

# ARCH 1250 APPLIED ENVIRONMENTAL STUDIES

## SITE GRAPHICS *for* *Inventory, analysis and design*

Prof. Paul C. King, RA, AIA, ARA  
Assistant Professor  
New York City College of Technology

TERM PROJECT  
SAMPLE  
GRAPHICS

Ian McHarg

INVENTORY

ANALYSIS

DESIGN

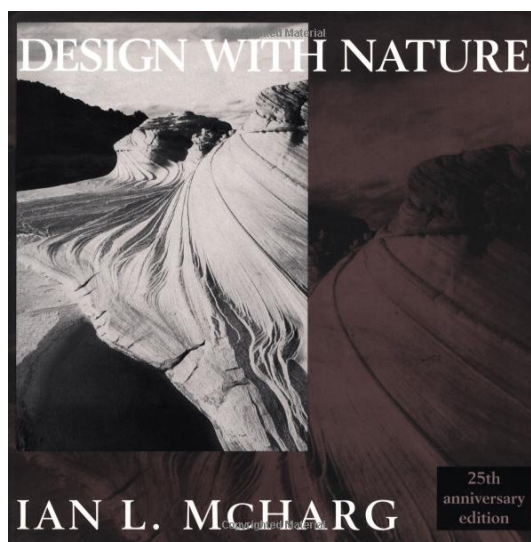
PRESENTATION

ARCH 1250  
APPLIED  
ENVIRONMENTAL  
STUDIES

NYC COLLEGE  
OF TECHNOLOGY

## Site Analysis

Ian McHarg Style Layered approach



"Let us green the earth,  
restore the earth,  
heal the earth."

Source: [http://www.larch.umd.edu/classes/larc/L160/Lecture%20Presentations/Planned\\_Communities\\_11\\_3\\_08.pdf](http://www.larch.umd.edu/classes/larc/L160/Lecture%20Presentations/Planned_Communities_11_3_08.pdf)

## TERM PROJECT

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## INVENTORY

## ANALYSIS

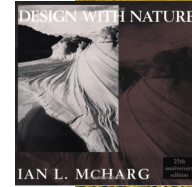
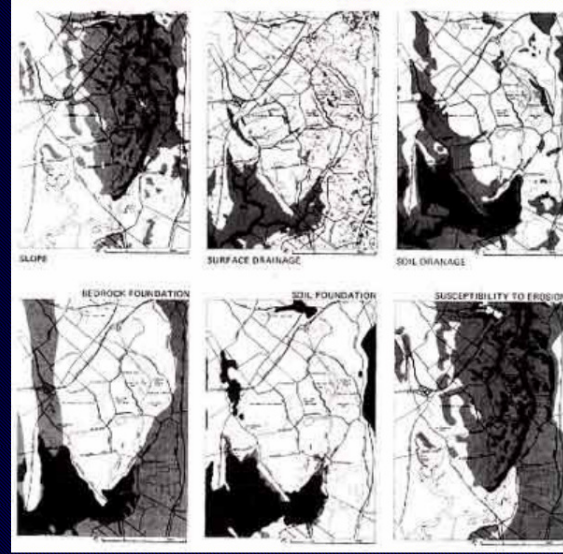
## DESIGN

## PRESENTATION

ARCH 1250  
APPLIED  
ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Site Analysis - Ian McHarg Style Layered approach

## Overlay Method for Site Analysis



*"Let us ask the land where  
are the best sites.  
Let us establish criteria for  
many different types of  
excellence responding to a  
wide range of choice"*

Source: [http://www.larch.umd.edu/classes/larc/L160/Lecture%20Presentations/Planned\\_Communities\\_11\\_3\\_08.pdf](http://www.larch.umd.edu/classes/larc/L160/Lecture%20Presentations/Planned_Communities_11_3_08.pdf)

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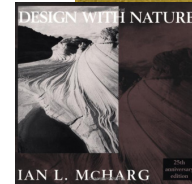
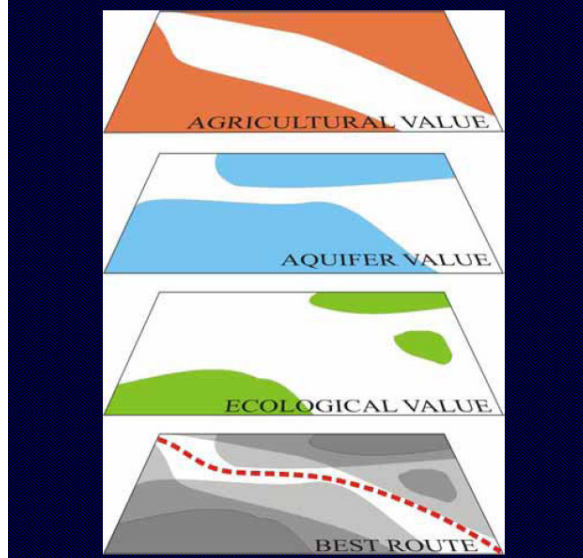
## DESIGN

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## Site Analysis - Ian McHarg Style Layered approach

## Overlay Method for Site Analysis



*"The most important issue  
of the 21st century  
will be the condition of the  
global environment."*

Source: [http://www.larch.umd.edu/classes/larc/L160/Lecture%20Presentations/Planned\\_Communities\\_11\\_3\\_08.pdf](http://www.larch.umd.edu/classes/larc/L160/Lecture%20Presentations/Planned_Communities_11_3_08.pdf)



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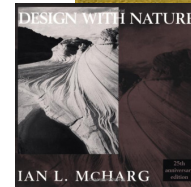
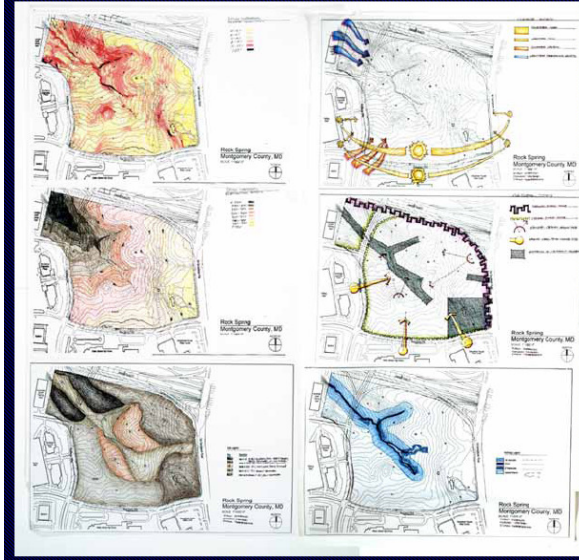
DESIGN

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ARCH 1250  
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OF TECHNOLOGY

## Site Analysis - Ian McHarg Style Layered approach

### Site Analysis for Land Planning



"It seems a more appropriate description for ecological relationships."

