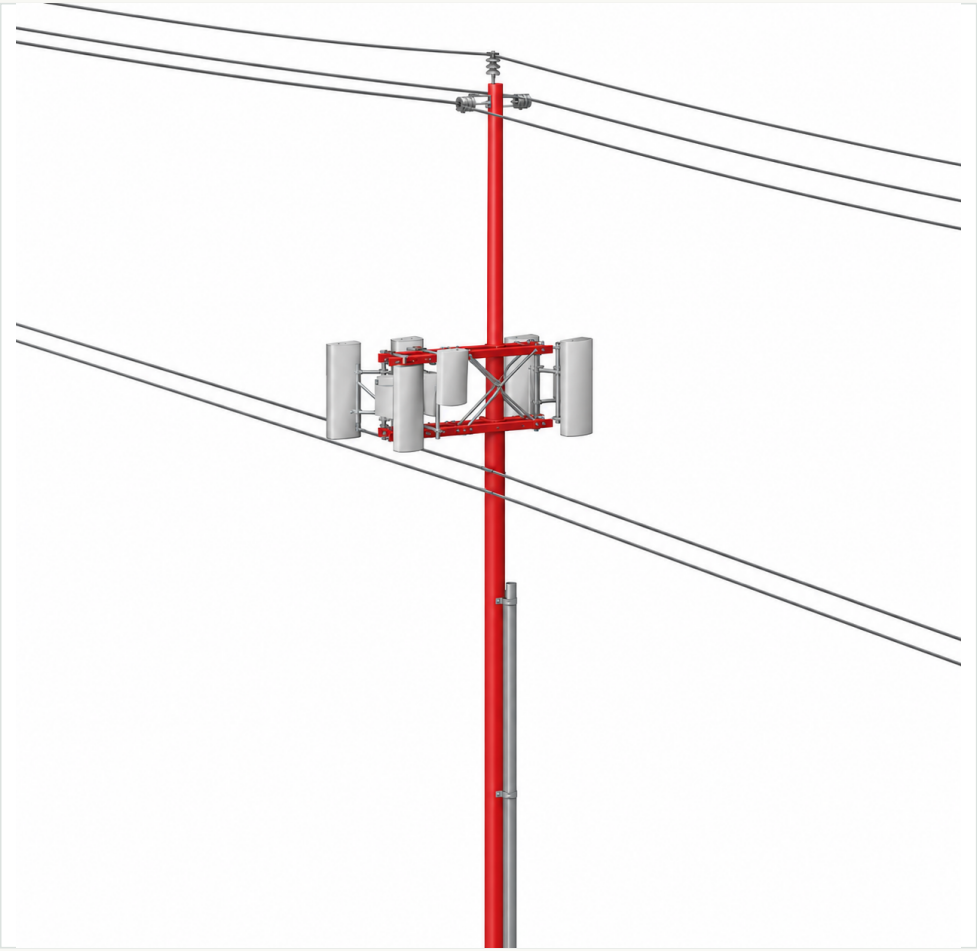
SMALL CELL / POLE-MOUNTED EQUIPMENT

Equipment detail. Drawing alignment. Informed loading.

Small-cell pole modeling with equipment configuration coordinated to reference drawings, installation details, and manufacturer data.

Pole-loading experience and mechanical drafting insight, connected through equipment geometry, placement, and load-path review.



