ARCH 2331
BUILDING TECHNOLOGY II

Photo: A Aptekar 2019, Miami Florida

Class Overview:
Discussion/Lecture:

- Virtual and in person class meetings
- Quiz's, sketchbook, Readings, Final examination
- PowerPoint Course introduction
- Go over site requirements
- Assignment rubric review
- Introduce drawings site assignment

Class Overview:

Lab/Project development:

- LoGo reviews
- CAD basics
- image importing
- CAD Scale Factors
- Develop site assignment (Test uploaded)
- Develop grid assignment (Test uploaded)

Class Overview:

Upcoming Events

- Printing in CAD
- XREF in CAD
- structural systems
- grids schematic design and overlays
- structural system spacing

Assignments and due dates

- Assignments are typically due on the Tuesday 10pm.
- all submissions are made to blackboard
- Late submissions will receive penalties
- Submissions typically no longer available on blackboard after one week

Quiz's and sketchbook/notebook

Quiz's:

- ~~Descriptions and identification of multiple building assemblies (walls, roofs, foundation, etc.)~~
- Sketchbook submission
- Starting promptly at the beginning of class

Sketchbook/Notebook:

- Required from this class on
- Include notes and sketchs
- Entries should include pages need to include your responses to **readings** and lectures/discussions
- Sketchbook will be collected and graded at approximately 4 times over the semester

Readings and Note Taking:

Readings:

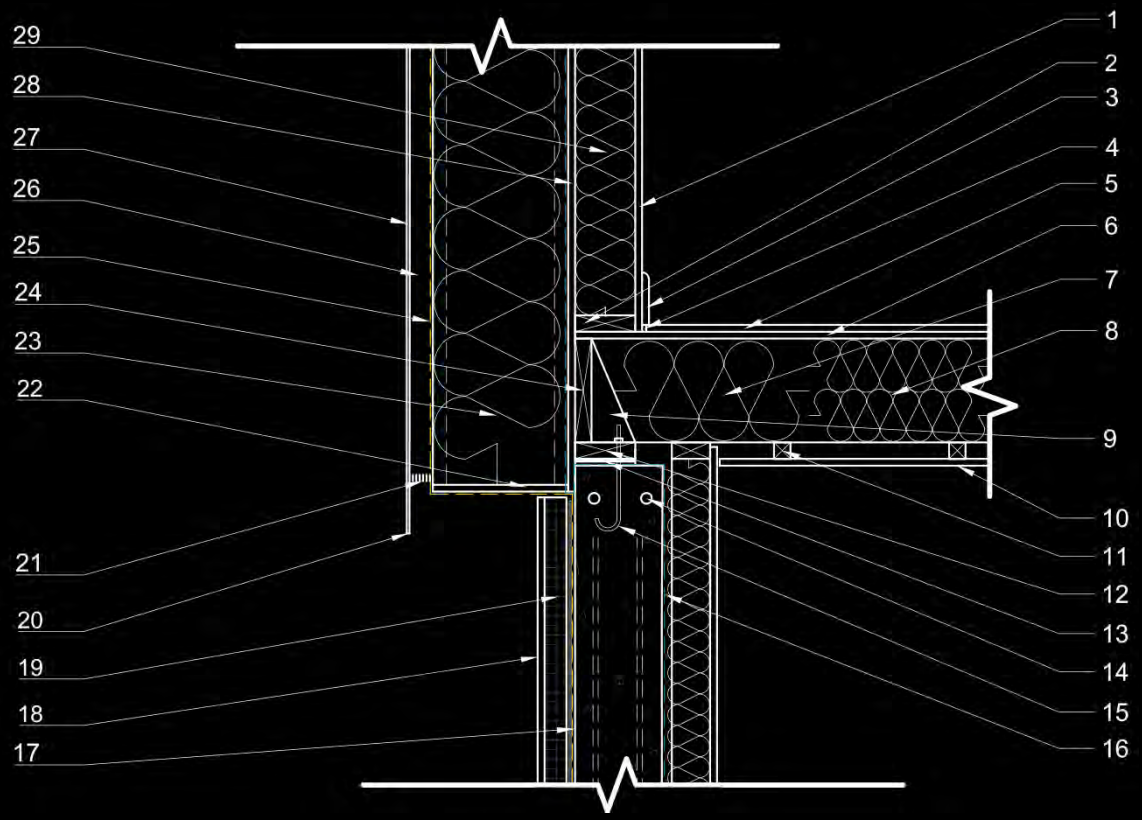
- Are required
- Your Sketchbook need to include information from your readings
- The required textbooks are listed in the syllabus and on open lab
- Follow BT1 note taking requirements and strategies for your readings
- Reading list OpenLab link: https://openlab.citytech.cuny.edu/bt2-2022s/support-material/readings/

Note Taking:

- Follow BT2 note taking requirements and strategies
- Notes on:
  - Class Lectures
  - Readings
  - Digital (AutoCAD) tools
- Note Taking OpenLab link: https://openlab.citytech.cuny.edu/bt2-2022s/support-material/note-taking/

Final examination:

- One hour Minimum exam
  - 100+ questions, wall section detail identifications
  - five general questions
  - Multiple short answer questions



DEPARTMENT OF ARCHITECTURAL TECHNOLOGY
AT NEW YORK CITY COLLEGE OF TECHNOLOGY

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Workshop Recordings – Winter 2022

Past Workshops

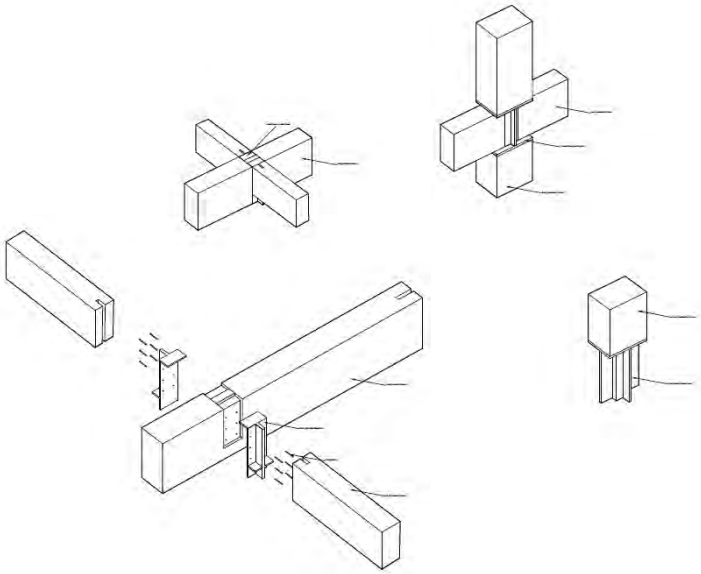
Fall 2021 Workshop Series

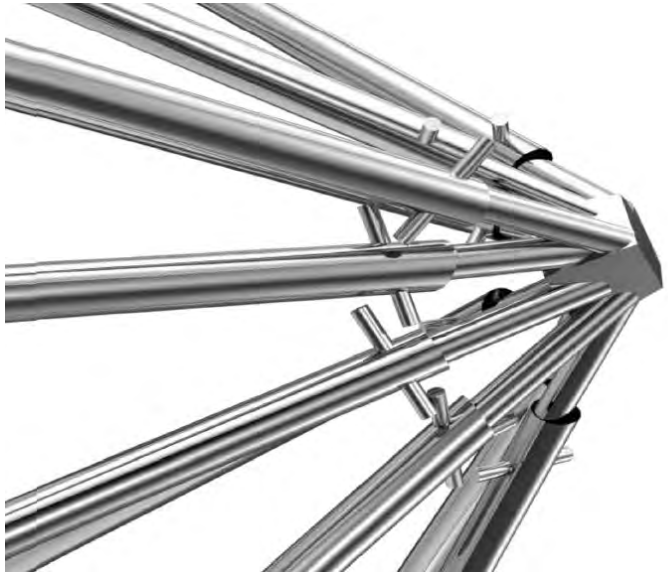
ArcGIS Pro – Spring 2021

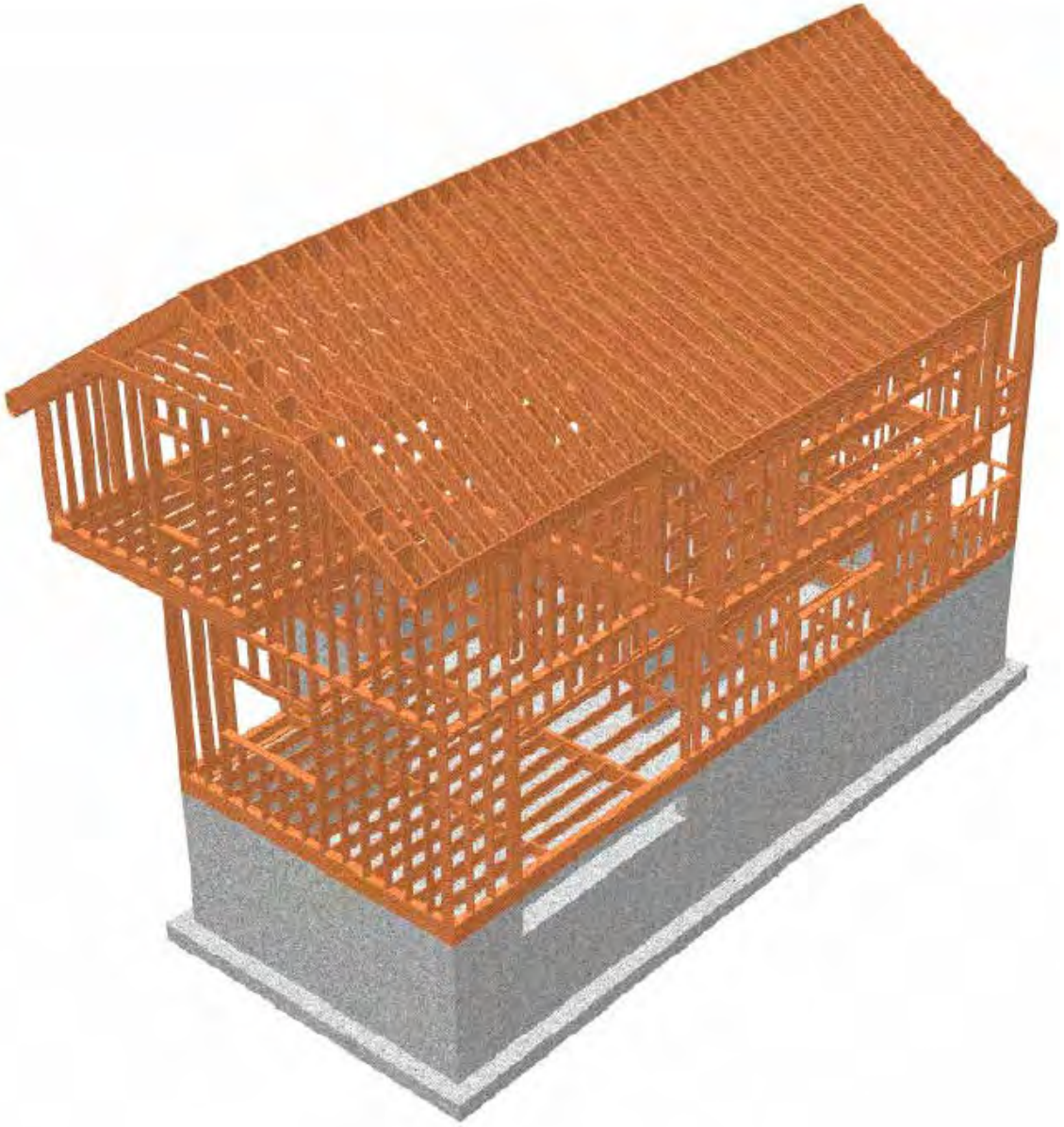
https://archtechnycct.com/workshop-recordings/

