PINPOINT
PRECISION ENGINEERING

UTILITY & DESIGN SERVICES

Pinpoint Precision Engineering (DBE/MBE) is a Chicago-based company. With infrastructure projects that help improve the lives of Chicagoans, as well as all Illinois residents, Pinpoint takes pride in every job we undertake. Superior quality and exceptional results for every client are our highest priority. Our diverse and experienced team has been instrumental on various projects involving utility conflicts and relocation, traffic management and safety, coordination, and design review.

AREAS OF EXPERTISE

- OIL & GAS PIPELINE
- ROUTE DESIGN
- WATCH & PROTECT
  INSPECTION FIELD SURVEYING
- COPPER DESIGNS
- FIBER DESIGNS
- FIELD SURVEYING
- PERMITTING
- CIVIL DESIGN
- CONSTRUCTION MANAGEMENT

TRAININGS & CERTIFICATIONS

- PROJECT MANAGEMENT (PMP)
- ARES/ARAMIS
- O'CALC
- MICROSTATION
- OPEN ROADS DESIGNER
- SYNCHRO
- HCS (HIGHWAY CAPACITY SOFTWARE)
- CIVIL 3D / AUTOCAD
- AUTOTURN
- STORMCAD
- HEC-RAS
- TRANSYT-7F

UTILITY CONFLICT AND COORDINATION - 75TH STREET CORRIDOR IMPROVEMENT PROJECT (CREATE P2), METRA, CHICAGO,ILLINOIS METRA SOUTHWEST SERVICE TO ROCK ISLAND

Provided project management and design services. This project involved the installation of over 1,000 feet of new gas lines and services, as well as the retirement of outdated and/or corroded gas lines. The covered area ranged from S. Dobson Ave. to S. Anthony Ave. (West to East), E. 83rd St. to E. 95th St. (North to South). It was broken into seven phases. Each phase included a design, review, peer review, final review submittal stage, and each phase also had custom restoration plans, and custom traffic control plans. Through each phase, the engineers held the drawings and designs to the highest standard.

Overall Project Cost: $180,000,000.00

SUBSURFACE UTILITY ENGINEERING - WOW - VERIZON MACRO TOWER BUILD – CHICAGO, ILLINOIS

Provided route design for WOW fiber optical cable installation in Chicago, IL. The project included the design of Aerial/Underground route, railroad crossing and field survey, this included:

- Analyzingthe pole attachment notes.
- Determining the use of aerial fiber.
- Verified installed equipment.
- Prepared the test data sheets for use in the field.
- Analyzed potential conflicts with existing underground utility lines.
- Complete dinspections of the underground route availability.
- Obtained construction permits.

Overall Project Cost: $2,000,000.00

AT&T ACAS PROJECT – CHICAGO, ILLINOIS

This project was to provide design plan set for proposed AT&T underground conduit installation for OUC (Office of Underground Coordination) submittal. Field visits were performed at the job site using both traditional survey methods and LiDAR devices to get more accurate data on street objects. Pole loading calculations were perfomed to provide accurate attachment information for each pole over the whole route, and analyzed ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) O5.1 to determine the pole class with given point cloud data from the LiDAR device.

Overall Project Cost: $264,032.00

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AREAS OF EXPERTISE

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  - ROUTE DESIGN
  - WATCH & PROTECT INSPECTION
  - FIELD SURVEYING
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  - FIBER DESIGNS
  - FIELD SURVEYING
  - PERMITTING
  - CIVIL DESIGN
  - CONSTRUCTION MANAGEMENT

TRAININGS & CERTIFICATIONS

- PROJECT MANAGEMENT (PMP)
- ARES/ARAMIS
- O'CALC
- MICROSTATION
- OPEN ROADS DESIGNER
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WOW - VERIZON SMALL CELL BUILD-33 SITES – CHICAGO, ILLINOIS

This project was to implement construction and installation design for WOW to provide fiber backhaul for more than 500 cell towers in the Chicago metropolitan area. There were 33 small cells located in the City of Chicago on this project. Duties included:

- Providing civil drawings as well as regaining Permit Issuance Authorized (PIA) from Chicago Department of Transportation (CDOT) for construction purposes.
- Reviewing Rules and Regulations For Construction In the Public Way from CDOT and prepared the drawing sets based on the field notes retrieved from the survey crew.
- Calculating the conduit and innerduct size to meet the requirements from the clients.
- Review of the existing utility atlas map from other utility agencies and calculated the minimum space for the proposed underground conduit.
- Calculated the altitude of the crossing point using the City of Chicago geographic website.

