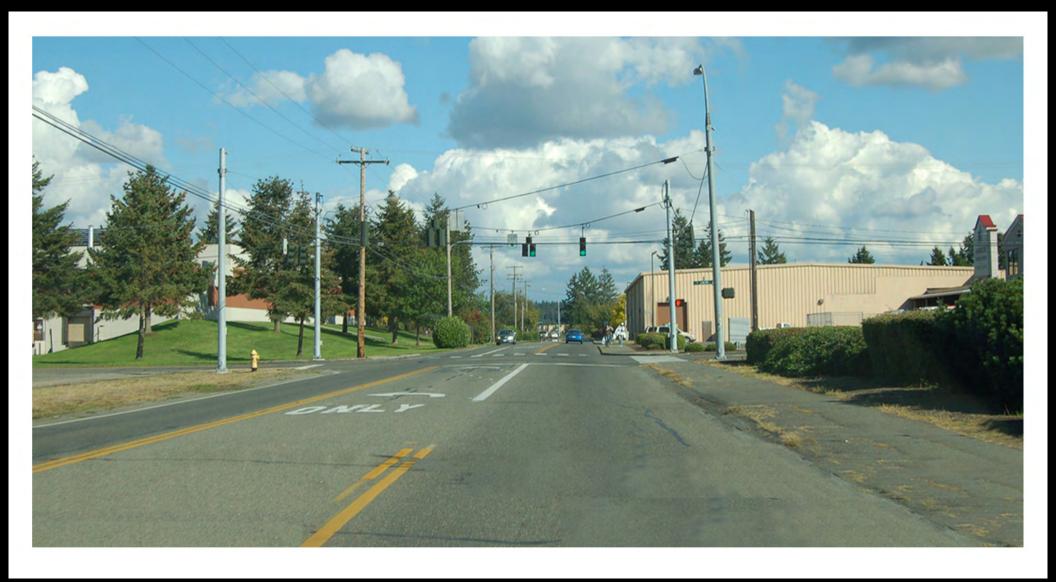
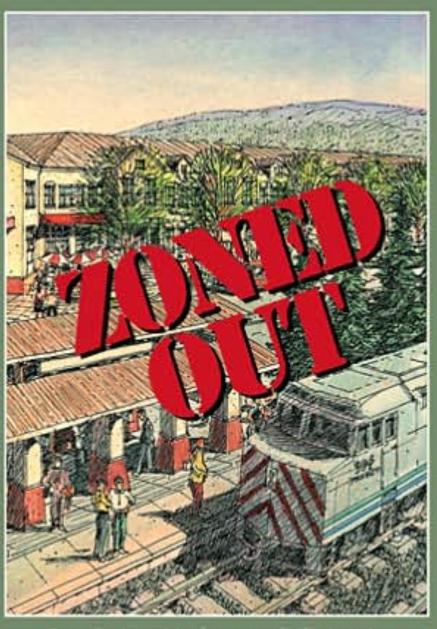
Inside the New UFC

Mark L. Gillem, PhD, AIA, AICP Associate Professor, University of Oregon Principal, The Urban Collaborative







Regulation, Markets, and Choices in Transportation and Metropolitan Land-Use

JONATHAN LEVINE

UNIFIED FACILITIES CRITERIA (UFC)

