



# STRUCTURES AND SOLUTIONS FOR A CONNECTED WORLD

Lighting Poles, Transportation Structures, and Wireless Solutions

**valmont**   
STRUCTURES









## OUR VISION

Valmont is recognized throughout the world as an industry leader in engineered products and services for infrastructure. We grow our businesses by leveraging our existing products, markets and processes. Essential to our success is a company-wide commitment to customer service and innovation, and the ability to be the best cost producer for all products and services we provide.

# TABLE OF CONTENTS

1

## THE VALMONT STORY

Our entrepreneurial beginnings formed our reputation as an industry leader.

9

## CONCEPT-TO-REALITY PROJECTS

Our designers and engineers bring your unique visions to life.

18

## PRODUCT SELECTIONS

Our diverse array of structural are offered in a variety of materials and finishes.

38

## IN-HOUSE SERVICES

Our additional services and capabilities improve safety and reduce lead times.

1





# ENGINEERED SUPPORT STRUCTURES



2

**Now a global network of 50 facilities spanning 15 countries, Valmont Industries consists of Engineered Support Structures, Utility Support Structures, Coatings, Energy and Mining, and Irrigation.**

Valmont began in 1946 with the \$5,000 investment and entrepreneurial vision of Robert B. Daugherty after his return home from the war. With the newfound determination to build his "American Dream," Daugherty worked for over a decade with engineers to develop the most reliable agricultural irrigation, complete with electric drive systems. By 1959, Valmont's refinement of the manufacturing process for steel pipe and tubing led to growth in other markets requiring durable structures.

Today, our relentless commitment to anticipating new processes, building more plants, and providing complete in-house services for all project stages, has made Valmont Industries the industry-recognized brand for quality and cost effectiveness.

As a respected leader, our trusted engineers are on a variety of national committees designed to implement and govern industry regulations, raising any standards as high as our own.





# unparalleled resources

Incorporating sustainable materials and forward-thinking business practices

3



A man with a full white beard and glasses is working on a lathe in a workshop. He is wearing a dark blue long-sleeved shirt and a brown patterned beanie. He is holding a yellow measuring tape against a metal workpiece on the lathe. The background shows a workshop environment with various tools and equipment.

# delivering diverse resources

We provide the highest level of service



# THE VALMONT PROMISE



**Valmont's structures touch millions of lives around the world, day and night. From stop lights to street lamps, communication towers to utility poles, we provide a sense of safety and connectedness people depend on.**

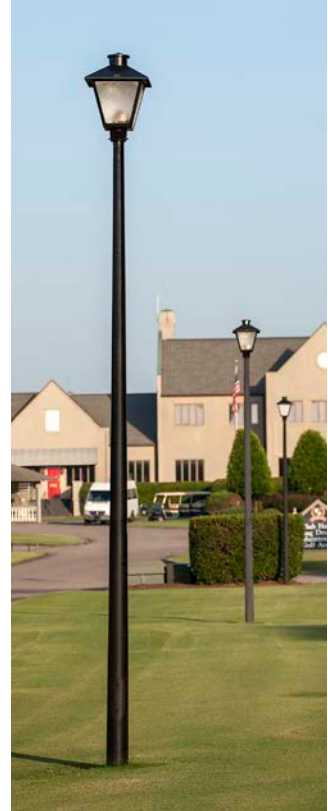
Our extensive in-house capabilities, combined with our complete line of finishing and inspection services, allow for superior quality control and the best lead times in the industry.

Valmont demonstrates responsibility at every stage of the process. Our recycling capabilities ensure we reuse 100% of steel, aluminum, and composite materials, as well as the zinc used during galvanizing.



# ENGINEERING CAPABILITIES

6



**By considering the weather conditions, usage, and aesthetics related to your project, we use our expertise to recommend the longest-lasting materials based on years of research and extensive testing.**

We can assist at every stage of the engineering and manufacturing process, from design concepts and renderings, to sales proposals and marketing support. Our customers take comfort in knowing that each structural project is carefully analyzed by our engineers who are certified to stamp drawings anywhere in the United States.



