personal protective equipment including respiratory protection and protective clothing.

1.7.3.3 Employees who will participate in the project, including delineation of experience, training, and assigned responsibilities during the project.

1.7.3.4 Decontamination procedures for personnel, work schedule and equipment.

1.7.3.5 Abatement methods and procedures to be utilized.

1.7.3.6 Required air monitoring procedures.

1.7.3.7 Procedures for handling and disposing of waste materials.

1.7.3.8 Procedures for final decontamination and cleanup.

1.7.3.9 A sequence of work and performance schedule.

1.7.3.10 Procedures for dealing with heat stress.

1.7.3.11 Emergency procedures

PART II -MATERIALS AND EQUIPMENT

2.1 MATERIALS:

2.1.1 General Requirements:

2.1.1.1 Deliver all materials in the original packages, containers or bundles bearing the name of the manufacturer and the brand name.

2.1.1.2 Store all materials subject to damage off the ground, away from wet or damp surfaces and under cover sufficient enough to prevent damage or contamination. Replacement materials shall be stored outside of the work area until abatement is completed.

2.1.1.3 Damaged, deteriorating or previously used materials shall not be used and shall be removed from the worksite and disposed of properly.

2.1.1.4 Polyethylene sheeting for walls and stationary objects shall be a minimum of 4-mil thick. For floors and all other uses sheeting of at least 6-mil thickness shall be used in widths selected to minimize the frequency of joints.

2.1.1.5 Polyethylene sheeting utilized for worker decontamination enclosure shall be opaque white or black in color.

2.1.1.6 Disposal bags shall be of 6 mil polyethylene, pre-printed with labels as required by EPA regulation 40 CFR 61.152 (b)(i)(iv) or OSHA requirement 29 CFR 1910.1001 (g)(2)(ii).

2.1.1.7 Disposal drums shall be metal or fiberboard with locking .ring tops.

2.1.1.8 Stick-on labels as per EPA or OSHA requirements (see 2.1.2.7) for disposal drums.

2.1.1.9 Warning signs as required by OSHA 29 CFR 1910.1001 (g)(i)(ii) or as proposed in 29 CFR 1910.1001 Asbestos Proposed Rule, Federal Register and Vol. 49, Tuesday April 10, 1984.

2.1.2 Removal:

2.1.2.1 Surfactant (wetting agent) shall be a 50/50 mixture of polyoxyethylene ether and polyoxyethylene ester, or equivalent, mixed in a proportion of 1 fluid ounce to 5 gallons of water or as specified by manufacturer. An equivalent surfactant shall be understood to mean a material with a surface tension of 29 dynes/cm as tested in its properly mixed concentration, using ASTM method D1331-56- M Surface and Interfacial Tension of Solutions of Surface Active Agentsw. Where work area

temperature may cause freezing of the amended water solution, the addition of ethylene glycol in amounts sufficient to prevent freezing is permitted.

2.1.2.2 Replacement spray or trowel-applied fire proofing must be ULC labeled and listed, asbestos-free mineral/fiber or cementitious material to provide the degree of fire protection as required by applicable building codes.

2.1.2.3 Replacement spray or trowel applied thermal insulation and acoustical material shall be asbestos-free and provide performance characteristics equal to or better than the original material, and should be evaluated and selected by the Government prior to abatement.

2.1.3 Encapsulation:

2.1.3.1 Encapsulation materials shall conform with the following characteristics:

2.1.3.1.1 Encapsulants should not be solvent-based or utilize a vehicle (the liquid in which the solid parts of the encapsulant are suspended) consisting of hydrocarbons.

2.1.3.1.2 Encapsulants shall not be flammable.

2.2 EQUIPMENT:

2.2.1 General Information:

2.2.1.1 A sufficient quantity of negative pressure ventilation units equipped with HEPA filtration and operated in accordance with ANSI 29.2 (local exhaust ventilation requirements) and EPA guidance document EPA 560/5-83-002 Guidance for Controlling Friable Asbestos-Containing Materials in Buildings Appendix F: Recommended Specifications and Operating Procedures For the Use of Negative Pressure Systems for Asbestos Abatement shall be utilized so as to provide one workplace air change every 15 minutes. To calculate total air flow requirement:

Total cu. ft./minute = Vol. of work area (in cu. ft.) 15 min

To calculate the number of units needed for the abatement: Number of units needed = Total cu. ft./minute
Capacity of unit in cu. ft./minute

If air-supplied respirators are utilized, estimate the volume of supplied air and add to workplace air volume when calculating ventilation requirements. For small enclosures and glove bags, a HEPA filtered vacuum system may be utilized to provide negative air pressure.

2.2.1.2 Type "C" air supplied respirators in positive pressure or pressure demand mode with full facepieces and HEPA filtered disconnect protection are recommended by the U.S. EPA for all full shift abatement work until the successful completion of final clearance air monitoring. Powered air purifying respirators equipped with HEPA filters and full facepieces or respirators with a higher NIOSH assigned protection factor may be used for inspection or repair work of less than 1 hour duration per day. A sufficient supply of charged replacement batteries and filters and a flow test meter shall be available in the clean change area for use with powered air purifying respirators. Air purifying respirators with dual high-efficiency (HEPA) filters may be utilized during work area preparation activities (See Section 3.3.2.3). Spectacle kits and eyeglasses must be provided for employees who wear glasses and who must wear full facepiece respirators. Respirators shall be provided that have been tested and approved by the National Institute of Occupational Safety and Health for use in asbestos contaminated atmospheres.

NOTE: Type C respirators should be worn through the completion of gross cleanup. Cartridge respirators are usually appropriate during final wipe-downs.

2.2.1.3 Compressed air systems shall be designed to provide air volumes and pressures to accommodate respirator manufacturer's specifications. The compressed air systems shall have a receiver of adequate capacity to allow escape of all respirator wearers from contaminated areas in the event of compressor failure. Compressors must meet the requirements of 29 CFR 1910.134 (d). Compressors must have an in-line carbon monoxide monitor and periodic inspection of the carbon monoxide monitor must be evidenced. Documentation of adequacy of compressed air systems/respiratory protection system must be retained on site. This documentation will include a list of compatible components with the maximum number and type of respirators that may be used with the system. Periodic testing of compressed air shall insure that systems provide air of sufficient quality (Grade D breathing air as described in Compressed Gas Association Commodity Specifications G- 7.1). See section entitled "Establishing a Supplied Air System" for complete details.

2.2.1.4 Full body disposable protective clothing, including head, body and foot coverings consisting of material impenetrable by asbestos fibers (Tyvek or equivalent) shall be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing.

2.2.1.5 Additional safety equipment (e.g. hard hats meeting the requirements of ANSI Standard Z89.1, eye protection meeting the requirements of ANSI Standard Z87.1, safety shoes meeting the requirements of ANSI Standard Z41.1 1 disposable PVC gloves), as necessary, shall be provided to all workers and authorized visitors.

2.2.1.6 Non-skid footwear shall be provided to all abatement workers. Disposable clothing shall be adequately sealed to the footwear to prevent body contamination.

2.2.1.7 If launderable clothing is to be worn underneath disposable protective clothing, it shall be provided by the Contractor to all abatement workers. Laundering must occur in accordance with 29 CFR 1910.1001 (d) (4) (i ii); however, it is preferable that the following procedures be utilized:

2.2.1.7.1 Launderers must be trained in proper techniques for handling asbestos contaminated clothing and provided with personal protective equipment consisting of appropriate respirators and disposable clothing for use when needed.

2.2.1.7.2 Machines used for laundering asbestos contaminated clothing shall be isolated and restricted for such use.

2.2.1.7.3 Washers shall be equipped with filters to remove asbestos fibers from discharged water.

2.2.1.7.4 Dryers shall be isolated and restricted for use with asbestos contaminated fabrics and have HEPA filtered exhaust.

2.2.1.7.5 Machine maintenance shall be performed by protected individuals.

2.2.1.8 A sufficient supply of disposable mops, rags and sponges for work area decontamination shall be available.

2.2.2 Removal:

2.2.2.1. A sufficient supply of scaffolds, ladders, lifts and hand tools (e.g. scrapers, wire cutters, brushes, utility knives, wire saws, etc.) shall be provided as needed.

2.2.2.2 Sprayers with pumps capable of providing 500 pounds per square inch (psi) at the nozzle tip at a flow rate of 2 gallons per minute for spraying amended water.

2.2.2.3 Rubber dustpans and rubber squeegees shall be provided for cleanup.

2.2.2.4 Brushes utilized for removing loose asbestos containing material shall have nylon or fiber bristles, not metal.

2.2.2.5 A sufficient supply of HEPA filtered vacuum systems shall be available during cleanup.

2.2.3 Encapsulation:

2.2.3.1 Encapsulants shall be sprayed using airless spray equipment. Nozzle pressure should be adjustable within the 400 to 1500 psi range. Tip size shall also be specified based on manufacturer's recommendations.

2.2.3.2 The nature of the encapsulant may affect the requirements for respiratory protection. Vapors that may be given off during encapsulant application must be taken into account when selecting respirators, if types other than air supplied are used.

Part 111 - EXECUTION

3.1 ASBESTOS ABATEMENT PROCEDURE OPTIONS:

3.1.1 Asbestos Removal Techniques: The Contractor shall determine the most efficient manner in which to carry out the asbestos removal from the work areas in conformance with this specification. The Contractor shall select from options available and in conformance with 29 CFR 1926.58. The following methods shall be used for asbestos abatement, as applicable, in accordance with 29 CFR 1926.58.