Assembly & Performance

Photos: A Aptekar 2015







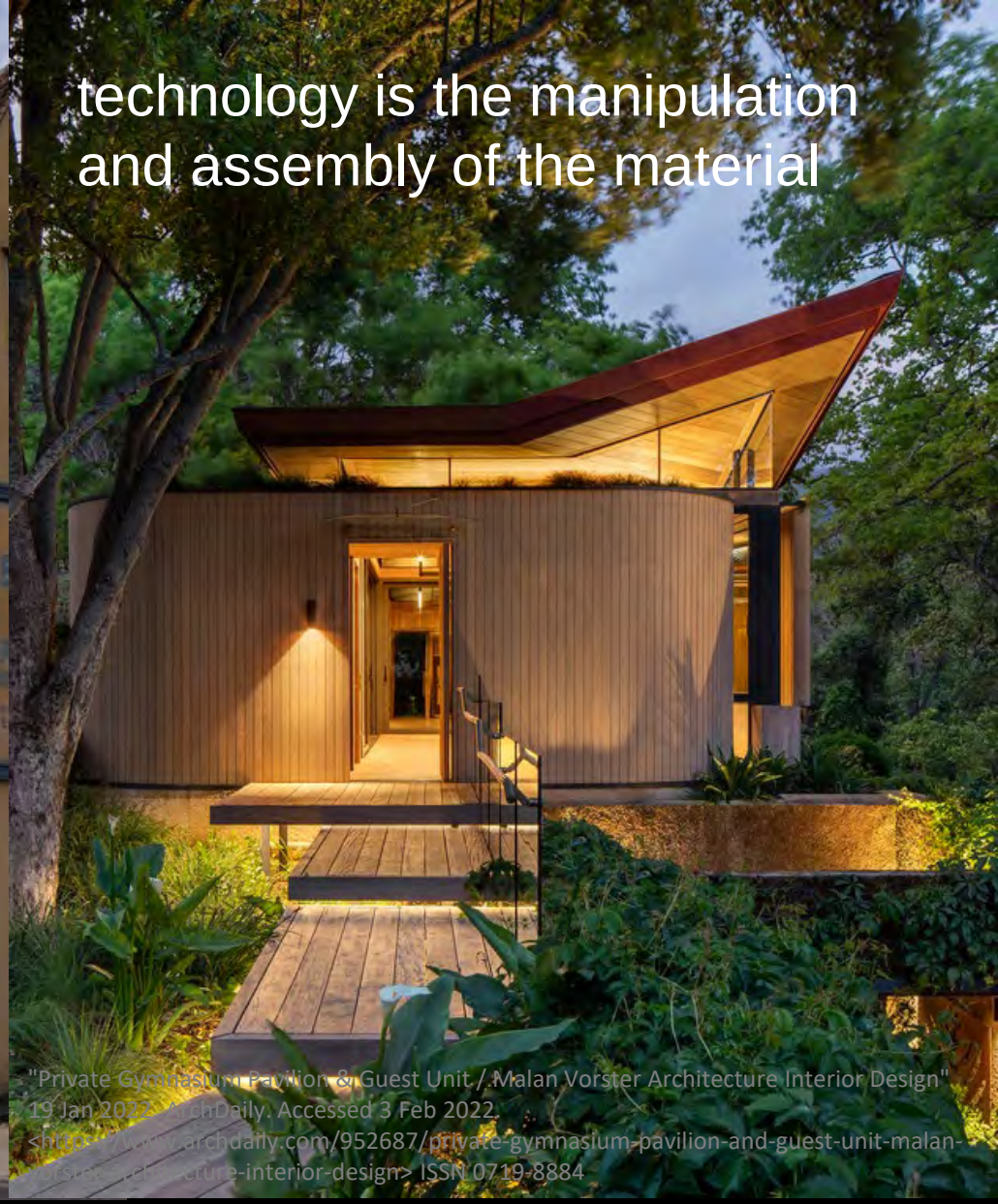
working in three dimensions

BT2 student work 2019S (Khan, Tahir & Amir, Tasfia)

material is the substance of architecture

Photo: Eleanor Margolies 2021

technology is the manipulation and assembly of the material



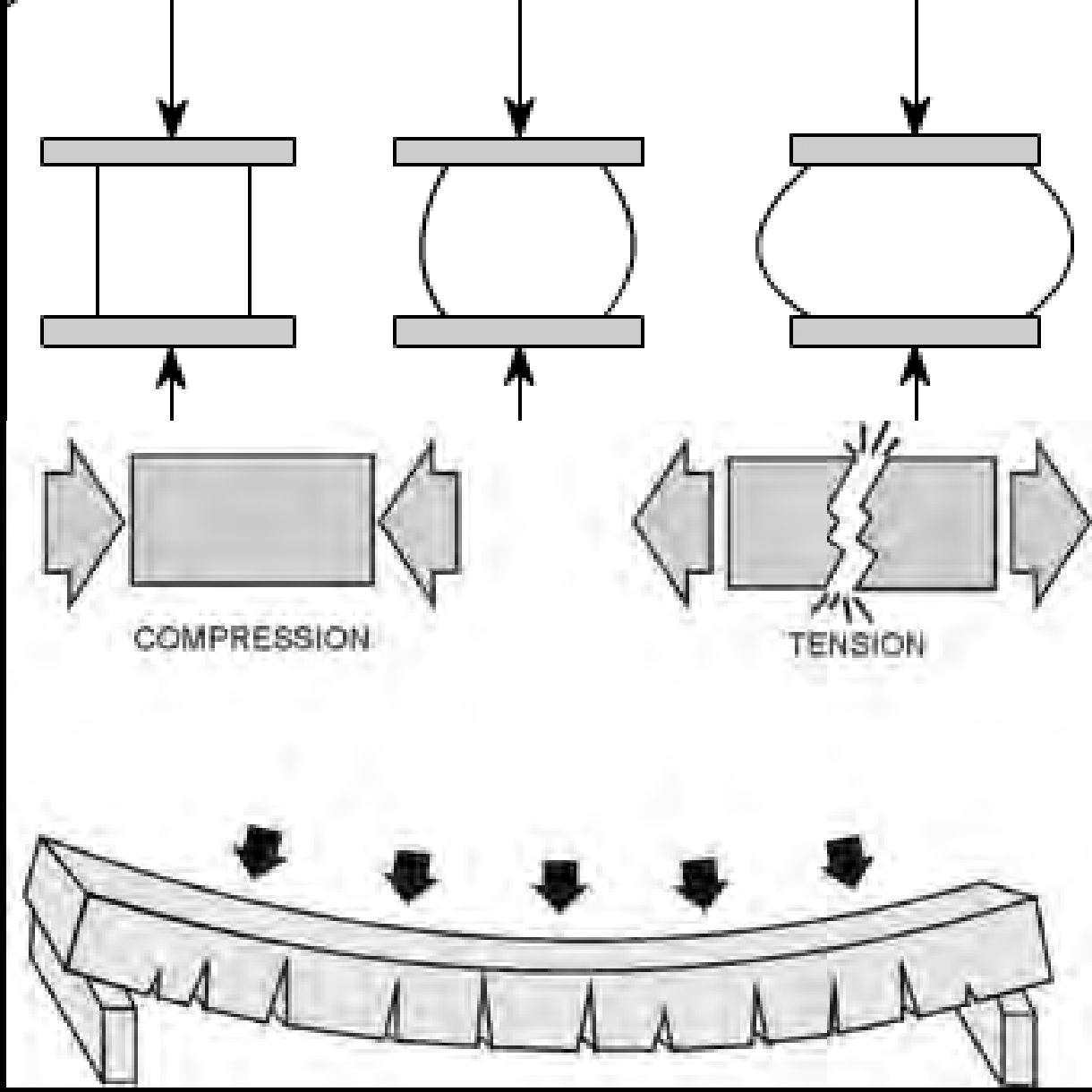
"Private Gymnasium Pavilion & Guest Unit / Malan Vorster Architecture Interior Design" 19 Jan 2021. ArchDaily. Accessed 3 Feb 2022. <https://www.archdaily.com/952687/private-gymnasium-pavilion-and-guest-unit-malan-vorster-architecture-interior-design> ISSN 0719-8884

RELATION OF MATERIAL TO architecture

COMPRESSION:
CRUSHING FORCE

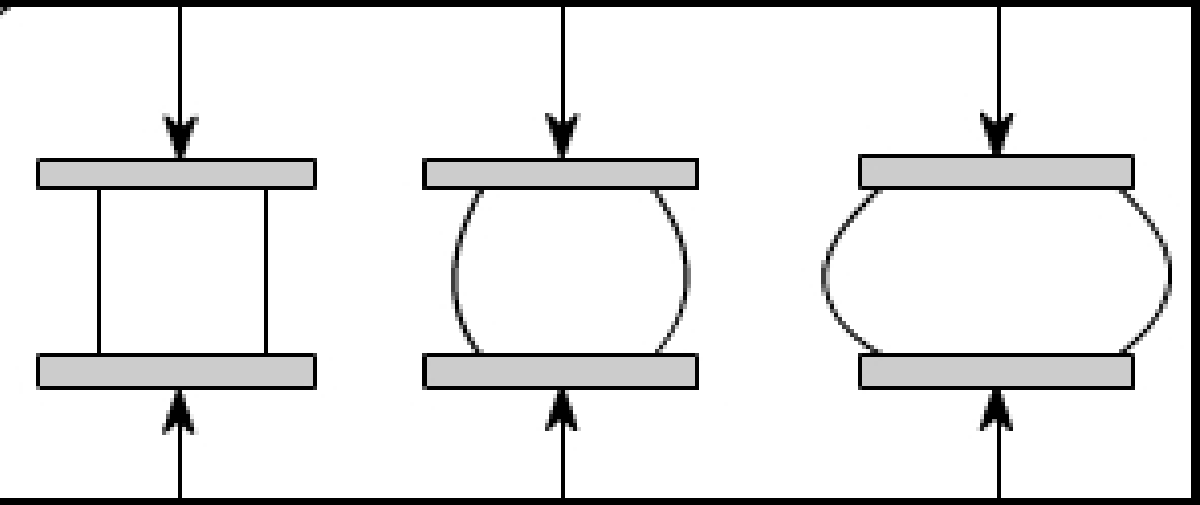
TENSION:
STRETCHING/PULLING FORCE

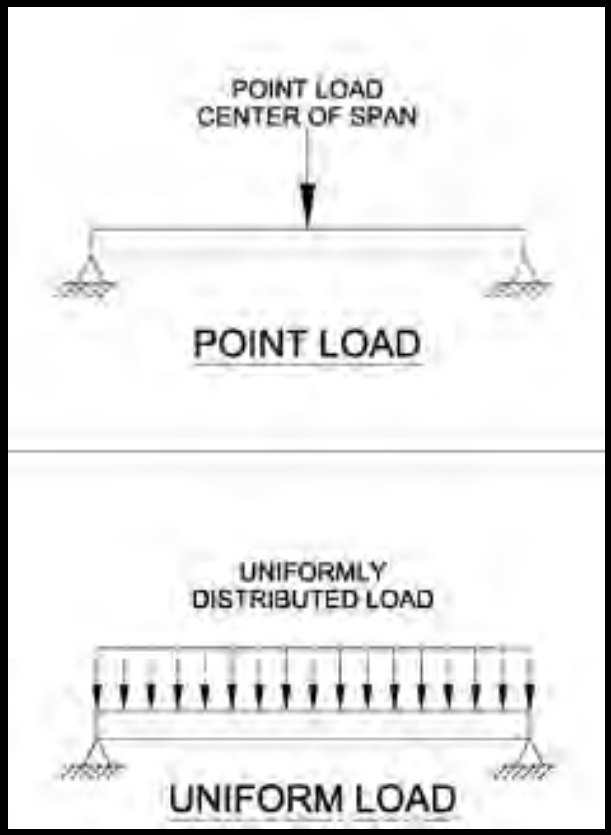
BOTH COMPRESSION & TENSION ARE ACTING ON MOST STRUCTURAL ELEMENTS



forces on buildings

compression & tension

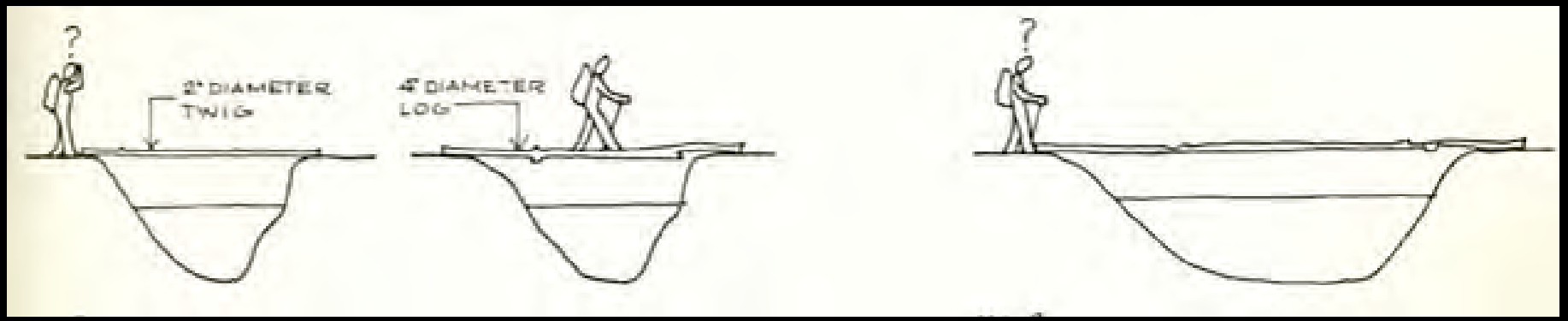




forces on buildings

loads + stresses

Courtesy of Prof. Montgomery



FORCES ON BUILDINGS

loads + stresses

Courtesy of Prof. Montgomery

CONCRETE (UNREINFORCED)

WORKING STRENGTH IN

COMPRESSION	1000 - 4000 psi
TENSION	0 psi

DENSITY: 145 pcf

https://www.semanticscholar.org/paper/Behavior-of-Unreinforced-Concrete-Masonry-Infill-By-Azzi/dad2389b1b37415f27a77b7717c77095aa649b72

STEEL

WORKING STRENGTH IN

COMPRESSION	24,000-43,000 psi
TENSION	24,000-43,000 psi

DENSITY: 490 pcf

https://pxhere.com/en/photo/459266

summary of properties of Materials

wrap up

FUNDAMENTAL TO THE PRACTICE OF ARCHITECTURE IS THE IMMERSION IN AND MASTERING OF THE POTENTIAL OF MATERIALS

https://www.vei.fr/portfolio/pat/

- formation of elements of construction governed by required resistance of stresses
- selection of materials is driven by their structural advantages and their aesthetic qualities
- innovation is rooted in an evolving knowledge and sophisticated manipulation of materials and their assembly
- knowledge and mastery are pursued through three dimensional investigation and exploration


Module A
[DeSilver House]