INSTALLATION MASTER PLANNING



APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

Inside the New UFC

Theory Content Application

Inside the New UFC

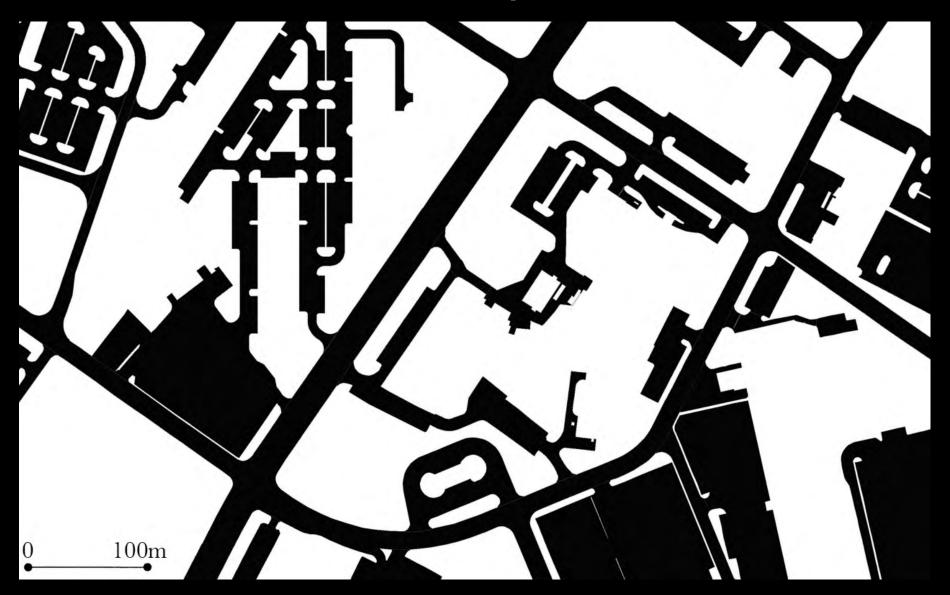
Theory

- 7 Attributes of Sprawl
- 5 Costs of Sprawl
- Regulation's Role

1. Auto-Focused



2. Abundantly Paved



3. Widely-Spaced



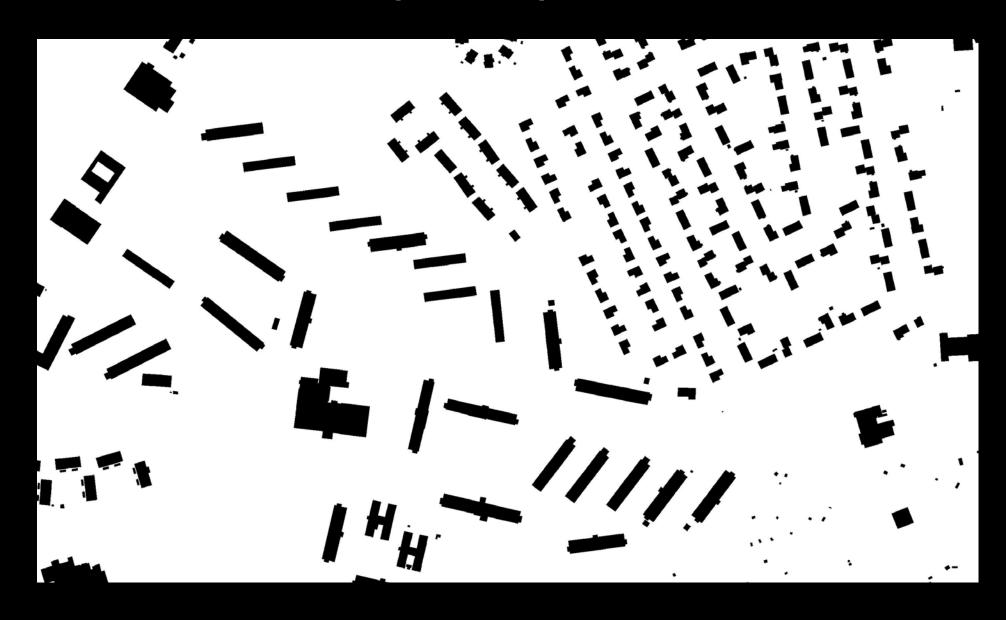
4. Extensively Lawned



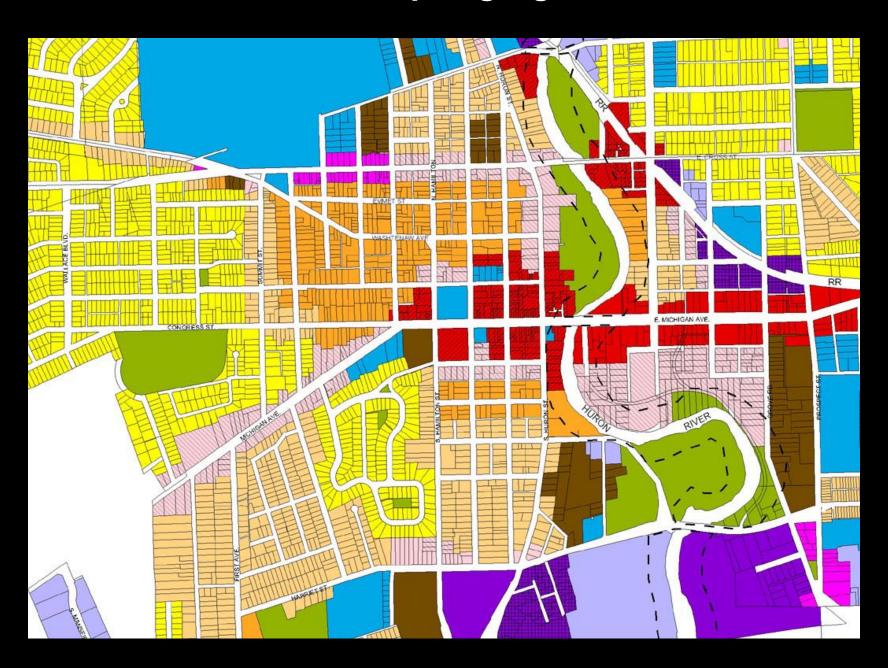
5. Increasingly Franchised



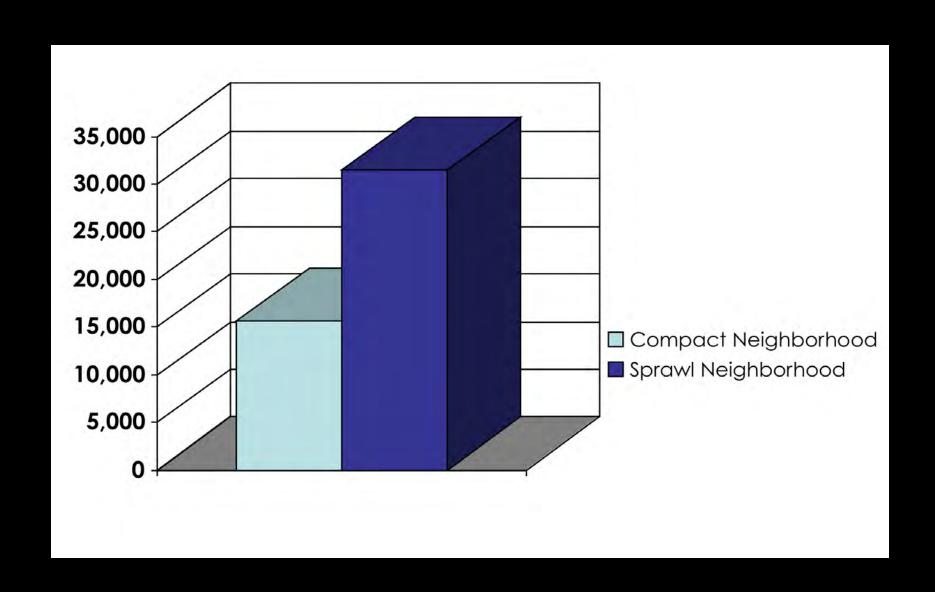
6. Haphazardly Ordered



7. Clearly Segregated



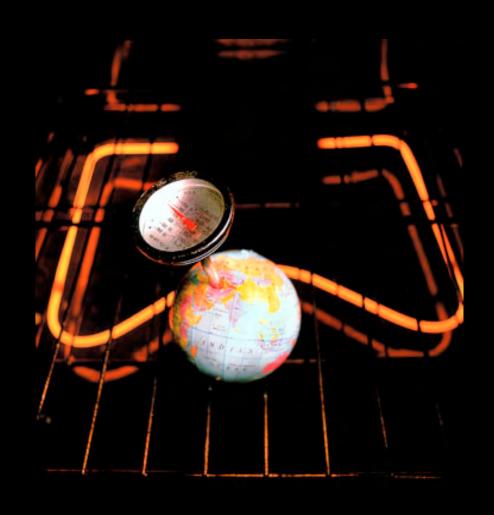
1. Transportation Impacts



2. Air Quality Impacts



3. Climate Change Impacts



4. Fiscal Impacts



5. Land Use Impacts

area for a pedestrian

area for a car

Regulation's Role

UFC 2-000-02AN 1 March 2005