CONFIGURATION

Drawing-led equipment arrangement

INPUTS

Dimensions, weight, position, orientation

QUALITY

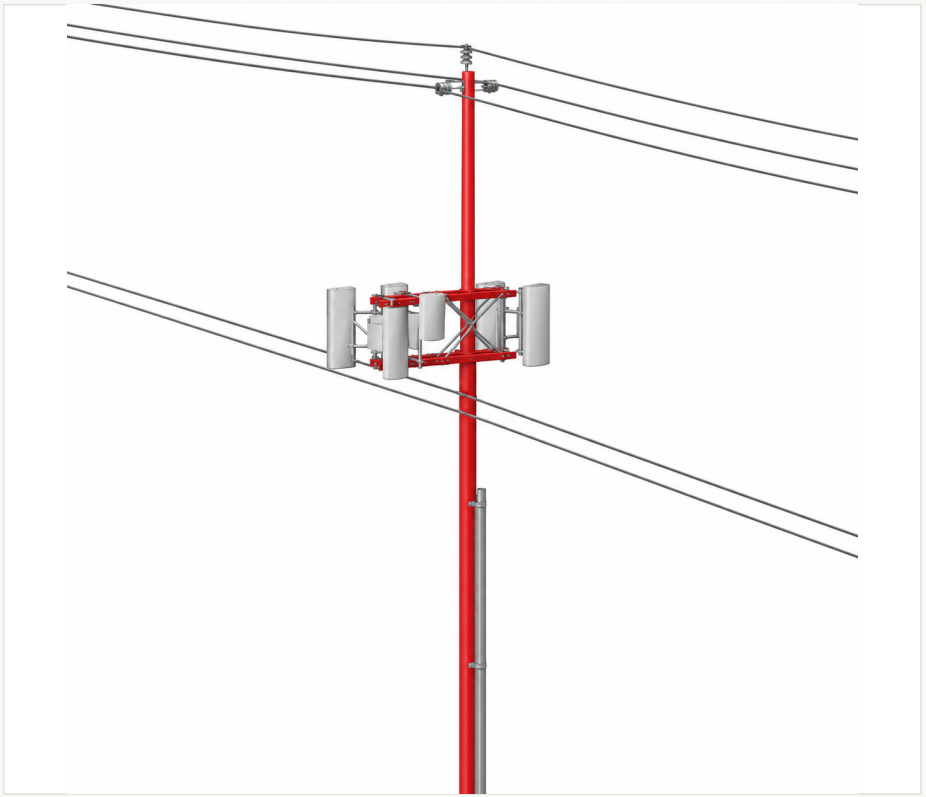
Source references and coordinated review

Selected work visuals supplied by JWORKS. No numerical loading result, equipment rating, or code-compliance outcome is asserted.

SELECTED SMALL CELL WORK

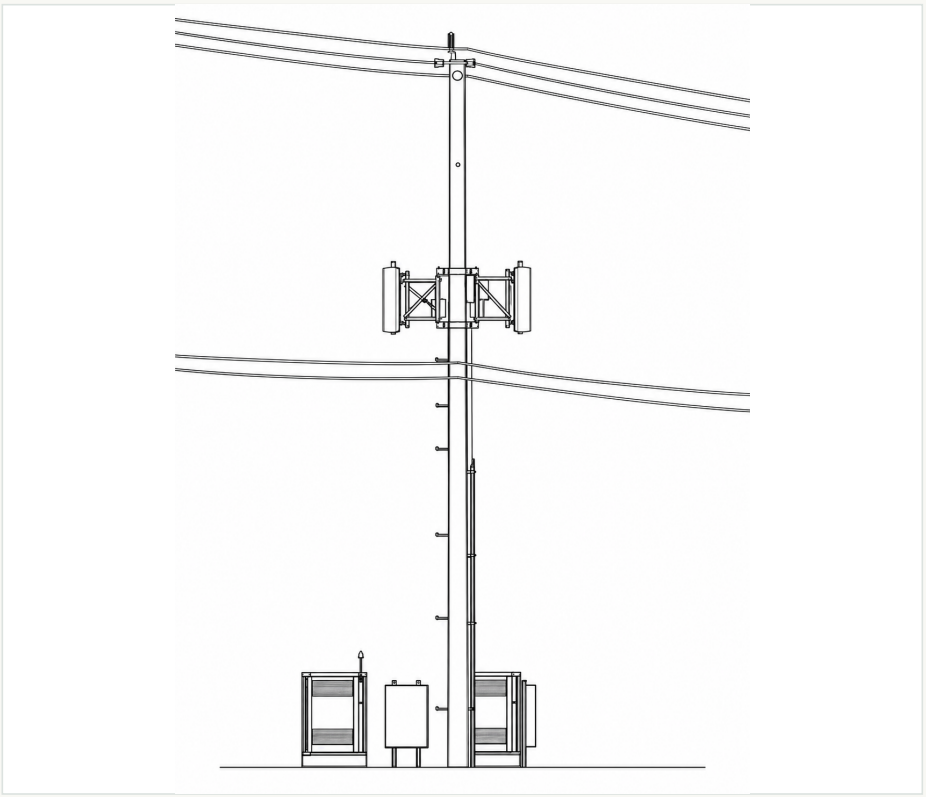
Two views. One configuration to reconcile.

