Roof Plan (DWG) Deliverables

Roof Plan (DWG)

The Roof Plan (DWG), Pitched or Flat, shows the layout and geometry of the existing roof, including visible slopes, ridgelines, valleys, parapets, and rooftop mechanical features. Created using iGUIDE capture data, 360° imagery, and satellite imagery when available, this drawing supports planning, coordination, and project development involving roof conditions.

- **Roof Plans:** 2D 2018 drawing file (.dwg).
- **Delivery Time:** 3 business days* total for properties under 10,000 sq ft—2 business days for the Floor Plan, plus 1 additional business day for the Roof Plan. Timelines for properties over 10,000 sq ft may vary based on size and complexity. Delivery timelines will be confirmed upon review if inquired. For questions or specific delivery requests, please submit a ticket at support.youriguide.com.
  **Delivery times may be affected by property size, roof geometry, and any additional requested services. Business days exclude weekends, holidays, and hours outside of Monday–Friday, 9:00 AM–5:00 PM ET.*

	Premium
Included	✔ AutoCAD 2018 Drawing File (.dwg) ✔ Metric or Imperial Units ✔ AIA Layer Format ✔ Material Hatch Pattern ✔ Direction of Roof Slope ✔ Indication of Roof Connections ✔ Commercial Flat Roofs ✔ Residential Pitched Roofs ✔ Mechanical items, Roof Vents & Roof Drains ✔ Skylights
Not Included	❌ Roof Pavers & Walkways ❌ Roof Slope Values
** Deliverables are dependent on successfully meeting capture requirements.* ** This deliverable is available as an add-on to the DWG Floor Plan.* ** All drawings are produced using Revit LT 2020.*	

Roof Plan Deliverables

File Format: 2D drawing file (.dwg), exported in AutoCAD 2018 format from Revit.

Roofing Materials: Residential roof plans will feature a standard hatch pattern representing shaker/asphalt shingles. Commercial roofs will not contain hatch patterns unless specified and will be left unhatched to maintain clarity.

Roof Geometry: Roof edges and connections, such as ridges, valleys, hips, and gables, are represented by linework. These features are graphically shown but not individually labeled. A solid line outlines the roof perimeter, including all connected sections and slopes.

Roof Slope: Each roof segment includes a directional arrow and pitch notation, indicating the direction and angle of slope.