Assignment rubric review

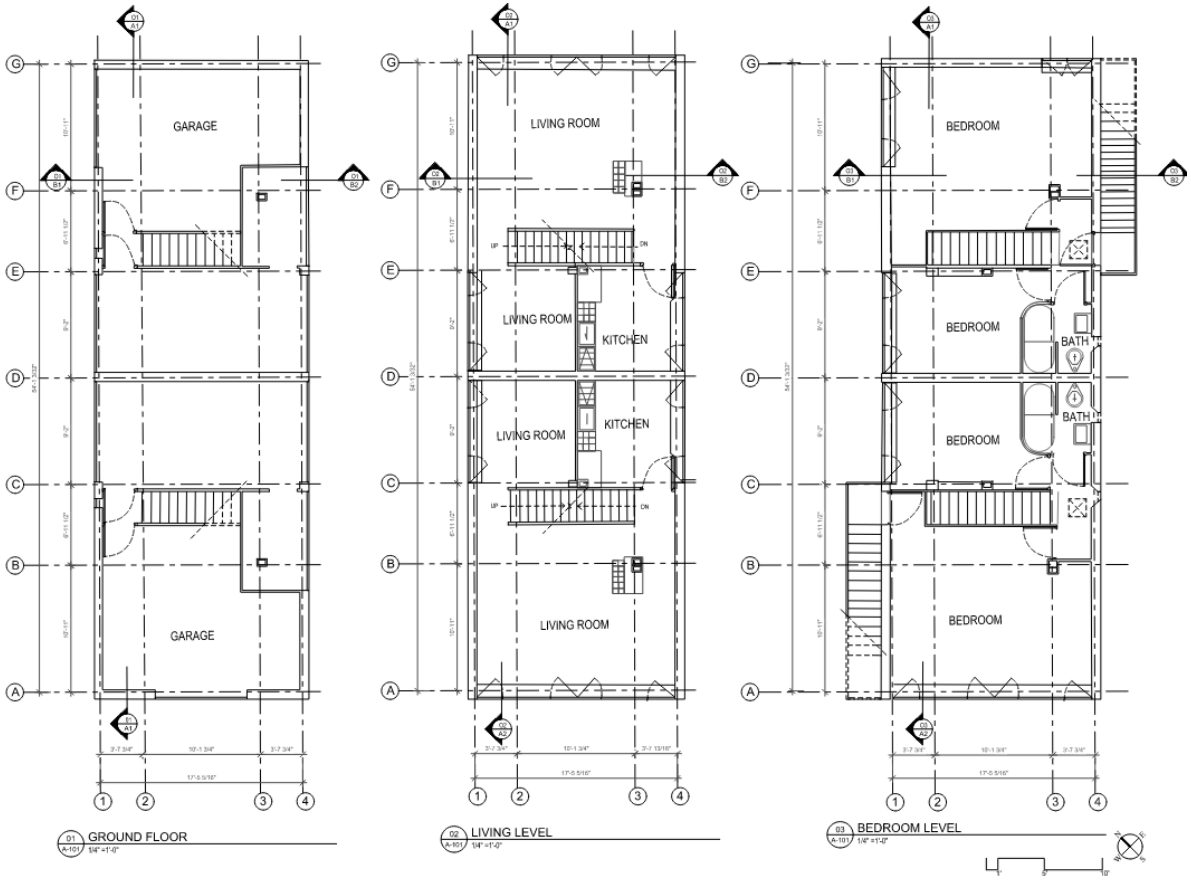
typically rubric points are distributed as follows:

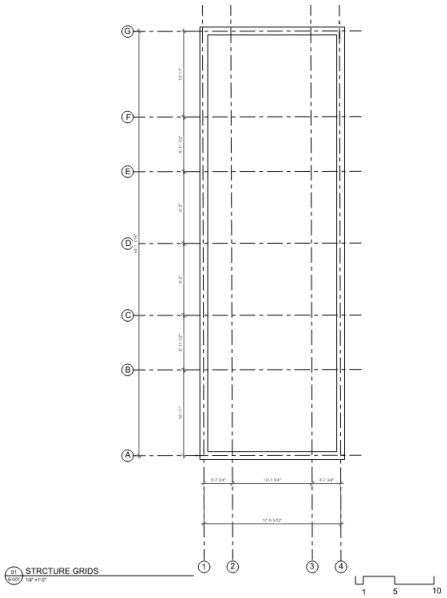
- Novice = 0%
- Basic = 30% to 60%
- Developing = 65% to 75%
- Competent = 85%
  [meets the course requirements]
- Proficient = 90%
- Excellent = 100%

	Novice	Basic	Developing	Competent	Proficient	Excellent
Title block, & file organization	**.5** (.5%) Only PDF or computer documents submitted	**3** (3%) Unique title block to assignment "A"	**7.5** (7.5%) Include all class. Your, and professor's information	**8.5** (8.5%) Unique block to each drawing in assignment "A"	**9** (9%) x-ref integration	**10** (10%) Create your own fictitious company include your portrait in the titleblock
Scale and Placement	**0** (0%) -Zoom to fit scale used -no scale indicated -no scale graphic	**4.5** (4.5%) Location given	**11.25** (11.25%)	**12.75** (12.75%)	**13.5** (13.5%) -Scale indicated on drawing sheet and on individual drawings -Skill graphics included connections	**15** (15%)
Annotation	**0** (0%) no information	**4.5** (4.5%) -incomplete dimensions	**11.25** (11.25%) Text Height/Uniformity /Style	**12.75** (12.75%) Column lines all dimensioned	**13.5** (13.5%)	**15** (15%) All rooms name using graphic standards
Graphics	**2.5** (2.5%)	**15** (15%) -poor line weights	**37.5** (37.5%)	**42.5** (42.5%) Accuracy	**45** (45%) -Consistent line weight usage -Cutlines darkest	**50** (50%) using all graphic conventions
Architectural ideas	**1** (1%)	**4** (4%)	**7.5** (7.5%) Accuracy	**8.5** (8.5%) All assignment "A" drawings match	**9** (9%) Only enough detail for the purpose of scope	**10** (10%) Big picture and find details woven together

Assignment A

Grid plans & site plan





1"=10KM

1"=1000M

1"=100M

1"=10M

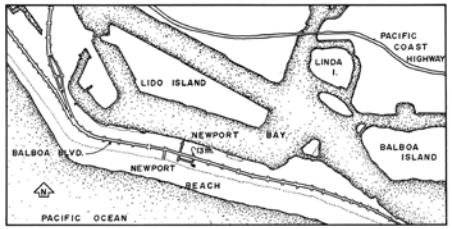
Go over site requirements

Examples:

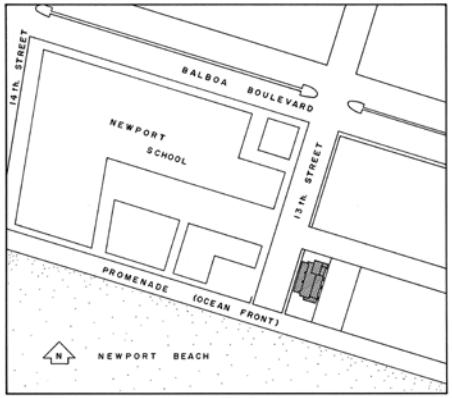
TRIM LINE

HAE 19 1283

THE LOVELL BEACH HOUSE



LOCATION MAP — SCALE 1"=24000'
UNITED STATES GEOLOGICAL SURVEY - 1965



AREA MAP — SCALE 1"=100'
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's. 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 IN 1917.

RECORDED BY
THE UNITED STATES NATIONAL PARK SERVICE

THIS PROJECT WAS UNDERTAKEN BY THE HISTORIC AMERICAN BUILDINGS SURVEY IN CO-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, 1968, 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 HAWAII), STANLEY A. WESTFALL (UNIVERSITY OF SOUTHERN CALIFORNIA), AND NIKOLAOS PAPADEMETROPOULOS (UNIVERSITY OF CALIFORNIA AT LOS ANGELES), AT THE LOS ANGELES, CALIFORNIA FIELD OFFICE.

