

**United States Department of the Air Force  
Air Combat Command  
(ACC)  
Air Force Center for  
Environmental Excellence  
(AFCEE)**



**Privatization of Military Family Housing  
Cannon Air Force Base, New Mexico**

Solicitation Number: AFCEE-03-0003

**APPENDIX F  
Technical References**

**Step One Proposals Are Due No Later Than  
5:00 P.M. MT 18 Aug 03 At:**

PSC MILITARY HOUSING COMPANY

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Salt Lake City, Utah 84102

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## APPENDIX F. TECHNICAL REFERENCES

1. “Air Force Family Housing Guide for Planning, Programming, Design and Construction”, Office of the Civil Engineer, Directorate of Housing, Dec 95. See web site:  
[www.afcee.brooks.af.mil/dc/dch/mfhguide/guide.htm](http://www.afcee.brooks.af.mil/dc/dch/mfhguide/guide.htm)
2. “Environmental Baseline Survey for Cannon Air Force Base, Privatization”, prepared in 2002 by SAIC.
3. “Environmental Assessment (EA) for Cannon AFB”, prepared by SAIC in 2002.
4. Installation Restoration Program (IRP)
  - A. April 1998; Revised Work Plan, CERCLA Site Inspections at Areas of Concern (AOC’s) E, F, G and H; Cannon Air Force Base, New Mexico
  - B. March 1999; Final Report, CERCLA Site Inspections at Areas of Concern (AOC’s) E,F, G and H, Cannon Air Force Base, New Mexico
  - C. March 1999; Final Report, Appendixes A, B, C, D and E, CERCLA Sites Inspections at Areas of Concern (AOC’s) E,F,G, and H, Cannon Air Force Base, New Mexico

Prepared by: United States Department of the Army, Corps of Engineers, Omaha District, Omaha, Nebraska
5. “General Plan, Cannon Air Force Base New Mexico” prepared by Higginbotham/Briggs, dated 1998, revised April, 2002. This document provides text, maps, plan graphics and photographs and describes composite constraints and opportunities, infrastructure, land use and capital improvements. General utility narrative and layout information is included.
6. “Cannon AFB Family Housing Master Plan”, prepared by The Benham Group, dated September 1999.
7. “Housing Requirements Market Analysis - Cannon Air Force Base”, prepared by Parsons Corporation, dated October, 2002.
8. “Air Force Family Housing Guide for Planning, Programming, Design and Construction” prepared by AFCEE, dated December 1995
9. “AICUZ Study for Cannon AFB”, prepared by HQ Air Combat Command (ACC), dated 1998 and revalidated in 2001. This report contains noise contours from aircraft operations and construction criteria required to abate noise. Contact is Mr. John Santee, 27 CES/CECP, Community Planner: 505-784-2195
10. “Integrated Natural Resource Management Plan”, prepared by Geo-Marine, dated March, 1997. Update by Lopez Garcia Group in progress. Description of vegetation indigenous to New Mexico and proper installation and maintenance. (hard copy only)
11. Radon test results performed by 27 ADOS/SGGB, originally tested in 1992.
12. Asbestos and Lead-Based Paint Identification Survey, performed by Galson Corp., in 1995.
13. AFI 34-276, “Family Child Care Programs”
14. Cannon AFB Urban Forest Survey Report, prepared by World Tree, Inc., June, 1999. Contact is Mr. John Santee, 27 CES/CECP, Community Planner; 505-784-2195
15. American National Standards Institute. 1995. American national standard for tree care operations – tree, shrub and other woody plant maintenance – standard practices. ANSI A300-1995: New York.
16. American National Standards Institute, 1998. American national standard for tree care operations – tree, shrub and other woody plant maintenance – standard practices (fertilization). ANSI A300 (Part 2) – 1998: New York.

