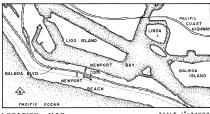
ARCH 2331 BUILDING TECHNOLOGY II



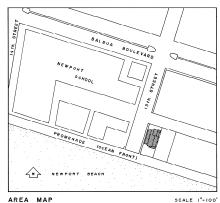
http://www.loc.gov/pictures/item/ca0448.photos.014320p/

Go over site requirements Examples:

THE LOVELL BEACH HOUSE



LOCATION MAP
UNITED STATES GEOLOGICAL SURVEY - 1965



UNITED STATES GEOLOGICAL SURVEY - 1965

THE LOVELL BEACH HOUSE, R.M.SCHINDLER'S MOST IMPORTANT BUILDING, DATING FROM 1926, IS A PRECURSOR OF POST WAR BRUTALIST DESIGN. IT IS BUILT OF CONCRETE. THE HOUSE IS LIFTED ABOVE ITS BEACH SITE AND CRADLED IN FIVE CONCRETE FRAMES IN THE SHAPE OF FIGURE 8%. THESE WERE POURED IN PLACE. THE ENCLOSED AREAS WERE SHOP—FABRICATED AND HOISTED INTO POSITION. THE PLAY OF FORMS IN THE ADVANCING AND RECEDING PLANES ARE RELATED TO THE DE STIJL MOVEMENT BEGUN IN HOLLAND

RECORDED BY
THE UNITED STATES NATIONAL PARK SERVICE

THIS PROJECT WAS UNDERTAKEN BY THE HISTORIC AMERICAN BUILDINGS SURVEY IN GO-OPERATION WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA, THE UNIVERSITY OF CALIFORNIA AT LOS ANGELES, AND THE UNIVERSITY OF CALIFORNIA AT SANTA BARBARA-MEASURED AND DRAWN AUGUST, 1966, UNDER THE DIRECTION OF JAMES C. MASSEY, CHIEF OF H.A.B.S., AND BY ROBERT C. GIEBNER (UNIVERSITY OF ARIZONA), PROJECT SUPERVISOR, WITH STUDENT ASSISTANT ARCHITECTS RALSTON H. NAGATA (UNIVERSITY OF SOUTHERN CALIFORNIA), AND NIKOLAOS PAPADEMETROPOULOS (UNIVERSITY OF CALIFORNIA AT LOS ANGELES), AT THE LOS ANGELES, CALIFORNIA FIELD OFFICE.