A dramatic, low-angle shot looking down a long, dark industrial tunnel. The walls are made of heavy, ribbed metal. In the center, a welder wearing a protective mask and gear is working on a joint. A bright light from the welding process illuminates the scene, creating a strong contrast with the surrounding darkness. The perspective draws the viewer's eye towards the worker at the end of the tunnel.

using the best materials wisely

Valmont creates structures for tomorrow's world

7





# imagination illuminated

We kindle ideas and dreams to create lasting impressions



# CUSTOMIZED ENGINEERING



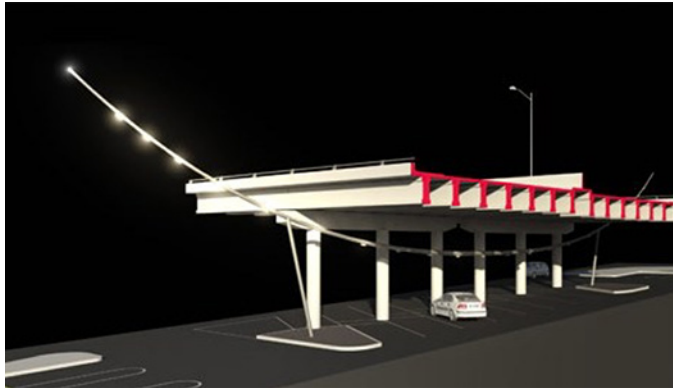
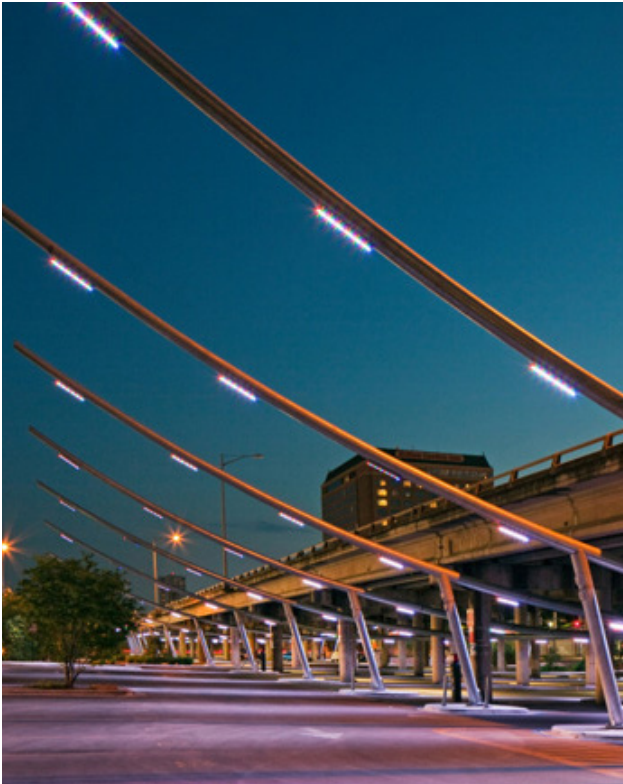
## **C2R** CONCEPT TO REALITY

**Valmont's in-house manufacturing and global design capabilities can bring almost any idea to life with our experienced pool of more than 100 engineers worldwide.**

The following concept-to-reality projects best highlight our ability to provide basic and specialty solutions through one convenient source. From a brainstorm meeting sketch to the factory finishes, each step of the manufacturing process reinforces the project vision and artistic intent, producing the most beautiful and secure structures available.

## EXPANSIVE CUSTOM CAPABILITIES

10



## LONGHORN BRIDGE I-35 - Austin, TX

With the “Keep Austin Weird” motto to uphold, Valmont designers included other Texas traditions when creating new underpass lighting solutions. The 200-foot Longhorn LED structures had the added challenge of 14 different clearance and foundation requirements. Valmont performed all trial fitting and measurements prior to shipping, using their extensive in-house resources to ensure a seamless installation.

This proud representation of the Longhorn culture is easily recognized by locals and visitors alike, and truly represents the grand-scale of Texas.

## PROJECT SPECIFICATIONS

- Spanning 200' to replicate Texas Longhorn
- Multiple clearance and foundation requirements
- Trial measurement and fit prior to shipping



# STRENGTH IN ANY ENVIRONMENT



## BAY BRIDGE - Oakland, CA

Spanning from San Francisco to Oakland, this iconic California bridge was outfitted with over 250 steel poles containing seven light fixtures each. The impressive pentagon-shaped poles are tapered with a wall thickness of up to 1.75 inches to promote durability in a region with potential for earthquakes. The added challenge of salt spray exposure on galvanized steel was addressed with a custom primer and durable paint finish.