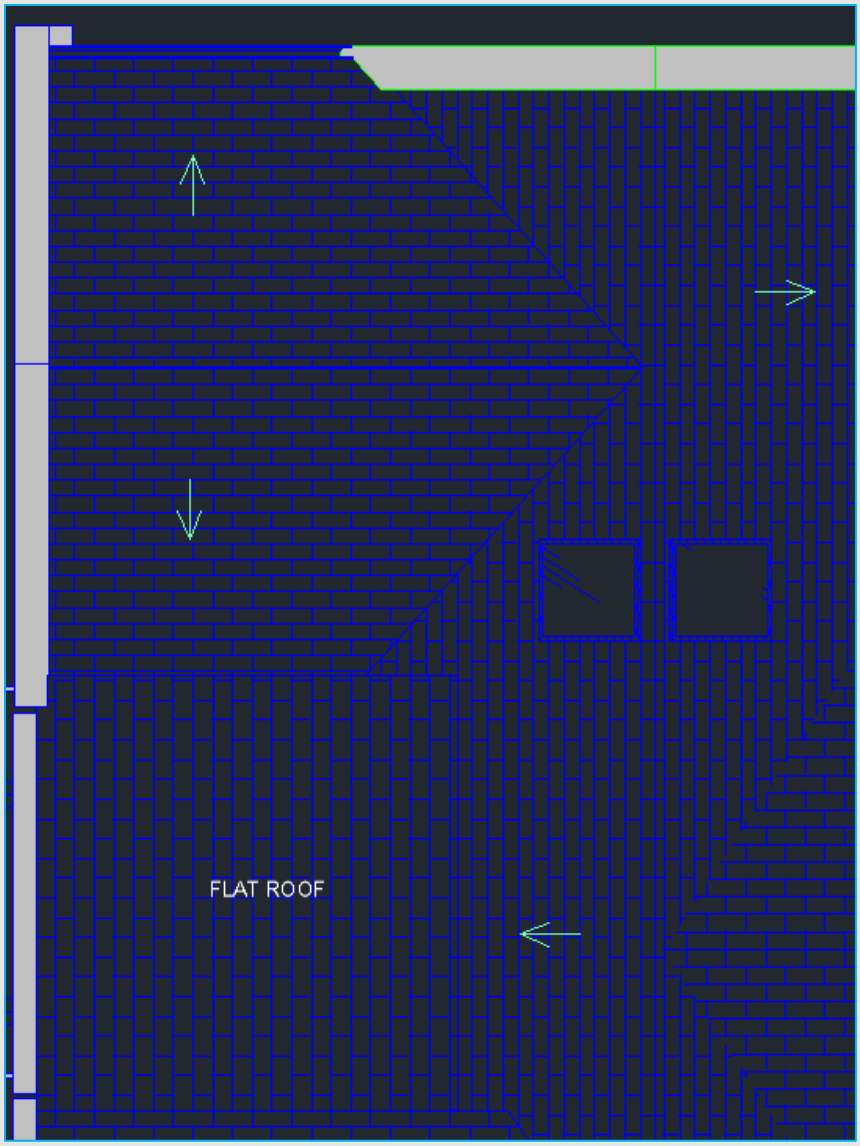


Figure # 1 - Roof Slope, Ridge Lines and Hatch Pattern

Roof Components: The following elements may appear on the roof plan when visible or applicable:

- Mechanical Elements: Rooftop Units (RTU), HVAC Units, Roof Vents
- Electrical Elements: Solar Panels
- Plumbing Elements: Roof Drains, Roof Scuppers
- Other Features: Parapet Walls, Roof Access Hatches, Skylights