RAWN BY: ROBERT C. GIEBNER , DEL. 1968

OFFICE OF ARCHEOLOGY & HISTORIC PRESERVATION
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

THE
1242 WEST OCEAN FRONT

LOVELL BE

BEACH ORANG

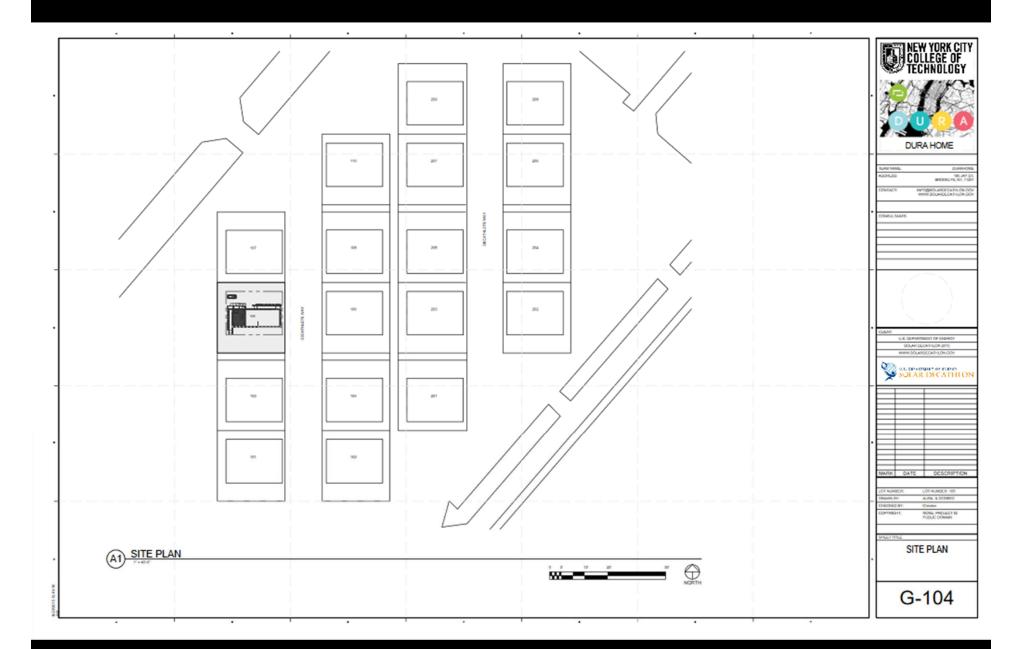
HOUSE

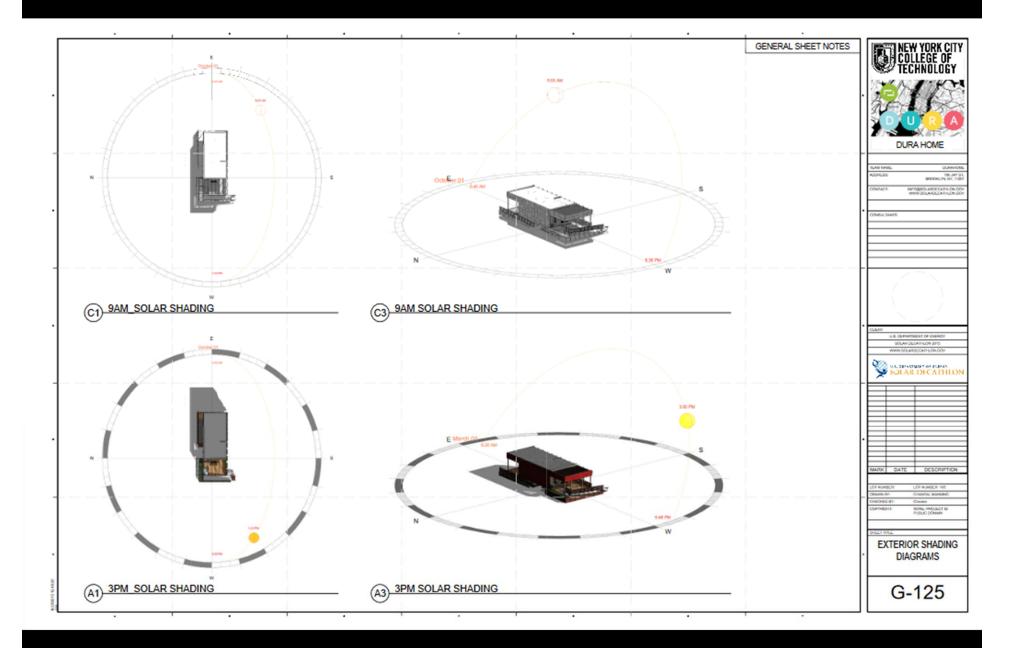
CALIFORNIA

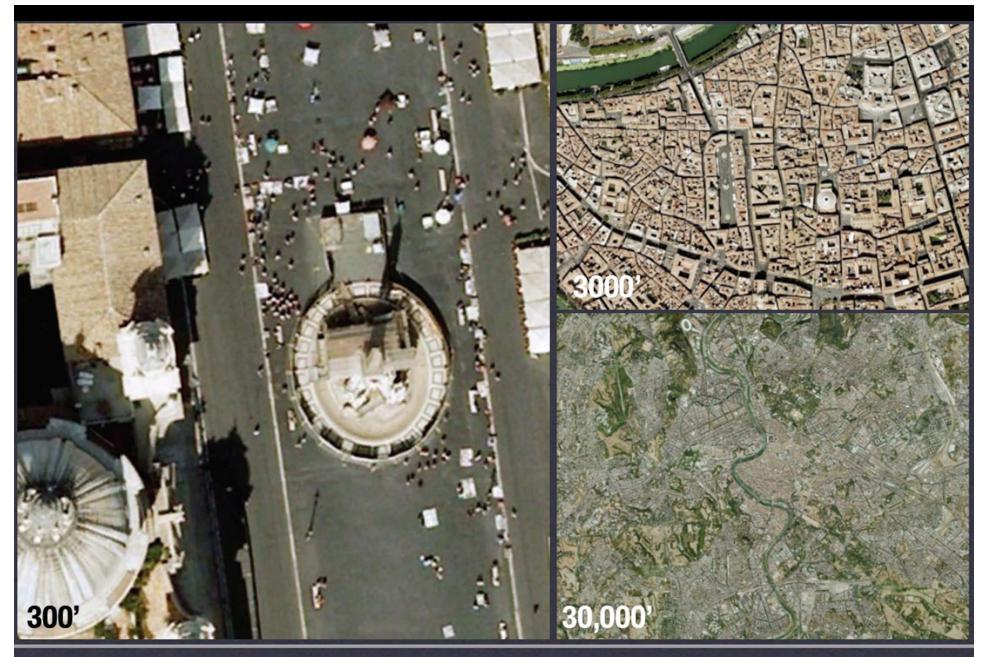
CA-1986 E

HISTORIC AMERICAN
BUILDINGS SURVEY

IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING



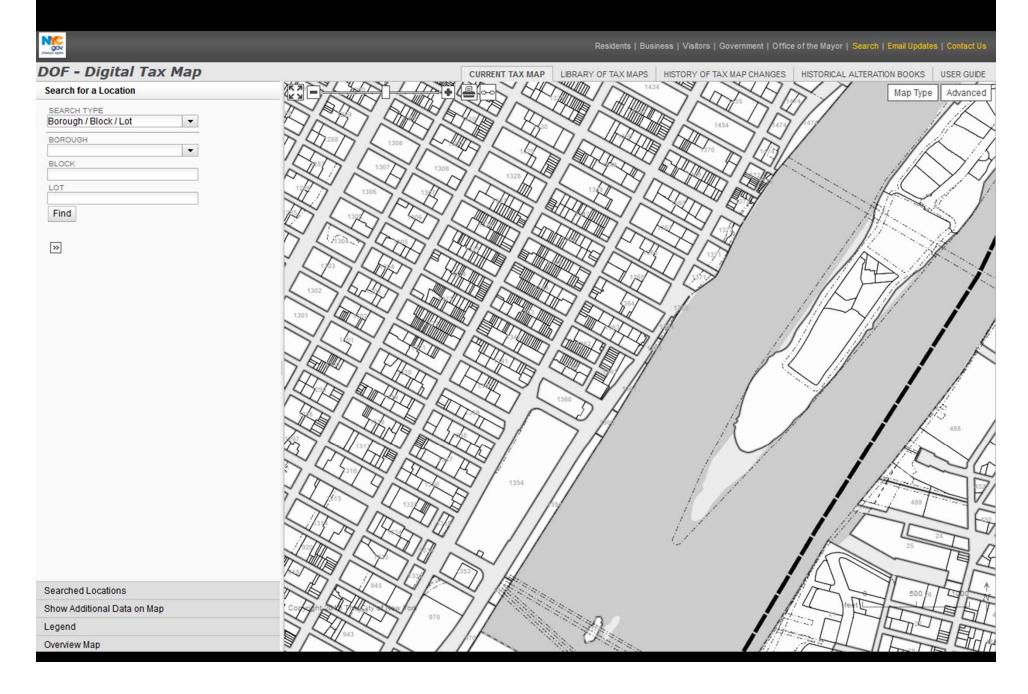


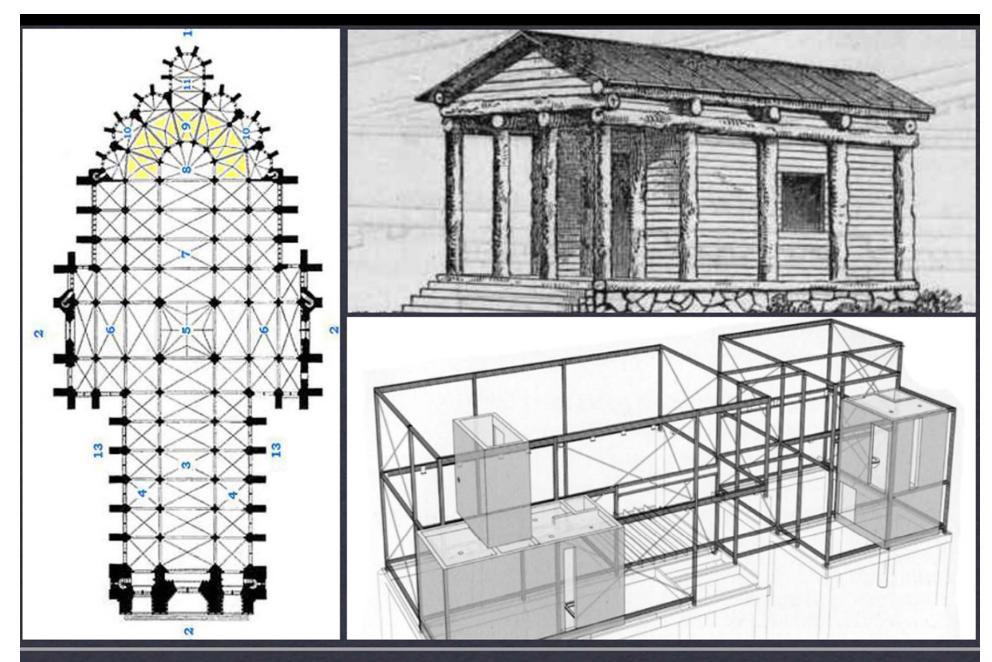


POWERS OF TEN

the site

http://gis.nyc.gov/taxmap/map.htm



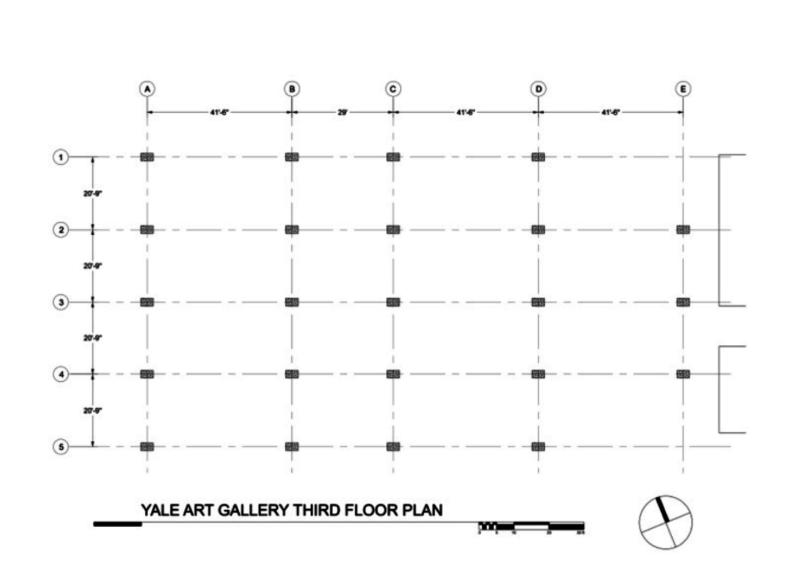


ORGANIZING SPACE