3.1.1.2

Procedure for the Removal of Asbestos Floor Tile:

3.1.1.2.1 Isolate the removal area and post EPA/OSHA warning signs at all approaches to the regulated area. Limit access to authorized persons. (Reference: OSHA 29 CFR 1926.58(k))

3.1.1.2.2 The Contractor shall designate a competent person to perform or supervise the following duties:

3.1.1.2.2.1 Set up the enclosure.

3.1.1.2.2.2 Ensure the integrity of the enclosure.

3.1.1.2.2.3 Control entry to and exit from the enclosure,-

3.1.1.2.2.4 Supervise all employee exposure monitoring. (Ref. 4.3.3.2 Sampling During the Abatement Project)

3.1.1.2.2.5 Ensure that employees working within the enclosure wear protective clothing and proper respiratory protection in accordance with OSHA 29 CFR 1926.58(h) and (I).

3.1.1.2.2.6 Ensure that employees are trained in the use of engineering controls, work practices, and personal protective equipment.

3.1.1.2.2.7 Ensure that employees use the hygiene facilities and observe the decontamination procedures specified in OSHA 29 CFR 1926.580).

3.1.1.2.2.8 Ensure that engineering controls are functioning properly prior to beginning removal.

3.1.1.2.3 Floor tile removal shall be accomplished by the use of amended water or a removal encapsulant and long handle scrapers or air operated floor tile removers to prevent electrocution hazard.

3.1.1.2.4 The designated competent person shall ensure that minimum breakage is accomplished during removal and that the material remains wet until final disposal.

3.1.1.2.5 When the removal of floor tile mastic is required, a chemical dissolving agent based on natural citric acid may be used. This process must be performed in a well organized manner to achieve the desired cleanup. The thickness of the mastic and the degree of cleanliness desired determines the number of applications. Provide agitation between stages with a broom to help facilitate the reaction. When the desired penetration is achieved, the dissolved mastic can be easily scooped into bags for disposal.

3.1.1.2.6 Area air monitoring shall be accomplished during the removal process.

3.1.1.2.7 Asbestos material shall be properly double bagged and disposed of following removal

3.1.1.2.8 After all of the asbestos-containing floor tile has been removed and bagged, the entire work area shall be cleaned until it is free of all visible asbestos dust. Cleaning methods may include wet wiping and/or wet mopping by use of amended water and HEPA vacuuming.

3.1.1.2.9 Following the final visual inspection by the competent person, the work area shall be encapsulated to lock down any remaining asbestos fibers.

3.1.1.2.10 Area clearance samples shall be collected prior to dismantling the enclosure.

3.2. CLEAN-UP PROCEDURES:

3.2.1 Remove and containerize all visible accumulations of asbestos containing material and asbestos contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. Do not use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor sheeting.

3.2.2 Wet clean all surfaces in the work area using rags, mops and sponges as appropriate. (Note: Some HEPA vacuums might not be wet-dry vacuums. To pick up excess water and gross wet debris, a wet-dry shop vacuum may be used. This will be contaminated and require cleaning prior to removal from the work area.)

3.2.3 Remove the cleaned outer layer of plastic sheeting from walls and floors. Windows, doors, HVAC system vents and all other openings shall remain sealed~ The negative pressure ventilation units shall remain in continuous operation. Decontamination enclosure systems shall remain in place and be utilized.

3.2.4 After cleaning the work area, wait at least 24 hours to allow debris to settle and HEPA vacuum and wet clean all objects and surfaces in the work area again.

3.2.5 Remove all containerized waste from the work area and waste container pass-out airlock.

3.2.6 Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.

3.2.7 Inspect the work area for visible residue. If any accumulation of residue is observed, it will be assumed to be asbestos and the 24 hour settling period/cleaning cycle repeated.

3.2.8 The work area shall be cleaned until it is in compliance with Federal, State and Local requirements and any more stringent criteria agreed upon by the Contractor and Government prior to initiation of abatement activities (criteria should be in the form of visual inspections and airborne fiber concentrations). Additional cleaning cycles shall be provided, as necessary, at no cost to the Government until these criteria have been met.

3.2.9 Following the satisfactory completion of clearance air monitoring remaining barriers may be removed and properly disposed of. A final visual inspection by the Government shall insure that no contamination remains in the work area. Unsatisfactory conditions may require additional cleaning and air monitoring.

3.3 CLEARANCE AIR MONITORING:

3.3.1 Following the completion of clean-up operations, the Contractor shall notify Construction Management that work areas are ready for clearance air monitoring.

3.3.2 Construction Management will notify Bioenvironmental (BEE) Engineering that the work area is ready for clearance air monitoring. The BEE will sample the air in the work area for airborne fiber concentrations and release the Contractor after the samples are analyzed by the lab.

3.3.3 The air sampling will be conducted using sampling pumps calibrated at a flow rate of at least two and not more than 4 liters per minute using collection media and procedures in accordance with NIOSH Standard Analytical Method P&CAM 7400. Air volumes shall be sufficient to provide reliable results down to a concentration of 0.01 fibers per cubic centimeter of air (*f/cc*) or lower. Minimum air volume of 1000 liters shall be collected for method 7400.

3.3.4 Aggressive sampling will be performed with enough portable fans circulating air in the work area to simulate actual use conditions. Negative pressure ventilation units shall not be utilized for this purpose.

3.3.5 Air Samples shall be analyzed by Phase Contrast Microscopy (See Part IV Section 4.4 Laboratory Services).

3.3.6 All samples at all locations shall indicate concentrations of airborne fibers less than 0.01 *f/cc* for release of the work area.

3.3.7 Areas exceeding this level shall be recleaned using procedures in Section 3.4 and retested until satisfactory levels are obtained.

3.4 DISPOSAL PROCEDURES:

3.4.1 As the work progresses, to prevent exceeding available storage capacity on site, sealed and labeled containers of asbestos containing waste shall be removed and transported to the prearranged disposal location.

3.4.2 Disposal must occur at an authorized site in accordance with regulatory requirements of NESHAP and applicable State and Local guidelines and regulations. Certification of EPA acceptance of the landfill shall be delivered to the Base Environmental Coordinator for their records.

3.4.3 All dump receipts, trip tickets, transportation manifests or other documentation of disposal shall be delivered to the Base Environmental Coordinator for their records. A recommended record-keeping format utilizes a chain-of-custody form which includes the names and addresses of the Generator, Government, Contractor, pickup site, and disposal site, the estimated quantity of the asbestos waste and the type of containers used. The form should be signed by the Generator, the Contractor, and the Disposal Site Operator, as the responsibility for the material changes hands. If a separate hauler is employed, his name, address, telephone number and signature should also appear on the form.

3.4.4 Transportation to the landfill:

3.4.4.1 Once drums, bags and wrapped components have been removed from the work area, they shall be loaded into an enclosed truck for transportation.

3.4.4.2 When moving containers, utilize hand trucks, carts and proper lifting techniques to avoid back injuries. Trucks with lift gates are helpful for raising drums during truck loading.

3.4.4.3 The enclosed cargo area of the truck shall be free of debris and lined with 6-mil polyethylene sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extend up the sidewalls. Wall sheeting shall be overlapped and taped into place.

3.4.4.4 Drums shall be placed on level surfaces in the cargo area and packed tightly together to prevent shifting and tipping. Large structural components shall be secured to prevent shifting and bags placed on top. Do not throw containers into truck cargo area.

3.4.4.5 Personnel loading asbestos containing waste shall be protected by disposable clothing including head, body and foot protection and at a minimum, half-facepiece, negative pressure, dual cartridge respirators equipped with high efficiency particulate air filters.

3.4.4.6 Any debris or residue observed on containers or surfaces outside of the work area resulting from clean-up or disposal activities shall be immediately cleaned-up using HEPA filtered vacuum equipment and/or wet methods as appropriate.

3.4.4.7 Large metal dumpsters are sometimes used for asbestos waste disposal. These should have doors or tops that can be closed and locked to prevent vandalism or other disturbance of the bagged asbestos debris and wind dispersion of asbestos fibers. Unbagged material shall not be placed in these containers, nor shall be used for non-asbestos waste. Bags shall be placed, not thrown, into these containers to avoid splitting.

3.4.5 Disposal at the landfill:

3.4.5.1 Upon reaching the landfill, trucks are to approach the dump location as closely as possible for unloading of the asbestos containing waste.

3.4.5.2 Bags, drums and components shall be inspected as they are off-loaded at the disposal site. Material in damaged containers shall be repacked in empty drums or bags as necessary.

3.4.5.3 Waste containers shall be placed on the ground at the disposal site, not pushed or thrown out of trucks (weight of wet material could rupture containers).

3.4.5.4 Personnel off-loading containers at the disposal site shall wear protective equipment consisting of disposable head, body and foot protection and, at a minimum, half-facepiece, negative pressure, dual cartridge respirators equipped with high efficiency particulate air filters.

3.4.5.5 Following the removal of all containerized waste, the truck cargo area shall be decontaminated using HEPA vacuums and/or wet methods to meet the no visible residue criteria. Polyethylene sheeting shall be removed and discarded along with contaminated cleaning materials and protective clothing, in bags or drums at the disposal site.

3.4.5.6 If landfill personnel have not been provided with personal protective equipment for the compaction operation by the landfill operator, Contractor shall supply protective clothing and respiratory protection for the duration of this operation.