The unique placement of the multi-light poles above and behind drivers reduces distracting glare at night and are unobtrusive to the sunny daytime views, all while using half the electricity of conventional lighting designs.

## PROJECT SPECIFICATIONS

- Pentagon-shaped poles up to 67' tall
- Each light fixture channel-welded in the center
- Galvanized coating, polyamide epoxy primer, and polyfunctional urethane

## GLOBAL INSPIRATION AND RESOURCES

12



### SAKONNET RIVER BRIDGE - Portsmouth, RI

After admiring a custom design at the LightFair International conference, our contractors began working collaboratively with a design team in Finland to produce this innovative bridge lighting concept.

The structures include light tubes, each held in place with steel clamps and rubber gaskets to resist vibration from passing traffic. The resulting effect offers a clear path for motorists and a stunning evening horizon view from afar.

### PROJECT SPECIFICATIONS

- Inspired by design from Finland
- 27 structures with 34' light tubes
- Six steel clamps per structure support two steel poles and glass tube
- Rubber gaskets sealed inside the clamps mitigate vibration
- Hot-dipped galvanizing



# STRUCTURES INSPIRED BY NATURE



## MOUNTAIN BRIDGE TRAFFIC POLES - Mesa, AZ

Creating traffic and lighting poles to blend in with the desert background resulted in a sleek, minimalist design. The organic brown color scheme was contrasted with black hardware, while the square pole assemblies replaced more traditional or decorative base covers.

Steel materials ensure longevity in the desert environment while appearing natural and never detracting from the unique surroundings.

## PROJECT SPECIFICATIONS

- Custom square pole and base design
- Look of wood with the strength and durability of steel
- Two-tone paint and custom powder finish

## COHESIVE CONCEPTS WITH MIXED MATERIALS



### CITY OF MARION - Marion, IA

This total makeover provided street, pedestrian, and traffic lighting for the entire community, as well as an opportunity to reimagine their historic past. Larger structures such as street lights were made of galvanized and coated steel, while shorter pedestrian poles were fabricated from aluminum. The new standard "Marion Black" provided a uniform look on all materials, including the finishing decorative arms and bases.

Pedestrians and motorists now enjoy a nostalgic look with modern upgrades like LED lighting and secure protective cages.

### PROJECT SPECIFICATIONS

- Custom luminaire arms for street and pedestrian lighting
- Fluted steel and aluminum poles
- Decorative cast aluminum Osceola bases
- Galvanized and finished with impact-resistant primer and paint



# THE DURABLE SPLendor OF CURVED STEEL



15

## MGM GRAND DETROIT - Detroit, MI

This \$800 million casino resort is a luxury destination worthy of Las Vegas, and downtown Detroit desired a signature look for the hotel's changing seasonal gardens. Our extensive custom engineering resources and ingenuity produced Valmont's first curved steel pole for area lighting.

The MGM Grand Detroit was recognized with a Development of the Year Award, and Valmont's designs contributed by highlighting the architectural interests and landscape of the hotel entry.

## PROJECT SPECIFICATIONS

- First custom curved steel pole for area lighting
- Engineers developed steel version due to the high loading criteria and strength requirements

## INGENUITY MEETS UNMATCHED POTENTIAL



16

## CRANDON PARK - Key Biscane, FL

When devising a solution for the home of the Miami Open tennis tournament, it was imperative to keep the coastal skyline and weather conditions at the forefront of the design. The additional request for versatility in a multi-purpose facility meant each of the 14 self-contained poles, coated with V-Pro finish for saltwater protection, needed to remain unobtrusive during off times. A Department of Transportation compliant lifting system was fabricated, utilizing hydraulics to extend the poles vertically from 25 feet to 45 feet.

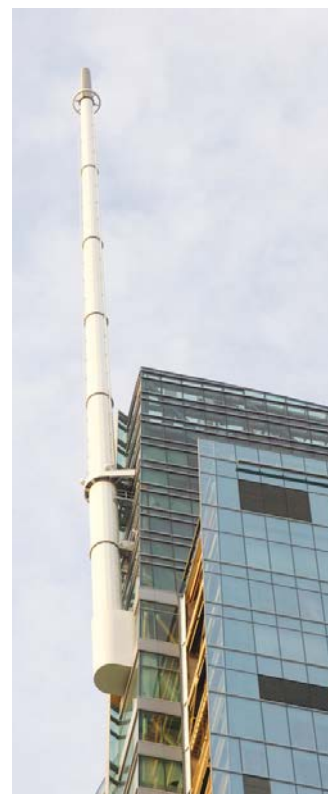
Our extensive in-house tooling capabilities ensured custom requests could be handled promptly and that the final design preserved the beautiful Florida skyline.