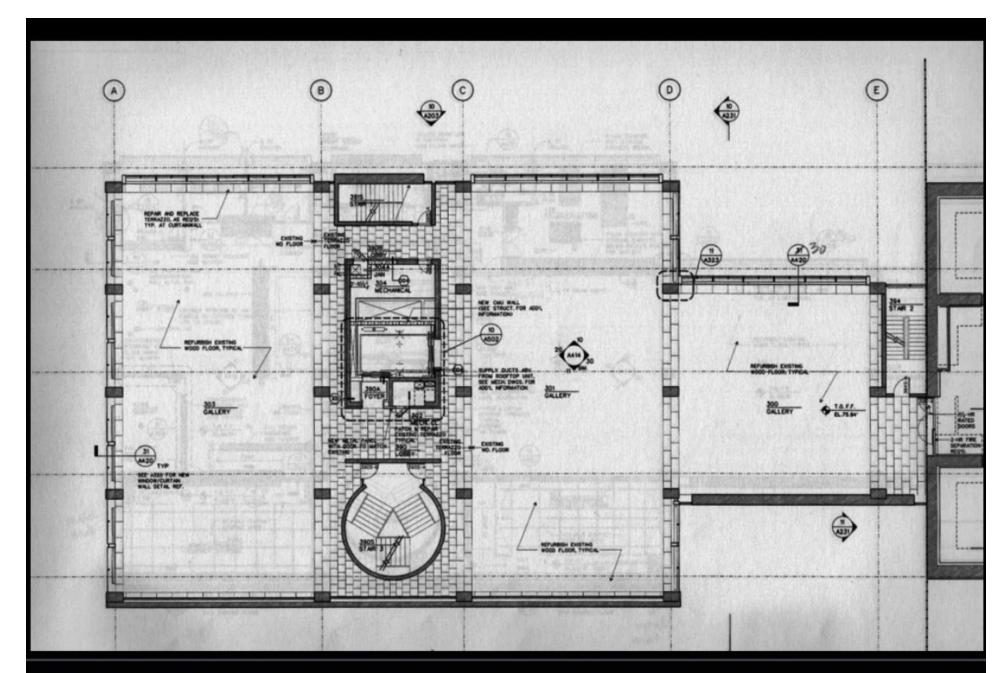
STRUCTURAL ORDER

the grid

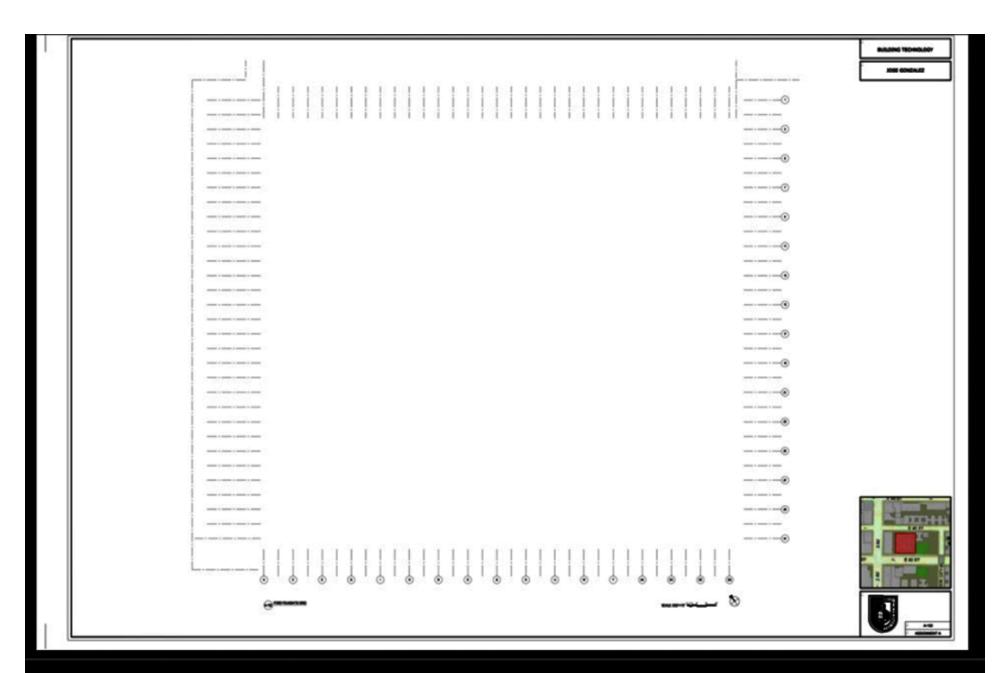


ABSTRACT ORDER

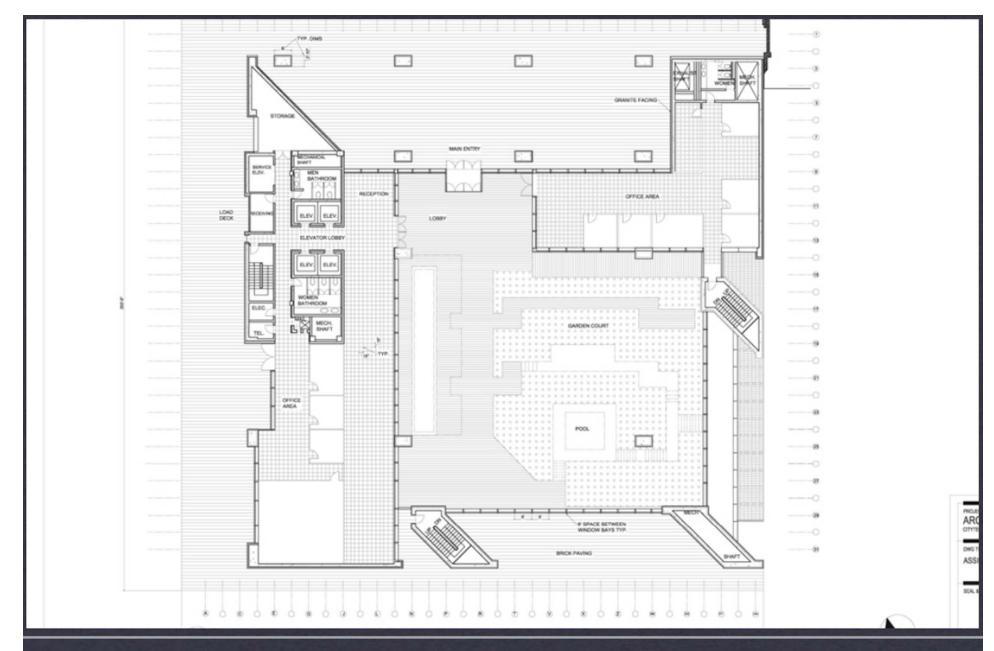
the grid



ARCHITECTURAL ORDER



ABSTRACT ORDER



ARCHITECTURAL ORDER

the plan

CAD Layer Guidelines:



United States National CAD Standard®- V5

a product of the National Institute of Building Sciences buildingSMART alliance™

http://www.usbr.gov/foia/Vol%20III/NCS-CAD_Layer_Guidelines.pdf

AIA CAD Layer Guidelines:

	CAD STANDARD FOR ARCHITECTURE,	ENGINEERING, & COI	NSTRUCTION (A/E/C) VERSION
© 2005. NATIONAL INSTITUTE OF	BUILDING SCIENCES		
Layer Name	Description	Layer Name	Description