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UFC 3-210-01A 16 January 2004

UNIFIED FACILITIES CRITERIA (UFC)

AREA PLANNING, SITE PLANNING, AND DESIGN



APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

UFC 4-010-01 9 February 2012

UNIFIED FACILITIES CRITERIA (UFC)

Dod Minimum Antiterrorism Standards for Buildings



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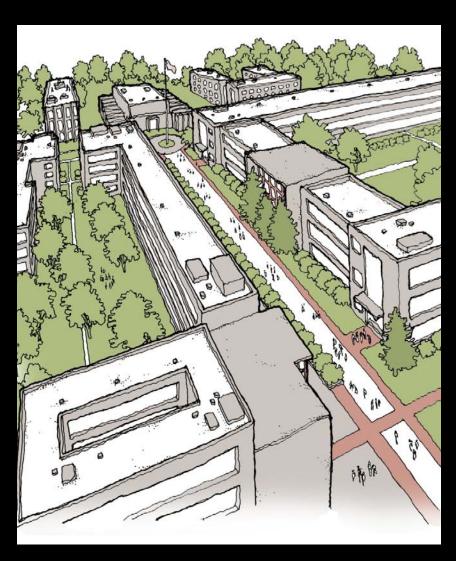


Inside the New UFC

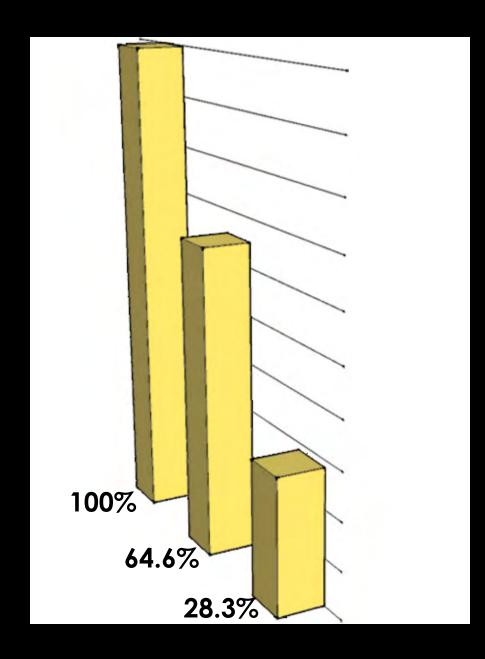
Content

- 10 Strategies
- Consistent Process and Products
- Education and Training

Compact Infill Development







Projected energy requirement for master plan 21,651,884kWh requirement

Energy requirement after sustainable planning efforts 12,538,491kWh requirement (35.4% reduction)

Energy requirement after on-site renewable energy generation 7,993,083kWh requirement (71.7% reduction)