3.5 RE-ESTABLISHMENT OF THE WORK AREA AND SYSTEMS:

- 3.5.1 Re-establishment of the work area shall only occur following the completion of clean-up procedures and after clearance air monitoring has been performed and documented to the satisfaction of the Government.
- 3.5.2 Polyethylene barriers shall be removed from walls and floors at this time, maintaining decontamination enclosure systems and barriers over doors, windows, etc. as required.
- 3.5.3 The Contractor and Government representatives shall visually inspect the work area for any remaining visible residue. Evidence of contamination will necessitate additional cleaning requirements in accordance with paragraph 3.2 of Section 2.
- 3.5.4 Additional air monitoring shall be performed in accordance with paragraph 3.3 of Section if additional clean-up is necessary.
- 3.5.5 Following satisfactory clearance of the work area, remaining polyethylene barriers may be removed and disposed of as asbestos contaminated waste.
- 3.5.6 At the discretion of the Contractor, mandatory requirements for personal protective equipment may be waived following the removal of all barriers.
- 3.5.7 Re-secure mounted objects removed from their former positions during area preparation activities.
- 3.5.8 Relocate objects that were removed to temporary locations back to their original positions.
- 3.5.9 Reestablish HVAC, mechanical and electrical systems in proper working order. Remove contaminated HVAC system filters and dispose of as asbestos contaminated waste. Decontaminate filter assembly using HEPA vacuums and wet cleaning techniques. Install new filters in HVAC systems. Dispose of old filters.
- 3.5.10 Repair all areas of damage that occurred as a result of abatement activities.
- 3.6 PERSONNEL PROTECTION REQUIREMENTS:
- 3.6.1 Training:
- 3.6.1.1 Prior to commencement of abatement activities all personnel who will be required to enter the work area or handle containerized asbestos containing materials must have received adequate training in accordance with Part IV Section 4.0 of this document.
- 3.6.1.2 Special on-site training on equipment and procedures unique to this job site shall be performed as required.
- 3.6.1.3 Training in emergency response and evacuation procedures shall be provided.
- 3.6.2 Respiratory Protection:
- 3.6.2.1 All respiratory protection shall be provided to workers in accordance with the submitted written respiratory protection program, which includes all items in OSHA 29 CFR 1910.134 (b) (1-11). This program shall be posted in the clean room of the worker decontamination enclosure system.
- 3.6.2.2 Workers shall be provided with personally issued, individually identified (marked with waterproof designations) respirators.

3.6.2.3 Respirators shall be selected that meet the following level of protection requirements: Respirator Protection for Asbestos, Tremolite, Anthophyllite, and Actinolite Fibers Airborne Concentration of asbestos, tremolite, antho- phyllite, actinolite, or a combination of these minerals. Required respirator Not in excess of 2 1. Half mask air purifying f/cc (10 X PEL) respirator equipped with high-efficiency filters.

Not in excess of 10

1. Full facepiece air purifying respirator equipped with high efficiency filters. *f/cc* (50 X PEL)

Not in excess of 20

1. Any powered air purifying f/cc (100 X PEL) respirator equipped with high efficiency filters.
2. Any supplied air respirator operated in continuous flow mode.

Not in excess of 200

1. Full facepiece supplied f/cc (1000 X PEL) -air respirator operated in pressure demand mode

Greater than 200

1. Full facepiece supplied *f/cc* (> 1,000 X PEL) air respirator operated or unknown concentration in pressure demand mode equipped with an auxiliary positive pressure self contained breathing apparatus.

3.6.3 Fit testing:

3.6.3.1 Workers must perform positive and negative air pressure fit tests each time a respirator is put on, whenever the respirator design so permits. Powered air-purifying respirators shall be tested for adequate flow as specified by the manufacturer.

3.6.3.2 Workers shall be given a qualitative fit test in accordance with procedures detailed in the OSHA Lead Standard (29 CFR 1910.1025, Appendix D, Qualitative Fit Test Protocols) for all respirators to be used on this abatement project. An appropriately administered quantitative fit test may be substituted for the qualitative fit test.

3.6.3.3 Documentation of adequate respirator fit must be provided to the Government.

3.6.3.4 No one wearing a beard shall be permitted to don a respirator and enter the work area.

3.6.3.5 Additional respirators (minimum of 2 of each type) and training on their donning and use must be available at the work site for authorized visitors who may be required to enter the work area.

3.6.4 Protective Clothing:

3.6.4.1 Disposable clothing including head, foot and full body protection shall be provided in sufficient quantities and adequate sizes for all workers and authorized visitors.

3.6.4.2 Hard hats, protective eyewear, gloves, rubber boots and/or other footwear shall be provided as required for workers and authorized visitors. Safety shoes may be required for some activities.

Part IV- SUPPORT ACTIVITIES AND PERSONNEL

4.1 TRAINING:

4.1.1 Training shall be provided by the Contractor to all employees or agents who may be required to disturb asbestos containing or asbestos contaminated materials for abatement and auxiliary purposes and to all supervisory personnel who may be involved in planning, execution or inspection of abatement projects.

4.1.2 This training should be through an EPA approved worker/supervisor certification course, which includes:

4.1.2.1 The health hazards of asbestos including the nature of various asbestos related diseases, routes of exposure, known dose-response relationships, the synergistic relationship between asbestos exposure and cigarette smoking, latency periods for disease and health basis for standards.

4.1.2.2 The physical characteristics of asbestos including fiber size, aerodynamic properties, physical appearance and uses.

4.1.2.3 Employee personal protective equipment including the types and characteristics of respirator classes, limitations of respirators, proper selection, inspection, donning, use, maintenance and storage of respirators, field testing the face-piece-to-face seal (positive and negative pressure fitting tests), qualitative and quantitative fit testing procedures, variations between laboratory and field fit factors, factors that affect respirator fit (e.g. facial hair), selection and use of disposable clothing, use and handling of launderable clothing, non-skid shoes, gloves, eye protection and hard hats.

4.1.2.4 Medical monitoring requirements for workers including required and recommended tests, reasons for medical monitoring and employee access to records.

4.1.2.5 Air monitoring procedures and requirements for workers including description of equipment and procedures, reasons for monitoring, types of samples and current standards with recommended changes.

4.1.2.6 Work practices for asbestos abatement including purpose, proper construction and maintenance of air-tight plastic barriers, job set-up of airlocks, worker decontamination systems and waste transfer airlocks, posting of warning signs, engineering controls electrical and ventilation system lockout, proper working techniques, waste clean-up, storage and disposal procedures.

4.1.2.7 Personal hygiene including entry and exit procedures for the work area, use of showers and prohibition of eating, drinking, smoking and chewing in the work area.

4.1.2.8 Special safety hazards that may be encountered including electrical hazards, air contaminants (CO, wetting agents, encapsulants, materials from Government's operation), fire and explosion hazards, scaffold and ladder hazards, slippery surfaces, confined spaces, heat stress and noise..

4.1.2.9 Workshops affording both supervisory personnel and abatement workers the opportunity to see (and experience) the construction of containment barriers and decontamination facilities.

4.1.2.10 Supervisory personnel shall, in addition, receive training on contract specifications, liability insurance and bonding, legal considerations related to abatement, establishing respiratory protection medical surveillance programs, EPA OSHA and State record-keeping requirements, and other topics as requested by the Government.

4.1.3 Training must be provided by individuals qualified by virtue of experience and education to discuss the topic areas in 4.2.

4.1.4 Training is to have occurred within 12 months prior to the initiation of abatement activities.

4.1.5 Contractor must document training by providing date of training, training entity, course outline, and names and qualifications of trainers.

4.2 MEDICAL MONITORING:

4.2.1 Medical Monitoring must be provided by the Contractor to any employee or agent that may be exposed to asbestos in excess of background levels during any phase of the abatement project. Due to the synergistic effects between smoking and asbestos exposure, it is highly recommended that only non-smokers be employed in positions which may require them to enter asbestos contaminated atmospheres.

4.2.2 Medical monitoring shall be as required by a physician for an asbestos examination. and shall include at a minimum:

4.2.2.1 A work/medical history to elicit symptomatology of respiratory disease.

4.2.2.2 A chest x-ray (posterior- anterior, 14 x 13 inches) evaluated by a Certified B-reader.

4.2.2.3 A pulmonary function test, including forced vital capacity (FVC) and forced expiratory volume at one second (FEV)₁, administered and interpreted by a Certified Pulmonary Specialist.

4.2.3 Employees shall be given an opportunity to be evaluated by a physician to determine their capability to work safely while breathing through the added resistance of a respirator. Examining physicians shall be aware of the nature of respiratory protective devices and their contributions to breathing resistance. The physician shall also be informed of the specific types of respirators the employee shall be required to wear and the work he will be required to perform, as well as special workplace conditions such as high temperatures, high humidity, and chemical contaminants to which he may be exposed.

4.3 AIR SAMPLING PROFESSIONAL (ASP):

4.3.1 The Air Sampling Professional shall be independent of the Contractor and conduct all air sampling for the Contractor.

4.3.2 The ASP shall conduct air sampling in accordance with the NIOSH Standard Analytical Method for Asbestos in Air P&CAM 239 and/or Method 7400 or other acceptable methods as otherwise agreed upon.

4.3.3 It is recommended that the following schedule be utilized for air sampling during the project (in addition to OSHA compliance monitoring):

4.3.3.1 Pre-abatement sampling -A sufficient number of air samples shall be collected prior to the start of abatement activities in order to determine prevalent airborne concentrations. Samples should be taken both inside and outside of the work area and buildings to establish existing levels under normal activity conditions.

4.3.3.2 Sampling during the abatement project.

4.3.3.2.1 The following schedule of samples shall be required on a daily basis. once abatement activities begin. The size of the abatement activity will impact on the number of samples necessary to adequately monitor the Contractor's activities. Decisions on the number of samples should be made with the advice of the Air Sampling Professional): 2 Area Samples (inside the work area) 2 Personal Samples (inside the work area) 2 Area Samples (outside the work area in uncontaminated areas of the building. One of these shall be at the entrance to the worker decontamination enclosure.) 1 Area Sample (outside the building) 1 Area Sample (at the exhaust of negative pressure ventilation equipment.)