## PROJECT SPECIFICATIONS

- 14 self-contained, extendable poles
- Extend vertically from 25' to 45'
- DOT compliant lifting system utilizing hydraulics to extend the poles
- Corrosion-resistant finish



# CUSTOM INNOVATION AND DESIGN



17

## WILSHIRE GRAND CENTER - Downtown Los Angeles, CA

Towering 73 stories above Los Angeles, the (new) Wilshire Grand Center now holds the distinction as the tallest building in the United States west of Chicago with the addition of our custom-engineered 300-foot spire. The sophisticated \$1 billion development includes a four-star hotel, commercial offices and retail spaces (poised) to revitalize the downtown landscape.

Valmont created specialty processes to meet strict project guidelines and conducted in-house fittings of all the building attachment points prior to shipment to ensure a seamless installation. To improve safety and allow ease of access for future maintenance, a built-in ladder, safety device, and platforms were integrated in the design.

## PROJECT SPECIFICATIONS

- Dramatic 300' spire with nine sections and a perforated stainless steel top
- Each section consists of a 78" base diameter and up to 1-1/8" wall thickness
- Custom sourced steel was galvanized and finished with three coats of custom paint



# displaying our commitment to quality

Valmont offers lighting options for on and off the beaten path



# AREA LIGHTING



**With structural solutions for diverse landscapes, Valmont area lighting designs are the leading choice for a wide variety of everyday and specialty applications.**

Our designers can create pedestrian-friendly lighting to compliment historic districts, themed subdivisions, tourist attractions, school campuses, parks, walking and biking trails, and other public venues. Traditional, modern, and decorative options allow for extra security in commonly used spaces without detracting from the unique surroundings.

Valmont's selection of materials is the widest in our industry. This allows project managers to pick the best possible option to meet specifications, from steel and aluminum poles to composite and wood structures.

# ROADWAY AND RESIDENTIAL LIGHTING

20



**Valmont offers the broadest selection of light poles in the world for new and existing projects, and our structures will enhance any roadway or residential area.**

Our unmatched access to durable and diverse resources guarantees the best final result for your project. With tapered and non-tapered steel, aluminum, and composite options, our structures can satisfy demands for stylish, economical, and low-maintenance materials.





providing essential visibility and safety

Products engineered with security, longevity, and artistry in mind

21





exceeding specifications to improve lives

Valmont is recognized in all 50 states for engineering expertise



# TRAFFIC LIGHTING



**From our vast understanding of code specifications to our innovative design concepts, Valmont offers the most engineering knowledge in the traffic industry.**

The architectural reliability and design aesthetic of our structures are sought after by municipalities and state departments. By carefully considering all the design criteria, Valmont's state licensed engineers ensure our structural designs meet any specifications.

Our engineering is supported by outstanding customer service and drafting resources to guarantee that completed projects are always compliant and on time.

# SIGN STRUCTURES



**For decades, Valmont has been a leading supplier for steel and aluminum sign structures along North America's busiest transportation corridors.**

Valmont understands the countless variables involved in manufacturing modern, durable road sign, traffic sign and commercial sign structures which are installed along and adjacent to these high-traffic roadways.

Valmont roadway and traffic light signal poles, bridges and related structures can be custom-engineered to meet the Department of Transportation (DOT) standards of most any project. Valmont offers cantilever and overhead span sign structures in various styles - curved monotube, single-chord, two-chord, tri-chord or box-chord.