Architectural (continued)		Architectural (continued)	
A□-CLNG-TEES	Ceiling: main tees	A□-FLOR-WDWK	Floor: architectural woodwork
A□-CLNG-SUSP	Ceiling: suspended elements	A□-FURN	Furnishings
A□-COLS	Columns	A□-FURN-FILE	Furnishings: file cabinets
A□-CONV	Conveying systems	A□-FURN-FIXD	Furnishings: fixed in place
A□-DOOR	Doors	A□-FURN-FREE	Furnishings: freestanding
A□-DOOR-FULL	Doors: full-height (swing and leaf)	A□-FURN-PLNT	Furnishings: plants
A□-DOOR-PRHT	Doors: partial height (swing and leaf)	A□-FURN-PNLS	Furnishings: system panels
A□-EQPM	Equipment	A□-FURN-SEAT	Furnishings: seating
A□-EQPM-ACCS	Equipment: access	A□-FURN-STOR	Furnishings: system storage
A□-EQPM-FIXD	Equipment: fixed equipment		components
A□-EQPM-MOVE	Equipment: moveable equipment	A□-FURN-WKSF	Furnishings: system work surface components
A□-EQPM-NICN	Equipment: not in contract	- A□-GLAZ	Glazing
A□-EQPM-OVHD	Equipment: overhead	- AD-GLAZ-FULL	Glazing Glazing: full-height
A□-FLOR	Floor	A□-GLAZ-PRHT	Glazing: partial-height
A□-FLOR-CASE	Floor: casework	AD-GLAZ-PAH1	Glazing: partial-neight Glazing: window sills
A□-FLOR-EVTR	Floor: elevator cars and equipment	- AD-HVAC	HVAC
A□-FLOR-HRAL	Floor: handrails, guard rails	- A□-HVAC-SDFF	HVAC: supply diffusers
A□-FLOR-LEVL	Floor: level changes, ramps, pits,	AD-HVAC-RDFF	HVAC: return air diffusers
	depressions	A□-LITE	Lighting fixtures
A□-FLOR-OTLN	Floor: outline	AD-ROOF	Roof
A□-FLOR-OVHD	Floor: overhead (objects above)	A□-ROOF-HRAL	Roof: handrails
A□-FLOR-RAIS	Floor: raised	A□-ROOF-LEVL	Roof: level changes
A□-FLOR-RISR	Floor: stair risers	A□-ROOF-OTLN	Roof: outline
A□-FLOR-SIGN	Floor: signs	A□-ROOF-RISR	Roof: stair risers
A□-FLOR-SPCL	Floor: specialties (toilet room accessories, display cases)	A□-ROOF-STRS	Roof: stair treads, ladders
A□-FLOR-STRS	Floor: stair treads, escalators, ladders	A□-WALL	Walls
A□-FLOR-TPTN	Floor: toilet partitions	A□-WALL-CAVI	Walls: cavity
	parations		
ARCHITECTURAL LA	VER I ICT		CLC
AROHITECTURAL LA	I ER EIJ		CLO

