



## STATE OF QUALIFICATIONS - CITY OF LA CROSSE FIBER OPTIC DESIGN

City of La Crosse  
400 La Crosse Street  
La Crosse, Wisconsin 54601

March 8, 2021



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QUALIFICATION LETTER

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MARCH 8, 2021

City of La Crosse  
400 La Crosse Street  
La Crosse, WI 54601

**Reference: State of Qualifications – City of La Crosse Fiber Optic Design**

Dear Ms. Greschner and Mr. Lenz:

Mead & Hunt is pleased to provide our qualifications for planning and design services for Information Technology cabling infrastructure to the City of La Crosse. Enclosed you will find information on our qualifications for Outside Plant (OSP) fiber optic cabling design as well as indoor fiber and other related technology services.

As you may know, Mead & Hunt is a planning, architecture, engineering, and technology firm in operation since 1900. With over 900 employees the Mead & Hunt team also brings over 50 years of technology and security knowledge and experience. We provide a diverse set of knowledge and expertise so that you can complete multiple and complex projects with a single full-service firm.

Our technology team is experienced with systems, codes, standards and guidelines related to most technology and security systems including but not limited to the following systems:

- Outside Plant Cabling (Fiber-Cat 3)
- Network/Phone Systems
- Physical Security/Video Surveillance
- Audio/Visual Systems
- Paging/Sound Masking
- Mass Notification Systems

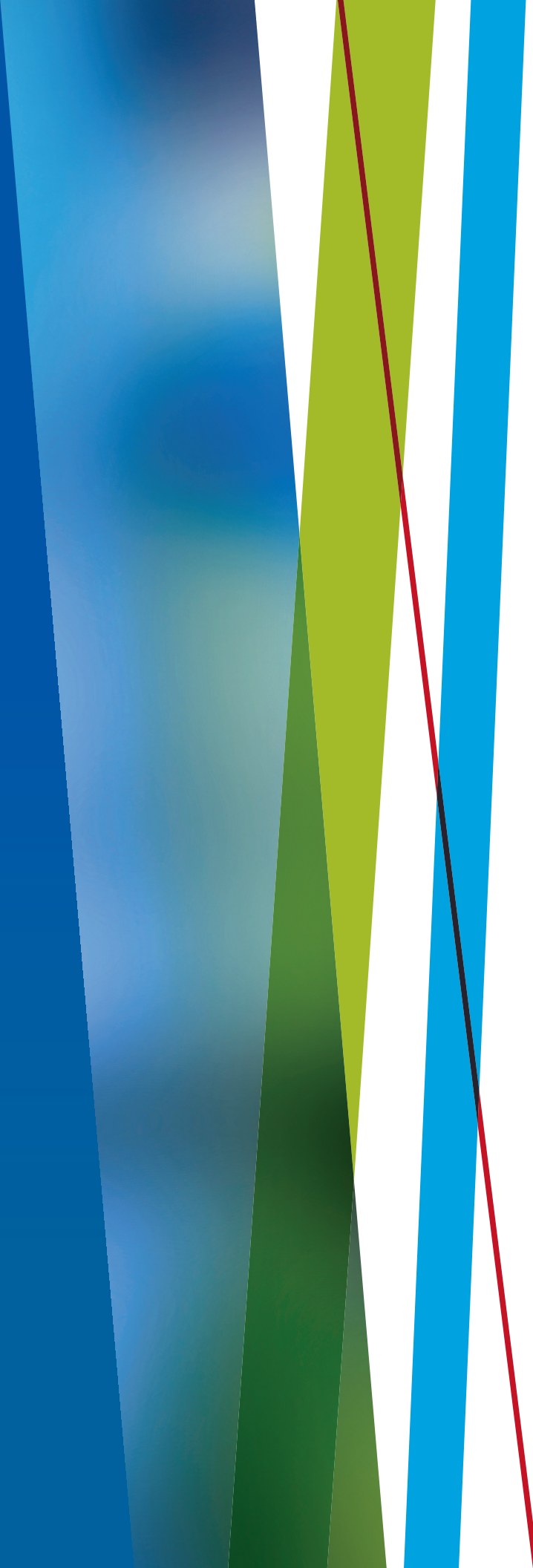
Mead & Hunt provides a proven local presence and state of the art national consulting experience. Our innovative solutions and our approach to delivering projects on schedule and within budget with technological advances will provide project delivery that meets your criteria for success. We look forward to your review of our proposal and continuing our long-term successful relationship with the City of La Crosse.