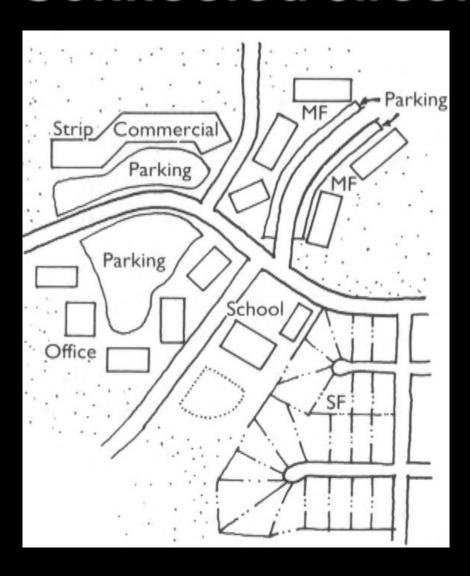
Transit Oriented Development

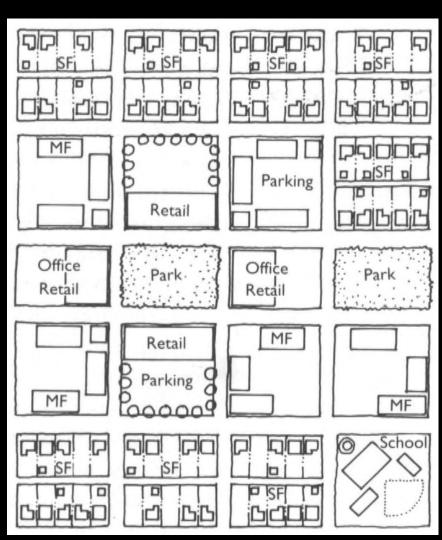


Horizontal and Vertical Mixed-Use



Connected Street Networks





Low Impact Development



Multi-Story Construction



Narrow Wings



Wide Wings

Fixed

Morphology Windows Daylighting HVAC Results Narrow Wings
Operable
Extensive
Passive with support
10.57 kWh/sf (3)

Minimal Active 20.07 kWh/sf (1996) (1) 18.6 kWh/sf (2008) LEED Silver Median (2)

- (1) Estimates of Energy Consumption by Building Type and End Use at U.S. Army Installations by Lawrence Berkeley National Laboratory, 1996.
- (2) Energy Performance of LEED® for New Construction Buildings, 2008. (http://www.usgbc.org/ShowFile.aspx?DocumentID=3930)
- (3) Based on data from Netherlands International Bank redevelopment project

2. Resource Preservation Natural, Historical, Cultural



3. Defensible Planning



4. Healthy Community Planning



5. Area Development Planning



6. Form-Based Planning



6. Form-Based Planning



Fort Lewis

Historic Downtown ADP

Town Center Housing

Master Plan Vision

Soldiers, and Families, we will create a sustainable community of walkable neighborhoods with identifiable town centers connected by great streets.

Legend

Ground level flats with townhomes above

Rowhouse

Enclosed parking spaces

Rowhouse or Mixed-use commercial space Green space

Residential Units

59 Townhomes above flats

35 Ground level flats

256 Total

Commercial Space

- 3 buildings fronting Pendleton Boulevard

- 6 buildings fronting park blocks

Rowhouse Parking

- 2 spaces per unit Provided: 324

tandem tuck-under garages

Townhome and Flat Parking

Required: 188

- 2 spaces per unit Provided: 188

84 spaces in embedded garages

104 spaces in detached garages

Guests and Commercial Parking

Required: 256 - 128 guest spaces at 0.5 spaces

- 128 commercial spaces at 4 spaces per 1,000 GSF

Provided: 256 spaces on-street

Lodging Parking

Provided: 49 spaces - 15 on-street

- 34 in parking lot

Note: All dimensions are approximate and should be field verified



Illustrative Plan

6. Form-Based Planning



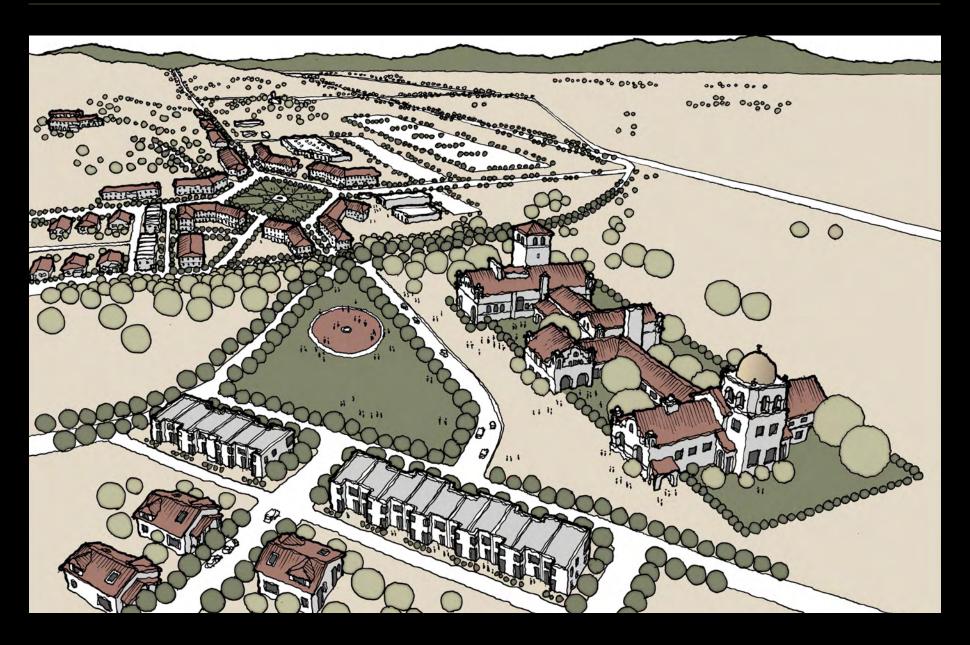
VMT Reduction: 11.4 million miles per year CO2 Reduction: 12.9 million pounds per year Per Family Savings: \$1,500 per year Housing Expansion: Over 2000 new on-base homes



