



EMS Advanced Wireless Solutions

Client
Polkomtel

Location
Krakow, Poland

Wireless Site Design

CH2M HILL is providing full design services including pre-design, design, permitting, site evaluation, and all related drawings to Polkomtel, a Polish mobile operator.

In the first phase of the project, CH2M HILL identified and qualified local market subcontractors and vendors for architectural and civil engineering consultancy. We also researched local permitting conditions and environmental and political issues. Any existing structures were identified and mapped for expansion potential. The results of this desk study were submitted to the client to assist with analysis and final selection.

At new sites, CH2M HILL conducted all required engineering surveys to provide land and boundary surveys, geotechnical studies, and environmental surveys. Using this information with required technical input, we delivered to the client engineering, construction, and permitting documents that take into account all issues identified by the feasibility study, engineering surveys, permitting requirements, and landlord concerns in conjunction with the applicable codes and regulations.

After a review, revision, and approval process was completed with the client, the documents were submitted to the local authorities. CH2M HILL then negotiated permits and attended necessary hearings until Local Authority issue approvals were issued.

For the upgrade of existing Polkomtel sites, CH2M HILL is involved from the outset at the onsite technical evaluation meetings, which determine the upgrade requirements for the site. At these meetings, CH2M HILL conducted a detailed survey which allowed them to determine unique characteristics and conditions that would affect site equipment upgrading efforts as well as collecting, organizing, documenting, and analyzing all pertinent information required to prepare required work and design packages.

CH2M HILL provided three different types of drawing packages to Polkomtel based on individual site requirements.

Exhibit Drawings—General site plan showing property lines, location, size of leased area, equipment location, tower, antennas, coaxial routing, dimensions, and information regarding the effect of the upgrading on the lease area.

Zoning Drawings—General site or roof plan site survey as required by the zoning department, showing total land parcel, proposed lease area with locations of existing buildings, existing easements, tower structure, existing access and proposed easements, access, coaxial cable routing, parking lot, fence, landscaping, and other pertinent information required by the zoning jurisdiction.

Construction Drawings—Highly detailed civil, structural, architectural, and electrical drawings including elevations. CH2M HILL provided as-built (post-construction) drawings indicating all client changes and field variances, as well as construction “redlines” reported by the field engineer or by others.