4.3.3.2.2 Samples shall be collected at a sampling rate of 2 liters/min. A minimum acceptable air volume is 480 liters.

4.3.3.3 Post-Abatement (clearance) air sampling shall be conducted following the cleaning phase of work, once the no visible residue criterion has been met. A sufficient number of samples shall be collected aggressively (with portable fans circulating air in the work area to simulate actual use conditions) to determine post-abatement air concentrations. An adequate volume of air to provide accuracy to 0.01 fibers/cc is required. Clearance Air Sampling will be conducted by Bioenvironmental Engineering. .

4.3.4 The Air Sampling Professional shall be experienced and knowledgeable about the methods for asbestos air sampling and be able to select representative numbers and locations of samples.

4.3.5 The Air Sampling Professional shall have adequate liability insurance to protect against errors and omissions in the performance of support activities.

4.4 LABORATORY SERVICES:

4.4.1 Laboratory utilized for analyzing air samples by NIOSH shall be satisfactory participants in the NIOSH Proficiency Analytical testing (PAT) program asbestos analysis.

4.4.2 Laboratories used for bulk material identification shall be satisfactory participants in the EPA quality assurance program for bulk asbestos analysis.

4.4.3 On-site analytical capabilities are required for immediate results of sampling. This provides the Building Owner with a timely review of Contractor performance and a more rapid awareness of hazardous exposure conditions which can be corrected. Real-time monitoring instruments provide some support in this matter as long as their limitations are clearly understood and the Contractor and Government agree in advance on how the results are to be used. These devices do not meet current OSHA monitoring requirements and should not be used in place of sampling.

Part V- MEASUREMENT AND PAYMENT

All work performed for the complete removal and disposal in accordance with all federal and state regulations of asbestos containing materials shall be measured and paid at the corresponding unit of measure in the bid schedule. Payment will constitute full compensation for furnishing all labor, materials, and equipment. Items of work required in the execution of the contract and included in this specification, but not included in the bid schedule, shall be provided at no additional cost to the government. The contract price will also include the cost of the Air Sampling Professional and all Air Samples.

-End of Section -

MAHG 02-2205

SECTION 09650

RESILIENT FLOORING

PART1-GENERAL

1.1 SUMMARY (Not Applicable)

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

FEDERAL SPECIFICATIONS (FS)

FS SS-W-40 (Rev A; Int Am 1; Notice 1; 1974) Wall Base: Rubber and Vinyl Plastic

FS P-W-155 (Rev c; Int Am 1; 1980) Wax, Floor, Water-Emulsion

FS SS-T-312 (Rev B; Int Am 1; Notice 1; 1990) Tile, Floor, Asphalt Rubber, Vinyl

FS P-F-430 (Rev c; Am 1: 1983) Finish, Floor, Water-Emulsion

FS L-F-475 (Rev A; Int Am 3; 1982) Floor Covering Vinyl, Surface (Tile and Roll), with Backing

FS RR- T -650 (Rev E) Treads, Metallic and Nonmetallic, Skid Resistant (Sep 88)

FS L-F-OO1641 (Amend 2) Floor Covering Translucent or Transparent Vinyl Surface with Backing

AMERICAN SOCIETY OF TESTING AND MATERIALS

F 1344-93 Standard Specification for Rubber Floor

1.3 SUBMITTALS:

1.3.1 Samples:

Two samples of each color/pattern of each grade of vinyl composition tile, sheet vinyl, rubber tile, stair tread and riser, and wall base type and edge strip required shall be submitted for approval.

1.3.2 Descriptive Data:

Manufacturer's descriptive data and installation instructions shall be submitted for approval. Cleaning and maintenance instructions shall be furnished for information.

1.3.3 Test Reports:

Copies of test reports shall be furnished showing that representative samples of the flooring proposed for use have been tested within the past year and conform to the requirements specified herein.

1.4 DELIVERY AND STORAGE:

Materials shall be delivered to the building site in original unopened containers, shall be stored in a clean dry area with temperature maintained above 70 degrees F for 2 days prior to installation, and shall be stacked according to manufacturer's recommendations.

1.5 ENVIRONMENTAL REQUIREMENTS:

Areas to receive resilient flooring shall be maintained at a temperature above 70 degrees F for 2 days before application, during application and 2 days after application. A minimum temperature of 55 degrees F shall be maintained thereafter. The contractor shall verify these conditions prior to starting an area. If these conditions are not being met, the contractor shall notify the contracting officer prior to starting work.

1.6 SCHEDULING :

Resilient flooring application shall be scheduled after the completion of other work which would damage the finished surface of the flooring.

1.7 EXTRA STOCK:

Upon completion of the delivery order, spare tiles of each color and pattern shall be furnished at the rate of 1 tile for each 100 tiles installed. Tiles shall be from the same lot as those installed. Spare sheet vinyl of each color and pattern shall be furnished at the rate of 1 SF for each 100 SF installed. Sheet vinyl shall be from the same lot as that installed.

PART2-PRODUCTS

2.1 VINYL-COMPOSITION TILE: Contractor shall provide three grades of tile. Vinyl composition tile shall be a standard grade, premium grade and skid-resistant grade tile and shall conform to and/or exceed Fed. Spec. SS- T -3128, Type IV, Composition 11 and shall be 12 inches square and 1/8 inch thick. The tile shall have at least thirty different colors/patterns for each of the standard and premium grades and 15 different colors/patterns for the skid resistant grade. The colors/patterns shall be uniformly distributed throughout the thickness of the tile. Flooring in anyone continuous area shall be from the same lot and shall have the same shade and pattern. All tile shall be asbestos free.

2.2 SHEET VINYL FLOOR Sheet vinyl flooring shall conform to FS L-F-475, Type 11, Grade A, or FS L-F-001641, Class 1. Sheet vinyl flooring shall be not less than 72 inches wide, shall be non- cushioned, shall be of color and pattern selected by the contracting officer, and shall have a wax surface. For on-grade and below-grade applications sheet vinyl flooring shall have an alkali and moisture resistant backing

2.3 STAIR TREADS Stair treads and risers shall conform to FS RR- T -650, Composition A (rubber), Type 2 (designed surface), with shape of nosing to match the shape of the stairs. Treads shall be not less than 1 1/4 inch thick at the front, a full 3/16 inch through the design, and 1/8 inch at the back edge. Treads shall have metal reinforced nose and texture to aid the visually impaired.

2.4 RUBBER TILE Rubber tile shall conform to ASTM F 1344, Class I homogeneous At solid color, 12 inches by 12 inches by 1/8 inch thick, with pebbly surface texture or other similar patterned surface texture.

2.5 WALL BASE: Wall base shall conform to Fed. Spec. SS-W-40, Type I or Type II, Style "B". Base shall be either 4-inches high or 6-inches high, minimum 1/8-inch thick, color to be selected by the contracting officer.

2.6 EDGE STRIPS: Edge strip shall be of vinyl plastic, 1-inch wide and of thickness and color to match flooring.

2.7 ADHESIVE: Adhesive for flooring and wall base shall be as recommended by the flooring manufacturer.

2.8 POLISH: Polish shall conform to Federal Spec. P-F-430 or P-W-155.

2.9 LATEX UNDERLAYMENT COMPOUND Floor leveling compound shall be a two part latex compound with a curing time of less than 24 hours.

PART 3- EXECUTION

3.1 GENERAL: To avoid damaging the floor, install the flooring after other tradesmen in the same area have completed their work. Apply the flooring and the accessories in accordance with the manufacturer's installation procedure. The work shall be performed by workmen experienced in the application of such flooring. Detailed requirements are as follows:

3.1.1 Adhesives: Apply adhesives in accordance with the adhesive manufacturer's printed directions. Smoking or the use of open flames or other immediate sources of ignition is strictly prohibited in the area where solvent-containing adhesives are being used or spread. Post conspicuous signs reading *NO SMOKING OR OPEN FLAME* in the area of the spread adhesive.

3.1.2 Flooring: Apply tile flooring in the patterns as required by the delivery order or as directed by the contracting officer. Start in the center of the room or area, and work from the center towards the edges. Keep the tile lines and joints square, symmetrical, tight, and even; and keep each floor in a true, level plane, except where indicated as being sloped. Vary the width of edge tiles as necessary to maintain full-size tiles in the field, but no edge tile shall be less than one-half the field tile size, except where irregular-shaped rooms make it impossible.

3.1.3 Cutting: Cut flooring to fit around permanent fixtures, built-in furniture, and pipes, and outlets. Cut flooring edges, fit the flooring, and scribe the flooring to the walls and partitions after the field flooring has been applied.

3.1.4 Edge Strips: Provide edging strips where the flooring terminates at points higher than the contiguous finished flooring, except at doorways where thresholds are provided.

3.2 SURFACE CONDITIONS: Flooring shall be in a true, level plane, except where indicated as sloped. Before any work under this section is begun, all defects such as rough or scaling concrete, low spots, high spots, and uneven surfaces shall have been corrected, and all damaged portions of concrete slabs shall have been repaired as recommended by the flooring manufacturer. Concrete curing compounds, other than the type that does not adversely affect adhesion, shall be entirely removed from the slabs.

3.3 INSTALLATION OF VINYL-COMPOSITION TILE: Vinyl-composition tile flooring and wall base shall be installed in adhesive in accordance with the approved installation instructions of the manufacturer. Tile lines and joints shall be kept square, symmetrical, tight, and even. Floor shall be in a true, level plane, except where indicated as sloped. Edge tile width shall vary as necessary to maintain full-size tiles in the field, but no edge tile shall be less than one-half the field tile size, except where this is impossible because of irregular shaped rooms. Flooring shall be cut to, and fitted around, all permanent fixtures, built-in furniture and cabinets, pipes, and outlets. Edge tile shall be cut, fitted, and

scribed to walls and partitions after field flooring has been applied. Edge strips shall be provided where indicated. Edge strips shall be secured with adhesive.