# meeting safety needs for roadways

Valmont Structures designs to DOT standards

27





# keeping pace with population growth

Valmont creates structures for the most heavily traveled paths



# MASS TRANSIT

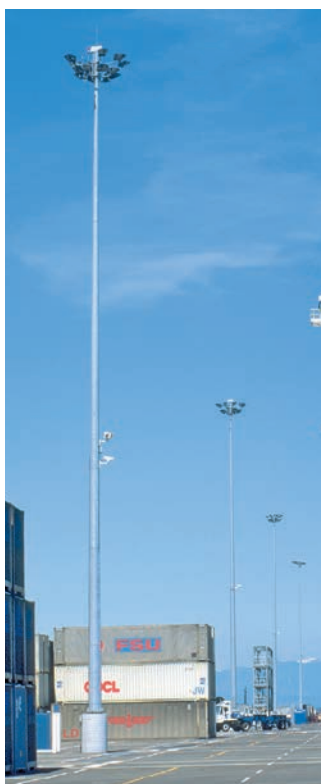
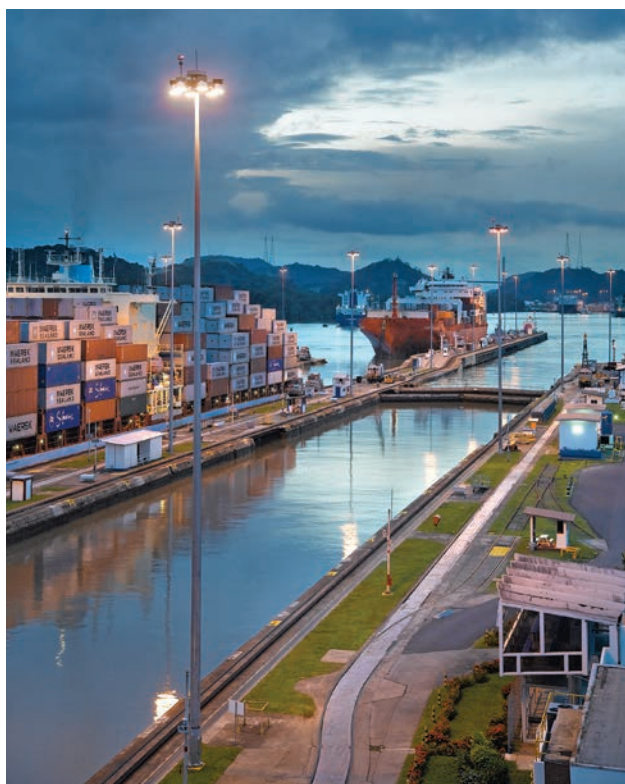


**Our engineers understand how structures perform in high traffic environments and provide reliable solutions for years to come.**

Due to urban population growth demands on light-rail transit systems, updated solutions will continue to be necessary for the comfort and security of those utilizing light rail transportation.

Valmont is well-respected by municipal planners for their knowledge in creating traditional and custom overhead catenary poles, and any accompanying signal structures, transition poles, area light poles, lamp posts and wayfinding structures. Our in-house research, development, and testing capabilities provide a greater variety of pole choices while still meeting pre-determined code specifications.

# HIGH MAST LIGHTING



28

**Our tapered steel high-mast poles provide unparalleled safety from decades of technical design and manufacturing expertise.**

---

These high-mast installations can be seen up to 250 feet above expressway intersections, airports, shipping terminals, and other industrial zones.

Innovations in round and multi-sided shafts, such as a low-drag, internally wired fixture platform, make Valmont a top choice for customers needing high-mast lighting towers. Our engineers consider lighting load, tower weight, variable wind speeds, local soil conditions and a host of other relevant variables which less experienced suppliers may overlook.





# engineering with real world experience

Valmont offers superior solutions for challenging environments

29

# enhancing memorable performances

The industry choice for amateur and professional athletic venues

30



OREN  
AL  
R

**Loves**  
Travel Stops & Country Stores

**MidFirst Bank**

**at&t**

**Coca-Cola**

**Schwab's**  
EST. 1913  
FINEST

**SONIC**  
America's Drive-In.

**WMM**  
WMMT MANAGEMENT

**BOLDT**  
BUILDS  
Linear & Beier Construction

AT BAT	BALL	STRIKE	OUT	H/E
1	2	3	4	5
6	7	8	9	10
RUNS	HITS	ERR		

**ALAMOPOKER.COM**  
THE HOME OF TEXAS HOLD'EM

**OKLAHOMA NATURAL GAS**

**Click-It or Ticket**  
what's holding you back?  
Don't drink and drive.



# SPORTS AND STADIUM LIGHTING



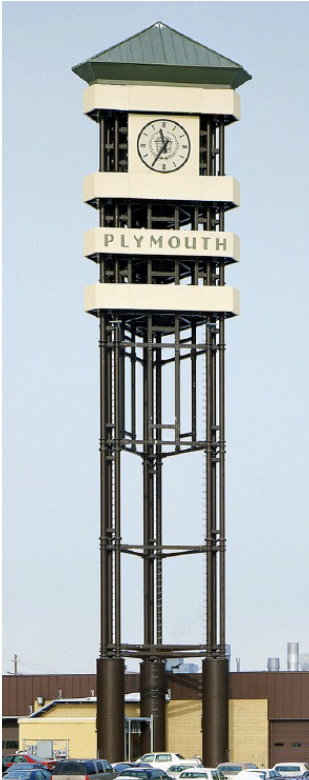
31

Valmont understands that lighting should enhance an experience, never intrude upon it, especially in stadium settings.