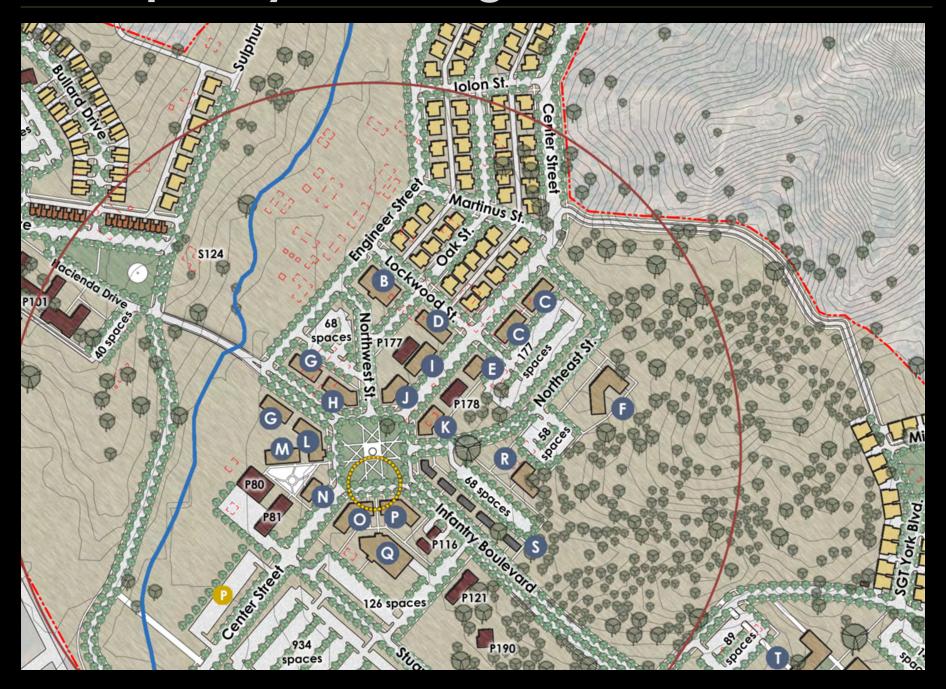
7. Network Planning



8. Capacity Planning



8. Capacity Planning



9. Facility Standardization





Company Operations Facility, Fort Lewis, FY05

Company Operations Facility, Fort Lewis, FY07

10. Plan-Based Programming

ADP Project Number	Project	WR#	Facility	Category
1	Road repaived and parking lot extended to boundaries of area to provide capacity for displaced ship forces parking (350 stalls added to existing 400 stalls). Sidewalks added for pedestrian safety. Historic gantry crane foundations incorporated the design. (Ref CLR)	NEW		MISSION
2	New entry to dry dock from the south to serve pedestrians from relocated parking.	NEW		MISSION
3	Fence lines adjusted to provide shipyard with more space.	NEW		MISSION
4	Keel blocks and shipyard/BAE conex boxes consolidated with BAE service VEH parking at C&P yard.	NEW		MISSION
5	BAE laydown area coordinated with Repave Annex C	541235		MISSION
6	BAE funded renovations for B370 and/or B326 as required for storage facility	NEW	B370/B326	MISSION
7	Repave Seabee Way replace yellow barricades with sldewalk to provide pedestrian safety, Reduce Seabee Way to two lanes.	541360		SAFETY
8	Make Cushing St. one way to allow for safe passage of vehicles and pedestrians. Add sidewalk,	NEW		SAFETY
9	Repaye parking lot H. project to incorporate street trees. Possible site for PV's (REF. BMP/IAP)	541065		APPEARANCE/ENERGY
10	Repave Central Ave, extend street trees. Add sidewalks to project (REF, BMP)	541359		SAFETY/APPEARANCE
11	Repaye Annex C parking lot. Possible site for PV's.	541235		APPEARANCE/ENERGY
12	Repave Port Royal St. Add sidewalks to project (REF BMP)	541361		SAFETY
13	Relocate function in 8367, possibility to relocate to Pl. Kam housing,	NEW	B367	MISSION
14	Establish Ford Island Way as a boulevard to create the appropriate procession to historic shoreline ara. Currently coordinating with privatized housing to determine feasibility (REF, BMP/IAP)	NEW		MISSION/SAFETY/APPEARANCE
15	Relocate DJC2. demo 1660. Develop low impact development parking lot (approx. 300 stalls) to serve ship forces. Shipyard and new park. Creates buffer to residential area. Possible site for PVS (REF. RIP/IAP)	NEW	1660	MISSION/APPEARANCE
16	DLA Maritime Tank area reduced by half.	NEW		MISSION/SAFETY
17	MWR car lots. New facilities planned here per facility modernization plan 2008. To be used for FEAD construction landown.	NEW		MISSION
18	Resurface Hospital Way. Create one way road to serve as exit from Shipyard area.	541345		SAFETY/APPEARANCE
19	Consider extending South Ave paving project to end.	541179		APPEARANCE