Sincerely,  
Mead & Hunt, Inc.

Michael DeVault, RCDD  
Lead Technology Consultant  
952-641-8833  
Mike.DeVault@meadhunt.com

Jay Wheaton, PE  
Project Manager  
608-433-7048  
Jay.Wheaton@meadhunt.com





**TEAM RESUMES**

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# PROJECT TEAM

## ORGANIZATIONAL CHART

### CITY OF LA CROSSE

QUALITY MANAGER  
Mike DeVault, RCDD



PROJECT MANAGER  
Jay P. Wheaton, PE  
LA CROSSE  
OFFICE MANAGER

### DESIGN TEAM



CIVIL ENGINEERING TECHNICIAN  
Ryan Franzini



TECHNOLOGY DESIGNER  
Jason McCann, RCDD



TECHNOLOGY DESIGNER  
Mark Morley, PE, RCDD

## PROJECT TEAM

### RESUMES



Jay P. Wheaton, PE  
PROJECT MANAGER

#### Areas of Expertise

- Construction Management and Inspection
- Project Documentation
- DOT Policies and Procedures
- Construction Site Layout
- Bridge Construction
- Concrete & Asphaltic Paving
- Mechanically Stabilized Earth Retaining Walls
- Community Sensitive Design
- Highway Design and Design Reports
- Levee Inspection
- Utility Coordination

#### Education

- BS, Civil Engineering, University of Wisconsin – Platteville

#### Registration

- Licensed Professional Engineer – Wisconsin, Indiana, Iowa, Kansas, Minnesota, Ohio, Virginia
- WisDOT Certified:  
AGGTEC - Sampling  
PCCTEC-I  
MCT-D  
TMS
- MnDOT Aggregate Production

#### Memberships

- American Society of Civil Engineers

Jay Wheaton leads the La Crosse office and will serve as your project manager. He has 22 years of transportation engineering experience, with a background in urban and rural highway and bridge projects. Jay has served in the role of Project Manager for more than 15 years. One of his specialties is working on State DOT and municipality projects. He excels at project communication, keeping projects on schedule, project constructability and developing creative design solutions to maximize shrinking budgets.

#### PROJECT EXPERIENCE

##### STH 16 – La Crosse Street Recondition

###### La Crosse, Wisconsin

Jay is serving as the project manager for the City of La Crosse's utility design that is included as part of a larger Wisconsin DOT project to replace the pavement and recondition 1 mile of STH 16 on La Crosse Street. Included in the scope of work for the City Utilities was to redesign and replace all the sanitary sewer main and service laterals in the project limits as well sections of the water main. Extensive coordination with the Wisconsin DOT as well as their design consultants was required to navigate utility conflicts and deliver a combined plan for bid letting.

##### USH 14 – South Avenue Reconstruction

###### La Crosse, Wisconsin

Jay is serving as the project manager for the City of La Crosse's utility design that is included as part of a larger Wisconsin DOT project to reconstruct 1.2 miles of US 14 on South Avenue. Included in the scope of work for the City Utilities was to redesign and replace all the water main and service laterals in the project limits as well to replace all of the sanitary manholes.