Source: [http://www.larch.umd.edu/classes/larc/L160/Lecture%20Presentations/Planned\\_Communities\\_11\\_3\\_08.pdf](http://www.larch.umd.edu/classes/larc/L160/Lecture%20Presentations/Planned_Communities_11_3_08.pdf)

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## Site Analysis

### Topography & Slope Suitability



Source: <http://www.scribd.com/doc/6691376/Site-Analysis-Drawings>



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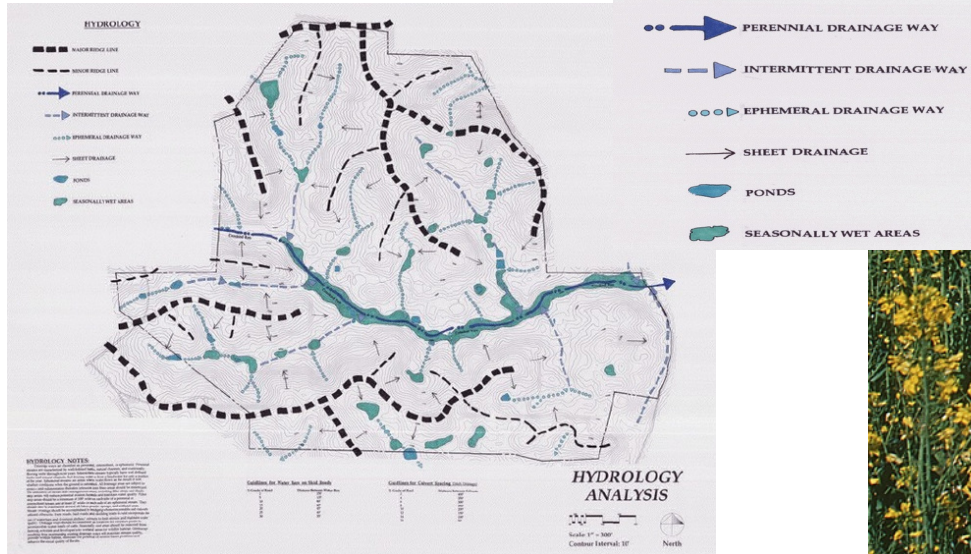
## DESIGN

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ARCH 1250  
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## Site Analysis

## Hydrology

Source: <http://www.scribd.com/doc/6691376/Site-Analysis-Drawings>

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## ANALYSIS

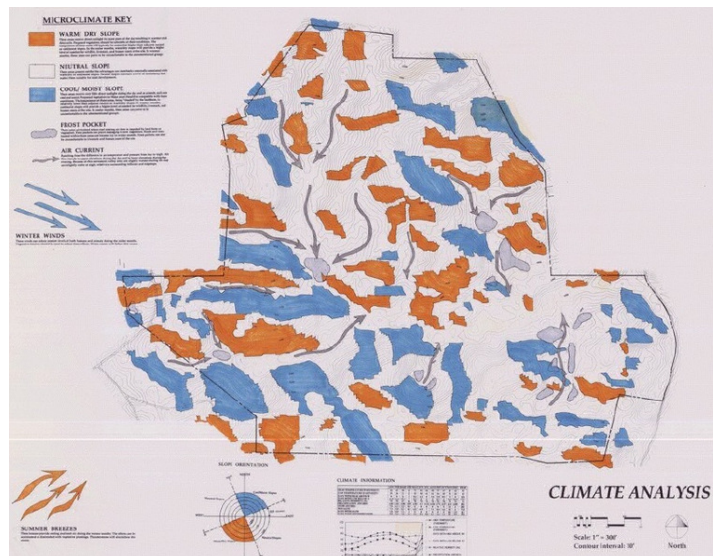
## DESIGN

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ARCH 1250  
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## Site Analysis

## Climate &amp; Microclimate

Source: <http://www.scribd.com/doc/6691376/Site-Analysis-Drawings>



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# Site Analysis

Vegetation &amp; Wildlife

Source: <http://www.scribd.com/doc/6691376/Site-Analysis-Drawings>

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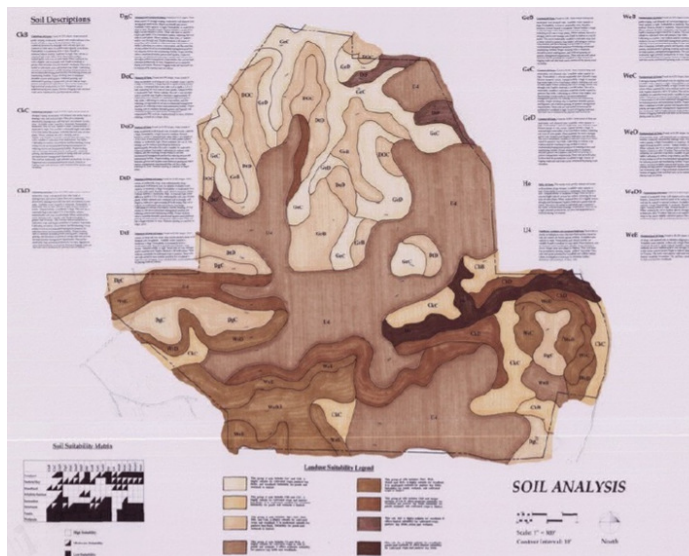
DESIGN

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ARCH 1250  
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# Site Analysis

Soils

Source: <http://www.scribd.com/doc/6691376/Site-Analysis-Drawings>



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## Site Analysis

## Existing Conditions

Source: <http://www.scribd.com/doc/6691376/Site-Analysis-Drawings>

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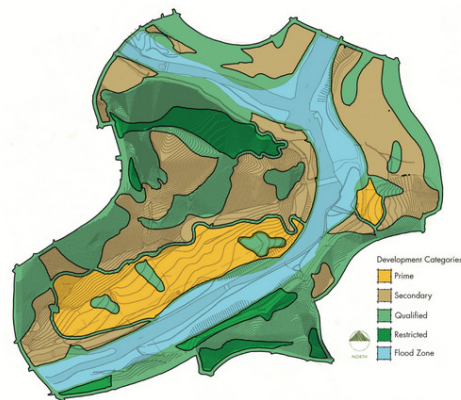
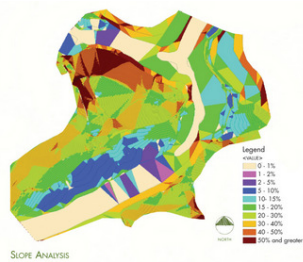
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## Site Analysis