17. Protecting Trees from Construction Damage. Refer to web site:  
<http://www.extension.umn.edu/Documents/D/K/DK6135.html>

The following table is a listing of recommended plantings in the Cannon AFB housing areas:

**Native and Non-Native Woody Plants Acclimated to the Cannon AFB  
Growing Environment (USDA hardiness zone 6b)**

\* = Plants native to the high plains of eastern New Mexico

^ = Plants native to the American Southwest

(n) = Non-native

I = Inventories in Cannon AFB urban forest in 1998

Common Name	I	Scientific Name	Suitability
Fir species (n)	I	<i>Abies</i> species	
Amur maple (n)	I	<i>Acer ginnala</i>	
Wright acacia (n)		<i>Acacia wrightii</i>	Has spines
Red maple (n)	I	<i>Acer rubrum</i>	
Silver maple (n)	I	<i>Acer saccharinum</i>	Open areas only
Tree-of-heaven (n)		<i>Ailanthus altissima</i>	
Mimosa-tree (n)	I	<i>Alibzia julibrissin</i>	
Serviceberry (n)		<i>Amelanchier</i> varieties	
Madrone (n)		<i>Arbutus xalapensis</i>	Moderate to low water demand
Pecan (n)	I	<i>Carya illinoensis</i>	
Southern catalpa (n)	I	<i>Catalpa bignonioides</i>	
Western catalpa ^	I	<i>Catalpa speciosa</i>	
Hackberry (n)	I	<i>Celtis occidentalis</i>	
Eastern redbud (n)	I	<i>Cercis canadensis</i>	Use 'texensis' and 'mexicana' varieties
California redbud ^		<i>Cercis occidentalis</i>	
Mountain-mahogany ^		<i>Cercoparpus montanus</i>	Native range close to Curry County; drought hardy
Port Orford cedar (n)	I	<i>Chamaecyparis lawsoniana</i>	
Desert-willow ^	I	<i>Chilopsis linearis</i>	"Almost native" to Cannon AFB; showy flowers most of summer; good lawn tree in housing areas; not a street tree
Chitalpa (n)		<i>Chilopsis X Catalpa tashkentensis</i> (hybrid)	Showy flowers; big leaves; tolerates some aridity

Flowering dogwood (n)	I	<i>Cornus florida</i>	
American smoketree (n)		<i>Cotinus obovatus</i>	Tolerant of alkaline soils; three-season color
Ornamental hawthorn (n)	I	<i>Crataegus</i> varieties	
Arizona Cypress ^	I	<i>Cupressus arizonica</i>	
Ornamental Cypress (n)	I	<i>Cupressus</i> varieties	
Texas persimmon (n)		<i>Diospyros virginiana texana</i>	Use in open spaces where fruiting female trees would be considered “messy”
Russian olive (n)	I	<i>Elaeagnus angustifolia</i>	Weedy
White ash (n)	I	<i>Fraxinus americana</i>	Open spaces
Narrow-leaved ash (n)	I	<i>Fraxinus angustifolia</i>	
Fragrant ash (n)		<i>Fraxinus cuspidata</i>	Good as small flowering lawn tree; tolerates high pH soils
Green ash (n)	I	<i>Fraxinus pennsylvanica</i>	Tolerates dry, high pH soils
Arizona ash *	I	<i>Fraxinus velutina</i>	Open areas
Modesto ash (n)	I	<i>Fraxinus velutina</i> ‘Modesto’	Prone to included bark problems if not well-trained when young
Wright silktassel *		<i>Garrya wrightii</i>	Can be trained as small tree
Ginkgo (n)		<i>Ginkgo biloba</i> (male)	Do not use female plants (offensive fruit litter)
Honey-locust (n)	I	<i>Gleditsia triacanthos</i> varieties	Thornless forms
Witch-hazel (n)	I	<i>Hamamelis</i> species	
Possumshaw (n)		<i>Ilex decidua</i>	Deciduous shrubby holly for open areas (dioecious)
Black walnut (n)	I	<i>Juglans nigra</i>	
Hollywood juniper (n)	I	<i>Juniperus chenensis</i> ‘Kaizuka’	
Ornamental juniper (n)	I	<i>Juniperus</i> cultivars	
Eastern redcedar (n)	I	<i>Juniperus virginiana</i>	
Golden-rain-tree (n)	I	<i>Koelreuteria paniculata</i>	
Crape-myrtle (n)	I	<i>Lagerstroemia indica</i>	
Golden-ball leadtree ^		<i>Leucaena retusa</i>	Small, drought-hardy lawn tree with short, useful life
Ornamental crabapple (n)	I	<i>Malys (Pyrus)</i> cultivars	Use locally acclimated cultivars
Weeping mulberry (n)	I	<i>Morus alba</i> ‘Pendula’	
White mulberry (n)	I	<i>Morus alba</i> cultivars	
Waxmyrtle (n)		<i>Myrica cerifera</i>	
Jerusalem thorn (n)		<i>Parkinsonia aculeata</i>	Open spaces