Inside the New UFC

Content

- 10 Strategies
- Consistent Process and Products
- Education and Training

Process and Products

Develop the Vision Plan

Prepare Planning Standards

Create the Installation Development Plan

Area Development Plans
Network Plans

Identify the Development Program

Publish a Summary Document

Inside the New UFC

Content

- 10 Strategies
- Consistent Process and Products
- Education and Training

THE DEPARTMENT OF DEFENSE MASTER PLANNING INSTITUTE CATALOG

SPONSORED IN PART BY THE U.S. ARMY CORPS OF ENGINEERS PROPONENT-SPONSORED ENGINEER CORPS TRAINING (PROSPECT) PROGRAM



www.dodmpi.org

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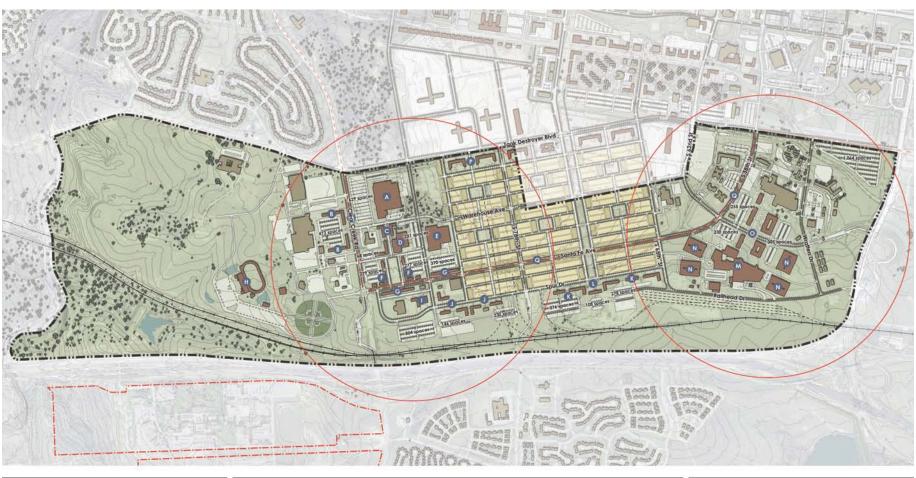
Applications

FORT HOOD

CLEAR CREEK/DARNALL AREA DEVELOPMENT PLAN



Illustrative Plan



Fort Hood Clear Creek/Darnall ADP Illustrative Plan









The Great Place with accessible campuses, walkable small towns, and modern infrastructure.

The Urban Collaborative, LLC

Exchange: 262,367sf

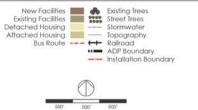
AAFES Expansion: 31,360sf per floor (2-4 floors)
Mixed-Use Retail/Administration: 50,900sf per floor (3-4 floors)
Ulbrary: 82,800sf per floor (3-4 floors)
Commissary/Housing Above: 161,100sf per floor (3-4 floors)
Mixed-Use Retail/Administration: 26,500sf per floor (3-4 floors)
Mixed-Use Retail/Administration: 53,620sf per floor (2-4 floors)
Sports Area/Complex: 268,100sf per floor (1-3 floors)
Theater: 31,700sf per floor (2-4 floors)
Department of Public Works: 65,100sf per floor (2-3 floors)
Mixed-Use Retail/Administration: 82,50dsf per floor (2-3 floors) Multi-Level Parking Structure: 94,900sf per floor (2-4 floors) Medical Complex: 170,010st per floor (2-4 floors)
Multi-Use Administration: 52,970st per floor (2-4 floors)
Public Transit Stop Car Park Space: On-Street Parking: Total Parking:

Mixed-Use Retail/Administration: 82,560sf per floor (2-3 floors)

Garrison/Unit Administration: 12,800sf per floor (2-3 floors)

Medical Center: 947,000sf

5,823 spaces 3,228 spaces 9,051 spaces Total New Building Area (min): Total New Building Area (max): 3,827,127sf 7,131,394sf New Detached Housing: 486 parcels New Barracks/Apartments: 519 parcels



Regulating Plan



Fort Hood Clear Creek/Darnall ADP Regulating Plan





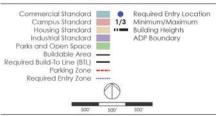




The Great Place with accessible campuses, walkable small towns, and modern infrastructure.