Source: [http://www.asla.org/2010awards/images/largescale/370\\_05.jpg](http://www.asla.org/2010awards/images/largescale/370_05.jpg)



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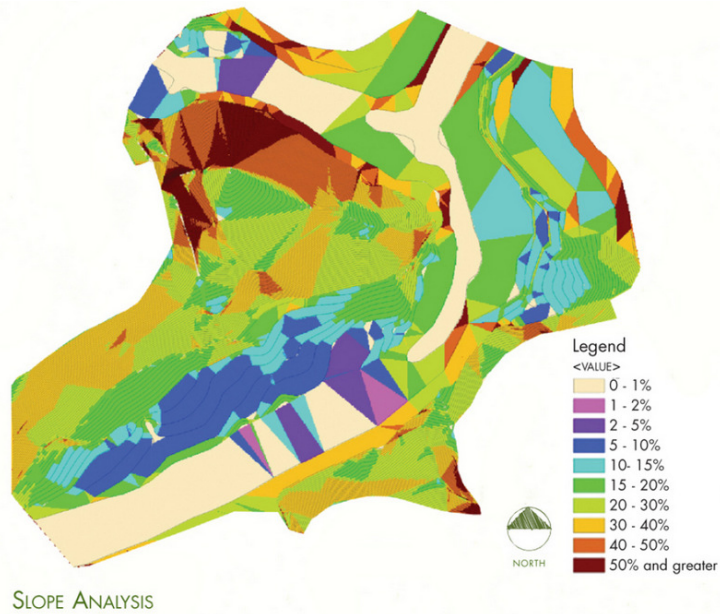
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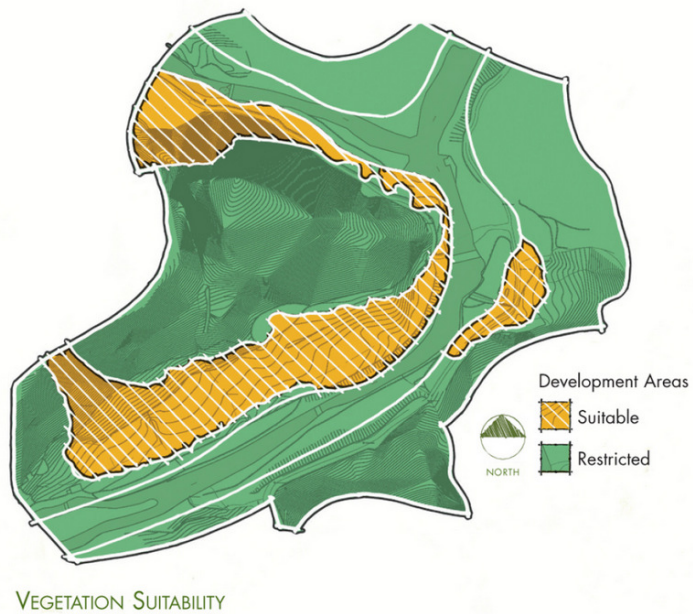
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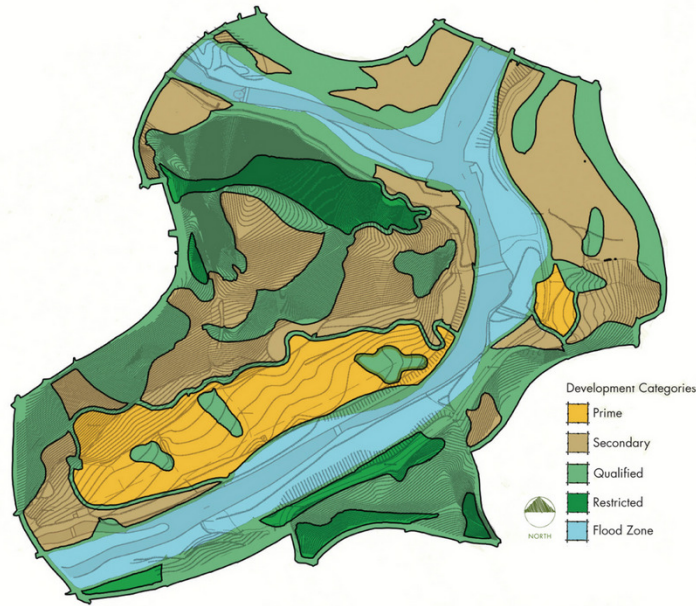
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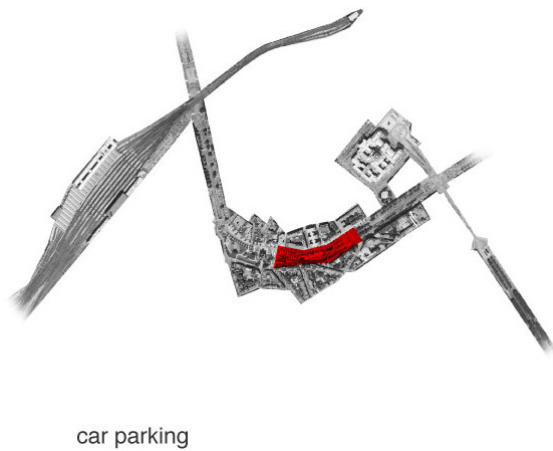
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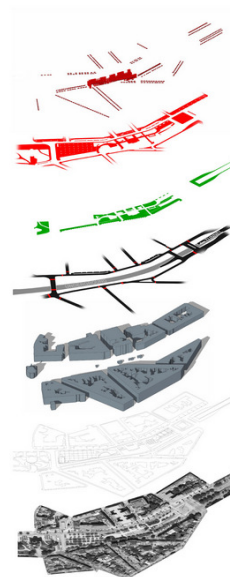
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OF TECHNOLOGY

# Site Analysis

Ian McHarg Design with Nature



site analysis

Source: [http://studiotwo.files.wordpress.com/2007/03/site\\_analysis.jpg](http://studiotwo.files.wordpress.com/2007/03/site_analysis.jpg)



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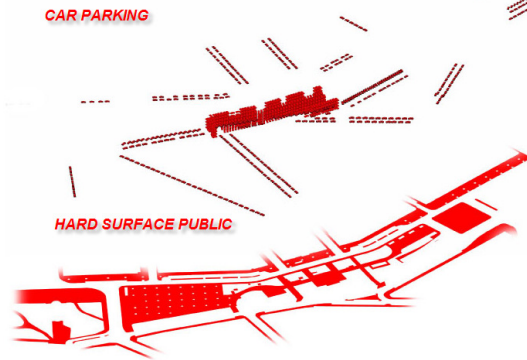
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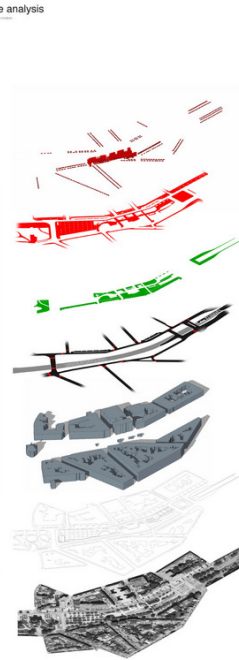
ARCH 1250  
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STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Site Analysis