##### VIP Trail

###### La Crosse, Wisconsin

Jay served as the construction project manager for this \$750,000 trail project in the City of La Crosse. Mead & Hunt provided construction administration, inspection and materials testing for the project, which included multi-use trail construction as well as the construction of three modular block retaining walls, including one wall with a height of 24 feet. Unique aspects of the project included trail construction, retaining wall construction, temporary shoring, and public involvement.



Mike DeVault, RCDD  
QUALITY MANAGER

## AREAS OF EXPERTISE

### Master Planning and Program Management

- Network Architecture
- Network Infrastructure
- Airport Technology Systems
- Physical Security Systems & Integration
- Situational Awareness Platforms

### Systems Planning & Design

- Video Surveillance & Analytics
- Physical Access Control
- Intrusion Detection
- Network Infrastructure
- FIDS & A/V Systems
- Paging & Distributed Audio
- Security Operations Center (SOC)

### Registration

- Registered Communications Distribution Designer (RCDD)

### Memberships

- American Association Airport Executives (AAAE)
- Airport Consultants Council (ACC)
  - Vice Chair, IT Committee
  - Security/Facilities Committee
- American Society for Industrial Security (ASIS)
- BICSI (Network Infrastructure)
- Avixa (Audio/Visual)

Mike has more than 25 years of technology experience, including physical security, audio/visual systems, IT infrastructure, and more. His experience spans a range of industries including aviation, government, military, commercial, medical, and education. While he's spent most of his career designing systems he has also worked as a systems integrator and operations manager. Mike's combination of design and hands-on experience gives him a unique perspective on system implementation and project management approaches.

## PROJECT EXPERIENCE

### Ada County Jail Expansion

#### Boise, Idaho

Mike provided planning and design for this project which includes expanding the existing technology and security systems into the new jail expansion. Expanded systems include PLC jail controls, technology and OSP fiber. The project also includes the complete replacement of the card access and video surveillance systems with a new unified security platform compatible with the county's new county wide platform.

### Sand Ridge Secure Treatment Center Structured Cabling

#### Mauston, Wisconsin

This project upgraded the communications structured cabling at select buildings located at the Sand Ridge Secure Treatment Center (SRSTC) campus. The scope included replacing the category 6 and fiber optic cabling in 10 buildings on campus as well as upgraded technology rooms to support the new cabling and equipment. Mike provided technology consulting and design on the project.

### Austin Straubel International Airport Terminal Security Improvements

#### Green Bay, Wisconsin

This project will improve security at the existing Concourse A and Concourse B exit lanes. The current exit lane breach control is accomplished utilizing a video analytic system. Improvements will include installation and commissioning of a complete exit lane breach control corridor (ELBCC). The project will also include the installation of a bypass door adjacent to the ELBCC. The bypass door, complete with security door hardware, will be sized to afford airport personnel to transport small equipment around the ELBCC.



# Ryan Franzini

CIVIL ENGINEERING TECHNICIAN

## Areas of Expertise

- Roadway Design
- Construction Management
- Project Documentation
- WisDOT Policies and Procedures
- Construction Site Layout
- Design Surveys
- Construction Estimating
- Highway Design and Reports
- Drainage Design
- Utility Coordination

## Education

- BS, Construction, University of Wisconsin – Stout

## Registration

- WisDOT Certified:  
AGGTEC  
PCCTEC-1A  
NUCDENSITY  
TMS  
MCT-D

As part of Jay's well-rounded La Crosse staff, Ryan serves as a roadway design and construction engineer for various county and state transportation projects throughout Wisconsin. His 19 years of experience includes survey, design reports, plan development, PS&E, roadway design, construction management and inspection of highway and bridge projects. Ryan is also skilled in using GPS and Total Station surveying equipment, leveling equipment and computer design software such as AutoCAD Civil 3D and MicroStation. Most recently, Ryan provided the roadway design to reconstruct 12.3 miles of STH 173 in Monroe and Juneau Counties by milling and resurfacing the existing two-lane roadway with 3.5 inches of new asphalt pavement.