Athletes are accustomed to high-performance equipment, and our sports lighting ensures that standard is met, even for fans watching at home. Additionally, a standard of safety must also be upheld given the scale of stadium lighting. Valmont is industry-recognized for providing this guarantee of safety throughout the life of the venue.

Our unobtrusive tubular cage and cross arm design is a global industry standard, and due to our extensive capabilities, we can provide full lighting concepts for adjacent venue parking and pedestrian areas without the need for a separate vendor.

# COMMUNICATION STRUCTURES



32

**Our custom configurations are designed for single or multiple users, and will meet zoning requirements with licensed engineer sealed prints available in all 50 states.**

PiRod and Microflect bring decades of professional engineering knowledge to Valmont's tower and monopole infrastructure offerings. Valmont monopoles are available up to 250 feet, self-supporting towers up to 600 feet and guyed tower options rise up to 1,500 feet. In addition to our wide variety of durable and visually-appealing finishes, concealed poles are also available for minimal interference with urban or natural landscapes.





offering local expertise and global reach

Valmont's capabilities extend to meet modern needs

33



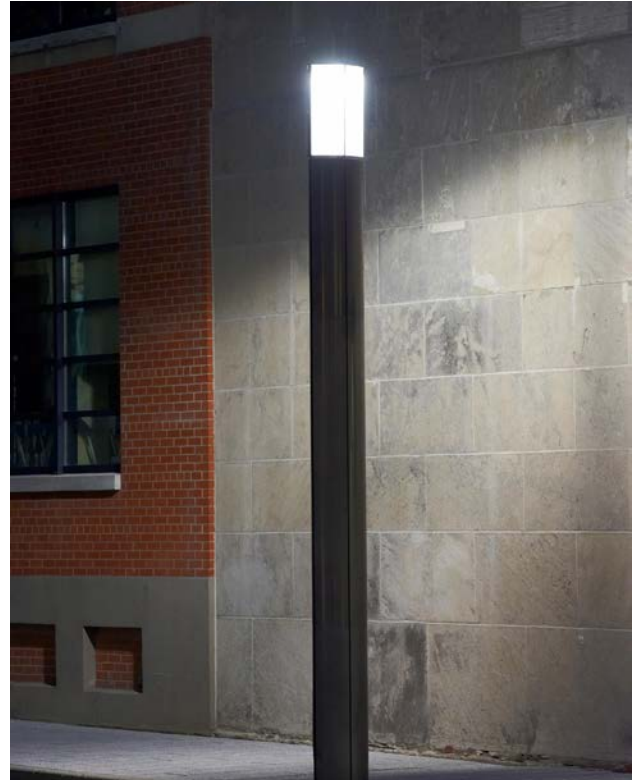


# helping people connect everywhere

Valmont anticipates future expectations for public spaces



# CONNECTIVITY



**Our unrivaled expertise in lighting, traffic, and wireless structures allows us to provide to the marketplace the most extensive selection of designs and materials for small cell sites.**

Any new structure has the potential to become a small cell site. Valmont provides small cell solutions for outdoor coverage using the same materials and design criteria found in our lighting and traffic structures. With our vast catalog of Valmont light poles, we are best positioned to match and convert your needs into small cell sites.

When beginning a custom project, our technical team will carefully consider all project specifications and the surrounding environment. Our recommendations are unique based on local permitting and zoning requirements, pole size and location.

# FINISHES



36

**As one of the largest custom finishers in the United States, Valmont is capable of producing a wide range of exterior finishes to resist corrosion and extend the life of any structure.**

Our on-site capabilities provide quality control assurance from project start-to-finish and reduced lead times. Valmont is the industry-leader in hot-dip galvanizing technology for steel, providing a cost-effective option for resilient structures.

For aluminum poles, Valmont provides anodizing, an electrochemical finishing process with an eye-catching final result.