3.4 INSTALLATION OF SHEET VINYL FLOORING: Sheet vinyl flooring shall be installed in adhesive in accordance with the approved installation instructions of the manufacturer. Joints shall be kept square, symmetrical, tight, and even. Floor shall be in a true, level plane, except where indicated as sloped. Flooring shall be cut to, and fitted around, all permanent fixtures, built-in furniture and cabinets, pipes, and outlets. Edge strips shall be provided where indicated. Edge strips shall be secured with adhesive.

3.5 INSTALLATION OF RUBBER TILE: Lay the tile in the adhesive in the indicated pattern. Immediately after completing the installation, roll the floors with a three-section roller weighing not less than 100 pounds, then sandbag the high points and raised edges until the danger of loosening has passed.

3.6 APPLICATION OF RUBBER WALL BASE: Apply wall base after the flooring has been completed and the wall surface to which the base is to be applied is dry. Where wall base is used in conjunction with vinyl wall covering, cut vinyl wall covering off at a point 1/4 inch below the top of the base, and spread the adhesive to the back of the base, as specified herein. Form inside and outside comers with base materials, as specified herein.

3.6.1 WALL BASE: Apply base adhesive to the back of the base with a notched trowel, leaving approximately 1/4 inch bare space along the top edge of the base. Immediately press the base firmly against the wall, and move the base gently into place, making sure that the toe is in contact with the floor surface and the wall. Roll the entire vertical surface of the base with a hand roller, and press the toe of the base with a straight piece of wood to ensure proper alignment.

3.7 APPLICATION OF STAIR TREADS: Fit the stair treads carefully and securely bond them with an approved adhesive, in accordance with the manufacturer's recommendations.

3.8 CLEANING: Immediately upon completion of the installation in a room or an area, flooring and adjacent surfaces shall be cleaned with an approved cleaner to remove surplus adhesive. No sooner than 5 days after installation, flooring shall be washed with an approved nonalkaline cleaning solution and rinsed thoroughly with clear cold water. Floors shall be given two coats of polish; after each polish coat floors shall be buffed to an even luster with an electric polishing machine.

3.6 MEASUREMENT AND PAYMENT

All work performed for the this section shall be measured and paid at the corresponding unit of measure in the bid schedule. The measurements shall be to the nearest whole unit of measure Payment will constitute full compensation for furnishing all labor, materials, and equipment, including extra stock items furnished to the government. Items of work required in the exeeution of the contract and included in this specification, but not included in the bid schedule, shall be provided at no additional cost to the government. The contract price will also include the cost of the Air Sampling Professional and all Air Samples.

END OF SECTION

SECTION 09675

RESIDENTIAL CARPET 1197

PART 1 GENERAL

1.1 SUMMARY (Not Applicable)

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM E 648 (1988) Critical Radiant Flux of
Floor-Covering Systems Using a Radiant
Heat Energy Source

CODE OF FEDERAL REGULATIONS (CFR)

CFR 16 Part 1630 (1987) Standard for the Surface Flammability of Carpet and Rugs (FF1-70)

FEDERAL SPECIFICATIONS (FS)

FSL-C-001676 (Am 1, 1971) Cushion, Carpet and Rug, Virgin Urethane

FS DDD-C-0095 (Rev A, 1972) Carpets and Rugs, Wool, Nylon, Acrylic, Modacrylic Polyester, Polypropylene

AMERICAN ASSO. OF TEXTILE CHEMIST & COLORIST (AATCC)

AA TCC 134 (1979) Test Methods for Static Electricity.

1.3 SUBMITTALS

The following shall be submitted: SD-50, Samples

Carpet: Supply 18" x 1 B" sample of each carpet proposed for use, showing quality, pattern, color specified. Each sample shall have a 3" x 5" label attached to the lower right hand corner on the pile side describing the carpet and identifying it by CLIN. All samples shall be clearly labeled as "residential.

SD-75, Installation Procedures

Three copies of the manufacturer's printed installation instructions for the carpet, including procedures for an expert installation and covering preparation of substrate, seaming techniques, and recommended adhesives and tapes.

SD-76, Certificates of Compliance

Certificates of compliance attesting that materials conform to the standards specified.

SD-80, Operation and Maintenance Manuals

Three copies of carpet manufacturer's maintenance instructions.

1.4 DELIVERY AND STORAGE~

Materials shall be delivered to the site in the manufacturer's original wrappings and packages clearly labeled with the manufacturer's name, brand name, size, and related information. Materials shall be stored in a clean, dry, well ventilated area, protected from damage and soiling, and maintained at a temperature above 60 degrees F for 2 days prior to installation.

PART 2 MATERIALS

2.2 PLUSH CUT CARPET

2.1.1 Physical Requirements

Carpet shall be of woven construction; free of visual blemishes, streaks, poorly dyed areas, and manufacturing defects. Carpet materials and treatments shall be nontoxic, reasonably nonallergenic, and free of other recognized health hazards. Carpet shall conform to the following:

- a. Pile surface texture: Plush Cut.
- b. Pile fiber: Solution dyed advanced generation nylon type 66 as manufactured by Dupont, Monsanto or DSDN.
- c. Pile weight (Moderate): 32 oz. d. Pile weight (Heavy): 34 oz.
- e. Pile density (Moderate): 3200 minimum. f. Pile density (Heavy): 3900 minimum.
- g. Width: **12 feet** minimum useable carpet.
- h. Pattern and color: Contractor shall submit 30 samples all selected from the manufacturer's standard patterns and colors. Multiple manufacturers may be used, but all plush cut carpet, in both solid and bold tweed, must be provided at the same unit price per CLIN. The patterns and colors shall be provided as follows:
 - 1. Bold Tweed -90 samples incorporating 45 different color combinations per wear level. .
 - 2. Solid Colors -90 Samples incorporating 45 different colors per wear level.
- i. Pile height: 0.312 inches minimum to 0.316 inches maximum. I
- j Surface texture: plush-cut pile.
- k. Tuft bind: 6-pound minimum.

I. Maximum machine gauge: Moderate -1/8"; Heavy -1/10"; Severe -1/10"

m. Minimum stitches per inch: Moderate -9; Heavy -10; Severe -11.

2.1.2 Backing Materials

Backing materials shall be those customarily used and accepted by the trade for each type of carpet tufted.

2.1.3 Static Control

Static control shall be provided to permanently control static buildup. Carpet shall be constructed so that there will be a maximum of 3.5 kilovolts generated at 70 degrees F and 20% relative humidity, as determined by the AA TCC test method 134-1979.

2.1.4 Critical Radiant Flux

Carpet shall comply with CFR 16 Part 1630. All carpet systems shall have a minimum average critical radiant flux of 0.50 watts per square centimeter when tested in accordance with ASTM E 648.

2.2 CARPET CUSHION

Carpet cushion shall be first quality, free of blemishes and other physical and manufacturing defects. All cushion shall be separate from the carpet. Cushion materials and treatments shall be reasonably nonallergenic, nontoxic, and free of other recognized health hazards and shall conform to the following:

2.2.1 SEPARATE CARPET CUSHION MATERIAL

Should be made of 100% synthetic slab rubber with synthetic facing with a minimum density of 22 pounds. Must be anti-microbial.

2.3 TAPE

Tape for seams shall be as recommended by the carpet manufacturer.

2.4 TACKLESS STRIP

Water-resistant plywood strips with two or three rows of rust-resistant angular pins shall be used for tackless installations. For areas over 20 feet long, tackless strips with three rows of pins shall be used. Pins of the proper length shall be provided to penetrate through the carpet backing but not so long as to be seen from the surface or to be a safety hazard. Provide tackless strip 9/32 inch or 3/8 inch thick, suitable for the cushion thickness specified or as recommended by the carpet manufacturer.

2.5 WOOD MOULDING

Wood moulding shall match existing and shall be a standard shape as manufactured by Brown Moulding Co. The finish shall match existing or as specified in each delivery order. Finger jointed type may be used with painted finishes; clear mouldings are required for clear and stained finishes.

PART 3 EXECUTION

3.1 SURFACE CONDITIONS

Carpet shall not be installed on surfaces that are unsuitable and will prevent a proper installation. Holes, cracks, depressions, or rough areas shall be repaired using material recommended by the carpet or adhesive manufacturer. Floor shall be free of any foreign materials and swept broom clean.

3.2 INSTALLATION

Installation shall be in accordance with the manufacturer's instructions.

3.2.1 Carpet

Carpet shall be installed with cushion and shall be smooth, uniform, and secure, with a minimum of seams. Side seams shall be. Seams shall not be made perpendicular to doors or at pivot points. Seams at changes in directions of corridors shall follow the wall line parallel to the carpet direction.

3.2.2 Seams

Seams shall be uniform, unnoticeable, and treated with a seam adhesive and taped. 3.2.3 Molding

Edges of carpet meeting hard surface flooring shall be protected with molding. Installation shall be in accordance with the molding manufacturer's instructions. 3.3 CLEANING AND PROTECTION

3.3.1 Cleaning

After installation of the carpet; debris, scraps, and other foreign matter shall be removed. Soiled spots and adhesive shall be removed from the face of the carpet with appropriate spot remover. Protruding face yam shall be cut off and removed. Carpet shall be vacuumed clean.

3.3.1 Protection

The installed carpet shall be protected from soiling and damage.

3.4 MEASUREMENT AND PAYMENT 3.4.1 METHOD OF MEASUREMENT:

3.4.1.1 Carpet -The quantity of all carpet & accessories shall be determined by measuring to the nearest scheduled unit price quantity.