## PROJECT EXPERIENCE

### STH 16 – La Crosse Street Recondition

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### USH 14 – South Avenue Reconstruction

#### La Crosse, Wisconsin

Ryan is serving as the roadway and utility designer for the City of La Crosse's utility design that is included as part of a larger Wisconsin DOT project to reconstruct 1.2 miles of US 14 on South Avenue. Included in the scope of work for the City Utilities was to redesign and replace all the water main and service laterals in the project limits as well to replace all of the sanitary manholes. Extensive coordination with the Wisconsin DOT as well as their design consultants was required to navigate utility conflicts and deliver a combined plan for bid letting. This project is scheduled to be constructed in 2022.





Jason McCann, RCDD  
TECHNOLOGY DESIGNER

### Areas of Expertise

- Technology Space planning and design
- Technology Pathway planning and design
- Structured Cabling Systems Design
- Video surveillance systems
- Intercom systems
- Security Systems Design
- Public Address (PA) Systems design
- Broadcast Television infrastructure design

### Registration

- Bicsi Registered Communications Distribution Designer (RCDD)
- ITC Level 1 Thermography Certified
- Fluke Networks CCTT Certified in Copper and Fiber

Jason McCann has been working in the Technology Industry for over 18 years, utilizing extensive continuing education, field experience and a strong support staff of manufacturers to lead clients through the constant changes to industry standards. Jason's primary goal has always been to keep his client's telecommunication infrastructure ahead of the curve. His design experiences include many aspects of the technology space, with a focus on cabling infrastructure and pathways. He believes in having an open mind when it comes to his clients' needs, as there may often be times that there are several solutions to what a client is looking to accomplish.

### PROJECT EXPERIENCE

#### **Homestead Air Reserve Base Corrosion Control Hanger Homestead, Florida**

Jason is the Lead Technology designer on the construction of a new Corrosion Control Hanger at Homestead Air Reserve Base in Homestead, Florida. The scope of work for the project included a new outside plant fiber optic cable layout from existing base network to new Hanger. Building design included structured cabling system infrastructure layout.

#### **Oregon Air National Guard Kingsley Field Aircraft Shelter B325 Repair Kingsley Air National Guard Field, Oregon**

Jason is the Lead Technology designer on the renovation and modernization of a Maintenance Hangar at Kingsley Air National Guard Base. Jason's role included the updating of the existing IT infrastructure, security systems and overhead paging system. A new Outside Plant Fiber Optic and Copper cabling system was designed to connect Hangar to existing Base Communications Infrastructure.

#### **Augusta Regional Airport Quick Turnaround Rental Car Facility Augusta, Georgia**

Jason was the Technology Consultant for the design of a new Quick Turn Around (QTA) facility for the Augusta Regional Airport. Design included the implementation of a new outside plant fiber optic cable from the Augusta terminal to QTA building located down the street. Building design included implantation of multiple Technology rooms for each Rental Car Company, structured cabling system, video surveillance and access control system.



# Jeremy Vorheis

TECHNOLOGY DESIGNER

## Areas of Expertise

- Technology Systems for buildings & campuses
- Structured Cabling
- Telecommunications spaces
- Data Center design
- Audio/Visual (A/V) systems
- Voice/Network Systems
- Unified Communications
- Distributed Antenna Systems (DAS)
- Public Address (PA) Systems
- CATV
- Nurse Call
- Physical Security
- Project Management
- Quality Control & Commissioning

## Registration

- RCDD (Registered Communications Distribution Designer) BICSI (Building Industry Consulting Services International)
- CommScope RF Wireless Infrastructure Specialist (CRWIS) CommScope Infrastructure Academy

Jeremy Vorheis comes with over 20 years of experience in technology systems serving in multiple capacities including consultant, designer, and integrator. Some of the industries Jeremy has covered include healthcare, higher education, hospitality, and data center service providers. Jeremy takes pride in meeting with clients to discuss their technology needs and goals then working diligently to provide the best solution for their business model. This typically requires extensive research into the existing infrastructure and applying that knowledge to develop a solution based on current and emerging technologies.

