CMCE 1110 - Construction Drawings I
Lesson 2: Linework
Professor Anderson

Jay Z, On to the Next One, 2009
Giovanni Battista Piranesi, Temple of Minerva Medici, 1756
FUNDAMENTAL PRINCIPLES OF LETTERING AND LINEWORK:

UNIFORMITY OF:
1. WEIGHT OF LINES
2. SHAPE OF LINES
3. STYLE OF LINES (TYPE)
4. SLOPE OF LINES (ACCURACY)
5. SIZE OF LINES (GUIDELINES)
6. SPACING OF LINES

UNIFORM VARIATION IS ESSENTIAL FOR LEGIBILITY OF DRAWINGS.
PENCIL GRADE & USE:

H: LIGHT, HARD LEAD
- GUIDELINES, LIGHT HATCHES
- WILL PRODUCE UN-ERASABLE GROOVE IN PAPER IF TOO MUCH PRESSURE IS APPLIED

F: MEDIUM LIGHT, FINE POINT
- SMALL LETTERING,

HB: MEDIUM DARK
- TITLEBLOCK, LARGE LETTERING, OBJECT OUTLINES

B: DARK, SOFT LEAD
- BORDERS, SECTION CUTS
CONSTRUCTION LINES & GUIDELINES

DaVinci: Perspective
LINETYPES

THIN LINE:
- EDGES IN VIEW
- SURFACE FEATURES

NORMAL LINE:
- WALLS IN PLAN
- PRINCIPAL ELEMENTS
- LEADERS
- DIMENSION LINES

HEAVY LINE:
- FINISH GRADE
- ELEMENTS CUT IN SECTION

CENTERLINE:
- BUILDING CONTROL LINES
- COLUMN CENTERLINES

HIDDEN LINE:
(OBJECT NOT SEEN IN FRONT OF THE VISION PLANE)
- HIDDEN ELEMENTS
- FOOTINGS

OVERHEAD LINE:
(OBJECT NOT SEEN BEHIND THE VISION PLANE)
- OVERHANGS
- CABINETS
- CEILING FEATURES

PROPERTY LINE:
- PROPERTY LINES
- BUILDING CONTROL LINES

MATCH LINE:
MATCH LINE - SEE SHEET A204
MATCH LINE - SEE SHEET A205

USED TO DIVIDE A DRAWING INTO AREAS
WHEN DRAWING SIZE EXCEEDS SHEET SIZE
LINEWEIGHTS

EXTRA FINE

FINE

NORMAL

HEAVY

EXTRA HEAVY

The viewer should be able to distinguish between your linetypes when viewing your drawing at arms length.

WHAT DIFFERENCE DOES IT MAKE?