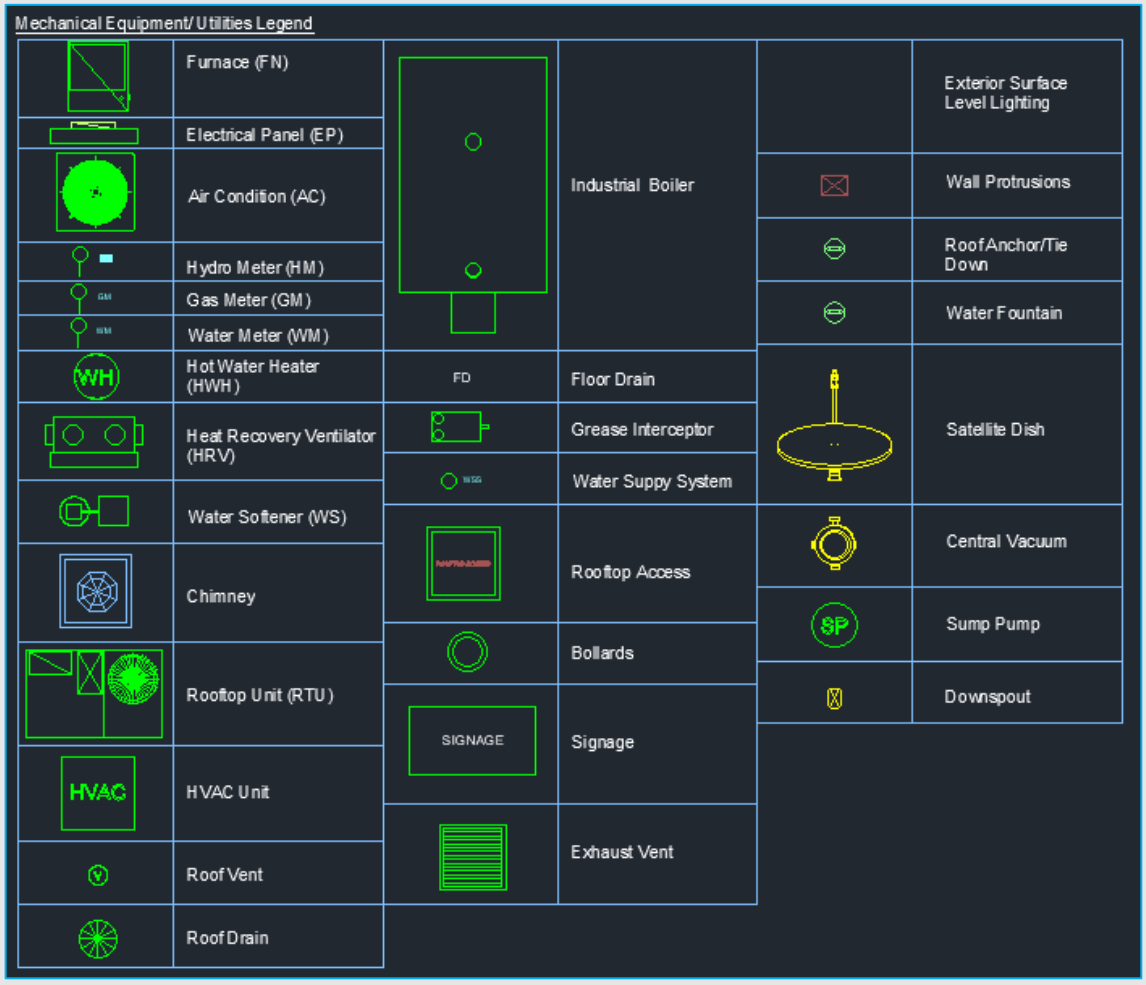


Figure # 2 - MEP Object Library

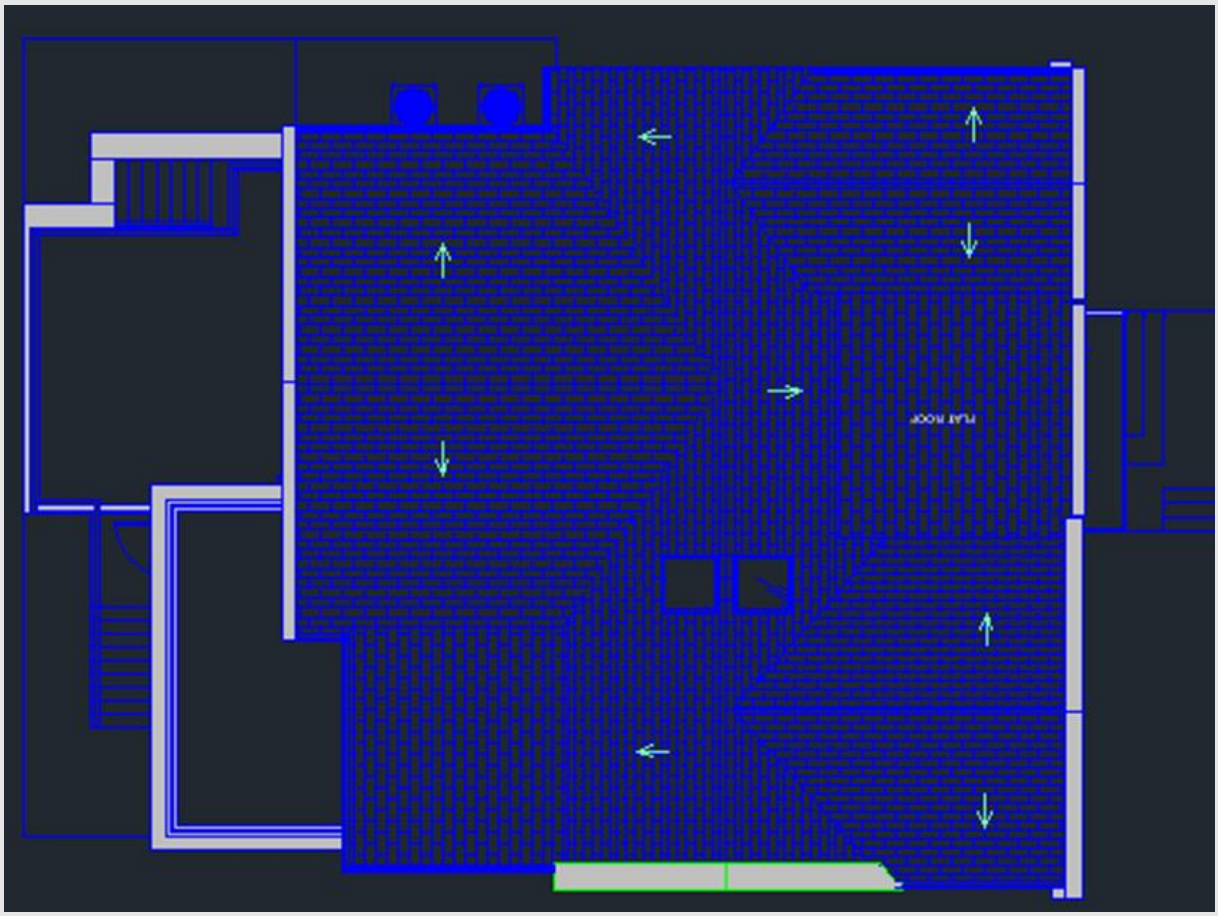


Figure # 3 - Roof Plan (DWG) Residential

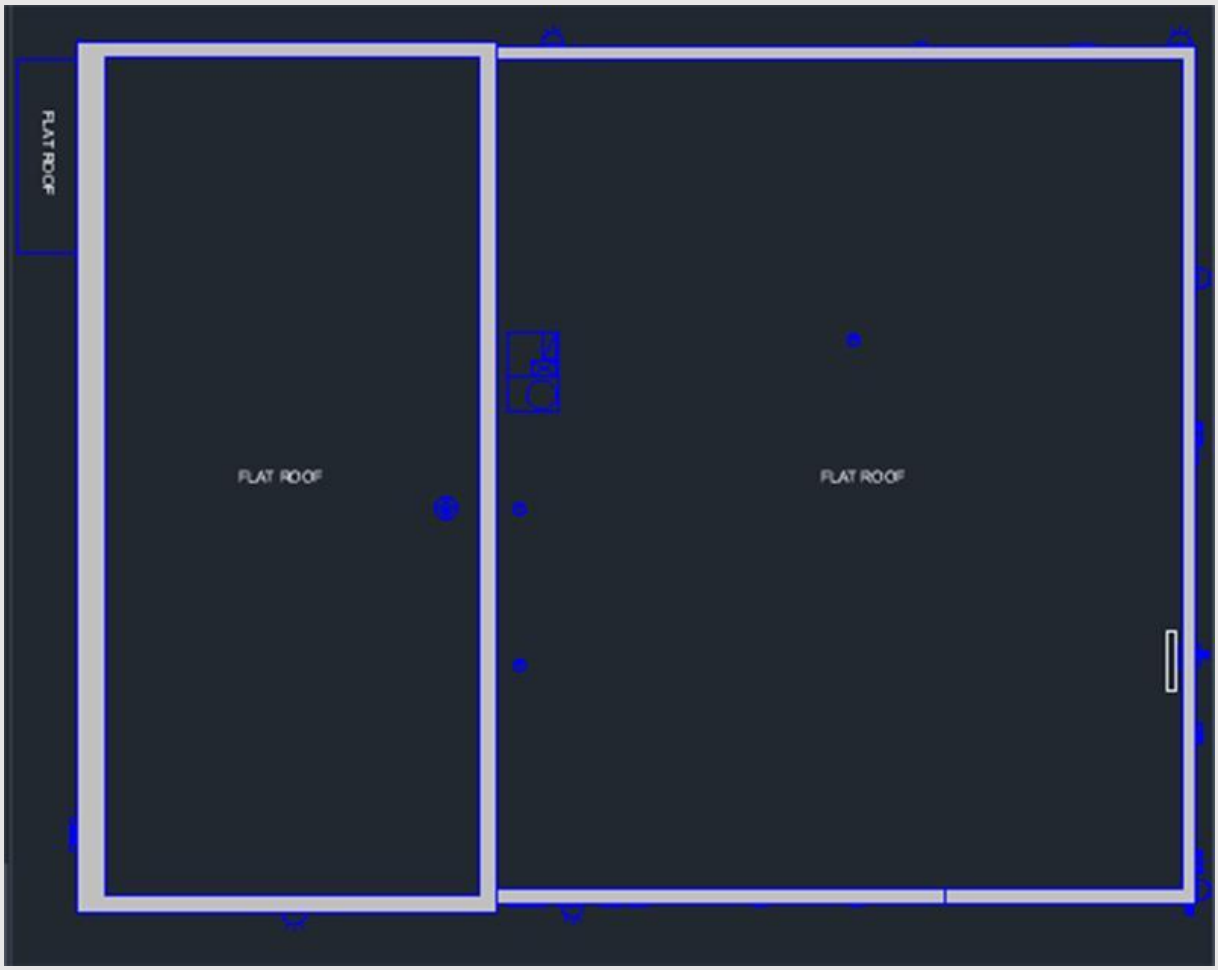


Figure # 4 - Roof Plan (DWG) Commercial

Additional Information

This section outlines key assumptions, limitations, and interpretations that inform the production of all DWG deliverables.

Data Interpretation – North America

Assumptions & Deviations: To produce a workable DWG file with consistent wall thicknesses and logical room structures, certain assumptions are made during drafting. These assumptions may result in minor deviations from raw laser data. Where data quality is high, fewer assumptions are required; where data is limited or unclear, interpretive adjustments may increase. These choices ensure a clean, editable output while maintaining functional reliability.

Dimensional Lumber Assumptions: As referenced in the Interior Walls section, wall thicknesses follow North American dimensional lumber standards. While laser data informs placement, it does not strictly govern wall dimensions. Interior wall widths are adjusted for uniformity using standard construction increments.