## PROJECT EXPERIENCE

### Glacier Park International Airport Terminal Program 2019

#### Kalispell, Montana

This is a multi-phase modernization project to meet significant growth needs and industry aircraft fleet mix changes. This project includes modifications to the security checkpoint, hold rooms, passenger boarding bridges, concessions, baggage handling and updated building systems. Jeremy provided design for all technology, security, RF, and AV systems. This effort was to build a complete updated infrastructure in the first phase of the project while keeping existing systems operation during construction. Considerations were required to include integration with the existing systems to allow the second phase areas to remain operational without having to access disparate systems. Jeremy developed an infrastructure design to accommodate the airport and tenants being consolidated into designated technology rooms while maintaining all security protocols required by each entity.

### Fort Wayne International Airport Terminal Building Improvements

#### Fort Wayne, Indiana

This project was to address the needs of FWA's increased air service demands. Jeremy had the primary role of designing all the technology and AV systems and a secondary role on security systems. As with most renovation/expansion projects careful considerations were required to maintain all these systems during all phases of demolition and construction to allow airport operations to continue unimpeded by technology stopgaps.

PROFESSIONAL CERTIFICATION/LICENSES





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THE PROFESSIONAL DESIGNATION OF

**REGISTERED COMMUNICATIONS  
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IS AWARDED TO

**Jeremy Vorheis**

by BICSI in recognition of having successfully completed BICSI's registration and examination requirements.

Designation Number: 212578  
Registration Start Date: 1/1/2019  
Registration End Date: 12/31/2021