DRAWN BY: ROBERT C. GIEBNER, DEL. 1968

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

NAME AND LOCATION OF STRUCTURE
THE LOVELL BEACH HOUSE
1242 WEST OCEAN FRONT NEWPORT BEACH ORANGE COUNTY CALIFORNIA

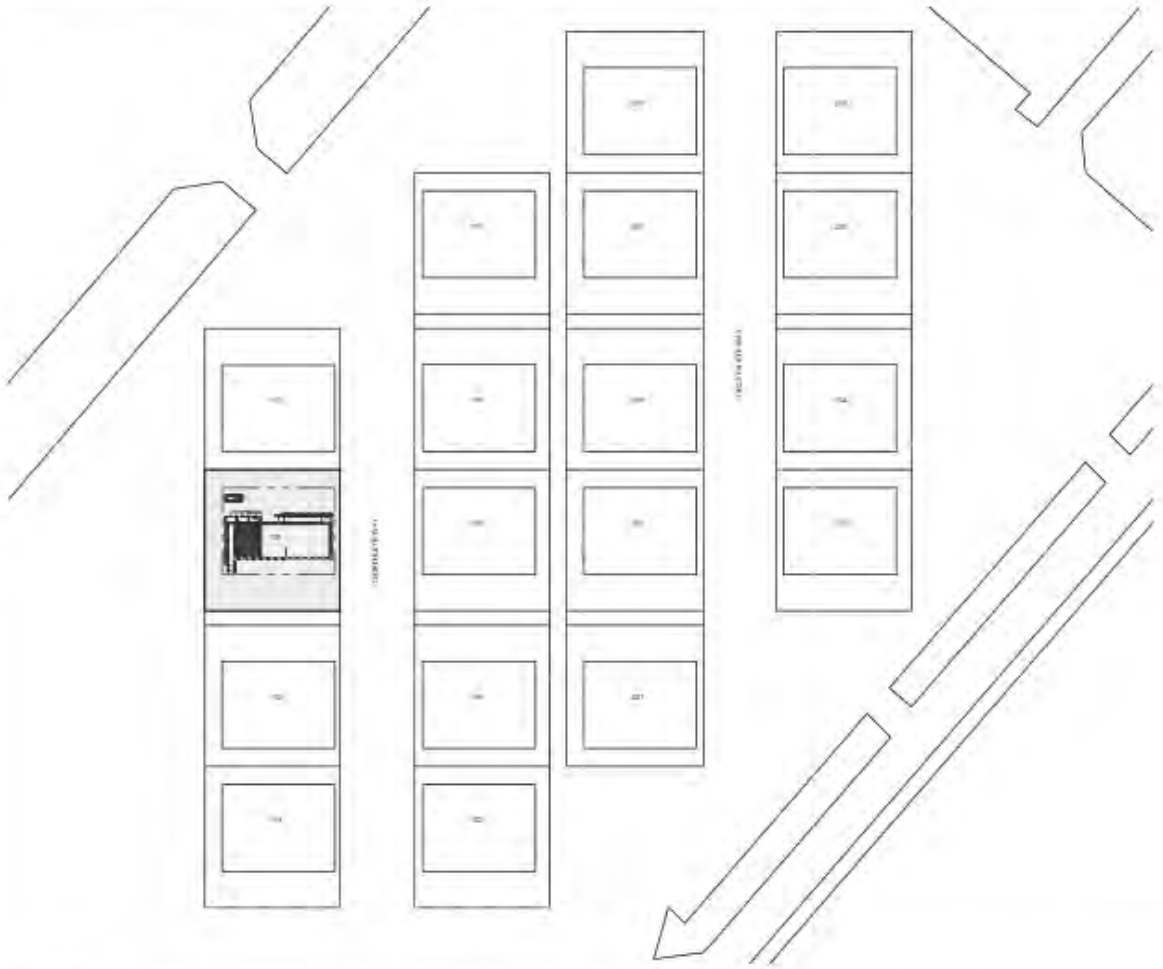
SURVEY NO. CA-1986

HISTORIC AMERICAN BUILDINGS SURVEY
SHEET 1 OF 10 SHEETS

LIBRARY OF CONGRESS INDEX NUMBER

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

TRIM LINE



A1 SITE PLAN

NEW YORK CITY COLLEGE OF TECHNOLOGY

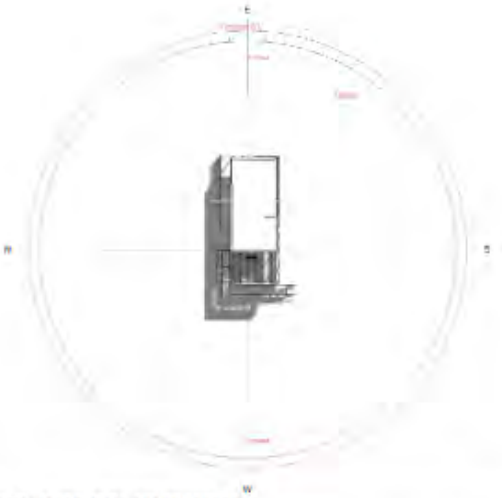
DURA HOME

MARK	DATE	DESCRIPTION

SITE PLAN

G-104

GENERAL SHEET NOTES



C1 9AM_SOLAR SHADING

C3 9AM SOLAR SHADING

A1 3PM_SOLAR SHADING

A3 3PM SOLAR SHADING

NEW YORK CITY COLLEGE OF TECHNOLOGY

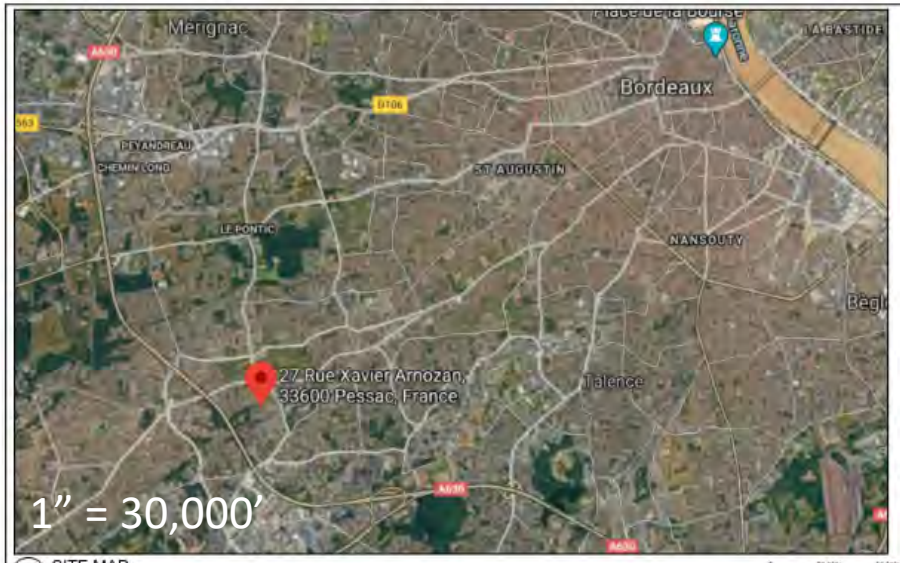
DURA HOME

MARK	DATE	DESCRIPTION

EXTERIOR SHADING DIAGRAMS

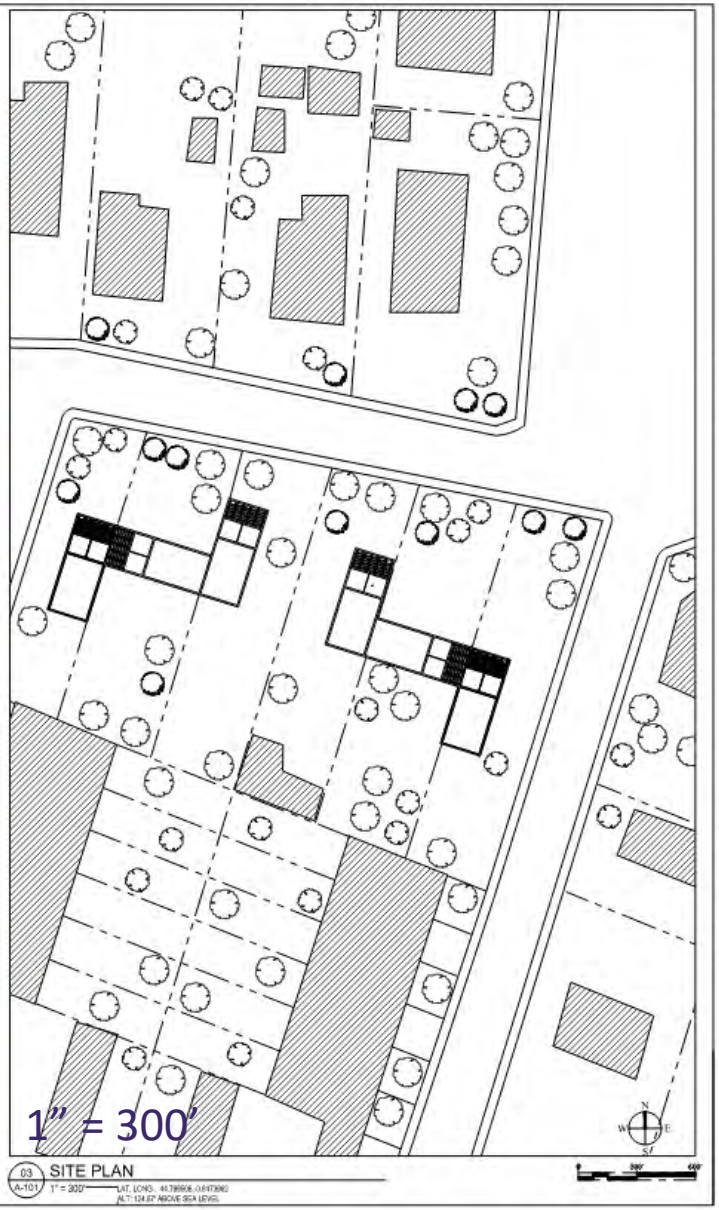
G-125

Assignment A



01 SITE MAP
A-101 1" = 30.000'

02 SITE MAP
A-101 1" = 3000'



03 SITE PLAN
A-101 1" = 300'

ZIG-ZAG, MAISON
27 rue Xavier Arnozan, 33600
Pessac, France

SPLIT IMAGE

Student Name:
FARES, FAROUK

Professor Name:
A.APTEKAR

Course:
BUILDING TECH II
ARCH2331
S2021

Brooklyn Office:
Department of Architectural Technology
186 Joy Street, Brooklyn New York