The Urban Collaborative, LLC

- 1. Refer to the Street Standards for detailed street in formation.
- 2. Refer to the Building Standards for detailed building
- 3. Recreation area shall be used solely for programmed recreation activities (ex. tennis courts, basketball courts, softball
- 4. Unregulated areas shall be permanently designated as open
- 5. Numerical designation in each buildable area refers to minimum and maximum allowable number of floors.



Conceptual Rendering – Town Square



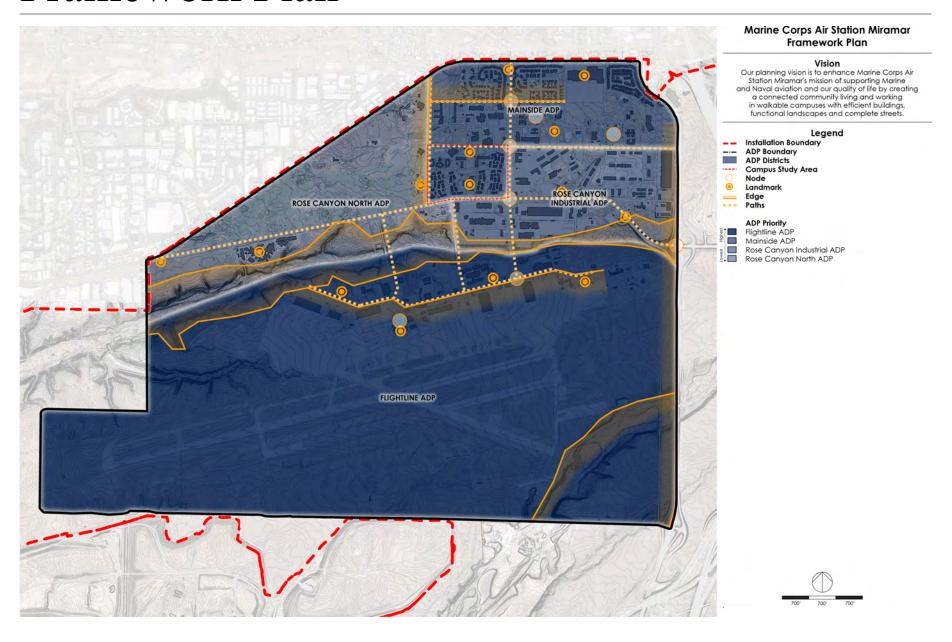
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MARINE CORPS AIR STATION MIRAMAR