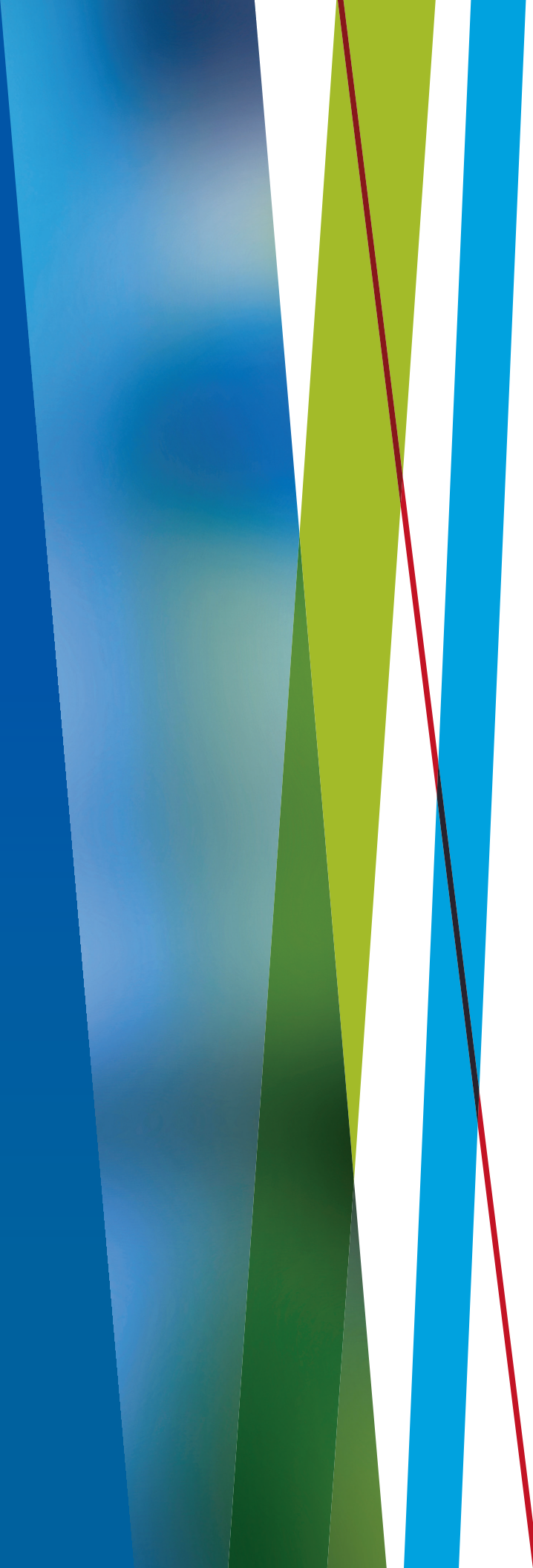


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10/17/2009

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Director of Credentialing



**SIMILAR PROJECTS**

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## SIMILAR PROJECTS



### Project Data

- Completion: 2015
- Cost: \$600k

### Project Relevance

- Project included airport-wide upgrade and replacement of a video surveillance system along with network infrastructure to support the new video architecture.

### VIDEO SURVEILLANCE SYSTEM AND FIBER OPTIC CABLING UPGRADE

AUGUSTA REGIONAL AIRPORT – AUGUSTA, GEORGIA

In response to a request by Augusta Regional Airport, Mead & Hunt reviewed several video surveillance upgrade proposals from a local contractor and found them to be deficient for the needs of the airport and for the upgrade of the video surveillance system. Mead & Hunt was able to develop a design for the upgrade that included new fiber optic cabling to 12 buildings and six parking lot emergency telephones on the airport campus and a comprehensive upgrade package of video surveillance cameras, network infrastructure and a new video management system. The network infrastructure included new managed Power over Ethernet (PoE) switches and Category 6 cables to more than 120 camera locations. The cameras consisted of day/night units in three different resolutions as well as thermal imaging cameras. The fiber optic cabling infrastructure will support future upgrades to the video surveillance system, the airport access control system and will support future networked fire alarm panels in several hangars. The construction documents were used by the local contracting authority to both secure FAA funding for the upgrade and to competitively bid the project. The average bid was within 1% of Mead & Hunt's cost estimate.

**Project Data**

- Completion: 2016
- Cost: \$3M

**FIBER OPTIC CABLE BACKBONE, DFD****UNIVERSITY OF WISCONSIN-WHITWATER – WHITWATER, WISCONSIN**

The University of Wisconsin-Whitewater selected Mead & Hunt to upgrade the campus fiber optic backbone to meet both current and future requirements for the university's data, voice, video, building HVAC control and building fire alarm reporting systems. The project includes removal of legacy and abandoned cabling and replacement of either 24 or 48 strand single-mode cable to each of 37 buildings from 2 central nodes and additional cabling between the nodes. The existing system connectivity was upgraded to single-mode fiber. Upon completion of the project all buildings included in the project have the ability to transmit video, data, building automation and fire alarm reporting over single mode cabling.

Mead & Hunt surveyed 37 buildings, created drawings and specifications for bid documents and completed the project all the way through construction administration.



#### Project Data

- Completion: 2020
- Cost: \$500k

#### ADA COUNTY COURTHOUSE ACCESS CONTROL UPGRADE

BOISE, IDAHO

Mead & Hunt Planned and designed the replacement of the existing Access Control System (ACS) and Video Management Systems (VMS) to a new unified ASC/VMS platform. This new platform then became the standard for all county facilities. The system has, to date, been extended to two other facilities and is planned to eventually be extended to all county facilities. The new platform provides the county with the following benefits.

- A unified situational management platform for all updated facilities
- Unified identity and credential management for the county
- Ease of training across departments
- The ability to manage facilities remotely after hours.
- The ability to give local control to local facilities while maintaining county wide control and auditing
- The ability to push facility monitoring to an emergency command center during a crisis.

The initial project included five floors (80+ doors), an adjacent building, elevator controls and personal duress buttons. The project design required the system to be updated without interruption to daily court security activities.