Ian McHarg Design with Nature



site analysis



car parking

hard surface public space

soft surface public space

roads and crossings

built fabric

over-laid onto ring road

site photograph

Source: [http://studiotwo.files.wordpress.com/2007/03/site\\_analysis.jpg](http://studiotwo.files.wordpress.com/2007/03/site_analysis.jpg)

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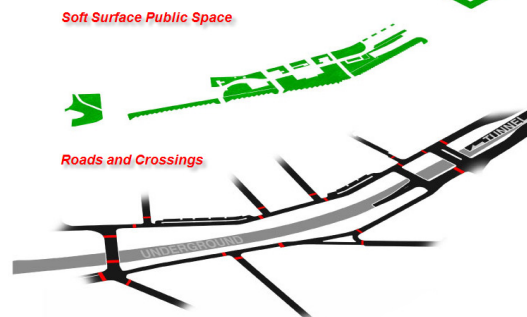
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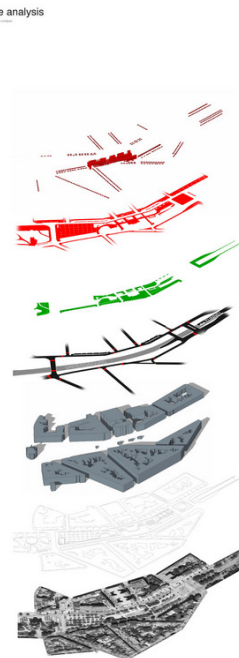
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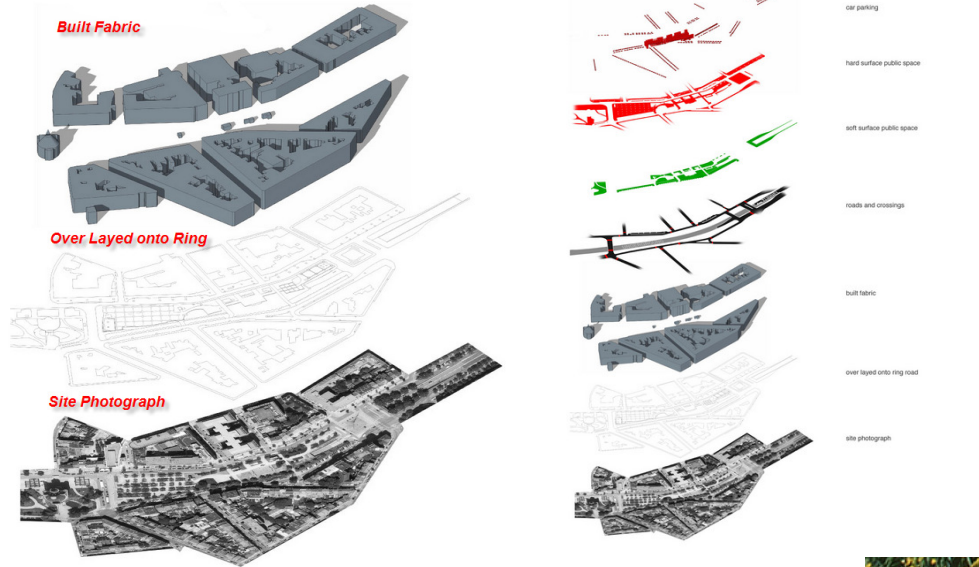
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ARCH 1250  
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Ian McHarg Design with Nature

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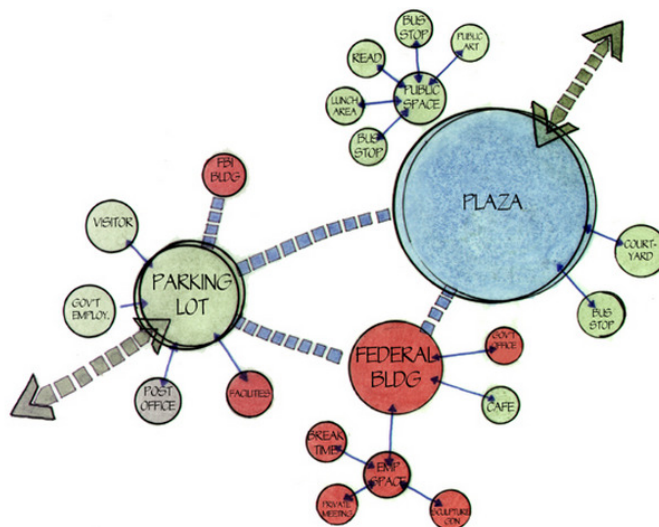
## DESIGN

## PRESENTATION

BUBBLE  
DIAGRAMSARCH 1250  
APPLIED  
ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Design - Bubble Diagrams

Space Relationships &amp; Circulation

Source: [http://www.marksusser.com/images/concept/bubble\\_diagram\\_w.jpg](http://www.marksusser.com/images/concept/bubble_diagram_w.jpg)



## TERM PROJECT

SAMPLE  
GRAPHICS

Ian McHarg

## INVENTORY

## ANALYSIS

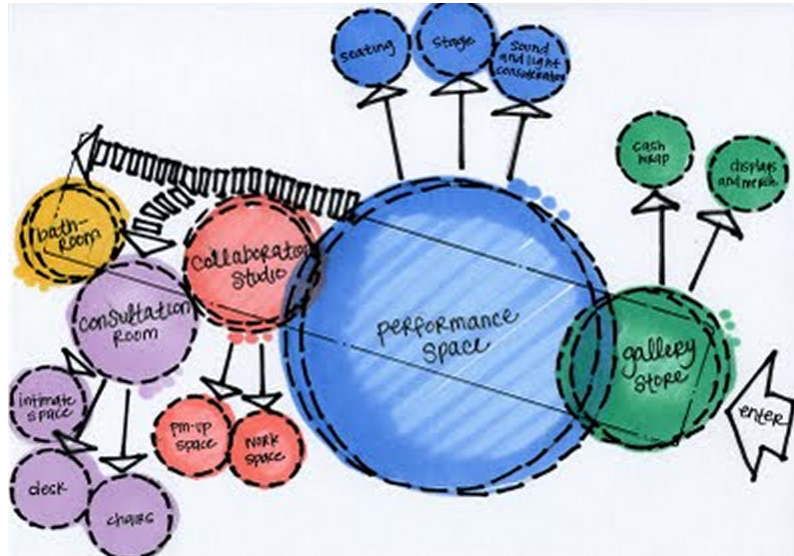
## DESIGN

## PRESENTATION

BUBBLE  
DIAGRAMSARCH 1250  
APPLIED  
ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Design - Bubble Diagrams