All of our materials, including our durable composite products, have wide range of finish coating options for added protection. Available in standard or custom colors, Valmont has liquid and powder coatings, including UV and environmentally resistant options.





# protecting assets for lasting results

A variety of final touches complete any project with style



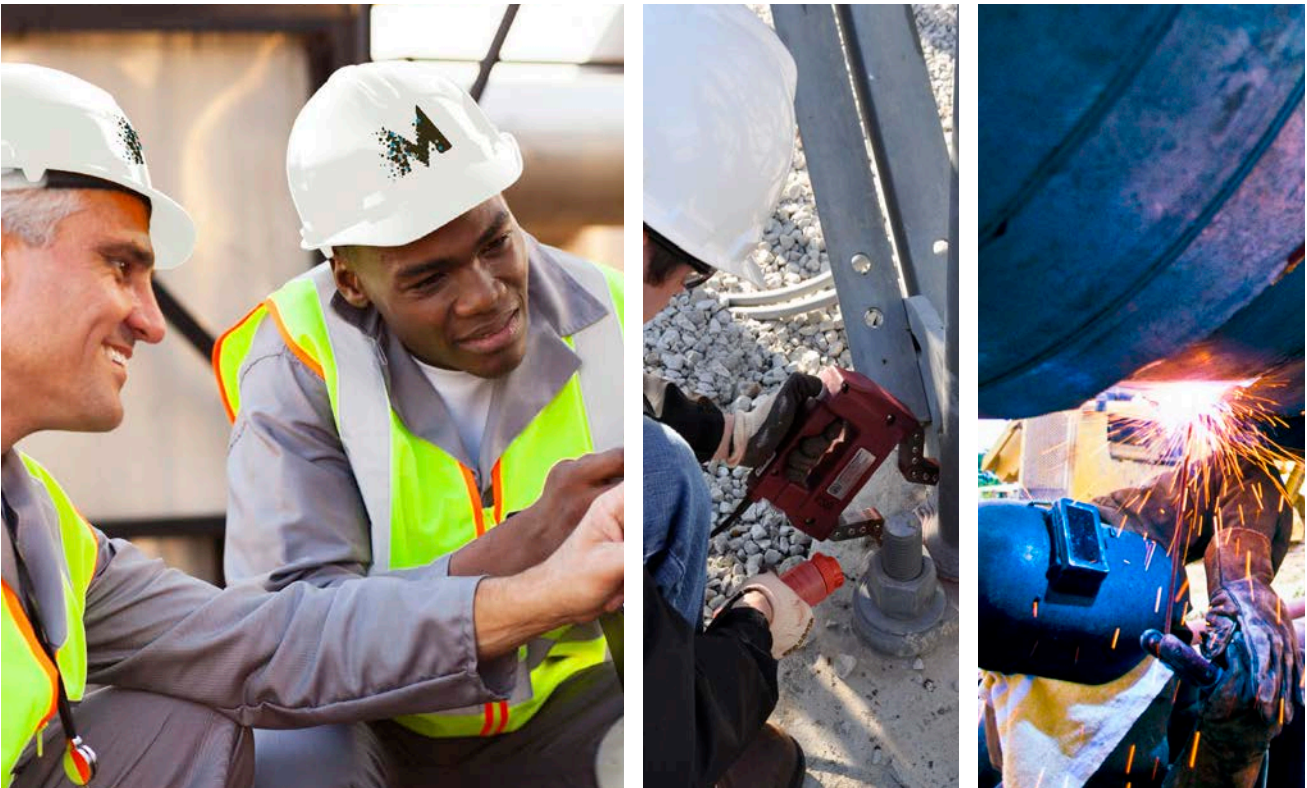
A construction worker wearing a white hard hat, safety glasses, and a high-visibility orange and green vest is shown in profile. He is holding a handheld electronic device with a screen and buttons, connected to a probe that is touching a metal structure. The background shows a construction site with metal beams and a clear sky.