### BUD HENDRICKSON MEMORIAL NATURE TRAIL AND PEDESTRIAN BRIDGE DESIGN

CITY OF LA CROSSE – LA CROSSE, WISCONSIN

#### Project Data

- Role: Bike/pedestrian trail, survey, railroad expansion coordination, agency coordination, bridge design, utility relocation, Section 106, wetland impacts, environmental documentation and permitting, public involvement

**APWA – WI Chapter “2016 Public Project of the Year” Award Winner**

**APWA “2016 Small Cities/Rural Communities Project of the Year – Structures” Award Winner**

Mead & Hunt just completed the final design for a new 11-span bike/pedestrian bridge across the Burlington Northern Santa Fe Railroad yard. The new pedestrian bridge and trail will provide a safe and convenient link for non-motorized traffic in the City of La Crosse. The total project length for the new multi-use trail and pedestrian bridge is 1.15 miles, which will link to other bicycle and pedestrian facilities in the City of La Crosse.

The new bike/pedestrian bridge has an overall length of 840 feet, which consists of four pre-fabricated steel truss spans crossing seven railroad tracks and a maintenance road, with seven prestressed concrete girder approach spans. The pre-fabricated steel truss spans are fully enclosed with chain link fence to prevent debris from being dropped onto the tracks. The new structure is supported on reinforced concrete abutments and piers with a deep pile foundation. The new 1.0-mile-long segment of multi-use trail will consist of a 10-foot asphalt-surface with a two-foot aggregate shoulder on the east side and a three-foot aggregate walking/jogging path on the west side.

The project included developing preliminary and final plans, structural design, railroad coordination, agency and utility coordination, hazardous materials, specifications, design reports, right-of-way plat, environmental document and bidding documents.



### Project Data

- Role: Roadway design, stormwater design, fiber and technology design, construction oversight and documentation

## LA CROSSE REGIONAL AIRPORT ROAD AND PARKING LOT EXTENSION

### LA CROSSE REGIONAL AIRPORT – LA CROSSE COUNTY, WISCONSIN

The La Crosse Regional Airport was experiencing flooding issues in their short-term parking area due to the undersized storm sewer system. Standing water during storm events had also created significant wear to the well-traveled Loop Road and the short-term parking lot. Mead & Hunt provided design and construction services for this project that involved 0.6 miles of the La Crosse Regional Airport's Airport Road, reconstruction and expansion of the adjacent Loop Road and expansion of the nearby parking lot.

Airport Road was reduced from nearly 40 feet to 34 feet wide with a bike lane replacing the parking lane on each side of the road. The existing curb and gutter was replaced with a flat (ribbon) curb to aid in sheet flowing water to the new infiltration ditches while keeping an urban feel to the road. Infiltration ditches were constructed along both sides of Airport Road to accommodate stormwater runoff and allow for infiltration before reaching the storm sewer system. Two infiltration basins were installed near the intersection of Airport Road and the entrance to the airport to help alleviate flooding issues. Existing street lighting and other utilities were relocated due to the roadway being narrowed and ditches being installed.

The reconstruction of the Loop Road required replacing existing asphalt pavement and base courses. The Loop Road and parking lot extension consisted of expanding the current parking lot by 600 feet to the north, which added approximately 280 parking stalls. Three infiltration basins were installed to accommodate the additional impervious area of the new parking lot and Loop Road extension. New parking lot attendant booths, credit card readers and parking gates with communication lines were also included. The work for this project was completed while keeping traffic open to the industrial park and Airport.





**PROJECT APPROACH**

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## PROJECT APPROACH

### TEAM DESCRIPTION

To meet the Fiber optic and communications systems and security needs of the city of La Crosse, Wisconsin, we have compiled a team that brings strengths that will best service this program. This team is the perfect mix to understand your needs with this fiber optic/controls program from master plan through the commissioning process.