Review the spatial equipment arrangement alongside the reference elevation before finalizing the input register and analysis model.



01 / 3D EQUIPMENT ARRANGEMENT

Equipment bodies, mounting frame, bracing, pole interfaces, and vertical routing are visible.



02 / REFERENCE ELEVATION

Pole-mounted assembly, overhead lines, vertical routing, and ground-level equipment are visible.

Visual comparison supports coordination. Exact equipment identification and dimensional agreement require the dimensioned drawings and datasheets.

DRAWING-TO-MODEL CHECKS

Equipment properties. Defined at the source.

Use verified equipment information and dimensional references to define the proposed installation.

01

Antenna & radio equipment

Confirm the equipment schedule, exact model reference, quantity, envelope dimensions, installed weight, and orientation.

SOURCE / MANUFACTURER DATASHEETS + EQUIPMENT SCHEDULE

Reconcile each modeled item with the current drawing revision; do not infer model numbers or weights from appearance.

02

Mounting frame & hardware

Represent the frame, brackets, clamps, stand-off distance, and equipment mounting elevations.

SOURCE / MOUNTING DETAILS + FABRICATION DRAWINGS

Account for assembly weight and load application points; check that catalog definitions do not duplicate bracket or equipment loads.

03

Elevation, offset & orientation

Coordinate attachment heights, radial positions, horizontal eccentricities, and equipment facing directions.

SOURCE / DIMENSIONED ELEVATIONS + PLAN VIEWS

Use a consistent ground-line datum and unit system; verify geometry across views rather than scaling a screenshot.

Input values are project-specific. Do not derive dimensions, equipment weights, or catalog identities by visually estimating these screenshots.

DRAWING-TO-MODEL CHECKS

Load representation. Beyond visual detail.

Reconcile exposed geometry, supported attachments, and the existing structure with the approved analysis criteria.

04

Wind-exposed geometry

Check equipment width, depth, height, shape, and the applicable wind-response parameters.

SOURCE / MANUFACTURER DATA + ADOPTED ANALYSIS CRITERIA

Review directional exposure and justified wind assumptions. Apply shielding only where the selected method permits it.

05

Cable & conduit attachments

Confirm pole-supported cable routes, risers, conduit sizes, attachment spacing, and applicable supported weights.

SOURCE / CABLE ROUTING DRAWINGS + INSTALLATION DETAILS

Assign only loads transferred to the pole; reconcile distributed or discrete representations without double-counting.

06

Existing pole & overhead network

Check pole properties, existing attachments, conductor spans and directions, and relevant support conditions.