## Space Relationships &amp; Circulation

Source: <http://lilyglover.blogspot.com/2009/10/hatchery-bubble-diagram.html>

## TERM PROJECT

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## ANALYSIS

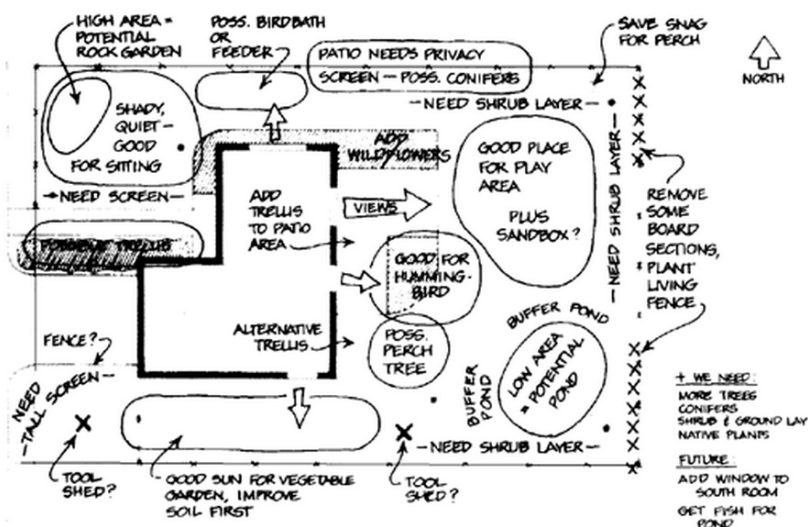
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BUBBLE  
DIAGRAMSARCH 1250  
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ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Design - Bubble Diagrams

## Space Relationships &amp; Circulation

Source: <http://www.epa.gov/greenacres/wildones/images/bubble.gif>







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ARCH 1250  
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STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Planning Presentation

Whatcom county public works

Source: [http://www.whatcomcounty.us/publicworks/ferry/images/LIFPD\\_SiteAnalysis.P1\\_000.jpg](http://www.whatcomcounty.us/publicworks/ferry/images/LIFPD_SiteAnalysis.P1_000.jpg)

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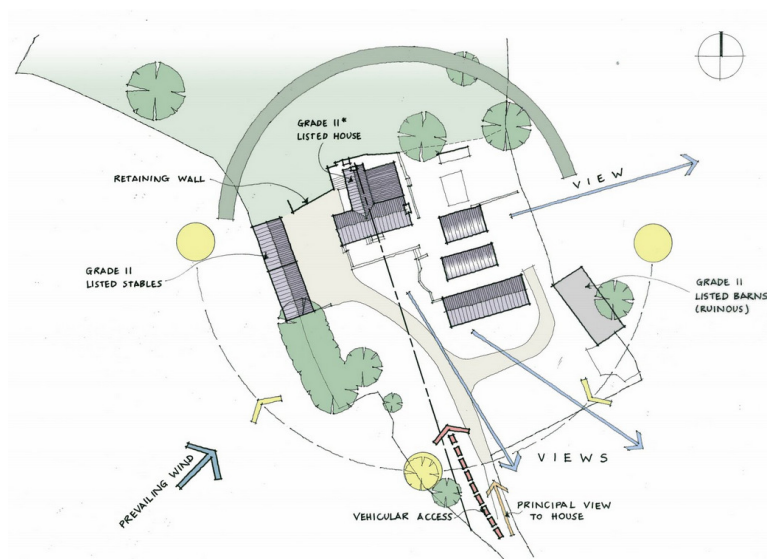
## DESIGN

## PRESENTATION

ARCH 1250  
APPLIED  
ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Inventory Presentation

Views, Access, Winds, Sun

Source: <http://www.whatarchitectsdo.org.uk/2010/08/case-study-gilfach-y-berthog.html>



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SAMPLE  
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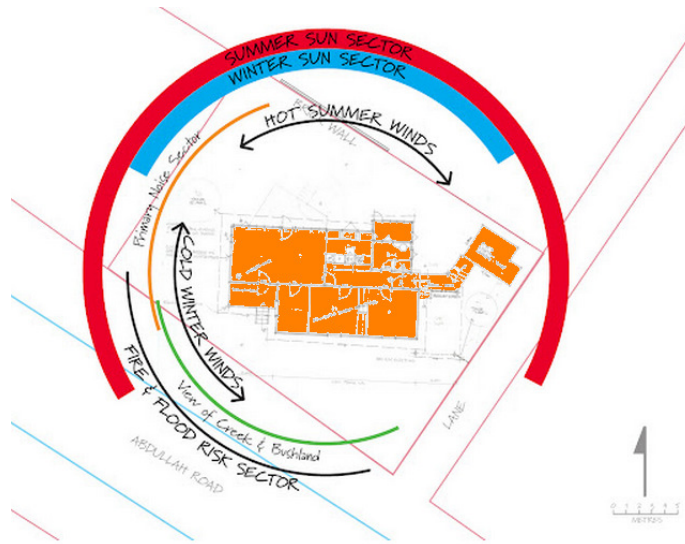
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## PRESENTATION

ARCH 1250  
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ENVIRONMENTAL  
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OF TECHNOLOGY

## Inventory Presentation

Prevailing Winds and Sun Paths

Source: [http://abdallahhouse.blogspot.com/2009\\_01\\_01\\_archive.html](http://abdallahhouse.blogspot.com/2009_01_01_archive.html)