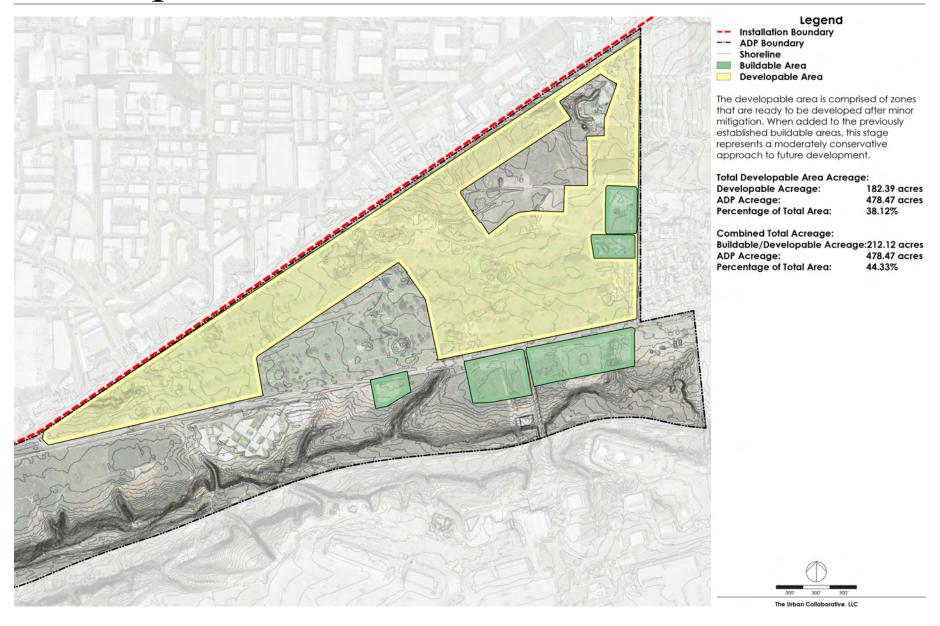
VISION PLAN



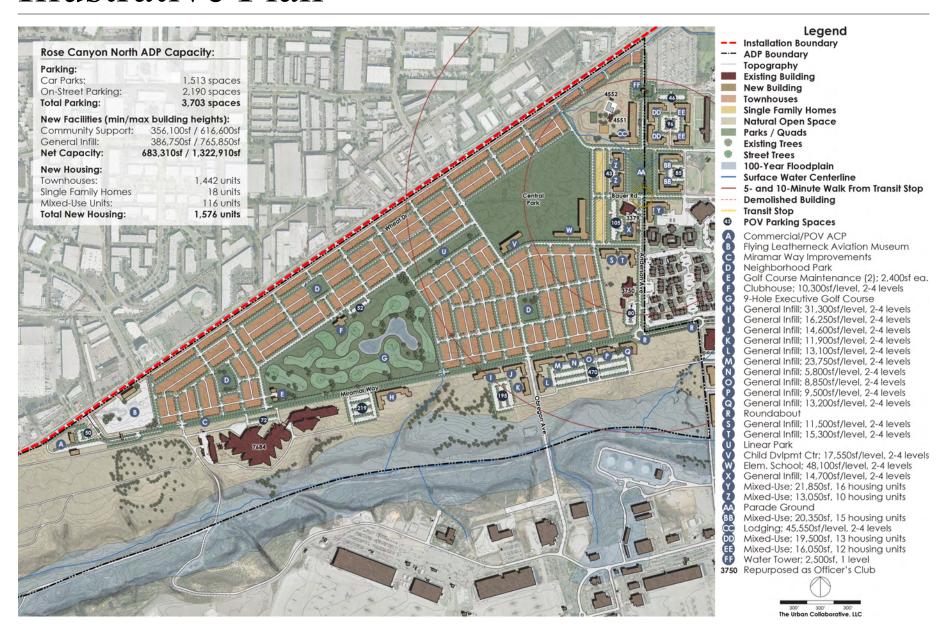
Framework Plan



Developable Area Plan



Illustrative Plan



DRAFT

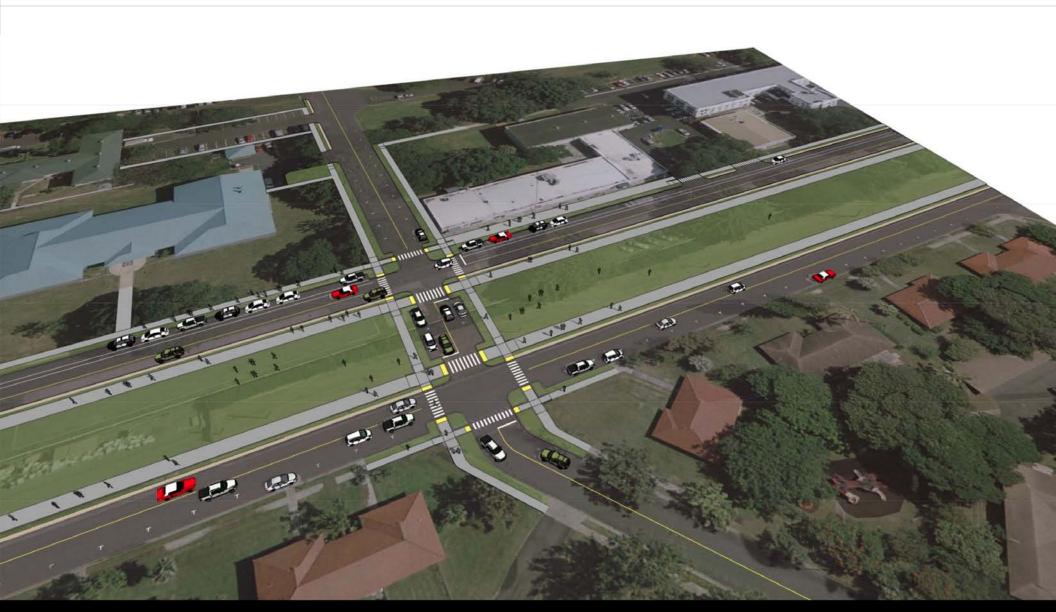
JOINT BASE PEARL HARBOR-HICKAM
SOUTHSIDE AREA DEVELOPMENT PLAN TRAINING PRACTICUM REPORT





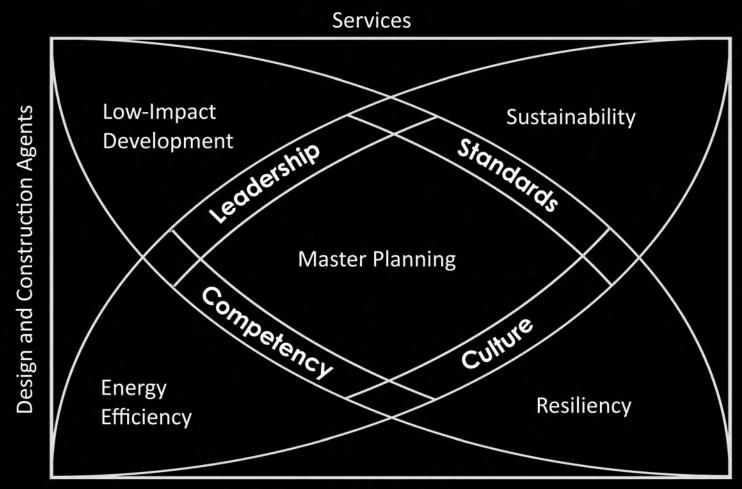












Major Commands