FEBRUARY 03, 2021

A-101 SITE MAPS

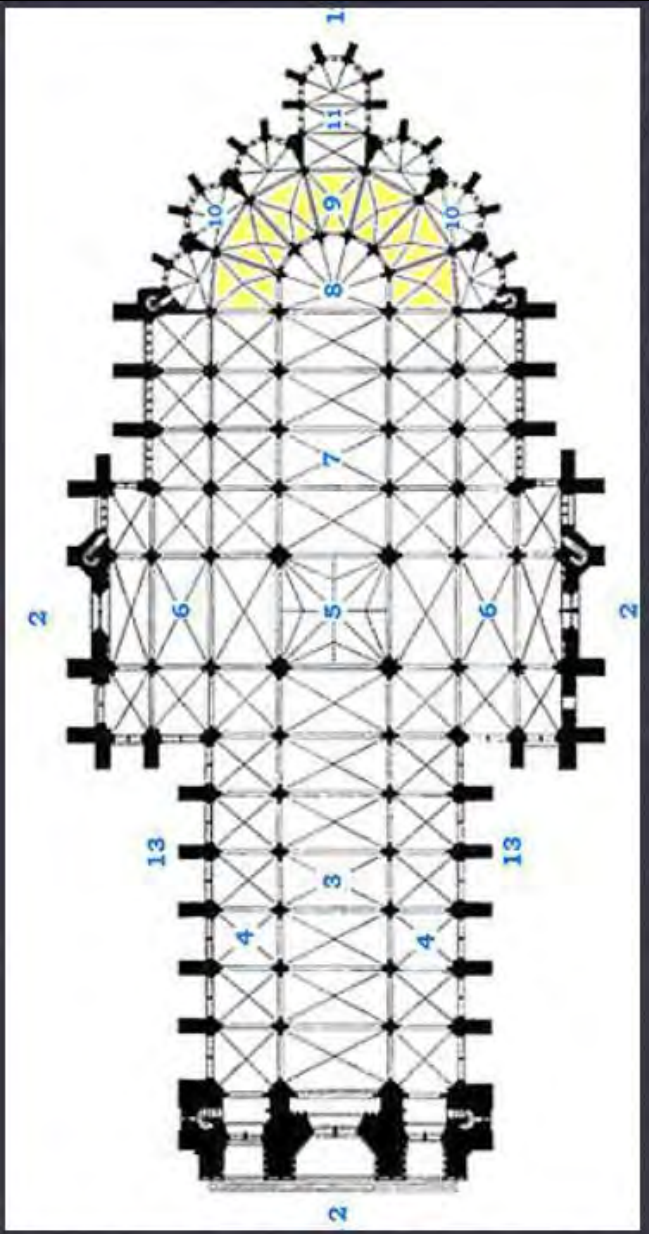
SITE MAPS

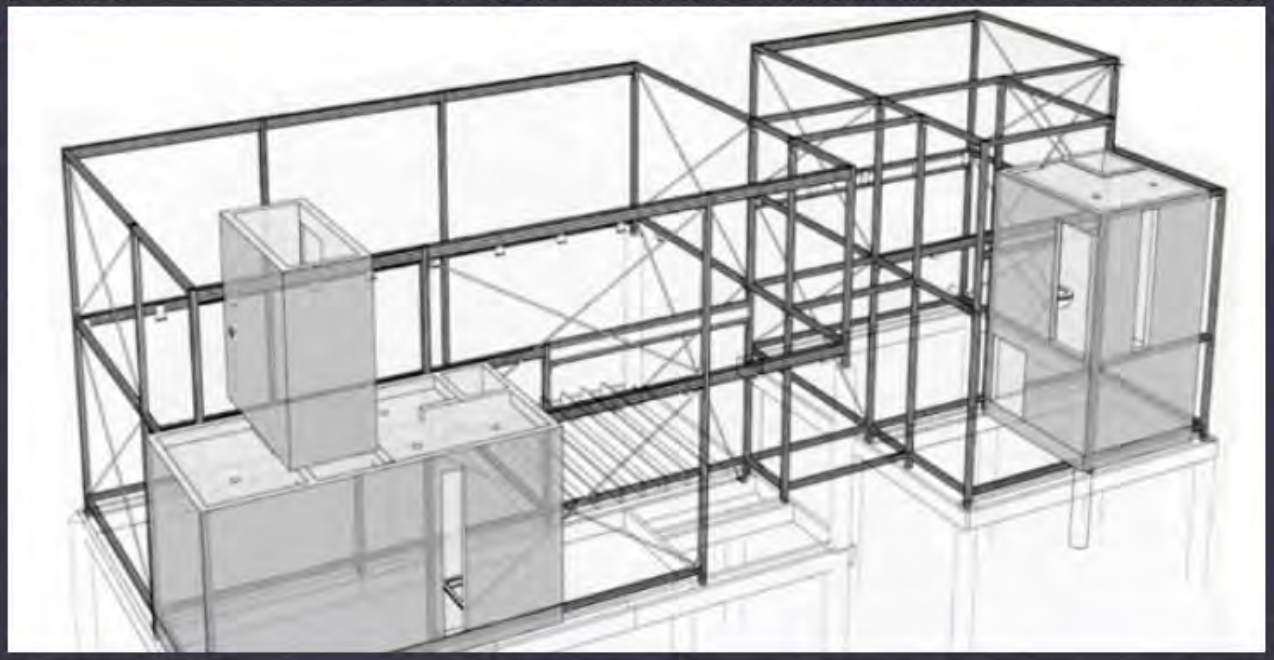
SEAL & SIGNATURE

A-101.00

MODULE-A-101.00_2021 1 OF 9

POWWERS OF TEN

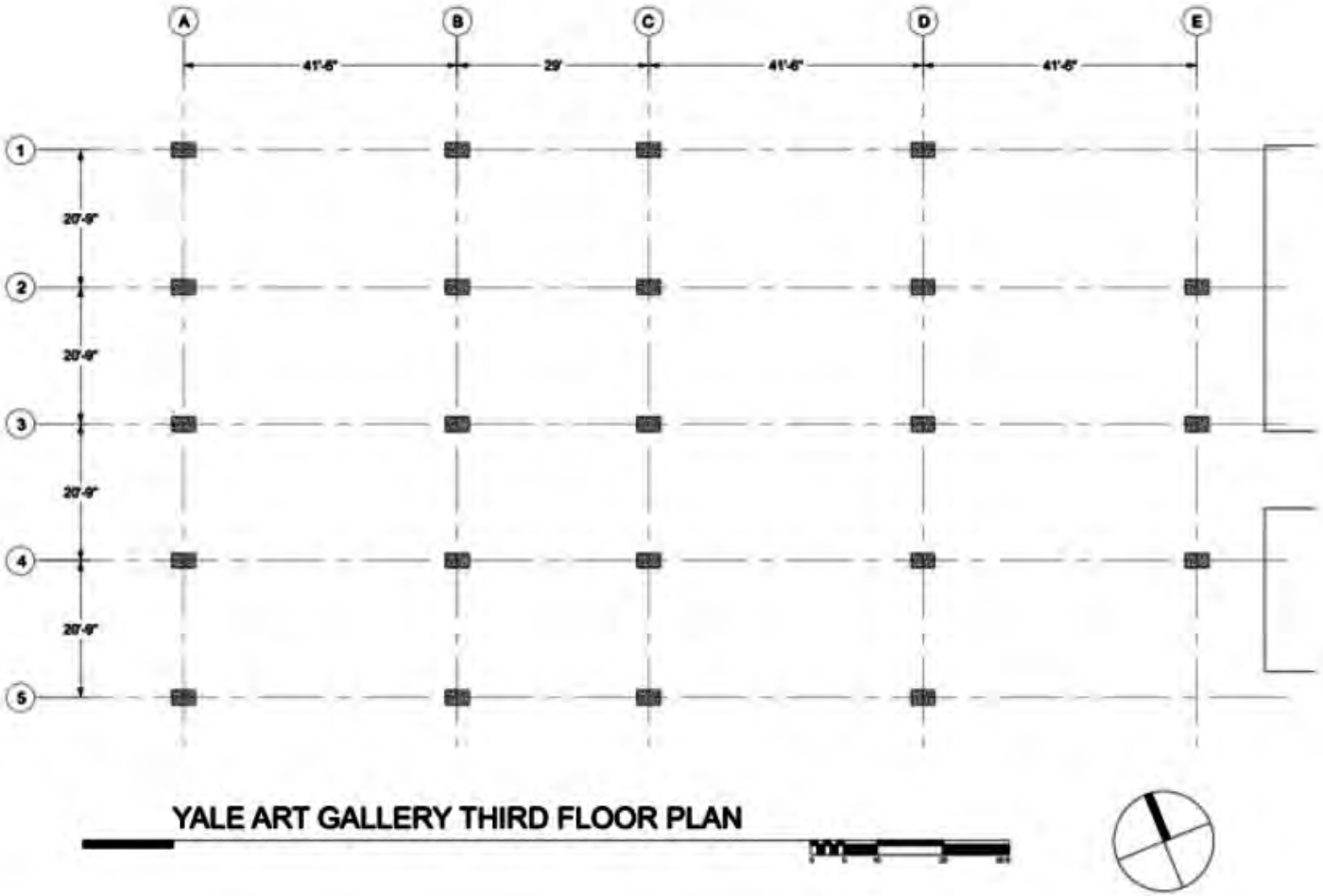




ORGANIZING SPACE

the grid

Courtesy of Prof. Montgomery



YALE ART GALLERY THIRD FLOOR PLAN

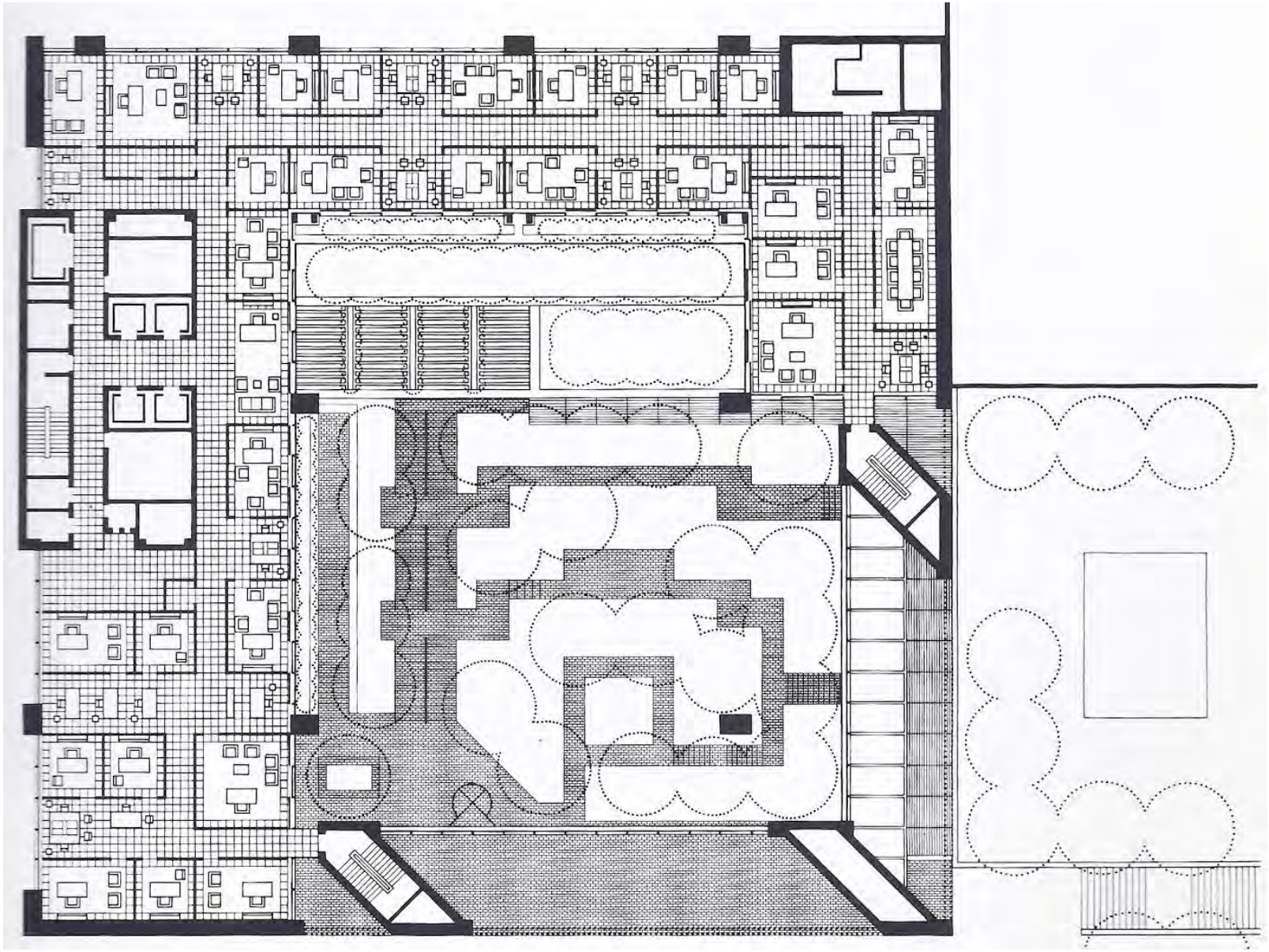
ABSTRACT ORDER

the grid

Courtesy of Prof. Montgomery

Assignment A

Grid plans & site plan



https://www.pinterest.com/pin/331929435012343161/

https://newyorkyimby.com/2016/04/landmarks-approves-upgrades-for-ford-foundation-building-320-east-43rd-street.html

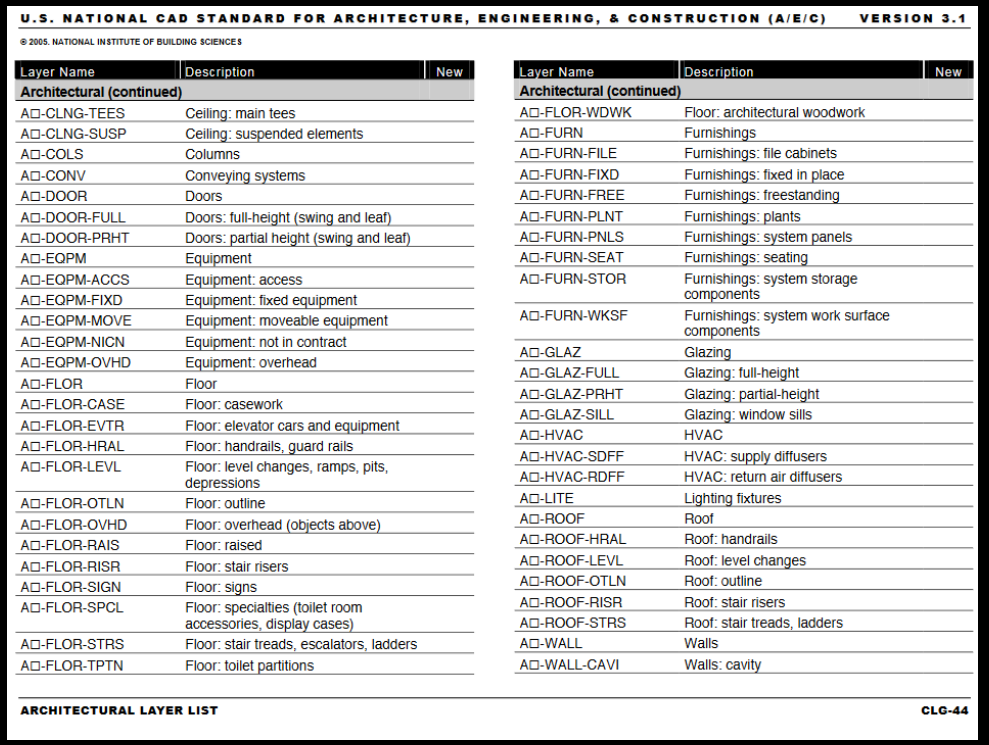
CAD Layer Guidelines:

NCS 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:



U.S. NATIONAL CAD STANDARD FOR ARCHITECTURE, ENGINEERING, & CONSTRUCTION (A/E/C) VERSION 3.1

Layer Name	Description	New
Architectural (continued)		
A□-CLNG-TEES	Ceiling: main tees	
A□-CLNG-SUSP	Ceiling: suspended elements	
A□-COLS	Columns	
A□-CONV	Conveying systems	
A□-DOOR	Doors	
A□-DOOR-FULL	Doors: full-height (swing and leaf)	
A□-DOOR-PRHT	Doors: partial height (swing and leaf)	
A□-EQPM	Equipment	
A□-EQPM-ACCS	Equipment: access	
A□-EQPM-FIXD	Equipment: fixed equipment	
A□-EQPM-MOVE	Equipment: moveable equipment	
A□-EQPM-NICN	Equipment: not in contract	
A□-EQPM-OVHD	Equipment: overhead	
A□-FLOR	Floor	
A□-FLOR-CASE	Floor: casework	
A□-FLOR-EVTR	Floor: elevator cars and equipment	
A□-FLOR-HRAL	Floor: handrails, guard rails	
A□-FLOR-LEVL	Floor: level changes, ramps, pits, depressions	
A□-FLOR-OTLN	Floor: outline	
A□-FLOR-OVHD	Floor: overhead (objects above)	
A□-FLOR-RAIS	Floor: raised	
A□-FLOR-RISR	Floor: stair risers	
A□-FLOR-SIGN	Floor: signs	
A□-FLOR-SPCL	Floor: specialties (toilet room accessories, display cases)	
A□-FLOR-STRS	Floor: stair treads, escalators, ladders	
A□-FLOR-TPTN	Floor: toilet partitions	

Layer Name	Description	New
Architectural (continued)		
A□-FLOR-WDWK	Floor: architectural woodwork	
A□-FURN	Furnishings	
A□-FURN-FILE	Furnishings: file cabinets	
A□-FURN-FIXD	Furnishings: fixed in place	
A□-FURN-FREE	Furnishings: freestanding	
A□-FURN-PLNT	Furnishings: plants	
A□-FURN-PNLS	Furnishings: system panels	
A□-FURN-SEAT	Furnishings: seating	
A□-FURN-STOR	Furnishings: system storage components	
A□-FURN-WKSF	Furnishings: system work surface components	
A□-GLAZ	Glazing	
A□-GLAZ-FULL	Glazing: full-height	
A□-GLAZ-PRHT	Glazing: partial-height	
A□-GLAZ-SILL	Glazing: window sills	
A□-HVAC	HVAC	
A□-HVAC-SDFF	HVAC: supply diffusers	
A□-HVAC-RDFF	HVAC: return air diffusers	
A□-LITE	Lighting fixtures	
A□-ROOF	Roof	
A□-ROOF-HRAL	Roof: handrails	
A□-ROOF-LEVL	Roof: level changes	
A□-ROOF-OTLN	Roof: outline	
A□-ROOF-RISR	Roof: stair risers	
A□-ROOF-STRS	Roof: stair treads, ladders	
A□-WALL	Walls	
A□-WALL-CAVI	Walls: cavity	

ARCHITECTURAL LAYER LIST CLG-44

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

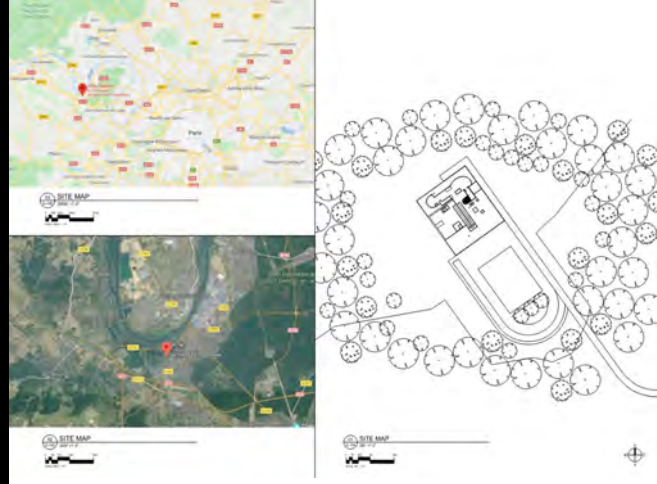
Assignment A-1

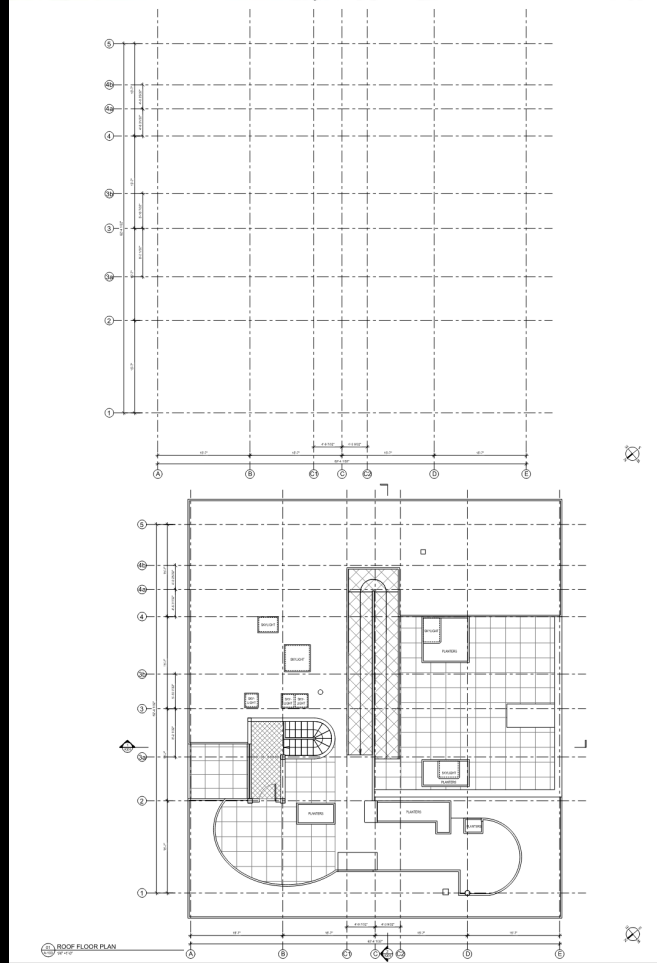
Grid plans & site plan

CASE STUDY #1 SITE+GRID+PLAN
DUE: the Day before next class (10pm)

- See Assignment Blackboard Rubric for Grading
- 3 boards required:
  - i. Site Maps (3 altitudes: 30,000', 3000', 300')
  - ii. Structural Grid @ 1/4"=1'-0"
  - iii. Roof 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)



