Architectural CAD, IET-161   Name: _____

Winter 2012, Finals Week,

Commercial Project Grading Criteria   Day and date: _____

Drawing and Project Design, 110 points total

Drawing grading criteria (50 points): Your Commercial Project will have the following items included in a sheet set as described below. Make certain that you understand your markups and incorporate the corrections into your Final Project drawings.

- Titleblock and general sheet items (5 pts)
    - Logo, company name and address, orientation, size (extra credit for more items)
    - Fields lined up, information filled in, text size
    - All text that you control CAPITALized
    - Sheet numbering
- Cover Sheet (6 pts)
    - Project title, Project sub title, Project address, Project team members
    - Image rendering of the exterior of the proposed project
    - Map of the project site with title
    - Sheet list with title
        - Fields include, Sheet Number, Sheet Name, Designed By, Drawn By, Checked By, Approved By, Center all fields except the Sheet Name
        - Use requirements from previous schedules
    - All text that you control CAPITALized
- Site Plan (7 pts)
    - Plan fills sheet, centered, hidden line visibility for view
    - View is cropped and crop boundary hidden
    - View title orientation
    - North Arrow (extra credit for a modified or unique one)
    - Rotate the arrow off center, consistent orientation and location on all plan sheets
    - Graphic Scale Bar, choose the correct size (extra credit for a modified or unique one)
    - Hide your building to reveal your Building Pad (don't show the building)
    - Hide other non relevant non site plan building features
    - Property line, Label Contours
    - Show dimensions from property line to the building pad
    - Show other relevant dimensions, other site plan elements
    - All text that you control CAPITALized
- Floor Plan, include the following from the list below. If the items in the list do not fit on the floor plan sheet then move them to a Schedules or Legends sheet. The items listed below are in order of importance so move the bottom items first to the new sheet. Keep the Door, Window and Wall Schedules together (7 pts).
    - Plan fills sheet, centered, hidden line visibility for view
    - View is cropped and crop boundary hidden
    - View title orientation
    - North Arrow
    - Graphic Scale Bar
    - Dimensions (use previous requirements)
    - Tags for rooms, doors, windows and walls, organized
    - All text that you control CAPITALized
    - Door Legend for plan symbols
    - Window Legend for plan symbols
    - Room Schedule (use previous requirements)
    - Door Schedule (use previous requirements)
    - Window Schedule (use previous requirements)
    - Wall Schedule (use the following fields: Type Mark, Family and Type, Fire Rating (list in hours), Length, Width, Area (order and center the Mark field) (use typical requirements)

- Reflected Ceiling Plan (if you have a suspended ceiling, otherwise a modified floor will be graded) (5 pts)
    - Plan fills sheet, centered, hidden line visibility for view, View is cropped and crop boundary hidden
    - View title orientation
    - North Arrow, Graphic Scale Bar
    - Lighting Fixture Schedule with the following fields in order: Fixture (Mark), Wattage, Circuit # (leave this blank), Electrical Data, Family and Type, Lamp, Luminous Intensity
        - Center the Fixture (Mark) and Type Mark columns
        - Use a new sheet(s) if you need more room, name the sheet "Lighting Fixture Schedule"
    - Tag about 5 fixtures each with the Type Mark number that you assign in the schedule.
    - All text that you control CAPITALized
- Elevations, 2 or 4 sheets (3 pts)
    - Hidden line visibility, All views cropped and crop boundary hidden, level alignment
    - View title orientation
    - Graphic Scale Bar
    - Elevation relevant dimensions only, include all that apply
    - Door Legend for elevations, Window Legend for elevations
    - All text that you control CAPITALized
- Sections, 1 or 2 sheets (3 pts)
    - Hidden line visibility, All views cropped and crop boundary hidden, level alignment
    - View title orientation
    - Graphic Scale Bar
    - Section relevant dimensions, include all that apply
    - All text that you control CAPITALized
- Schedules/Legends (3 pts)
    - If not included on other sheets
    - List in order per the sheet numbering sequence listed above
    - Incorporate all of the elements required this quarter
    - All text that you control CAPITALized
- Details (6 pts)
    - Hidden line visibility
    - All views cropped and crop boundary hidden, level alignment
    - View title orientation
    - Smaller scale factor than the parent view (1" = 1'-0", 1/2" = 1'-0", etc...)
    - Provide at least 6 details similar to what has been done in class
    - Have at least 5 annotation elements such as callouts and dimensions per detail
    - Must have annotation callouts with dog leg leaders
    - 3/32" text size, Arial, CAPITAL lettering
    - Insert break lines, mask area, trim
    - Show examples of a 2D filled regions
    - One section detail of an exterior wall with insulation
    - One section detail of an interior wall with a fire stop
    - All text that you control CAPITALized
- Print your sheets, have these printed before the Final on Thursday or points off
    - Print out all sheets 1/2 size (11" x 17" ANSI B size) 20 maximum
        - Staple or fasten in upper left corner or along left edge (1 pts)
        - Scale, Measure your Graphic Scale Bar (2 pts)
    - Print out 2 full size sheets, in color of your Cover sheet and first floor plan
        - Scale, Measure your Graphic Scale Bar (2 pts)

Project Design grading criteria (60 points): Various project related items covered in Revit in this class the quarter.
- Custom levels, renamed in CAPITALS, aligned, same side (2 points)
- Custom walls, one exterior, one interior, must have unique components in them, rename these with the word "Custom" in the name (5 points)
- Custom floors, at least 2, must have unique components in them, rename these with the word "Custom" in the name (3 points)
- Appropriate number of windows and doors at consistent heights and symmetry (6 points)
- Walk Through, 1 minute, inclusive, not too fast
- Rooms and room bounding for all internal areas (4 points)
- The following three categories will be counted and totaled for a single grade. This allows someone with a very large project with many walls, floors, ceilings, windows and doors to be judged with a smaller project that may have many more components. All items counted must enhance the model not just occupy open space. Repeating items such as ceiling lights, parking components and similar items that can be duplicated via arrays may be counted less or as one item. (40 points total)
    - Walls, floors, roofs, ceilings, doors, curtain wall systems and windows will be counted, expecting about 40 items
    - Components will be counted, these will include interior items such as lights, equipment, plumbing fixtures, furniture and similar items, not model groups, expecting about 50 items
    - Site plan components such as contours, subregions, parking, landscaping and similar items, expecting about 30 items

Extra credit for extra items beyond what is required.