3.3.2 METHOD OF PAYMENT:

3.3.2.1 Carpet- The quantity of all carpet & accessories (including cushion) will be paid at the appropriate contract unit price and will constitute full compensation for furnishing of all labor, materials and equipment for the complete installation of carpet, cushion, & accessories.

-End of Section--

SECTION 09680

CARPET
10/96

PART 1 GENERAL

1.1 SUMMARY (Not Applicable)

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM E 648 (1988) Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source

CODE OF FEDERAL REGULATIONS (CFR)

CFR 16 Part 1630 (1987) Standard for the Surface Flammability of Carpet and Rugs (FF1-70)

FEDERAL SPECIFICATIONS (FS)

FS L-C-001676 (Am 1, 1971) Cushion, Carpet and Rug, Virgin Urethane

FS DDD-C-0095 (Rev A, 1972) Carpets and Rugs, Wool, Nylon, Acrylic, Modacrylic Polyester, Polypropylene

AMERICAN ASSO. OF TEXTILE CHEMIST & COLORIST (AATCC)

AATCC 134 (1979) Test Methods for Static Electricity.

1.3 SUBMITTALS

The following shall be submitted:

SD-50, Samples

Carpet: Supply 18" x 18" sample of each carpet proposed for use, showing quality, pattern, and color specified. Each sample shall have a 3" x 5" label attached to the lower right hand corner on the pile side describing the carpet and identifying it by CLIN. All samples shall be bound by CLIN (re: all 30 of the 0003a samples will be bound together in book form). Samples for CLIN's 0009, 0010 and 0011 will not be required as these samples will be the same as CLIN's 0006, 0007 and 0008. Samples for CLIN's 0012, 0013 and 0014 will not be required as these samples will be the same as CLIN's 0003, 0004 and 0005. See paragraph 2.1.1 j. for quantity of samples.

SD- 75, Installation Procedures

Three copies of the manufacturer's printed installation instructions for the carpet, including procedures for an expert installation and covering preparation of substrate, seaming techniques, and recommended adhesives and tapes.

SD-76, Certificates of Compliance

Certificates of compliance attesting that materials conform to the standards specified.

SD-80, Operation and Maintenance Manuals

Three copies of carpet manufacturers maintenance instructions.

1.4 DELIVERY AND STORAGE

Materials shall be delivered to the site in the manufacturer's original wrappings and packages clearly labeled with the manufacturer's name, brand name, size, and related information. Materials shall be stored in a clean, dry, well ventilated area, protected from damage and soiling, and maintained at a temperature above 60 degrees F for 2 days prior to installation.

MATERIALS

PART 2

2.1 LEVEL LOOP CARPET (CLIN 0003, 0004 and 0005)

2.1.1 Physical Requirements

Carpet shall be of woven construction; free of visual blemishes, streaks, poorly dyed areas, and manufacturing defects. Carpet materials and treatments shall be nontoxic, reasonably nonallergenic, free of other recognized health hazards and conform to FS DDD-C-0095 Rev A. Carpet shall conform to the following:

- a. Pile surface texture: Level loop.
- b. Pile fiber: Solution dyed 100% advanced generation nylon type 66 as manufactured by Dupont, Monsanto or DSDN.
- c. Pile weight (Moderate): 26 oz & 28 oz. d. Pile weight (Heavy): 32 oz & 34 oz.
- e. Pile weight (Severe): 40 OZ.
- f. Pile density (Moderate): 5000 minimum.
- g. Pile density (Heavy): 5400 minimum.
- h. Pile density (Severe): 6000 minimum.
- i. Width: 12 feet minimum useable carpet.
- j. Pattern and color: Contractor shall submit 30 samples all selected from the manufacturer's standard patterns and colors. Multiple manufacturers may be used, but all level loop carpet must be provided at the same unit price per CLIN. The patterns and colors shall be provided as follows:
 - 1. Patterned -90 samples incorporating 3 different patterns and 30 different colors per wear level.

2. Bold Tweed -90 samples incorporating 30 different color combinations per wear level.

3. Solid Colors -90 samples incorporating 30 different colors per wear level.

k. Pile height: 0.186 inches minimum to 0.200 inches maximum.

l. Surface texture: loop pile.

m. Tuft bind: 15-pound minimum.

n. Maximum machine gauge: Moderate -1/8"; Heavy -1/10"; Severe -1/10"

o. Minimum stitches per inch: Moderate -9; Heavy -10; Severe -11.

2.2 PLUSH CUT CARPET (CLIN 0006, 0007, 0008, 0009, 0010, and 0011)

2.1.1 Physical Requirements

Carpet shall be of woven construction; free of visual blemishes, streaks, poorly dyed areas, and manufacturing defects. Carpet materials and treatments shall be nontoxic, reasonably nonallergenic, and free of other recognized health hazards. Carpet shall conform to the following:

a. Pile surface texture: Plush Cut.

b. Pile fiber: Solution dyed advanced generation nylon type 66 as manufactured by Dupont, Monsanto or DSDN.

c. Pile weight (Moderate): 28 OZ. d. Pile weight (Heavy): 34 oz.

e. Pile weight (Severe): 40 OZ.

f. Pile density (Moderate): 3200 minimum.

g. Pile density (Heavy): 3900 minimum.

h. Pile density (Severe): 4600 minimum.

i. Width: 12 feet minimum useable carpet.

j. Pattern and color: Contractor shall submit 30 samples all selected from the manufacturer's standard patterns and colors. Multiple manufacturers may be used, but all plush cut carpet must be provided at the same unit price per CLIN. The patterns and colors shall be provided as follows:

1. Patterned -90 samples incorporating 3 different patterns and 30 different colors per wear level.

2. Bold Tweed -90 samples incorporating 30 different color combinations per wear

3. Solid Colors -90 Samples incorporating 30 different colors per wear level.

k. Pile height: 0.312 inches minimum to 0.316 inches maximum.

l. Surface texture: plush-cut pile.

m. Tuft bind: 6-pound minimum.

n. Maximum machine gauge: Moderate -1/8"; Heavy -1/10"; Severe -1/10"

o. Minimum stitches per inch: Moderate -9; Heavy -10; Severe -11.

2.1.2 Backing Materials

Backing materials shall be those customarily used and accepted by the trade for each type of carpet tufted.

2.1.3 Static Control

Static control shall be provided to permanently control static buildup. Carpet shall be constructed so that there will be a maximum of 3.5 kilovolts generated at 70 degrees F and 20% relative humidity I as determined by the AA TCC test method 134-1979.

2.1.4 Critical Radiant Flux

Carpet shall comply with CFR 16 Part 1630. All carpet systems shall have a minimum average critical radiant flux of 0.50 watts per square centimeter when tested in accordance with ASTM E 648.

2.2 CARPET CUSHION

Carpet cushion shall be first quality, free of blemishes and other physical and manufacturing defects. All cushion shall be separate from the carpet. Cushion materials and treatments shall be reasonably nonallergenic, nontoxic, and free of other recognized health hazards and shall conform to the following:

2.2.1 SEPARATE CARPET CUSHION MATERIAL

Should be made of 100% synthetic slab rubber with synthetic facing with a minimum density of 22 pounds. Must be anti-microbial.

2.2.2 RATINGS

Must have a minimum of 90% compression on recovery test. Must pass DOC-FF-1-70 (Pill Test). Must meet moderate commercial to extra heavy commercial standards.

2.3 ADHESIVES

Adhesive for installation of carpet shall be waterproof, nonflammable, and as recommended by the carpet manufacturer. Seam adhesive shall be waterproof, nonflammable, and nonstaining as recommended by the carpet manufacturer.

2.4 MOLDING

Molding shall be vinyl. Vinyl molding shall be heavy-duty and designed for the type of carpet being installed. Floor flange shall be a minimum 2 inches wide. Color shall be complimentary to both surfaces that come in contact with the molding. Contractor shall submit a minimum of 10 different color samples.

2.5 TAPE

Tape for seams shall be as recommended by the carpet manufacturer.

2.6 TACKLESS STRIP

Water-resistant plywood strips with two or three rows of rust-resistant angular pins shall be used for tackless installations. For areas over 20 feet long, tackless strips with three rows of pins shall be used. Pins of the proper length shall be provided to penetrate through the carpet backing but not so long as to be seen from the surface or to be a safety hazard. Provide tackless strip 9/16 inch or 3/8 inch thick, suitable for the cushion thickness specified or as recommended by the carpet manufacturer.

PART 3 EXECUTION

3.1 SURFACE CONDITIONS

Carpet shall not be installed on surfaces that are unsuitable and will prevent a proper installation. Holes, cracks, depressions, or rough areas shall be repaired using material recommended by the carpet or adhesive manufacturer. Floor shall be free of any foreign materials and swept broom clean.

3.2 INSTALLATION

Installation shall be in accordance with the manufacturer's instructions.

3.2.1 Carpet

Carpet shall be installed either direct glue down or with cushion and shall be smooth, uniform, and secure, with a minimum of seams. Side seams shall be run toward the light where practical and where such layout does not increase the number of seams. Breadths shall be installed parallel, with carpet pile in the same direction. Patterns shall be accurately matched. Cutouts, as at door jambs, columns and ducts shall be neatly cut and fitted securely. Seams at doorways shall be located parallel to and centered directly under doors. Seams shall not be made perpendicular to doors or at pivot points. Seams at changes in directions of corridors shall follow the wall line parallel to the carpet direction.

3.2.2 Seams

Seams shall be uniform, unnoticeable, and treated with a seam adhesive and taped.

3.2.3 Molding

Edges of carpet meeting hard surface flooring shall be protected with molding. Installation shall be in accordance with the molding manufacturer's instructions.