Overall Project Cost: $1,000,000.00

PEOPLE'S GAS – ALBANY PARK, CHICAGO, IL

This project involved redesign and replacement of older pipelines and designs that were previously submitted to People's Gas. It was discovered that the original design drawings would not work with the current existing conditions. This meant that a field survey was needed, along with new design work for the new pipe installation and permits. This included the removal of the older pipes that were in use. Construction did not begin until after the initial design, when People's Gas was ready to build. Every phase was completed promptly and approved through each phase. There were a total of 42 phases with 5,000 feet of pipeline designed for this project.

Overall Project Cost: $1,400,000.00

PEOPLE'S GAS – STONY ISLAND PARK, CHICAGO, IL

This project involved the installation of over 1,000 feet of new gas lines and services, as well as the retirement of outdated gas lines. This project involved seven phases that included a design, review, peer review, final review submittal stage, custom restoration plans, and custom traffic control plans. From the CAD work for the existing conditions, to the design portion of the new pipes, Pinpoint's engineers held the drawings and designs to the highest standards.

Overall Project Cost: $870,000.00

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AREAS OF EXPERTISE

- OIL & GAS PIPELINE
  - ROUTE DESIGN
  - WATCH & PROTECT INSPECTION
  - FIELD SURVEYING
  - COPPER DESIGNS
  - FIBER DESIGNS
  - FIELD SURVEYING
  - PERMITTING
  - CIVIL DESIGN
  - CONSTRUCTION MANAGEMENT

TRAININGS & CERTIFICATIONS

- PROJECT MANAGEMENT (PMP)
- ARES/ARAMIS
- O'CALC
- MICROSTATION
- OPEN ROADS DESIGNER
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- AUTOTURN
- STORMCAD
- HEC-RAS
- TRANSYT-7F

PEOPLE'S GAS – 75TH AND WESTERN AVENUE, CHICAGO, IL

Project included the design of over 1,000 feet of new gas lines and gas line service to buildings for People's Gas. The main pipeline route ran along South Western Avenue, which is an IDOT and Cook County road. Because of this, all design of pipeline, construction restoration, and traffic control were required to adhere to IDOT and County rules, regulations, and standards. The field survey and plot of the underground utility phases were completed before the design for the new pipeline could begin.

Overall Project Cost: $500,000.00

TELECOMMUNICATION FIBER INFRASTRUCTURE-NAPERVILLE, IL

This project entailed the placing of fiber optic facilities underground throughout a vast area (approximately 10 miles) to support our client's high-demand fiber services and to position them for the future. The project was broken into two phases: the manholes make ready, the mapping of existing conduits leaving each manhole, and the actual fiber design. Responsibilities included a field survey of the proposed route, designing the make ready and the underground fiber run, quality control by in-house PE, submitting quality design to the client, vetting the construction team and obtaining appropriate permissions in areas requiring the city's permission to bore.

Overall Project Cost: $650,000.00

SMALL CELL EXPANSION - AURORA, IL

For this project, our client had us design their fiber infrastructure for multiple small cell locations in the city of Aurora. Our client was upgrading their cellular network and added small cell antennas in areas where their customers complained about their services due to weak signals. We were given design plans for over 20 locations, where we designed the fiber path to our client's new equipment, with a two-month deadline. Responsibilities included:

- Surveying each site and obtaining field notes.
- Design of each project appropriately by our CAD team. Design review by our PE.
- Delivering each job to the client for review.
- Issuance to the construction team and obtaining any necessary permits.

Overall Project Cost: $200,000.00