Exterior Wall Interpretation: To support accurate floor-to-floor alignment across multiple levels, exterior walls may be adjusted from raw scan values. These adjustments are made to align perimeters and provide a clean base for modification in post-processing.

Data Interpretation – Outside North America

Wall Treatment: For properties outside North America, interior and exterior wall dimensions are drawn relative to the point cloud data, typically to the nearest ½" (13mm) or 10mm. Room dimensions are measured to the nearest ¼" (6mm). Uniformity of wall thickness is not guaranteed.

Verticality & Floor Alignment: Due to differing construction standards and variable data quality, vertical alignment from floor to floor may not be achievable. Wall positioning is optimized for clarity and usability within the DWG environment, not for strict structural fidelity.

Complex Properties

Certain structures present limitations that may prevent full or accurate DWG representation. While the iGUIDE Camera System captures extensive visual and spatial data, some properties may fall outside the scope of what can be reasonably drafted. These include, but are not limited to:

- Irregular architectural structures (e.g., domes, yurts, religious facilities)
- Venues with highly specialized or layered infrastructure (e.g., theatres, arenas, stadiums, industrial complexes)
- Non-building scans (e.g., vehicles, aircraft, ships, trains)

Where such projects are delivered, they may include reduced detail or generalized representations. Full fidelity cannot be guaranteed for complex structures.

Roof Plan Disclaimer

All dimensions, room sizes, and areas are approximate and must be independently verified on site. These drawings are intended for reference only and should not be relied upon as final construction documents.

Roof Plan drawings are approximate representations of roof geometry, features, and slopes, derived from perimeter scans, iGUIDE imagery, and satellite data (if available). Due to the impracticality of scanning typical pitched or sloped roofs directly, these drawings are interpreted from ground-level observations and imaging. As such, factors like distortion, limited angles, and absence of roof-level data affect precision. Roof Plans are not to be used for roofing design, construction, or permit submission without separate, direct measurements. All dimensions, configurations, and features are approximate and subject to independent verification.