Colorado spruce ^	I	<i>Picea pungens</i>	
Pinion pine ^	I	<i>Pinus edulis</i>	
Austrian pine (n)	I	<i>Pinus nigra</i>	
Pitch pine (n)	I	<i>Pinus rigida</i>	
Chinese pistache (n)		<i>Pistacia chinensis</i>	Tough species for harsh sites
Sycamore, plane-tree (n)	I	<i>Platanus</i> species	
White (silver) poplar (n)	I	<i>Populus alba</i>	
Lombardy poplar (n)	I	<i>Populus nigra</i> 'Italica'	Highly questionable; useful life
Plains cottonwood *		<i>Populus sargentii</i>	
Cottonwood species (n)	I	<i>Populus</i> species and varieties	
Quaking aspen *	I	<i>Populus tremuloides</i>	
Purple-leaf plum (n)	I	<i>Prunus cerasifera</i> cultivars	
Cherry-laurel (n)	I	<i>Prunus laurocerasus</i>	
Mexican plum (n)		<i>Prunus mexicana</i>	
Common peach (n)	I	<i>Prunus persica</i>	
Flowering Almond (n)		<i>Prunus triloba</i>	Train for tree-form
Chinese wingnut (n)		<i>Pterocarya stenoptera</i>	Does well in harsh sites with infrequent water
Pomegranate varieties (n)		<i>Punica granatum</i> cultivars	
Ornamental pear (n)	I	<i>Pyrus</i> cultivars	
Apple (n)	I	<i>Pyrus malus</i>	
Scarlet oak (n)	I	<i>Quercus coccinea</i>	
Bur oak (n)	I	<i>Quercus macrocarpa</i>	
Pin oak (n)	I	<i>Quercus palustris</i>	Not tolerant of alkaline soils
Red oak (n)	I	<i>Quercus rubra</i>	
Shumard oak (n)	I	<i>Quercus shumardii</i>	
Spanish Oak ^	I	<i>Quercus texana</i>	
Carolina buckthorn (n)		<i>Rhamnus caroliniana</i>	
Black locust (n)	I	<i>Robinia pseudoacacia</i>	
Weeping willow (n)	I	<i>Salix alba</i> varieties	
Globe willow (n)	I	<i>Salix matsudana</i>	
Black willow (n)	I	<i>Salix nigra</i>	
Western soapberry *	I	<i>Sapindus drummondii</i>	Can train as tree
Eve's necklace (n)		<i>Sophora affinis</i>	
Mescal bean (n)		<i>Sophora secundiflora</i>	Toxic seeds; do not plant in housing areas!

Common lilac (n)	I	<i>Syringa vulgaris</i> cultivars	
Tamarisk varieties (n)		<i>Tamarix</i> species	Some problems with weediness (check for not-fruiting cultivars)
Bald cypress (n)		<i>Taxodium distichum</i>	Tolerant of harsh sites
Littleleaf linden (n)		<i>Tilia cordata</i>	
Chinese elm (n)	I	<i>Ulmus parvifolia</i>	Highly recommended as replacement for Siberian elms in irrigated areas
Siberian elm (n)	I	<i>Ulmus pumila</i>	Concentrate on preserving best specimens already established
Mexican buckeye (n)		<i>Ungnadia speciosa</i>	Good shade-tolerant understory plant among large shade trees and groves
Blackhaw viburnum (n)		<i>Viburnum rufidulum</i>	Shade-tolerant; showy flowers
Yucca species ^	I	<i>Yucca</i> species	
Zelkova species (n)	I	<i>Zelkova</i> cultivars	
Japanese zelkova (n)		<i>Zelkova serrata</i>	

Note: All items shaded in yellow are to be published prior to announcement of this solicitation.

18. The following architectural drawings are available in electronic format at [www.pscmh.com](http://www.pscmh.com).

Water Supply Systems
Sanitary Sewer System
Storm Drainage System
Primary Electrical Distribution System
Street Lighting
Natural Gas Distribution System
Pavements
Exterior Renovation
Exterior Improvements (representative units only)
Housing Unit Floor Plans (representative units only)
Housing Unit Elevations (representative units only)
Housing Unit Utilities (representative units only)
Housing Area/Community Site Plan