PHASE 2: CASE STUDIES & DESIGN PRECEDENTS

This second phase involves the study and analysis of precedents and methods in the redesign and reclamation of large, complex landscapes. Drawing from an array of regional and international examples, the research involves case studies that visually describe, analyze and interpret design strategies from contemporary projects, according to a predetermined set of sites and topics. Starting with a range of military bases, the set of sites provides examples of large scale land uses that combine active military functions, urban land uses, ecological processes, land management methods, remediation technologies, and biodiversity strategies. With an emphasis on ecological processes, the main objective of the research is to graphically elucidate the regional systems and dynamic processes (bio-physical and hydro-physical) that conceptually and physically underlie the urban future of the sites, as design precedents. The second objective of the project aims to hone in on patterns or flows of organization at the macro-level, with attention to how they are translated into cross-sectional interventions at the micro level. Using different forms of diagrammatic representation and composite imaging, the penultimate objective of this phase is to understand how strategies, patterns and flows can affect large, complex landscapes by design. Employing representation as a form of research, the second phase underscores the significance of graphic analysis towards the translation of methods and techniques for the development of design strategies and details in Phase 3.

FORMAT

The case studies will be conducted in designated groups and reviewed on Thursday, September 27th, 2011. References and examples of work are provided in class and weekly course readings as baselines for the scope and quality of the project. Each team will produce a series of 4 panels that interpret the strategic, ecologic, and technological aspects of the each case study site. The first panel introduces the site with a scaled aerial image, while the second panel interprets the regional context with an interpretation of the context with an interpretive pattern diagram. Panels 3 and 4 describe the strategic relationship between site ecology and site operations using layered, diagrammatic techniques that describe topographic and hydrologic conditions, with attention to change over time. The third and fourth panels graphically describe the metrics of dynamic processes related to site conditions or strategies.
FINAL REQUIREMENTS

Panels: Four 24” x 36” panels
Scale: Panel 1 - Aerial View
        Orthographic image framed and scaled (1:10,000, 1:25,000, 1:50,000)
        Panel 2 - Regional Process Pattern
        Shaded relief or figure ground overlay, as interpretive diagram, showing
        relationships and patterns between topography, hydrology, biota,
        movement, industrial zones, urban areas.
        Panel 3 - Ecological Strategy
        Multi-layered diagram (exploded axonometric) that indexes urban site
        conditions and biophysical processes as programmatic devices
        Panel 4 - Time-Scale
        Time series showing strategic depths and levels, or dynamic flows and
        processes over time (series of sections or plans, schedules,
        sequences, or timelines)

*Refer to Panel Guidelines for graphic formatting. Images and diagrams should make use of line weight differentiation, indexical information, ecological notations, base metrics, dimensions as modes of representation. Use of color and secondary imagery should be limited to the extent that it is necessary to the interpretation of the case study site.

Description: 100 words/panel (title, caption)
Presentation: 5 minutes (max.10 slides)

SCHEDULE & DELIVERABLES

13-Sep Project Description, Schedule, Format & Groups (Scope, Scale, Preliminary Research)
15-Sep Studio Desk Reviews - Process Mapping (11”x17” Preliminary Layouts, Panels 1-2-3)
20-Sep Studio Desk Reviews - Ecological Unlayering (11”x17” Advanced Layouts, 24”x36” Drafts Layouts)
22-Oct Studio Desk Reviews - Ecological Unlayering (24”x36” Progress Layouts, Pre-Final Drafts)
26-Sep Hand-In (8:00pm)
27-Sep Final Review - Case Studies (24”x36” Final Panels, Slide Shows)

EVALUATION

Phase 2 is worth 10% of the overall course grade. Grading will place emphasis on synthesis of information, visual clarity, depth of research, graphic originality and final presentation. All submissions must include printed matter, digital files and original source files to the designated course folder.

PRECEDENT STUDIES

<table>
<thead>
<tr>
<th>Grp</th>
<th>Site</th>
<th>Location</th>
<th>Type</th>
<th>Current Conditions &amp; Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Adak Naval Air Station</td>
<td>Adak, Alaska</td>
<td>Decommissioned Naval Installation</td>
<td>Island used for hazardous waste disposal and fire-fighting training is now a federally designated wilderness area with remediation process near completion.</td>
</tr>
<tr>
<td>2</td>
<td>Andersen Air Force Base</td>
<td>Yigo, Guam</td>
<td>Active Air Force Installation</td>
<td>Base associated with conservation plan for Guam National Wildlife Refuge. Site with endangered species and contaminated aquifers, currently undergoing re-development with potential for hybrid energy production.</td>
</tr>
<tr>
<td>3</td>
<td>Barbers Point Naval Air Station</td>
<td>Kalaeloa, Hawaii</td>
<td>Decommissioned Naval Installation</td>
<td>Active base with bombing range and reserve for grassland restoration strategies.</td>
</tr>
<tr>
<td>4</td>
<td>Boardman Air Force Range</td>
<td>Boardman, OR</td>
<td>Active Naval Installation</td>
<td>World's largest air force base with endangered species conservation program.</td>
</tr>
<tr>
<td>5</td>
<td>Eglin Air Force Base</td>
<td>Valparaiso, Florida</td>
<td>Active Air Force Installation</td>
<td>Base with contaminated sites and biodiversity strategy plan.</td>
</tr>
<tr>
<td>6</td>
<td>Elmendorf-Richardson Air Force Base</td>
<td>Anchorage, Alaska</td>
<td>Active Air Force Installation</td>
<td>Fort undergoing expansion and facing opposition from surrounding community.</td>
</tr>
<tr>
<td>7</td>
<td>Fort Belvoir</td>
<td>Fort Belvoir, Virginia</td>
<td>Active Army Installation</td>
<td>Coastal base with endangered species management plan.</td>
</tr>
<tr>
<td>8</td>
<td>Fort Benning</td>
<td>Columbus, Georgia</td>
<td>Active Army Installation</td>
<td>Base with sustainable growth management strategy.</td>
</tr>
<tr>
<td>9</td>
<td>Fort Bragg</td>
<td>Fayetteville, NC</td>
<td>Active Army Installation</td>
<td></td>
</tr>
</tbody>
</table>
Large reservation with an integrated fire management plan that uses strategies of suppression, prescribed fire, and wildland fire use.  

