Don’t be a heritage

At 2018
This is our history

At 2025
This will be our history
Live your age

So nice, But so old

Live your age
BIM: Building information modeling
LOD: level of development
LOD: level of development
LOD: level of development

LOD 100  LOD 200  LOD 300  LOD 350  LOD 400  LOD 500

LOD 100  LOD 200  LOD 300  LOD 350  LOD 400

ORGANIZED BY:  www.thebig5constructegypt.com
Real time updates on:  Facebook  Instagram  Twitter  LinkedIn
BIM dimensions

3D
- Existing Conditions Models
- Laser scanning
- Ground Penetration Radar (GPR) conversions
- Safety & Logistics Models
- Animations, rendering, walkthroughs
- BIM driven prefabrication
- Laser accurate BIM driven field layout

4D
- Scheduling
  1. Project Planning Simulations
  2. Lean Scheduling
  3. Visual Validation for Payment Approval

5D
- Estimating
  1. Real-time conceptual modeling and cost planning (DProfiler)
  2. Quantity extraction to support detailed cost estimates
  3. Fabrication verifies from Fabrication Models
    - Structural Steel
    - Rebar
    - Mechanical/Plumbing
    - Electrical
  4. Value Engineering
    - What-if scenario
    - Visualizations
    - Quantity Estimations
  5. Prefabrication Solutions
    - Equipment rooms
    - MEP systems
    - Multi-Tube Prefabrication
    - Unique architectural and structural elements

6D
- Sustainability
  1. Conceptual energy analysis via DProfiler
  2. Detailed energy analysis
  3. Sustainable element tracking
  4. LEED tracking

7D
- Facility Management Applications
  1. Life Cycle BIM Strategies
  2. BIM As-Builts
  3. BIM embedded O&M manuals
  4. CO2e data population and extraction
  5. BIM Maintenance Plans and Technical Support
  6. BIM for hosting: Land Lease's Digital Exchange System

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Output of BIM:
1- Technical drawing
Output of BIM: 2- Schedules

ACT-1
ACOUSTICAL CEILING PANEL
QUALICRAFT BORAK INTERIORS
#214.270.184
4"x4" x 6"4'x4'x6'
ACOUSTICAL CEILING PANEL TO BE WRAPPED WITH MEC HO25 HADE MATERIAL UP-1

ACT-2
ACOUSTICAL CEILING PANEL
ARMSTRONG COSTELLO
8877.276.787
4'x6'x6'
CLEAN ROOM MILLAIR 31715 WHITE

AP-1
ACRYLIC PANEL
3-FORM KELLY BURNS 4401.805.321
CLEAR VARIOUS CLEAR ACRYLIC SHELVES

C-1-1
CERAMIC TILE
MEREDITH RASBY 4401.229.018
6"x8"
ISLANDA FIELD TILE COLOR: 667

Wall Material Takeoff

<table>
<thead>
<tr>
<th>Family and Type</th>
<th>Material</th>
<th>Name</th>
<th>Area</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air wall Foundation - 3&quot; Concrete</td>
<td>Concrete - Calcium Reinforced</td>
<td>1264.2 ft²</td>
<td>1831.4 ft³</td>
<td></td>
</tr>
<tr>
<td>1&quot; CMU interior wall</td>
<td>Concrete - Reinforced</td>
<td>1171.4 ft²</td>
<td>1720.6 ft³</td>
<td></td>
</tr>
<tr>
<td>12&quot; CMU exterior</td>
<td>Concrete - Precast Concrete</td>
<td>441.8 ft²</td>
<td>661.4 ft³</td>
<td></td>
</tr>
<tr>
<td>12&quot; CMU exterior - Stucco on CMU</td>
<td>Concrete - Precast Concrete</td>
<td>441.8 ft²</td>
<td>661.4 ft³</td>
<td></td>
</tr>
</tbody>
</table>

Wall Takeoff: 14,230.2 ft²

Window: 14,230.2 ft²

C-1-1
CERAMIC TILE
MEREDITH RASBY 4401.229.018
6"x8"
ISLANDA FIELD TILE COLOR: 667

Room Area Schedule

<table>
<thead>
<tr>
<th>Room</th>
<th>Area</th>
<th>Actual Area</th>
<th>Target Area</th>
<th>Area Variance</th>
<th>% Area Variance</th>
<th>Pay</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>565.03 ft²</td>
<td>549.03 ft²</td>
<td>29.00 ft²</td>
<td>4.37%</td>
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<tr>
<td>2</td>
<td>546.25 ft²</td>
<td>546.25 ft²</td>
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<td>0.00%</td>
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<td></td>
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<tr>
<td>3</td>
<td>264.03 ft²</td>
<td>264.03 ft²</td>
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<td>0.00%</td>
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<td></td>
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<tr>
<td>4</td>
<td>156.05 ft²</td>
<td>156.05 ft²</td>
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<td>0.00%</td>
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<td></td>
</tr>
<tr>
<td>5</td>
<td>124.05 ft²</td>
<td>124.05 ft²</td>
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<td>0.00%</td>
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<td></td>
</tr>
<tr>
<td>6</td>
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<td>141.05 ft²</td>
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<td></td>
</tr>
<tr>
<td>7</td>
<td>136.05 ft²</td>
<td>136.05 ft²</td>
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<td>0.00%</td>
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<td></td>
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<tr>
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<tr>
<td>9</td>
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<td></td>
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<tr>
<td>10</td>
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<tr>
<td>11</td>
<td>146.05 ft²</td>
<td>146.05 ft²</td>
<td>0.00 ft²</td>
<td>0.00%</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>136.05 ft²</td>
<td>136.05 ft²</td>
<td>0.00 ft²</td>
<td>0.00%</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>13</td>
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<td>136.05 ft²</td>
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<td></td>
</tr>
<tr>
<td>14</td>
<td>337.05 ft²</td>
<td>337.05 ft²</td>
<td>0.00 ft²</td>
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<td></td>
</tr>
<tr>
<td>15</td>
<td>435.05 ft²</td>
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<td>0.00%</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>337.05 ft²</td>
<td>337.05 ft²</td>
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<td>0.00%</td>
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<td></td>
</tr>
<tr>
<td>17</td>
<td>104.75 ft²</td>
<td>104.75 ft²</td>
<td>0.00 ft²</td>
<td>0.00%</td>
<td>No</td>
<td></td>
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</tbody>
</table>
Output of BIM:
3- Clash report
Output of BIM:
4- Render shots
Output of BIM:
6- 4D & 5D – time and cost
Output of BIM:
7- Analysis
Output of BIM:
8- VR & AR
BIM lifestyle
Way of thinking
Work flow
Tools
Information
Drawing
Software & hardware
It is not about Revit
It is not too late

Who ha already:
  Professional?
  Academic?
Obstacles and challenges

You were born to win, but to be a winner you must:

plan to win
prepare to win
and expect to win.

Regulations
Software & hardware
Qualified staff
Time
Free license

https://www.autodesk.com/education/free-software/featured

Autodesk software for students, educators, and educational institutions
THANK YOU!

18 - 21 SEPTEMBER 2018
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