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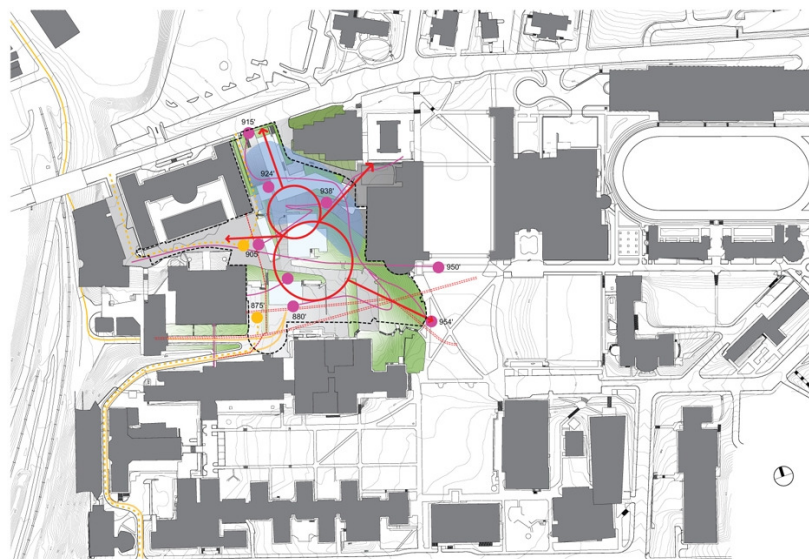
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ARCH 1250  
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STUDIESNYC COLLEGE  
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## Carnegie Mellon University

Mack Scogin Merrill Elam Architects

Source: <http://www.whatarchitectsdo.org.uk/2010/08/case-study-gilfach-y-berthog.html>

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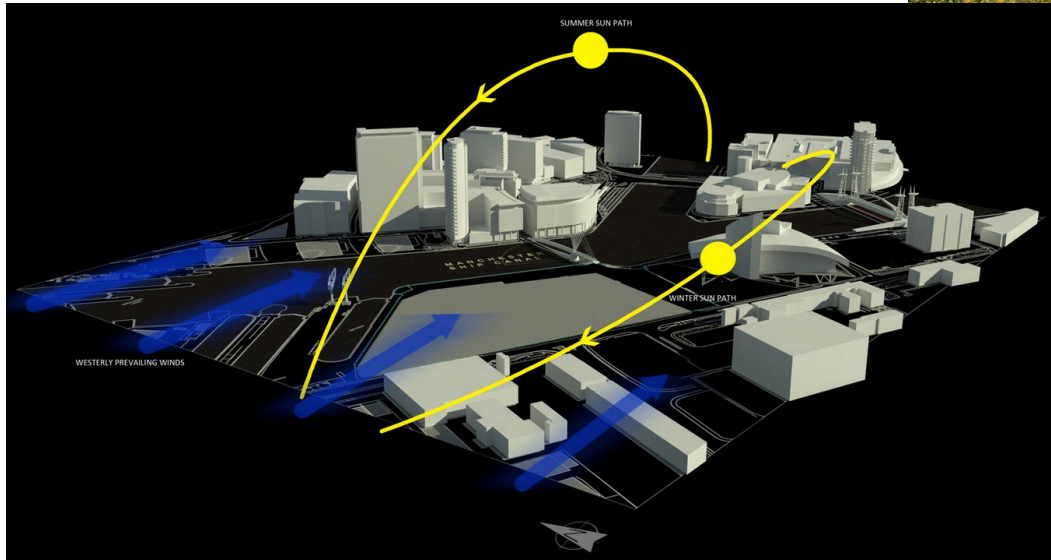
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## DESIGN

PRESENTATION  
3D IMAGESARCH 1250  
APPLIED  
ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Site Inventory – sun path &amp; winds

3d Modeling and Animation

Source: [http://saharfikouhi.blogspot.com/2011\\_02\\_01\\_archive.html](http://saharfikouhi.blogspot.com/2011_02_01_archive.html)

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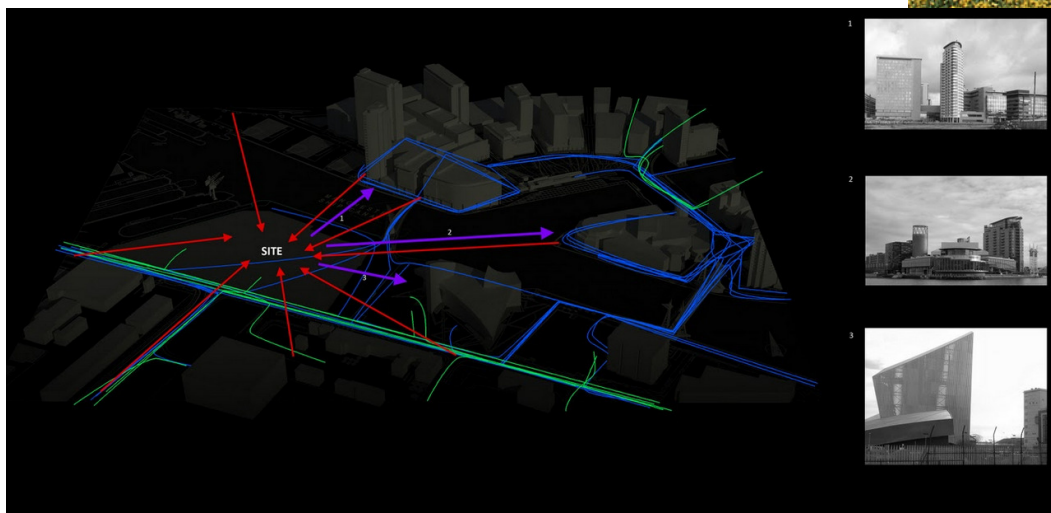
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## DESIGN

PRESENTATION  
3D IMAGESARCH 1250  
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OF TECHNOLOGY

## Site Inventory – views &amp; circulation

3d Modeling and Animation

Source: [http://saharfikouhi.blogspot.com/2011\\_02\\_01\\_archive.html](http://saharfikouhi.blogspot.com/2011_02_01_archive.html)



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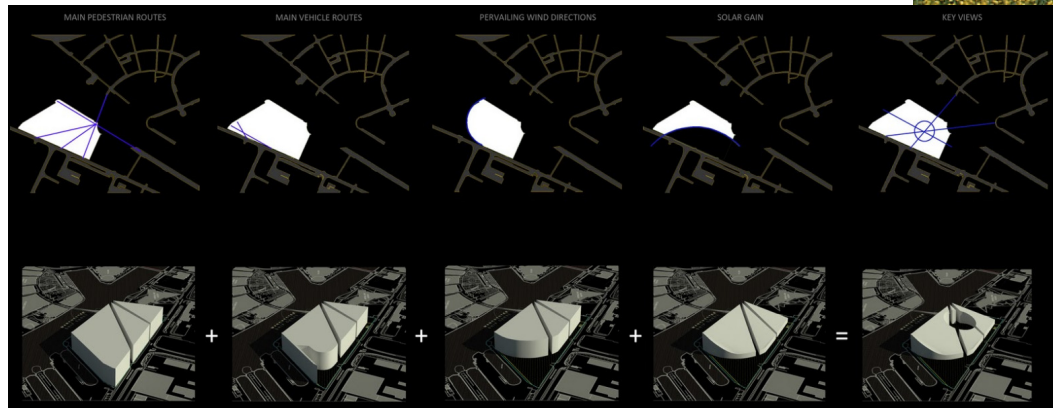
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3D IMAGESARCH 1250  
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STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Site Inventory – views &amp; circulation