3.3 CLEANING AND PROTECTION

3.3.1 Cleaning

After installation of the carpet; debris, scraps, and other foreign matter shall be removed. Soiled spots and adhesive shall be removed from the face of the carpet with appropriate spot remover. Protruding face yarn shall be cut off and removed. Carpet shall be vacuumed clean.

3.3.1 Protection

The installed carpet shall be protected from soiling and damage.

3.4 MEASUREMENT AND PAYMENT

3.4.1 METHOD OF MEASUREMENT:

3.4.1.1 Carpet -The quantity of all carpet & accessories shall be determined by measuring to the nearest scheduled unit price quantity.

3.4.2 METHOD OF PAYMENT:

3.4.2.1 Carpet -The quantity of all carpet & accessories (including cushion) will be paid at the appropriate contract unit price and will constitute full compensation for furnishing of all labor, materials and equipment for the complete installation of carpet & accessories as indicated by these documents.

-End of Section-

SECTION 09690

CARPET TILE

PART 1 GENERAL

1.1 SUMMARY

NOT APPLICABLE 1.2 REFERENCES

The publications listed below form a pan of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AA TCC)

AA TCC 8 1985 Colorfastness to Crocking: AA TCC Crockmeter Method

AA TCC 16E 1982 (Rev. 1985) Colorfastness to Light: Water-Cooled Xenon-Arc Lamp, Continuous Light

AA TCC 20A 1981 (Rev. 1985) Fiber Analysis Quantitative

AA TCC 134 1979 Electrostatic Propensity of Carpets

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM 0418 1982 Pile Yam Floor Covering Construction

ASTMD1335 1967 (Rev. 1972) Tuft Bind of Pile Floor Coverings

ASTMD1423 1982 Twist in Yams by the Direct-Counting Method

ASTM D2257 1980 Extractable Matter in Yams

ASTM E648 L 1978 Critical Radiant Flux of

Floor-Covering Systems Using a Radiant Heat Energy Source

CODE OF FEDERAL REGULATIONS (CFR)

16 CFR 1630 Standard for the Surface Flammability of Carpet and Rugs (Latest edition at the time of award)

FEDERAL STANDARDS (FED-STD)

FED-STD-191 (Rev. A) (Change Notice 5) DEC 89 Textile Test Methods

FED-STD-501 (Rev. A) (Change Notice 1) AUG 69 Floor Covering, Resilient Nontextile, Sampling and Testing

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 99 1984 Health Care Facilities

SUB-MITTALS

Submit the following:

1.3.1 SD-35, Drawings

a. Carpet tile system

Submit drawings that include area to be carpeted; moldings and edge strips and location; details of special treatments, such as ducts and trench headers and location.

1.3.2 SD-44, Manufacturer's Instructions

a. Carpet tile

Submit complete procedures for an expert installation including preparation of substrate.

1.3.3 SD-50, Samples

a. Carpet tile

b. Vinyl moldings.

Submit two samples of each color and style.

1.3.4 SD-66, Statements

a. Qualifications of installer.

b. Installation experience.

Submit certificates from the Contractor attesting that the installation supervisor has experience in this type of work and will provide qualified, experienced installers to perform work. Include a list of previous jobs giving name, location, dollar value, and date, setting forth supervisor's experience.

1.3.5 SD-70, Test Reports a. Flammability test

b. Static propensity test

The reports shall be dated within two years of submittal for approval.

1.3.6 SD- 76, Certificates of Compliance

a. Carpet tile

Submit certificates attesting that the carpet tile meets the requirements specified herein.

1.3.7 SD-80, Operation and Maintenance Manuals

a. Carpet tile system, Data Package Submit operation and maintenance data.

1.4 DELIVERY AND STORAGE

Deliver carpet tile to the site in manufacturer's original wrappings and packages clearly labeled with the manufacturer's name, brand name, size and related information. Attach register number or stencil on carton. Store in a safe, dry, clean, and well ventilated area. Do not open containers until needed for installation unless verifying inspection is required. Do not stack more than eight cartons high. Space will be provided outside the facility for storage. The contractor shall be responsible for providing proper storage facilities.

PART 2 PRODUCTS

2.1 PHYSICAL REQUIREMENTS

Provide carpet tile of woven construction with a secondary backing of a woven synthetic fabric with a synthetic hardback. Provide carpet tile of first quality and free of visual blemishes, streaks, poorly dyed areas, and other physical and manufacturing defects. Carpet tile shall be of the modular type, identical in size, 18 inches by 18 inches plus or minus 1/64 inch, precision die cut for complete inter-changeability. Sides shall be straight and the corners square. Tufts shall be firmly secured at the edges as in the other areas of the carpet tile. Carpet tile must lay flat on a flat surface without curling, warping, buckling, cupping or doming and without any lumpiness, unevenness, or differences in thickness in individual tiles or from tile-to-tile. Provide carpet tile that does not stretch or shift position in use when installed according to the carpet tile manufacturer's instructions. Use nontoxic carpet tile materials and treatment, free from other recognized health hazards and conforming to the following:

- a. Pile surface texture: Level loop.
- b. Pile fiber: Solution dyed 100% advanced generation nylon type 66 as manufactured by Dupont, Monsanto or DSDN.
- c. Pile weight (Moderate): 26 oz.
- d. Pile weight (Heavy): 28 OZ.
- e. Pile weight (Severe): 32 oz.
- f. Pile density (Moderate): 5000 minimum.
- g. Pile density (Heavy): 5400 minimum.
- h. Pile density (Severe): 6000 minimum.
- i. Width: 12 feet minimum useable carpet.
- j. Pattern and color: Shall be the same as the level loop carpet specified in Section 9680.
- k. Pile height: 0.186 inches minimum to 0.200 inches maximum.
- l. Surface texture: loop pile.
- m. Tuft bind: 15-pound minimum.
- n. Maximum machine gauge: Moderate -118"; Heavy -1110"; Severe- 1110"
- o. Minimum stitches per inch: Moderate- 9; Heavy -10; Severe -11.

2.1.1 Surface Texture

2.1.1.1 loop Pile

Provide textured uncut pile creating an overall nondirectional surface. Maximum differential finished pile heights (high and low pile loops) of textured pile is 0.125 inch.

2.1.2 Pile Yam

Do not use reclaimed yarn fibers from any woven, tufted, knitted, or felted products. Do not use undrawn fiber in spun yam. Provide spun yam of at least two ply for loop pile carpet tile. Use yam setting method sufficient to assure permanent texture retention under normal use conditions, cleaning, and shampooing. Use autoclave or continuous heat process to set yam in cut pile construction.

2.1.2.1 Continuous Filament Nylon

Not less than fourth generation continuous high bulk or textured carpet fiber with average filament size of 20 denier or coarser modified to provide increased translucence or opacity for soil hiding.

2.1.2.2 Extractable Matter in Finished Yam

ASTM D2257. Not more than two percent extracted using a single solvent. as follows:

- a. Nylon-cyclohexane
- b. Acrylic-chloroform or ether
- c. Modacrylic-ether

2.1.3 Primary Carpet Backing

Those customarily used and accepted by the trade for each type of carpet tile. Use a back coating compound of synthetic resin or synthetic woven compound. Use back coating quantity normally used in the supplier's product.

2.1.4 Secondary Backing

Shall be fiberglass reinforced synthetic hardback.

2.1.4.1 Synthetic Hardback

Suitably compounded virgin polymer, primarily composed of amorphous polymers. All backing materials must be made from products that are chemically stable and do not contain plasticizers. Backing materials must be chemically compatible with adhesives often found on the floor such as "cut back". Polyvinyl chloride which does contain plasticizers and reacts with "cut back" is not acceptable. Use a compound that is uniform and free from objectionable odor, and conforming to the following:

- a. Hardback: Average not less than 0.115 inch in total backing thickness.
- b. Weight: Average not less than 100 oz per sq yd.
- c. Compression resistance: Not less than 100 pounds per square inch.
- d. Adherence: No separation of the carpet tile and hardback.
- e. Accelerated weathering: No cracking, stiffness, brittleness, soft or tacky and appreciable change in color, when compared to the unexposed sample, after 100 hours in the weatherometer.

- f. Flexibility at 70 degrees F and 30 degrees F: No cracking, flaking, crazing, or show any other indication of failure.
- g. Moisture absorbency: Maximum one percent moisture absorbency, after 4 hours submersion in water at 72 degrees F.
- h. Volatile matter: No more than one percent

2.2 PERFORMANCE REQUIREMENTS

Shrinkage

The maximum immersion shrinkage in warp and filling directions is 0.015 inch for vinyl hardback carpet tile. The maximum air temperature shrinkage in warp and filling directions shall be 0.015 inch for vinyl hardback carpet tile.

2.2.1.1 Shrinkage, Immersion

Condition a sample of the specified carpet tile under standard conditions as defined in FED- sTD-191 for a 24-hour period. Then mark and measure the specimen at three different locations in the length and width directions; with distances marked to within about 2 inches from the edges of the carpet tile; immerse sample in 110 degrees F water for about 15 minutes; mix 2 grams of sodium alkyl sulfate type of detergent with 50 grams of water at 110 degrees F and apply to pile surface of carpet tile. Scrub sample with a soft bristle brush by stroking back and forth 20 times (10 times in each unilateral direction), and in both length and width directions; rinse well to remove majority of detergent; squeeze and dry at 125 degrees F until bone dry; again condition under standard conditions for 24 hours.

2.2.1.2 Shrinkage, Air Temperature

Condition a sample of the specified carpet tile under standard conditions as defined in FED- STD-191 for a period of 24 hours. Mark the specimen as specified in paragraph entitled "Shrinkage, Immersion." Place sample on a flat surface in a room or oven at 95 degrees F, plus or minus 5 degrees for a period of 24 hours and measure for shrinkage.