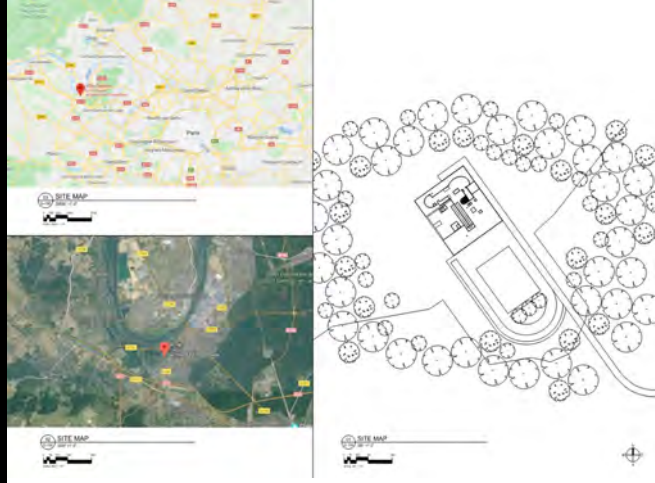


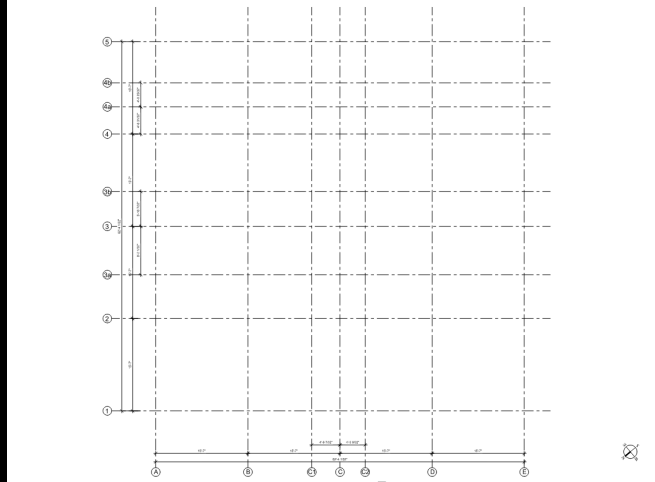
By, Cherlova Ekaterina, S2020

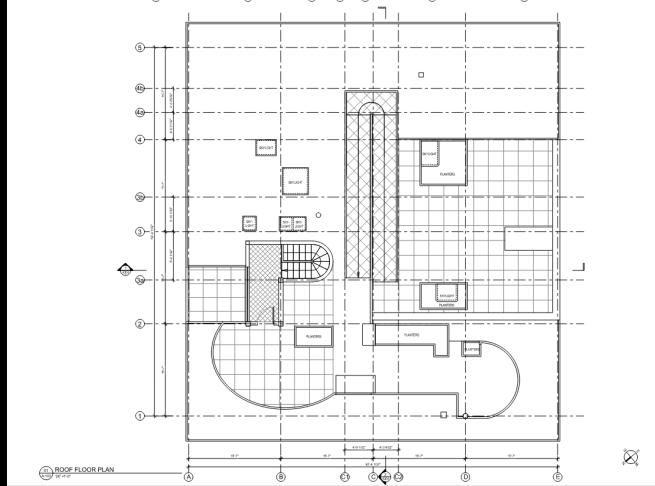
Assignment A-1

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







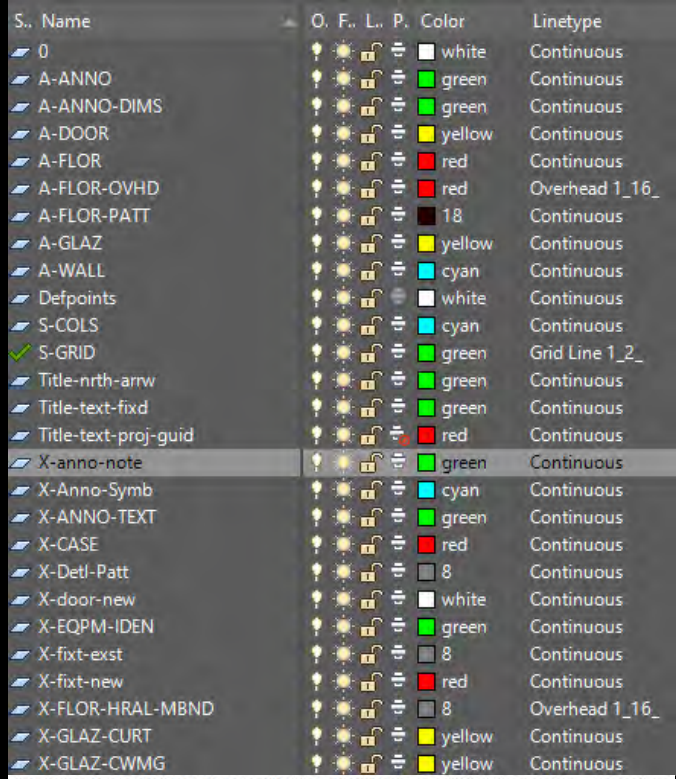
By, Cherlova Ekaterina, S2020

Assignment A-1

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



S..	Name	O.	F..	L..	P..	Color	Linetype
	0					white	Continuous
	A-ANNO					green	Continuous
	A-ANNO-DIMS					green	Continuous
	A-DOOR					yellow	Continuous
	A-FLOR					red	Continuous
	A-FLOR-OVHD					red	Overhead 1_16_
	A-FLOR-PATT					18	Continuous
	A-GLAZ					yellow	Continuous
	A-WALL					cyan	Continuous
	Defpoints					white	Continuous
	S-COLS					cyan	Continuous
✓	S-GRID					green	Grid Line 1_2_
	Title-nrth-arrw					green	Continuous
	Title-text-fixd					green	Continuous
	Title-text-proj-guid					red	Continuous
	X-anno-note					green	Continuous
	X-Anno-Symb					cyan	Continuous
	X-ANNO-TEXT					green	Continuous
	X-CASE					red	Continuous
	X-Detl-Patt					8	Continuous
	X-door-new					white	Continuous
	X-EQPM-IDEN					green	Continuous
	X-fixt-exst					8	Continuous
	X-fixt-new					red	Continuous
	X-FLOR-HRAL-MBND					8	Overhead 1_16_
	X-GLAZ-CURT					yellow	Continuous
	X-GLAZ-CWMG					yellow	Continuous

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Discipline Designator, Level 2

The optional second character is used to further define the discipline character. As an example, the Level 2 Discipline Designators for Architectural are shown:

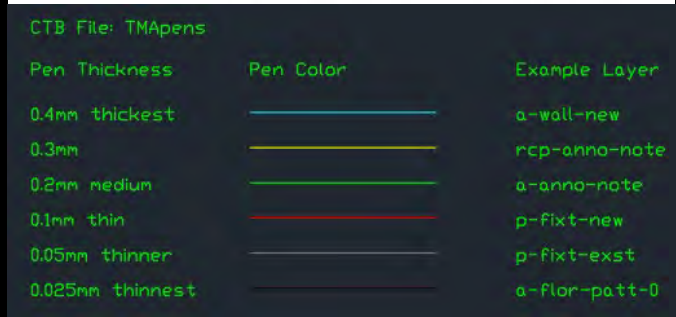
A typical layer name showing the required data fields only.

Note that the mandatory Level 1 discipline character is supplemented by the optional discipline modifier to create a Level 2 Discipline Designator.

A D - W A L L

Designator	Description	New
A	Architectural	
AS	Architectural Site	
AD	Architectural Demolition	
AE	Architectural Elements	
AI	Architectural Interiors	
AF	Architectural Finishes	
AG	Architectural Graphics	
AJ	User-Defined	•
AK	User-Defined	•

For a complete list of Discipline Designators, see Appendix A of UDS Module 1 beginning on page UDS-01.35.



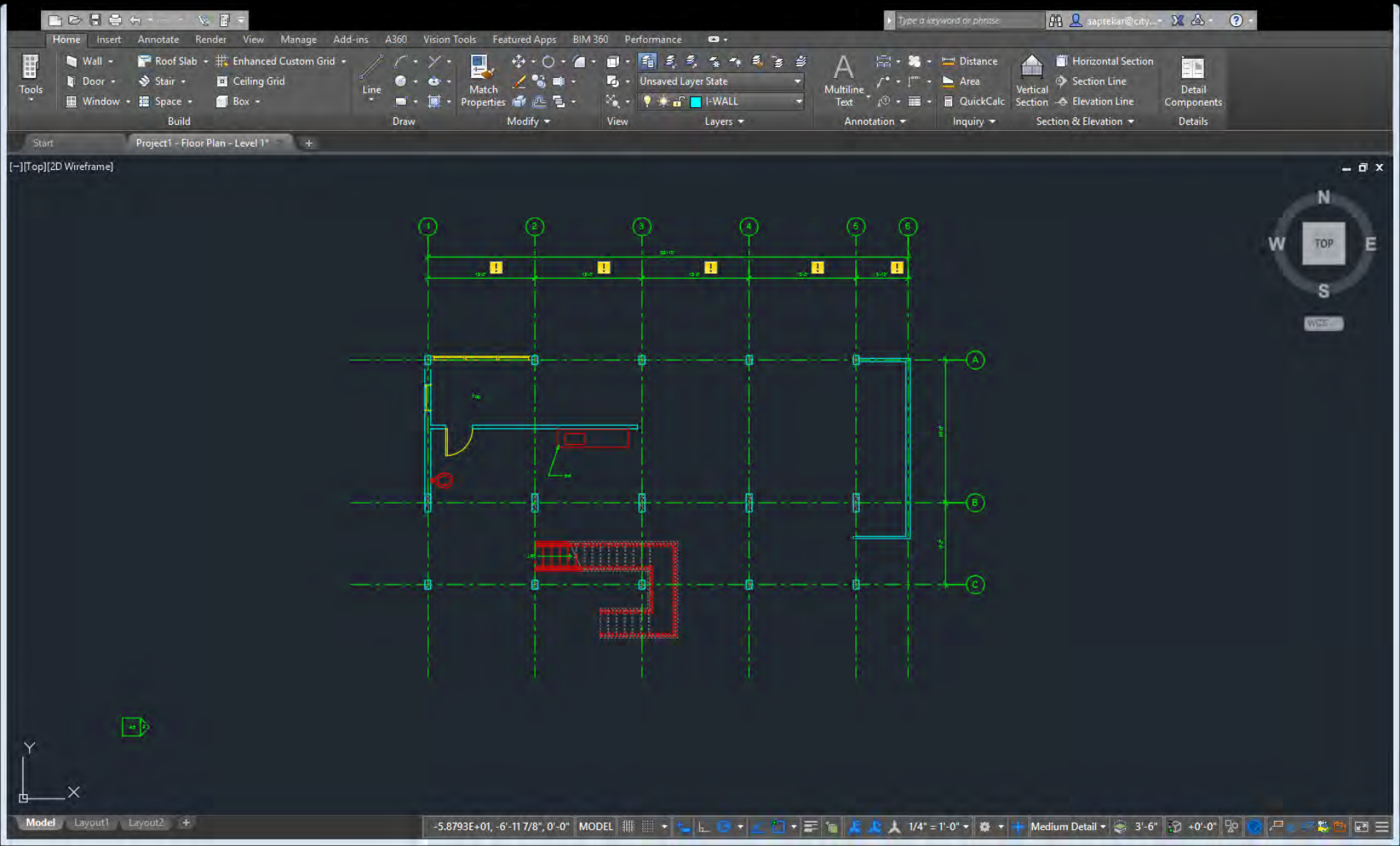
Assignment A-1

DUE: Day before Next class (10pm)

- Per board AutoCAD files, xrefs, and rasters included.

- all files submitted must follow this naming standard:
- Name files using the following naming convention:
  - course_professor initials_semester_project name_student name
  - (ex: ARCH2331_AA_S21_Grid_JoseSanchez-01.jpg)
  - files not conforming to department standards **may be graded**.

AutoCAD Tips….



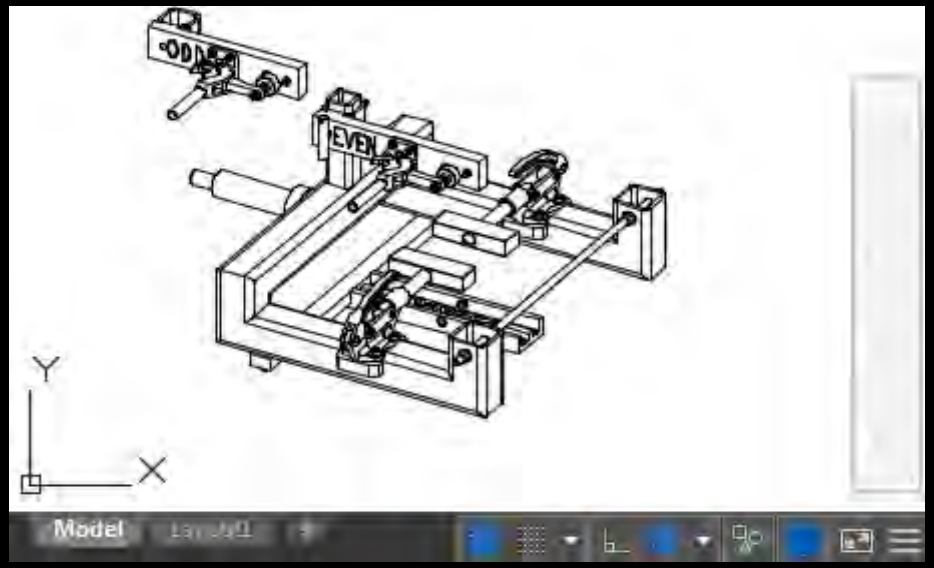
About Model Space and Paper Space

There are two distinct working environments, called "model space" and "paper space," in which you can work with objects in a drawing.