3d Modeling and Animation

Source: [http://saharfikouhi.blogspot.com/2011\\_02\\_01\\_archive.html](http://saharfikouhi.blogspot.com/2011_02_01_archive.html)

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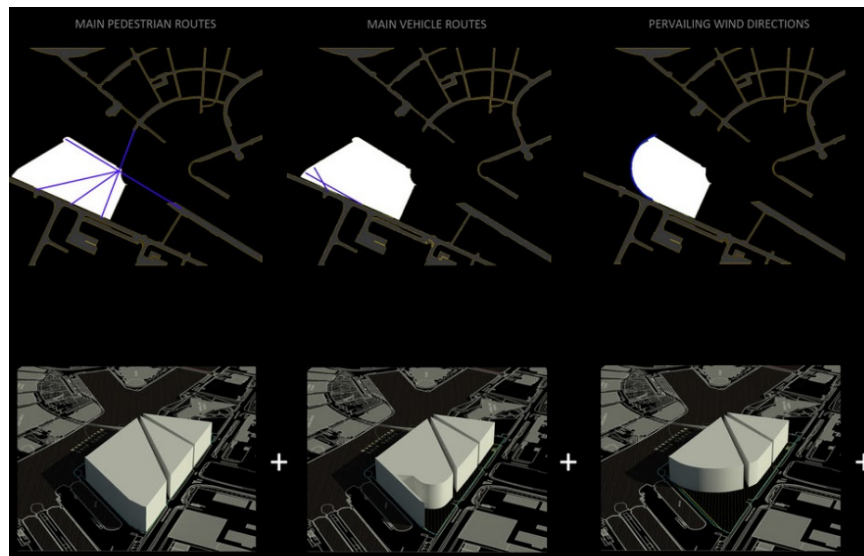
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OF TECHNOLOGY

## Site Inventory – circulation &amp; winds

3d Modeling and Animation

Source: [http://saharfikouhi.blogspot.com/2011\\_02\\_01\\_archive.html](http://saharfikouhi.blogspot.com/2011_02_01_archive.html)

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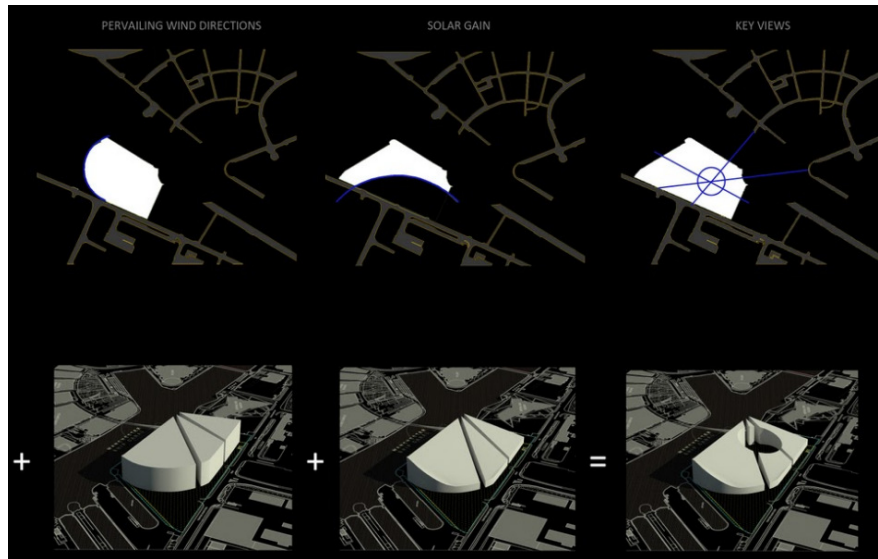
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## DESIGN

PRESENTATION  
3D IMAGESARCH 1250  
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ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Site Inventory – solar gain &amp; key views

3d Modeling and Animation

Source: [http://saharfikouhi.blogspot.com/2011\\_02\\_01\\_archive.html](http://saharfikouhi.blogspot.com/2011_02_01_archive.html)

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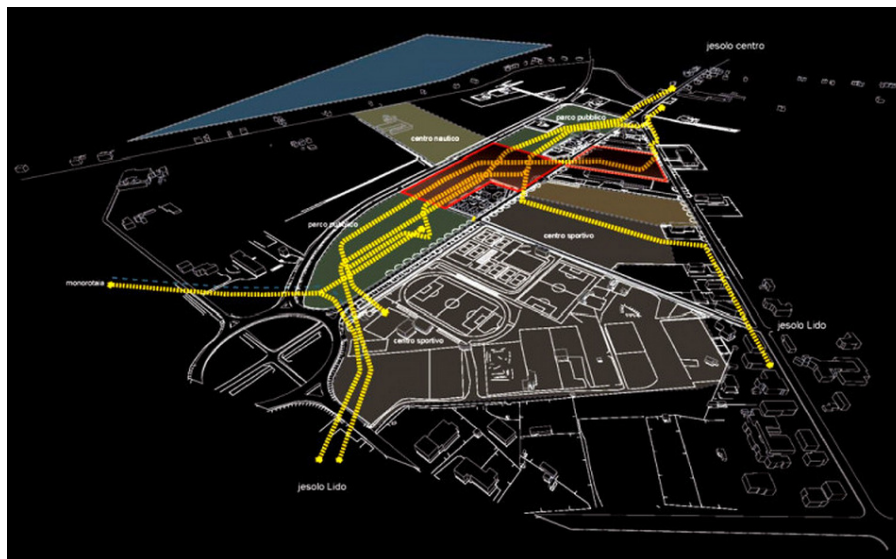
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## ANALYSIS

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3D IMAGESARCH 1250  
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## Site Inventory – circulation

Jeselo Magica Shopping Mall & Office Complex  
Zaha Hadid ArchitectsSource: <http://plusmood.com/2009/11/jesolo-magica-zaha-hadid-architects/>



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## Site Inventory – circulation

Jose Antonio Gonzales Architects inc

Source: [http://www.joseantoniogonzalez.com/2003-21\\_gp\\_panama.html](http://www.joseantoniogonzalez.com/2003-21_gp_panama.html)