SOURCE / FIELD RECORDS + UTILITY RECORDS + BASELINE MODEL

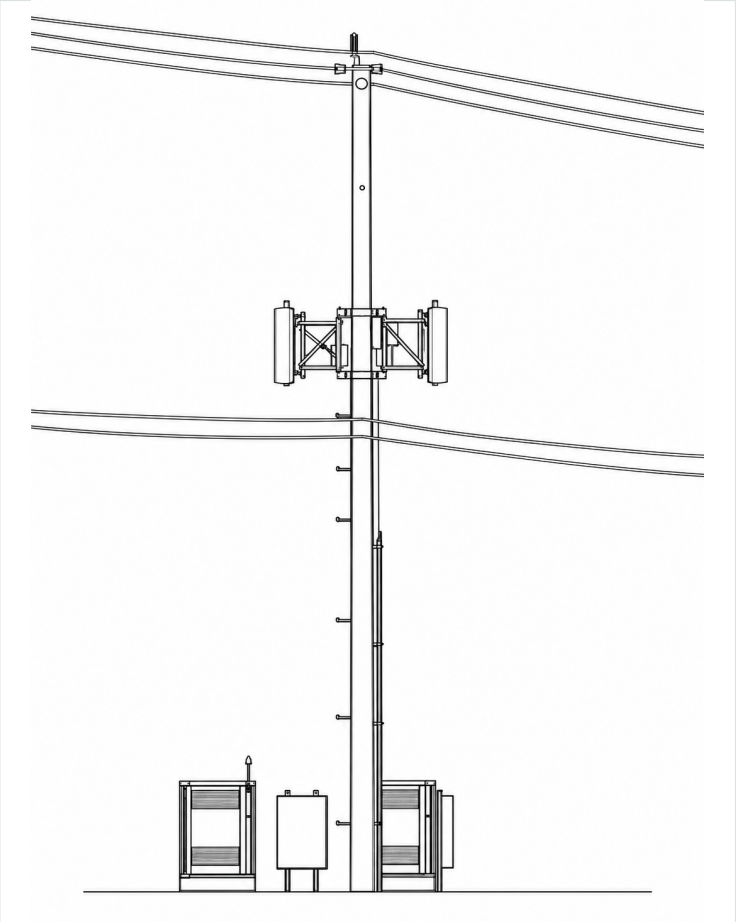
Keep the existing configuration consistent when assessing the proposed installation; resolve source conflicts before final analysis.

Input values are project-specific. Do not derive dimensions, equipment weights, or catalog identities by visually estimating these screenshots.

SCOPE & ENGINEERING JUDGMENT

Model the loads that reach the pole.

A complete installation drawing includes both pole-supported assets and equipment supported independently at ground level.



POLE-SUPPORTED ASSEMBLY

Include verified equipment, mounting hardware, and supported cable/riser contributions. Coordinate attachment heights, offset, orientation, and wind-exposed geometry. Review catalog assemblies to avoid duplicate loads.

GROUND-LEVEL EQUIPMENT

Ground-supported cabinet weight is not automatically a pole load. Check the support details and any connection that transfers cable, conduit, or mechanical forces to the pole.

APPROVED ANALYSIS CRITERIA

Confirm utility requirements, wind/ice conditions, load factors, and required cases. Pole analysis and equipment-connection verification may require distinct checks within the agreed scope.

COORDINATION & DELIVERY

Traceable inputs. Reviewable outputs.

A disciplined workflow connects equipment information, drawing intent, the analysis configuration, and revision control.

01

Reconcile the sources

Review the drawing revision, equipment schedule, datasheets, field records, and required utility criteria. Log missing or conflicting inputs.

02

Build the equipment configuration

Map each pole-supported item to a model element with verified geometry, weight, placement, and source references.

03

Analyze the proposed arrangement

Apply approved load cases and compare existing and proposed configurations. Review governing demand, utilization, and support reactions where applicable.

04

Review & issue

Cross-check the model against the drawings, resolve exceptions, rerun affected cases, and issue coordinated files with an input and revision record.

DELIVERABLES / AGREED TO PROJECT SCOPE

Coordinated model

An O-Calc Pro model reflecting the agreed pole-supported small-cell configuration.

Equipment input register

Equipment references, quantities, dimensions, weights, heights, offsets, orientation, and source revisions.

Analysis documentation

Existing/proposed comparison, governing load cases, and relevant report outputs within the agreed scope.

Review & revision record

Source discrepancies, assumptions requiring acceptance, checks completed, and changes affecting the analysis.

These visuals document selected work. Dimensioned drawings, datasheets, and calculation outputs were not provided for portfolio verification.

ENGINEERING & TECHNOLOGY

Bring the details into alignment.

Start with the current source package and a clear definition of the modeling, analysis, and review deliverables.

Drawing package

Current plans, elevations, mounting details, revision history, and equipment schedule.

Equipment & baseline data

Manufacturer datasheets, installation weights, field records, and existing pole/attachment information.

Analysis scope

Utility criteria, required load cases, existing/proposed comparison, report format, and review responsibilities.

JWORKS

POLE LOADING / SMALL CELL / MECHANICAL DRAFTING

SOFTWARE CONTEXT

Osmose / O-Calc Pro

Osmose / O-Calc Pro Schema

Osmose references describe software capabilities; they do not validate this installation. This portfolio is not a stamped analysis or engineering certification.