### OVERALL TEAM APPROACH

#### General

Mead & Hunt uses a proven workflow approach on all task-based contracts. Evidenced by the number of owner representative contracts we hold with long-standing clients, this proven process provides consistency for project delivery on time and within budget.

#### Communication

To maintain open communication, we will have regular internal meetings with the design team to verify the project is following the schedule. There will also be regular meetings with City staff during project design to discuss schedule and budget.

#### Task Initiation

The initiation and plan phase include developing and executing the task orders. Our assigned task leaders will work with the city's project manager and related staff to develop an agreed-upon scope, schedule and budget for the assigned task order to identify objectives and deliverables and clearly define a successful task outcome.

#### Delivery

At the beginning of the delivery phase, Mead & Hunt's task leader will develop a management plan that includes a detailed work plan, resource planning, schedule, and quality management plan. These work products will be augmented and updated to reflect the needs throughout the task order delivery.

#### Closeout

The closeout phase of a task assignment consists of debriefings, completing project deliverables, and finalizing invoices. We will assist the City in archiving all project deliverables in a format that complies with the City's standards. Our task based process has proven successful on a variety of engagements and may be feasible for this



program; however, we will readily accommodate any changes to integrate our team into the airport.

## PROGRAM APPROACH

### Project Initiation

The following program approach describes our overall process. Based on the desired schedule, the items below could be completed in a linear fashion or some may be completed concurrently. This phase will typically conclude with a written Owner's Project Requirements (OPR) document.

### Preliminary Design

This phase will begin with a detailed site survey of all related systems throughout the project scope. It may include a user/stakeholder meeting to evaluate the actual and perceived limitations of the existing conditions. Conditions include all relevant systems devices, head end, software, integration, monitoring, control, and supporting technology/infrastructure. Potential systems may include:

- Outside Plant Cabling (Fiber-Cat 3)
- Network/Phone Systems
- Physical Security/Video Surveillance
- Audio/Visual Systems
- Paging/Sound Masking
- Mass Notification Systems

This phase typically ends with a Basis of Design (BoD) narrative. This will include any needed schematic level drawings. It will also include a Concept of Operations (Con-Ops) narrative for the systems and for the desired requirements.

### 60% Design Phase

In this phase we will develop an initial set of plans and specifications depicting the types of systems, device layouts, integration, etc. required to accomplish the design goals laid out in the BoD. This includes plans showing devices but does not include all of the detail required to bid and build the systems. Along with the 60% design documents we will provide an engineer's estimate of probable costs.

### 90% Design Phase

In this phase we will develop a detailed set of plans and specifications depicting the types of systems, device layouts, integration, etc. required to bid and build the systems that were laid out in the 60% design deliverables. This includes plans, details, schematics, schedules, etc. as required for bid. Along with the 90% design documents we will provide an engineer's estimate of probable costs.

### Bid Documents

In this phase we will deliver a final set of bid documents as required to bid the project. It will be based on the 90% documents along with any Owner Review and QA/QC comments. Along with the Bid Documents we will provide a final engineer's estimate of probable costs.

## QUALITY ASSURANCE/QUALITY CONTROL

### Overview

A project's QA/QC Program defines processes, resources, and quality specifications to verify project deliverables comply with professional standards and guidelines. We have developed and continue to upgrade and implement systems and procedures that provide both our new and repeat clients with a quality project and outcome. The QA/QC plan for your project will be implemented at the end of each phase/deliverable and will include two levels of quality review. They are:

Level I Review involves the most fundamental QA/QC process (checks done within the project team – often referred to as the "buddy system").

Level II Review consists of independent reviewers not directly involved in the project design and is additional to Level I.

## BUDGET

We will provide an accurate and up-to date financial accounting throughout your project's duration. Our interests are your interests. Our integrity, reputation, and the trust of our clients is paramount to our firm's long-term success. We have been in business for more than 100 years and attribute this longevity to our ethical and straightforward business practices.