2.2.1.3 Shrinkage, Evaluation

Measure the specimen and compute the percentage shrinkage using the following formula: $\text{Shrinkage} = \frac{A-B}{A} \times 100$
Where: A is average of initial measurement, B is average measurements after shampooing Report the shrinkage in both the warp and filling directions to the nearest one percent.

2.2.2 Adherence Test

2.2.2.1 Synthetic Hardback

Subject a specimen of the finished carpet tile with hardback attached to accelerated aging by exposure in a circulating air oven for 96 hours at a temperature of 90 degrees F, plus or minus 2 degrees. Remove the sample from the oven and allow it to cool to room temperature, grasp the base carpet with the fingers of one hand and the thickness of the hardback with the fingers of the other hand and pull firmly in opposite directions. Tearing of the hardback or separation of the carpet and hardback is not acceptable.

2.2.3 Flexibility

Secondary backing must not crack, flake, craze, or show any other indications of failure when tested as specified below.

2.2.3.1 At 70 Degrees F

Use a 4 inch by 4 inch specimen. Double the specimen and press flat on itself in any direction. Hold doubled for 5 minutes. Examine for indications of failure while doubled and after pressed flat. Make the examination visually at a distance of one foot.

2.2.3.2 At 30 Degrees F

FED-STD-501, Method 6511, using one-inch mandrel plus or minus 1/8 inch.

2.2.4 Colorfastness to Light

AA TCC 16E. Use the Xenon arc as the light source. Consider colors that are deeper or equivalent in hue to Row 2 of the AA TCC Color Transference Chart as dark colors: consider those lighter as light colors. Colors for synthetic yarns shall show a gray scale rating of at least 4 for light shades after the equivalent of two L-4 breaks and at least 4 for dark shades after the equivalent of at least three L-4 breaks. Woolen yarns show a gray scale rating of at least 4 for light shades after the equivalent of one L-4 break and at least 4 for dark shades after the equivalent of two L-4 breaks. Base classification on the AA TCC Blue Wool Lightfastness Standards L-2 to L-9. Test all colors specified. If the Xenon Arc Fadeometer has a built-in continuous monitor and control device made by the manufacturer, the blue wool standards referenced in AA TCC 16E need not be used to judge the L-4 breaks, providing the manufacturer's instructions are followed.

2.2.5 Dry and Wet Crocking

AATCC 8. All colors specified shall show a minimum rating of step 4 on the AATCC Color Transference Chart.

2.2.6 Pile Coverage

Sufficient to conceal backing.

2.2.7 Tuft Bind

ASTM 01335. The minimum tuft bind in average pounds-force for loop pile is 15 pounds.

2.2.8 Flammability

CPSC 16 CFR 1630. All carpet tile shall comply with ASTM E648. Minimum average critical radiant flux of 0.50 watts per square centimeter. Test carpet tile and hardback together, as they will be installed. All carpet systems must have either a flame spread rating not greater than 75 when tested according to ASTM E-84 or a flame propagation index less than 4.0 when tested according to UL 992. In addition to the above requirements, the smoke development rating may not be greater than 200 when tested according to ASTM E-84 or 450 when tested according to the National Bureau of Standards Smoke Chamber Test.

2.2.9 Static Control

AATCC 134. Incorporate a permanent static control system to control static build-up to less than 3.5 kV. Test at 20 percent relative humidity at 70 degrees F as determined by the American Association of Textile Chemist and Colorist Test Method 134-1969.

2.2.10 Electrical Resistance

NFPA 99. Maximum electrical resistance for carpet tile shall be 20,000 megohms measured between the floor surface and building or applicable ground material, and shall provide a resistance of not less than 150 kilohms when measured from any point on the floor.

2.2.11 SOIL AND STAIN PROTECTION

The manufacturer shall provide carpet tiles treated with a fluorocarbon treatment to resist soil and stain. 2.3

CALCULATION OF PHYSICAL REQUIREMENTS

2.3.1 Pile Weight

ASTM D418. Determine the average pile weight in ounces per square yard, except that pile weight of unsheared carpet tile may be determined by dissecting specimens taken from unfinished carpet tile before a back coating is applied. Unsheared carpet tile includes those which are tip sheared or defuzzed in a shearing operation where loss of fiber is negligible. Determination by dissecting specimens is only valid to the extent that it completely represents the pile weight of the fully finished carpet tile. In determining pile weights, make no allowance for the inclusion of any fibers needed or flocked onto or into the primary backing prior to tufting or weaving, or to any such process which is designed primarily to increase the total yarn weight and is not integrally a part of the knitting, weaving, or tufting manufacturing process. In the event of variance in results between ASTM D418 and the dissection method, the former prevails.

2.3.2 Pile Thickness

Determine the average pile thickness of the carpet tile. Make measurements to the nearest 0.01 inch instead of 0.10 inch as stated in ASTM D418.

2.3.3 Pile Density

Calculate the average density (D) as follows: $D = 36(W)/T$ Where: W is average pile weight in oz per sq yd, T is average pile thickness in inches

2.4 MOLDING

Heavy-duty vinyl designed for the type of carpet tile being installed. Floor flange at least 2 inches wide. Color: To match the carpet.

PART 3 EXECUTION

3.1 INSTALLATION

Install carpet tile in accordance with the manufacturer's printed Instructions after the work of other trades, including painting, is done. Installed carpet tile must be smooth, uniform, and secure. Install tile with carpet pile lay in same direction. Fit cutouts, such as door jambs, columns, and ducts, neatly and securely.

3.1.1 Carpet Tile Location

Install carpet tile wall-to-wall in rooms and areas indicated on drawings. Include all material indicated, specified, or necessary for a completely finished installation.

3.1.2 Extra Carpet Tile

Upon completion of the delivery order, furnish two cartons of carpet tiles for every 100 cartons of tile used of each pattern and color in addition to the quantity required for installation. Furnish extra carpet

tile, for replacement use of same manufacturer, type and quality as the installed carpet tile; provided in original cartons; and properly marked.

3.1.3 Substrate Preparation

Inspect rooms and areas to be carpeted. Before installation, verify that concrete floors comply with requirements on moisture content recommended by adhesive or carpet manufacturer's instructions. Repair holes, cracks, depressions, or rough areas using material recommended by the carpet tile manufacturer. Grind raised areas or ridges smooth. Provide floor free of any foreign materials and swept broom clean. Comply with requirements for conditioning adhesives and minimum floor temperature before, during, and after installation as recommended by the carpet tile and adhesive manufacturer's instructions. However, in no case may floor temperature be less than 60 degrees F for 24 hours prior to, during, and after installation. Do not permit traffic or movement of furniture or equipment in carpeted areas for at least 24 hours after installation. Carpet tile installation constitutes validation by the Contractor that the substrate and conditions in the area meet all requirements for satisfactory installation.

3.1.4 Accessibility

Installed carpet tiles shall be removable. Ensure that the exposed area is capable of being restored to its original condition by replacing the removed tiles or installing new tiles of the same manufacturer type, and quality.

3.1.5 Molding

Finish carpet tile edges meeting hard surface flooring with moldings. Install in accordance with manufacturer's instructions.

3.2 CLEANING AND PROTECTION

3.2.1 Cleaning

After installation, remove all debris, moldings, scraps and other foreign matter. Remove any soiled spots or adhesive from the face of the carpet tile with the appropriate spot remover. Clip any protruding face yarn with sharp scissors. Vacuum the carpet tile until clean.

3.3 MEASUREMENT AND PAYMENT

3.3.1 METHOD OF MEASUREMENT:

3.3.1.1 Carpet- The quantity of all carpet & accessories shall be determined by measuring to the nearest scheduled unit price quantity of installed carpet.

3.3.2 METHOD OF PAYMENT:

3.3.2.1 Carpet -The quantity of all carpet & accessories (including cushion) will be paid at the appropriate contract unit price and will constitute full compensation for furnishing of all labor, materials (including the cost of the extra carpet tile specified in paragraph 3.1.2) and equipment for the complete installation of carpet & accessories as indicated by these documents.

-End of Section--

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES	
				J	1	2
2. AMENDMENT/MODIFICATION NO. P00001		3. EFFECTIVE DATE 01-Sep-2003	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)	
6. ISSUED BY 81ST CONTRACTING SQUADRON SSGT JAVIER TAMEZ 31 KEESLER AFB MS 39534-2147		CODE FA3010	7. ADMINISTERED BY (If other than item 6) See Item 6			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) D N P INC GREG NOLTE 680 KENNEDY LN BILOXI MS 39532-4522				9A. AMENDMENT OF SOLICITATION NO.		
				9B. DATED (SEE ITEM 11)		
				X	10A. MOD. OF CONTRACT/ORDER NO. F22600-02-D-0008	
				X	10B. DATED (SEE ITEM 13) 27-Aug-2002	
CODE 0ED59		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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.						
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.						
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).						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X D. OTHER (Specify type of modification and authority) Unilateral Mod Pursuant to FAR 52.217-8 Option to Extend Services						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> 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.) To exercise the Option to Extend Services						
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) ROBERT F. WINLAND / FLIGHT A, TEAM A LEADER		
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 09-Jun-2003	

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

- A. The Option to Extend Services as provided in Contract Clause FAR 52-217-8 is hereby exercised and performance is hereby extended for the period of 1 Sept 03 through 31 Aug 04.
- B. The ordering period as stipulated in Contract Clause FAR 52-216-18 is 12 months.
- C. The prices from the 1st Option Year will cover this twelve month extension.
- D. Funds will not be obligated by this modification. Funds will be obligated through the issuance of individual task orders against the contract.
- E. General Wage Decisions MS020018 (Residential) and MS020057 (Building) are applicable to this extension of services.