https://openlab.citytech.cuny.edu/arch-1230/files/2014/08/AIA-Layer-Standards.pdf

Grid plans & site plan

CASE STUDY #1 SITE+GRID+PLAN
DUE: the Day before next class (9pm)

- See Assignment Blackboard File for Grading Rubric
- 3 boards required:
 - i. Site Maps (3 altitudes: 30,000', 3000', 300')
 - ii. Structural Grid @ 1/4"=1'-0"
 - iii. Specific Floor Plan @ 1/4"=1'-0" All
- views must have a north arrow
- One graphic scale must be included for each unique scale
- Your 10 layers list (As part of auto CAD file)



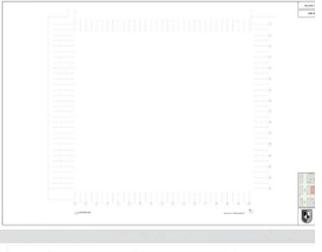




DUE: the Day before next class (9pm)

- Site maps to include the following:
 - i. Scale
 - ii. Altitude
 - iii. Latitude and Longitude Coordinates of Case Study Building
 - iv. Case Study Building Outlined/Highlighted
 - v. major urban features diagramed
 - vi. Case Study Building Outlined/Highlighted
 - vii. major urban features diagramed
 - viii. Roof plan

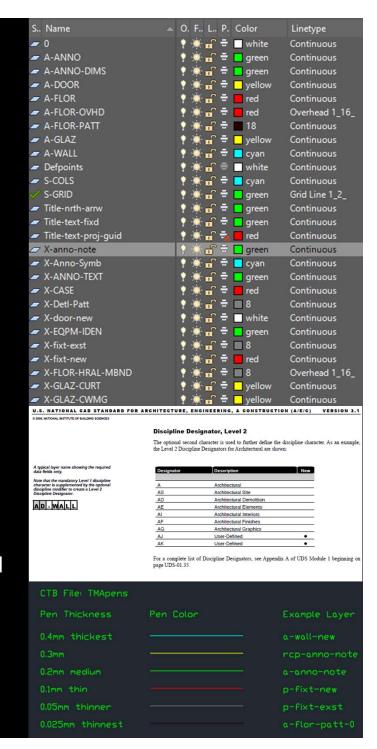






DUE: Day before Next class (9pm)

- Your 10 layers list
- As part of auto CAD file :
 - use "US national CAD standard" common naming standards
 - make sure you have at least one-layer line weight
 - make sure you have layers for long short and – lines
 - use CAPITAL letters only
 - start with S or A prefix (for architecture or structural disciplines)
 - keep the layers "0" and Defpoints as they required by the software
 - prefix code X not use layers
 - you may keep the prefix "Title" for title block information



DUE: Day before Next class (9pm)

- Per board AutoCAD files, xrefs, and rasters included.
- all files submitted must follow this naming standard:
- professor_F_18_first name-last name (drawing number).jpg
 - example file name: Gozlan_F_18_georgesmith(01).jpg
 - jpeg files to be at 150 dpi resolution.
 - files not conforming to department standards will not be graded.







DUE: Day before Next class (9pm)

- per board, 1 AutoCAD file, xrefs, and rasters included.
- use "etransmit" to create your files for submission
 - menu is under the big A (top left corner)
 - submenu: publish
 - etransmit
- all files submitted must follow this naming standard:
- professor_F_18_first name-last name (drawing number).jpg
 - example file name: Aptekar_S_19_georgesmith(01).jpg
 - files not conforming to department standards may not be graded.