•By default, you start working in a limitless 3D drawing area called *model space*. You begin by deciding whether one unit represents one millimeter, one centimeter, one inch, one foot, or whatever unit is most convenient. You then draw at 1:1 scale.

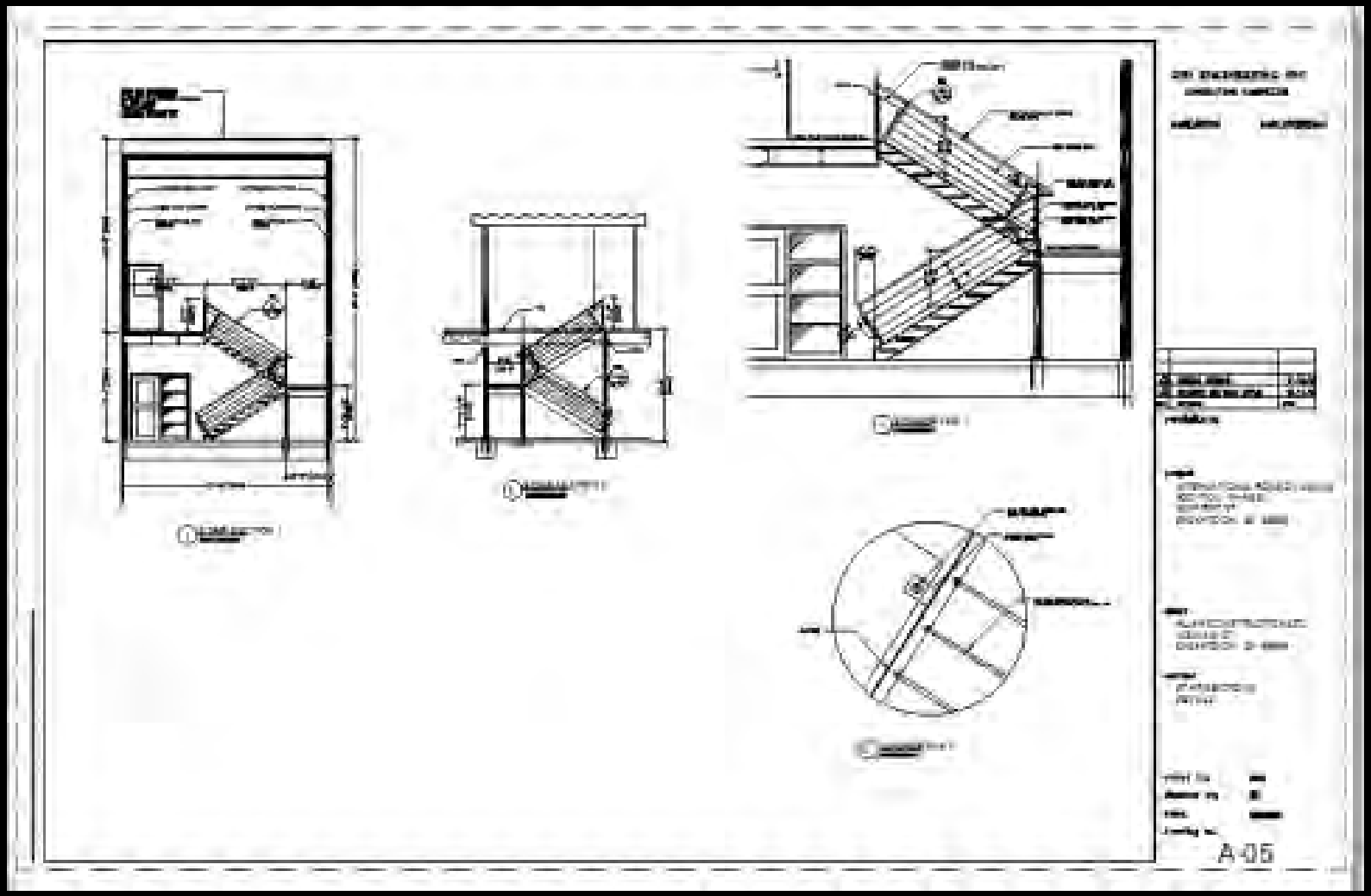
•To prepare your drawing for printing, switch to paper space. Here you can set up different layouts with title blocks and notes; and on each layout, you create layout viewports that display different views of model space. In the layout viewports, you scale the model space views relative to paper space. One unit in paper space represents the actual distance on a sheet of paper, either in millimeters or inches, depending on how you configure your page setup.

Model space is accessible from the Model tab and paper space is accessible from the layout tabs.



https://knowledge.autodesk.com/support/autocad/getting-started/caas/CloudHelp/cloudhelp/2017/ENU/AutoCAD-Core/files/GUID-990538B6-DDA1-4190-BCC0-BB5BA94C9879-htm.html

About Model Space and Paper Space



http://www.ellenfinkelstein.com/acadblog/know-what-your-plot-will-look-like-when-you-use-plot-styles/

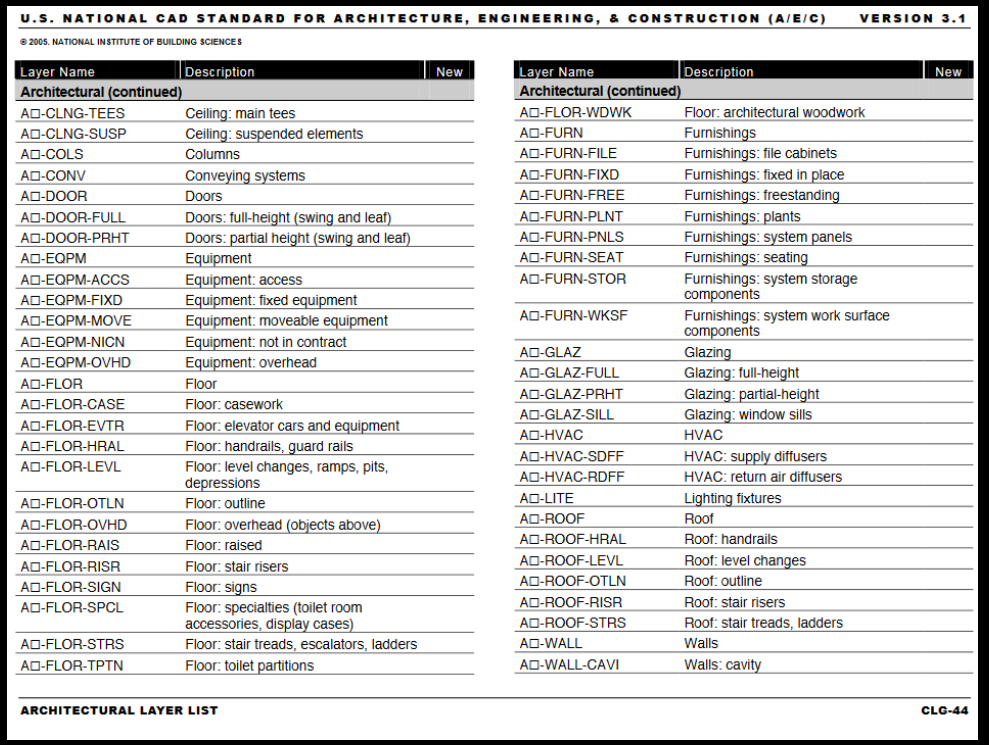
CAD Layer Guidelines:

NCS 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:



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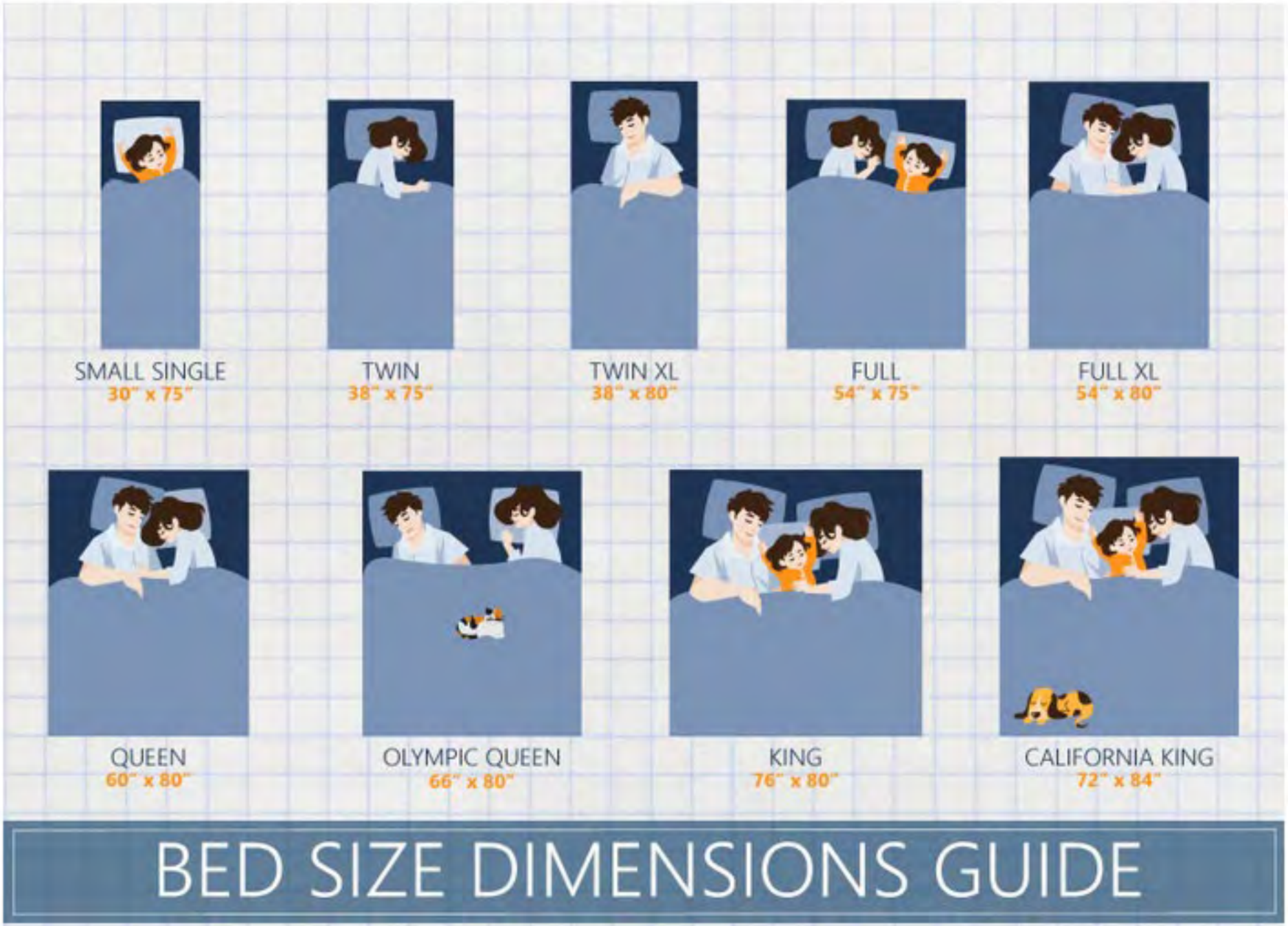
Layer Name	Description	New
Architectural (continued)		
A□-CLNG-TEES	Ceiling: main tees	
A□-CLNG-SUSP	Ceiling: suspended elements	
A□-COLS	Columns	
A□-CONV	Conveying systems	
A□-DOOR	Doors	
A□-DOOR-FULL	Doors: full-height (swing and leaf)	
A□-DOOR-PRHT	Doors: partial height (swing and leaf)	
A□-EQPM	Equipment	
A□-EQPM-ACCS	Equipment: access	
A□-EQPM-FIXD	Equipment: fixed equipment	
A□-EQPM-MOVE	Equipment: moveable equipment	
A□-EQPM-NICN	Equipment: not in contract	
A□-EQPM-OVHD	Equipment: overhead	
A□-FLOR	Floor	
A□-FLOR-CASE	Floor: casework	
A□-FLOR-EVTR	Floor: elevator cars and equipment	
A□-FLOR-HRAL	Floor: handrails, guard rails	
A□-FLOR-LEVL	Floor: level changes, ramps, pits, depressions	
A□-FLOR-OTLN	Floor: outline	
A□-FLOR-OVHD	Floor: overhead (objects above)	
A□-FLOR-RAIS	Floor: raised	
A□-FLOR-RISR	Floor: stair risers	
A□-FLOR-SIGN	Floor: signs	
A□-FLOR-SPCL	Floor: specialties (toilet room accessories, display cases)	
A□-FLOR-STRS	Floor: stair treads, escalators, ladders	
A□-FLOR-TPTN	Floor: toilet partitions	