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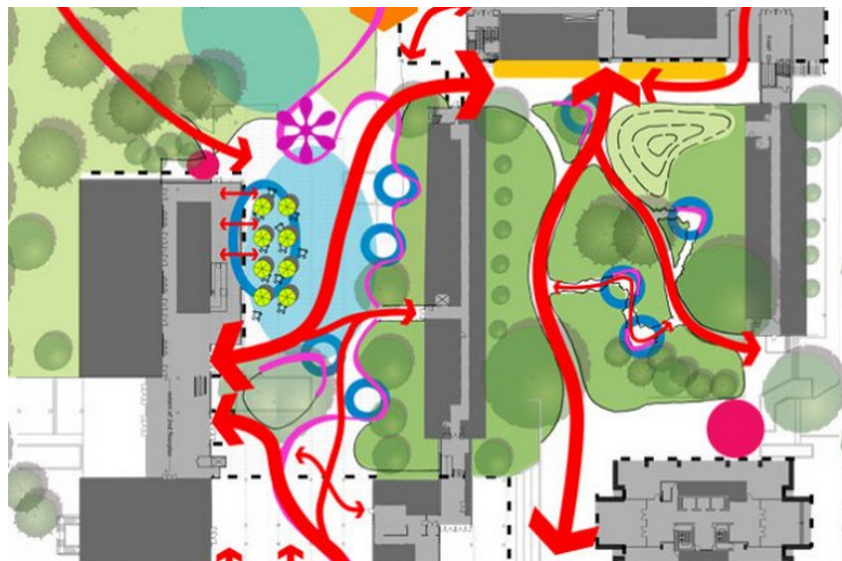
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## Site Inventory – circulation

Buchman Courtyards – Vancouver Canada

Source: [http://www.architizer.com/en\\_us/projects/view/buchanan-courtyards-ubc/10544/](http://www.architizer.com/en_us/projects/view/buchanan-courtyards-ubc/10544/)

## TERM PROJECT

SAMPLE  
GRAPHICS

Ian McHarg

## INVENTORY

## ANALYSIS

## DESIGN

## PRESENTATION

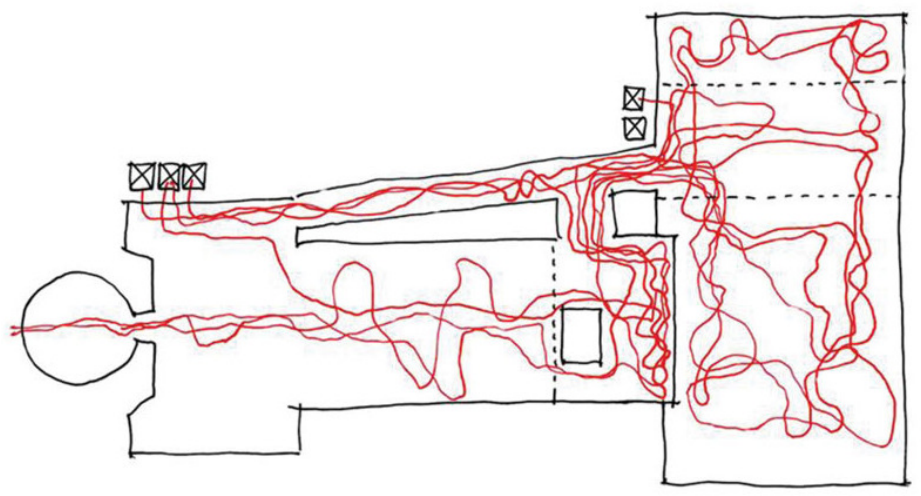
ARCH 1250  
APPLIED  
ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Site Inventory – circulation

Movement pattern tracings

SF Moma RoofTop Sculpture Garden

Conger Moss Guillard Landscape Architects

Source: <http://www.cmgsite.com/projects/sfmoma/>

## TERM PROJECT

SAMPLE  
GRAPHICS

Ian McHarg

## INVENTORY

## ANALYSIS

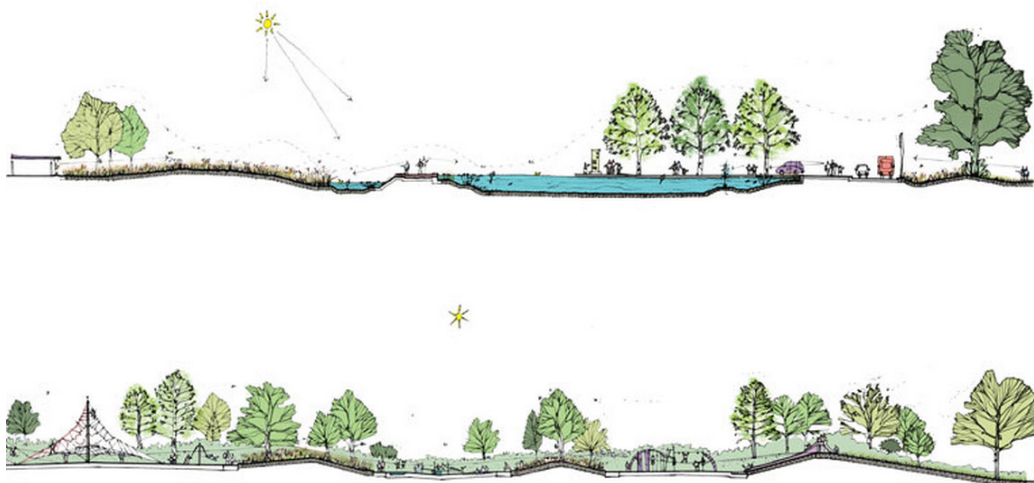
## DESIGN

## PRESENTATION

ILLUSTRATIVE  
SECTIONSARCH 1250  
APPLIED  
ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Presentation – Site Sections

ILLUSTRATIVE SECTIONS

Source: [http://www.grant-associates.uk.com/upload/PPS\\_SCUNTHORPE\\_03A\\_1.jpg](http://www.grant-associates.uk.com/upload/PPS_SCUNTHORPE_03A_1.jpg)



TERM PROJECT

SAMPLE  
GRAPHICS

Ian McHarg

INVENTORY

ANALYSIS

DESIGN

PRESENTATION

ILLUSTRATIVE  
SECTIONSARCH 1250  
APPLIED  
ENVIRONMENTAL  
STUDIESNYC COLLEGE  
OF TECHNOLOGY

## Presentation – Site Sections

Source: [http://www.grant-associates.uk.com/upload/H\\_ICON\\_02A\\_2.jpg](http://www.grant-associates.uk.com/upload/H_ICON_02A_2.jpg)

## ARCH 1250 APPLIED ENVIRONMENTAL STUDIES

### SITE GRAPHICS *for* *Inventory, analysis and design*

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Assistant Professor  
New York City College of Technology