# recommending the safest options

Complete structural examinations by industry professionals



# INSPECTION SERVICES



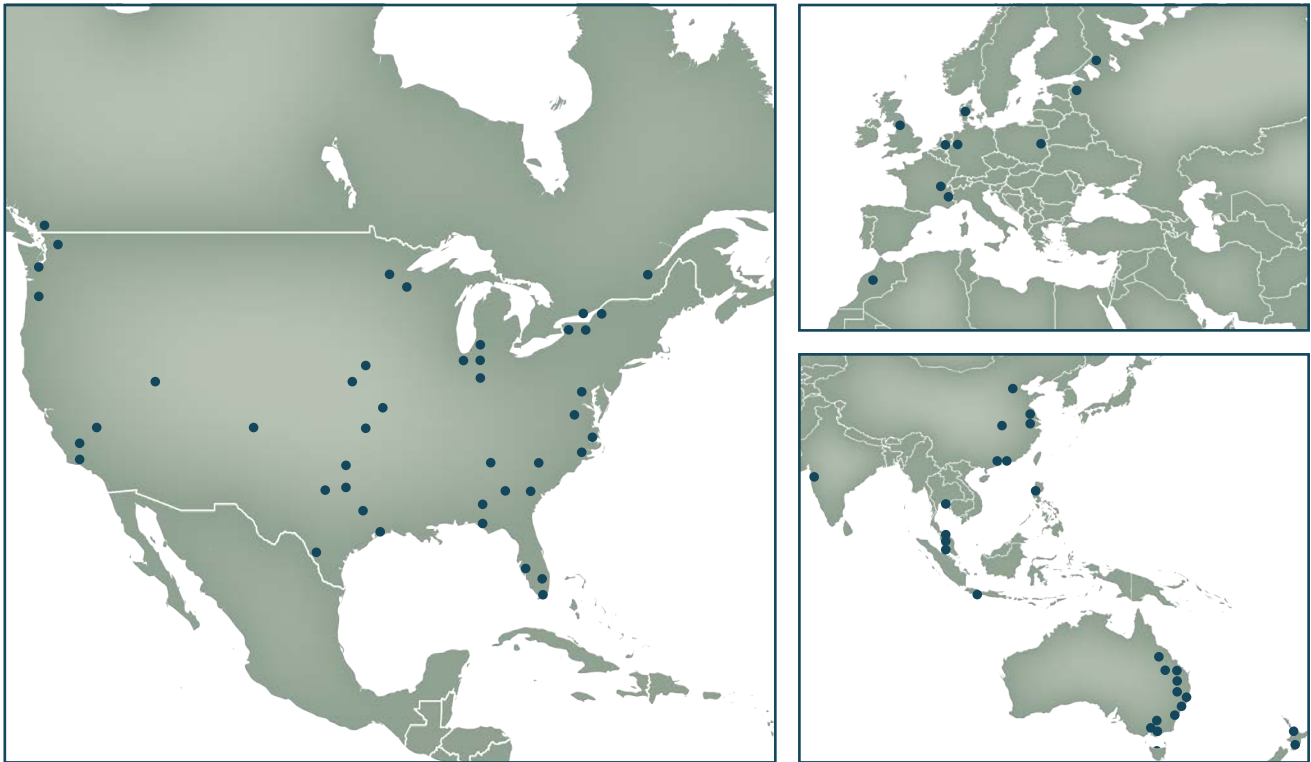
39

**Existing lighting and communication structures are not immune to corrosion and other long-term environmental effects.**

Existing lighting and communication structures are not immune to corrosion and other environmental effects. MATCO Services, Inc. provides relevant risk assessment and safety recommendations based on in-depth engineering and environmental knowledge. Areas susceptible to damage or already compromised are critically analyzed during inspection, offering a clear strategy for repair or replacement of structures.

Upon request, National Association of Corrosion Engineers (NACE) certified inspectors can conduct a pole-by-pole structural integrity report utilizing non-destructive testing (NDT) techniques to provide detailed, trusted recommendations.

# VALMONT'S GLOBAL PRESENCE



40

**Our multi-site resources beyond North America provide internationally-inspired designs and increased access to materials for truly custom structures.**

Valmont is also trusted throughout the world for the routine inspection, maintenance, and repair of existing infrastructure. Regardless of the project specifications, we provide dependability through our engineering expertise and customer support, longevity with superior materials and finishes, and efficiency using our vast network of in-house capabilities.

Take advantage of our commitment to service, value, and integrity, and see why Valmont continues to rise above.





local expertise with a global reach

Valmont provides comprehensive services that set us apart from the rest



PHONE

(402) 359.2201 | (800) 825.6668

FAX

(402) 359.4025

DIVISION HEADQUARTERS

28800 Ida Street  
P.O. Box 358  
Valley, Nebraska 68064 USA

VALMONTSTRUCTURES.COM



Conserving Resources. Improving Life.