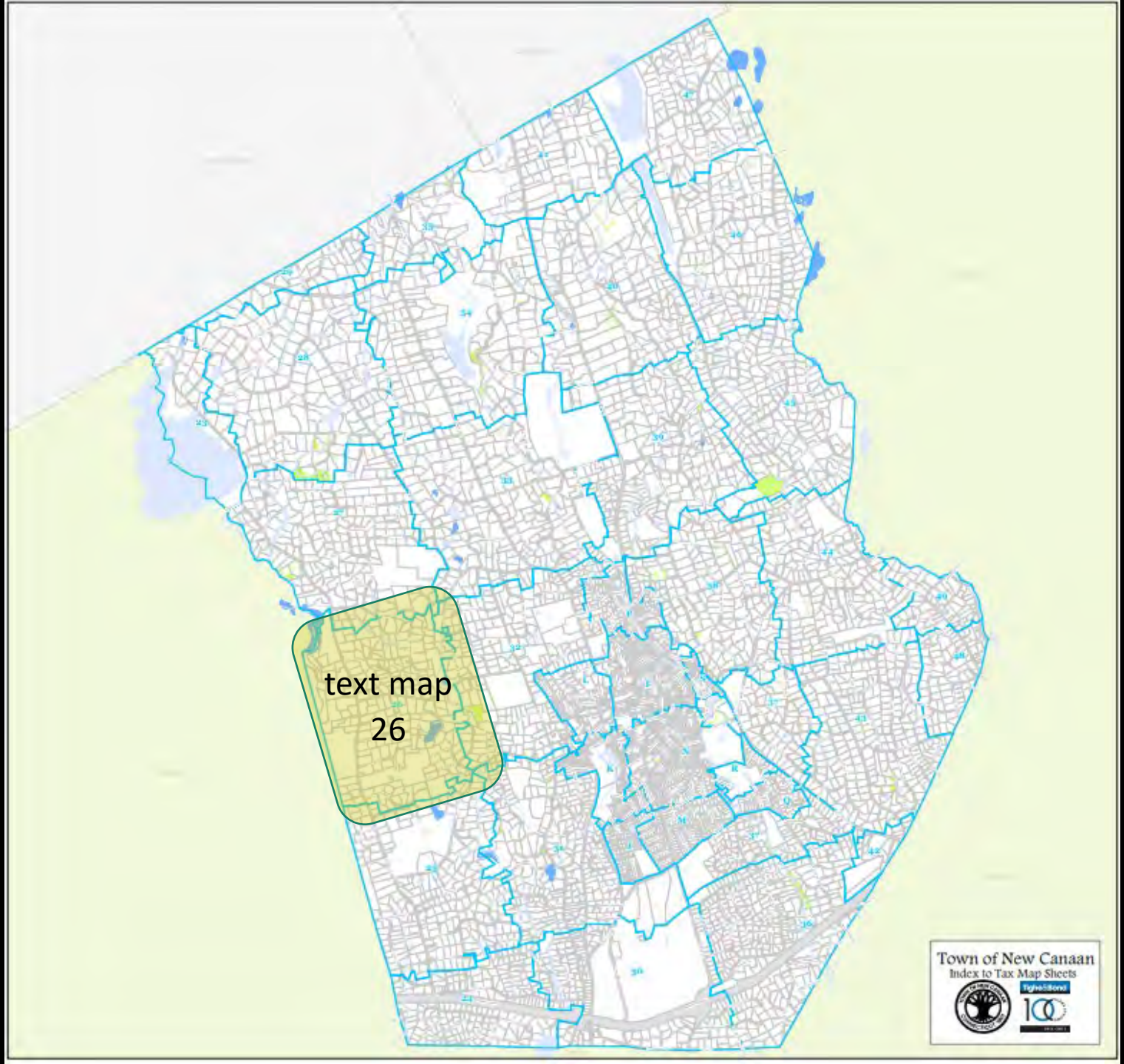
Layer Name	Description	New
Architectural (continued)		
A□-FLOR-WDWK	Floor: architectural woodwork	
A□-FURN	Furnishings	
A□-FURN-FILE	Furnishings: file cabinets	
A□-FURN-FIXD	Furnishings: fixed in place	
A□-FURN-FREE	Furnishings: freestanding	
A□-FURN-PLNT	Furnishings: plants	
A□-FURN-PNLS	Furnishings: system panels	
A□-FURN-SEAT	Furnishings: seating	
A□-FURN-STOR	Furnishings: system storage components	
A□-FURN-WKSF	Furnishings: system work surface components	
A□-GLAZ	Glazing	
A□-GLAZ-FULL	Glazing: full-height	
A□-GLAZ-PRHT	Glazing: partial-height	
A□-GLAZ-SILL	Glazing: window sills	
A□-HVAC	HVAC	
A□-HVAC-SDFF	HVAC: supply diffusers	
A□-HVAC-RDFF	HVAC: return air diffusers	
A□-LITE	Lighting fixtures	
A□-ROOF	Roof	
A□-ROOF-HRAL	Roof: handrails	
A□-ROOF-LEVL	Roof: level changes	
A□-ROOF-OTLN	Roof: outline	
A□-ROOF-RISR	Roof: stair risers	
A□-ROOF-STRS	Roof: stair treads, ladders	
A□-WALL	Walls	
A□-WALL-CAVI	Walls: cavity	

ARCHITECTURAL LAYER LIST CLG-44

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

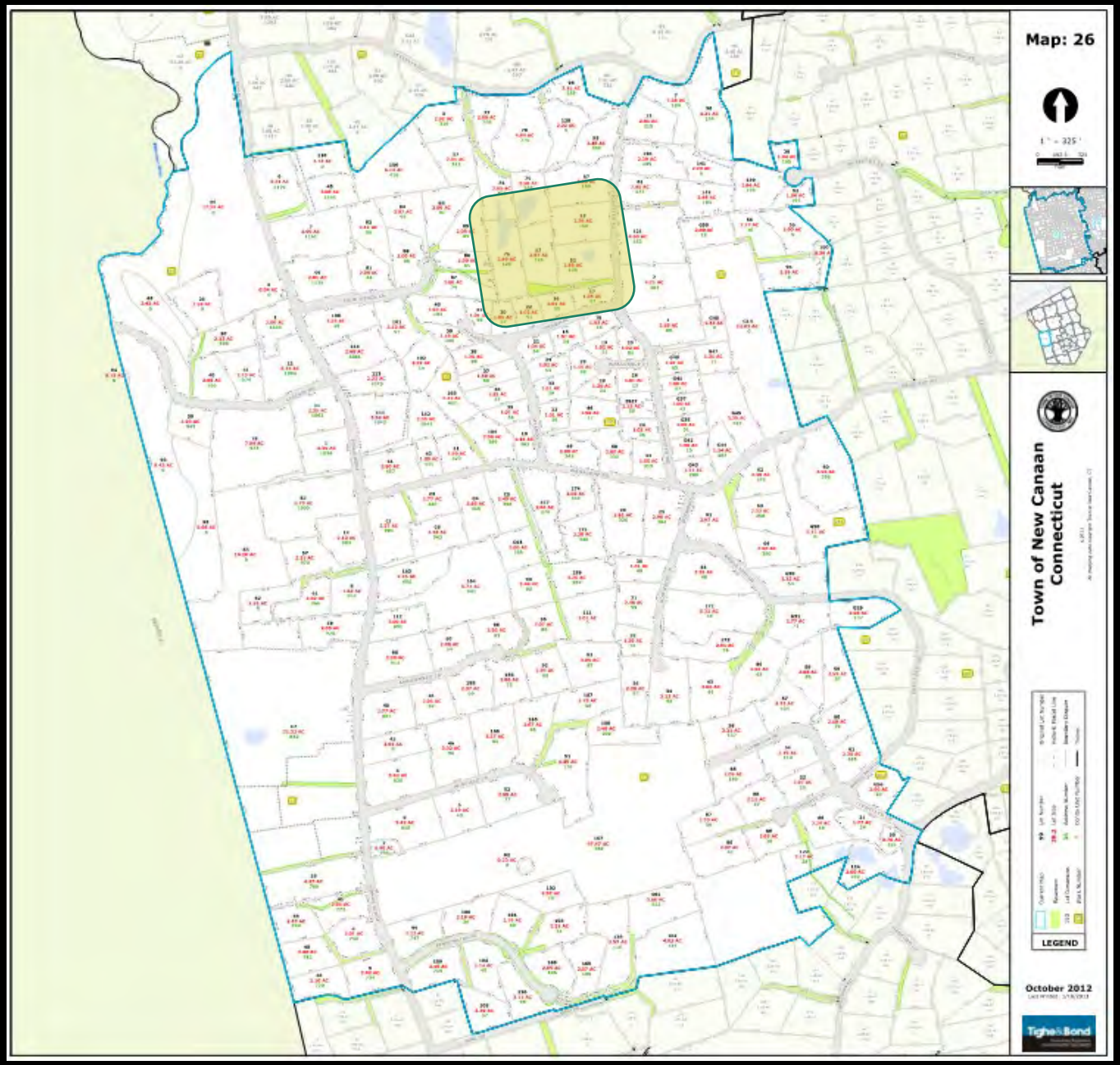


https://www.sleepadvisor.org/mattress-size-chart/



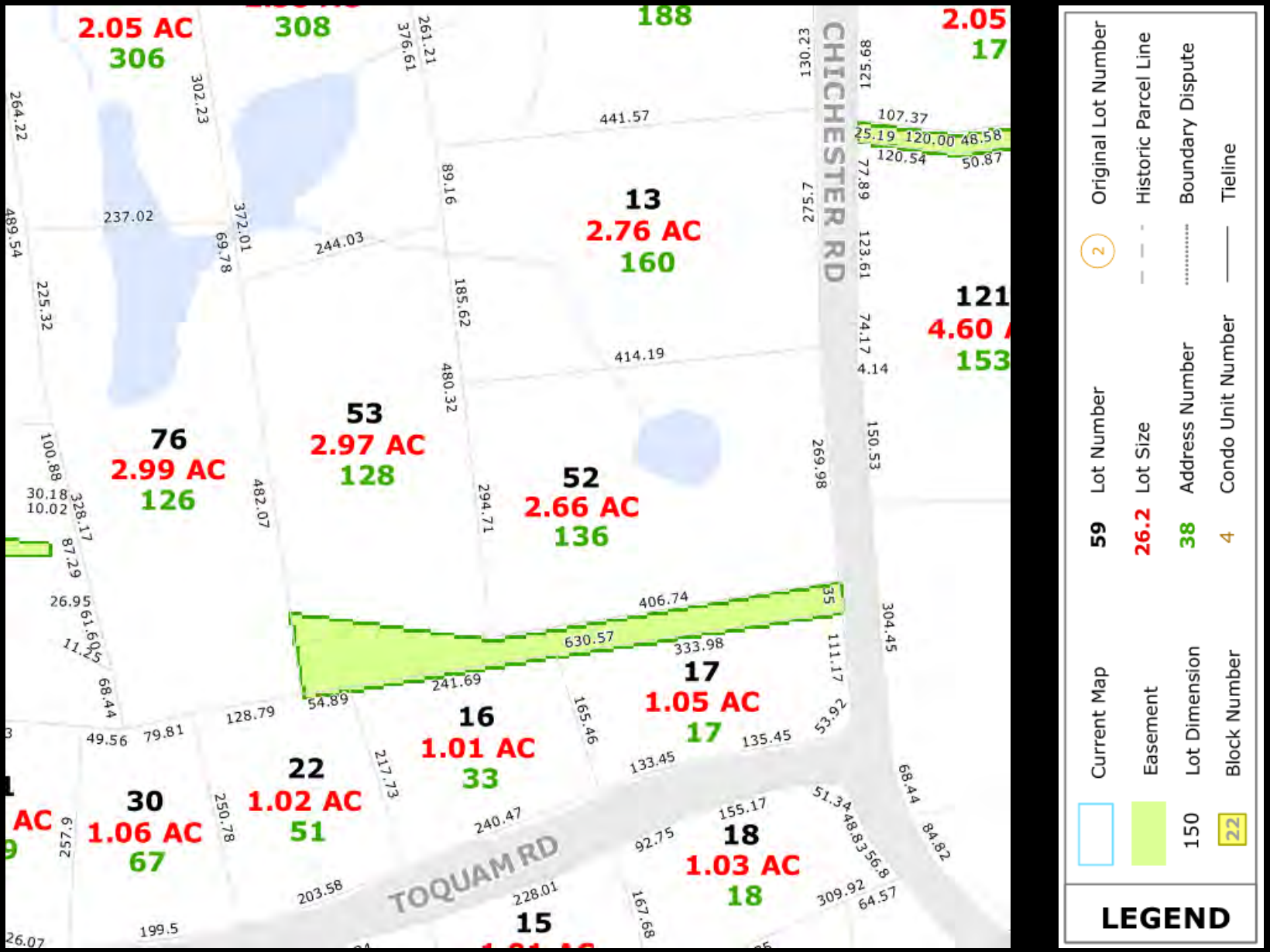
https://www.newcanaan.info/Departments/Assessor/Tax%20Maps/TaxMapIndex_24x26.pdf

text map number 26 lot: 53



https://www.newcanaan.info/Departments/Assessor/Tax%20Maps/TaxMap_26.pdf

text map number 26 lot: 53



https://www.newcanaan.info/Departments/Assessor/Tax%20Maps/TaxMap_26.pdf

reference scale command

Scaling [SC key command] can be easily accomplished by having two objects to snap to and using the reference scale command.

reference scaling to an object in auto CAD

1. type “sc” for scale
2. Select the object to scale.
3. Select the base point.
4. Enter r (Reference).
5. Select the first and second reference points, or enter a value for the reference length.

This link contains a decent reference scaling video:

https://autocadtips1.com/2011/04/17/scale-objects-with-a-reference/

Photo: A Aptekar 2019, Miami Florida

82 Rue de Villiers, 78300 Poissy, France

http://4.bp.blogspot.com/-L3Fej2ewGws/TYh8vRPEhmI/AAAAAAAAAaE/XeW7GJch148/s1600/Villa%2BSavoye%2BSite%2BPlan.jpg