Active base with successful endangered species conservation and environmental education program.  

National park with beach, dunes, maritime forest and abandoned military installations.  

A new amalgamation of three bases located near the New Jersey Pinelands National Reserve.  

Installation with preservation strategy for vernal pools and endangered species.  

Site with active academic institutions and research collaborations.  

Joint civil-military airport with new hangars, helicopter school and reserve center.  

2009-2010

Past Sites & Locations

1. Riem Park, Munich, DE (Latitude Nord)
2. Landschaftspark Duisburg Nord, DE (Latz)
3. Westergasfabriek, Amsterdam, NL (Gustafson Porter)
4. Fresh Kills Landfill, Staten Island, NY (Field Operations)
5. Igualada Cemetery Park, Barcelona, (Miralles, Piños)
6. Crissey Field, San Francisco (Hargreaves Associates)
7. Orange County Great Park, CA (Ken Smith Workshop)
8. Downsview, Toronto, Canada (OMA/Mau)
9. Gateway National Recreation Area, New York
10. La Vall De'n Joan, Barcelona, Spain (Batlle i Roig)
11. Mer Bleue Conservation Area, Ottawa, Canada
12. Agricultural Utilization Research Institute, MN
13. Cedar Creek Ecosystem Science Reserve, MN
14. Jepson Prairie Organics, Vacaville, CA
15. Edmonton Composting Facility, Edmonton, AL
16. Bioteknisk Jordrens, Kalundborg, DK
17. Stapleton Airport, Denver, CO
18. Crosswinds Marsh, Wetland Preserve, MI
20. Sharon Park, Hiriya Recycling Depot (Latz & Partners)
21. Fort Knox Military Reservation

Veteran Village San Diego, CA
Wind Turbine Facility, Valde-Roskilde, DK
Tempelhof, Berlin, DE
Hellenikon Metropolitan Airport, Greece (Coignet)
Hoge Veluwe State Park - Kröller Müller Museum (West 8)
Bark Camp Mine Complex, PA
Phytoremediation Research Station, Argonne National Lab
Tree Town USA, Glen Flora, TX
Bois-de-Boulogne, Paris, FR
Parque del Lago, Quito, Ecuador

Land Use Strategies, Typologies & Technologies
Technology Park, Energy Campus, Metropolitan Parkland
Former Steel Factory, Soil Remediation, Urban-Regional Parkland
Former Gasworks, Remediation, Urban Parkland
Former Landfill, Remediation, Encapsulation, Energy Production, Parkland
Former Quarry, Cemetery
Former Airfield, Remediation, Coastal Reconstruction, Urban Parkland
Former Airfield, Remediation, Earthworks, Regional Parkland, Urban Development
Former Air Base, Bio-Technology Park, Testing Facility
Former Air Base, Remediation, Coastal Conservation Management, National Park
Former Landfill, Bioengineering, Erosion Control, Regional Parkland
Wetland Conservation, Federal Park, Greenbelt, University Research
Hybrid Poplar Propagation, Phytoremediation, Heli-Seeding
Grass Farming, Prescribed Burning, Plant Science
Soil & Fertilizer Manufacturing
Biosolids Recycling & Composting
Geo remediation & Soil Recycling
Constructed Wetlands, Aqua-Remediation, Stormwater Management, Urban Parkland
Constructed Wetlands, Airport Land Bank, State Conservation Area
Containment, Solidification, Dredge Reuse
Former Landfill, Remediation, Encapsulation, Energy Production, Urban Parkland
Operating Base, Seasonal Hunting, Recreational Camping, Trailer Park
Veteran Rehabilitation, Physical Training, Farming
Turbine Manufacturing
Former Airbase
Grass Farming, Plant Science, Biotech Field Station
Forest Park
Former Airfield
National Park, Regional Hunting Zone, Preseve, Modern Art Museum
Dredge & Coal Ash Reuse
Phyto- & Geo-remediation & Botanical Research, Biointication
Plant Nursery, Silviculture, Propagation
Managed Forest, Silviculture, Metropolitan Park
Former Airbase Base