



Construction Services

Snyder & Associates, Inc. provides experienced and highly trained construction inspectors that possess current knowledge of construction materials, techniques and technologies. Their documentation of work, materials, testing and construction practices ensure the construction items are built in compliance with the project's plans and specifications. We offer unmatched attention to detail and project knowledge along with timely communication between the client, project manager and contractor to facilitate teamwork and move projects toward an efficient and successful completion.

You can rely on Snyder & Associates, Inc to provide thorough, responsive service for a variety of project needs. Whether you are looking for assistance with ADA compliance, trail development, highways, bridge construction or airport projects, our construction inspection specialists will make sure your project is completed as intended.



Services Offered

- Portland Cement Concrete Inspection*
- Portland Cement Concrete Plant monitoring*
- Hot Mix Asphalt Inspection*
- Hot Mix Asphalt Plant Inspection*
- Aggregate Inspection
- On-Site PCC Testing
- Materials Certification
- Shop Drawing Review
- Record Drawings
- Change Order Coordination
- Pay Applications
- Soils Testing

* MoDOT and IowaDOT Certified



SNYDER & ASSOCIATES
Engineers and Planners

1.888.964.2020

www.snyder-associates.com

Construction Services

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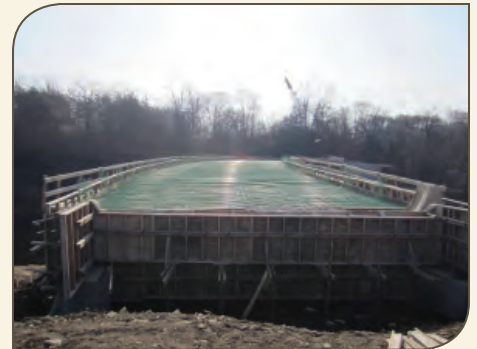
Highways

Whether observing construction, verifying materials, documenting quantities, or preparing pay applications, Snyder & Associates, Inc. manages the details so you can focus on other priorities. Our team has effectively performed construction inspection for numerous highway projects to ensure the work is completed accurately and the infrastructure is stable. We observe various stages including the initial site grading, storm sewer improvements, sub grade preparation and paving to provide quality assurance throughout the construction process. During paving operations, our professionals complete plant monitoring and document compliance with the project plans and specifications. Upon completion, we conduct a project walk thru, generate a list of minor tasks yet to be completed, satisfy project close out objectives and provide documentation for final audit.



Bridges

From bridge deck overlay and repairs to complete bridge reconstruction, Snyder & Associates, Inc. construction inspectors have the experience and training to ensure the construction items are completed in compliance with the projects plans and specifications. Our professionals are trained in various applications including PCC plant monitoring for bonded overlays and structural concrete for piers and bridge decks. We can also review pile driving, the setting of structural steel or the setting of forms. The onsite testing and sampling of PCC concrete and HMA as well as the documentation of materials for compliance as well as partial pay and final pay application are just part of their daily tasks.



Recreation Trails

Construction Inspection for rural and urban recreational trails has been a major focus for Snyder & Associates, Inc. in recent years. Our professionals have a broad understanding of both state and federal project requirements to ensure the materials, documentation, and construction is accurate and completed as required. All testing and monitoring is performed, verified or observed by individuals that know what documentation is needed to conduct the final project audit.



ADA Sidewalk Compliance

Constructing sidewalks in compliance with the Americans with Disabilities Act (ADA) is a relatively new type of federally funded project. Snyder & Associates, Inc. construction inspectors have been trained and are prepared to address projects like these that increase opportunities for community mobility. Our past experience with project documentation, material certification, field observation, and client and contractor relationships allows us to address sidewalk improvements with the same care as major transportation projects.

STREETS & HIGHWAYS

CROSS-TOWN CONNECTOR *Fort Dodge, IA*

VERSATILE STAFF & EXPERIENCE

Whether your transportation network faces specific or overarching issues, our skilled team of over 100 transportation planners, engineers, traffic specialists, right-of-way agents, and construction technicians can help.

Many of our staff have planned, studied, designed, and administered roadway improvements ranging from pavement preservation projects to miles of freeway with interchanges. We've also led the effort to research and develop nationally recognized manuals and training modules for innovative subgrade treatments, pavement designs, overlays, and construction methods.

COMPREHENSIVE ROAD NETWORK DESIGNS

Roadways need to accommodate a high number of users with great skill variation. We streamline the development and implementation of safe, efficient roadway improvements by:

- Ensuring our plans address both the project need and owner's objectives.
- Creating designs that strive for the ultimate goal of Zero Fatalities.
- Utilizing a variety of communication tools to gain stakeholder consensus.
- Reviewing each corridor to determine areas where multimodal accommodation can be improved.
- Keeping construction costs within budget and investigating outside funding sources if necessary.



TRANSPORTATION
BICYCLES & PEDESTRIANS
FREIGHT RAIL
PUBLIC TRANSIT
STREETS & HIGHWAYS
TRAFFIC ENGINEERING





GRADE SEPARATION

First Avenue, Iowa City, IA

Photo Credit: Frank Grizel

HOW WE CAN HELP

TRANSPORTATION PLANNING

With budget and time constraints in mind, we overcome current challenges and prepare a road map for the future to enhance your transportation network.

TRAFFIC

We analyze safety issues, review options to increase demands of the roadway network, and design solutions to address deficiencies.

URBAN DESIGN

We develop comprehensive corridor plans to support economic redevelopment and community revitalization.

FUNDING ASSISTANCE

We can help you navigate the funding process, write grant applications, and administer funding documentation.

GIS & ASSET MANAGEMENT

Streamline data development, analysis, and maintenance of your transportation network with GIS technology.

RIGHT-OF-WAY SERVICES

For nearly 20 years, our team has acted on behalf of our clients to reach fair and equitable settlements with property owners and lease holders. Known for our caring, respectable negotiation skills and attention to detail, we're a one-stop shop for land acquisition services.

MULTIMODAL ACCOMMODATION

By identifying which modes of transportation to accommodate and how to blend them symbiotically, we'll guide your community in meeting the diverse needs of all users.

BRIDGES & STRUCTURES

Our approach to structural engineering focuses on right-sized solutions and life-cycle costs to maximize your budget.

ENVIRONMENTAL COMPLIANCE

If impacts to environmentally sensitive areas are unavoidable, we'll work to minimize them so mitigation measures are also minimal.

CONSTRUCTION OBSERVATION

Up-to-date knowledge of materials and best practices helps us verify plan and specification compliance.

FREEWAY/INTERSTATE SYSTEMS

Our expertise includes highway improvement projects ranging from mainline rehabilitation to interstate realignments and interchange improvements.

PAVEMENT PRESERVATION

Following a pavement evaluation, we develop strategies to address critical failures first and maximize the lifespan of lesser-distressed pavements.

BRIDGES



COTTAGE GROVE BRIDGE
Des Moines, IA

EMBRACING CHALLENGES. REALIZING VISIONS.

With a staff of over 20 structural engineers and technicians, practical solutions and thoughtful guidance are just the beginning. A comprehensive service offering means you can depend on us for nearly every aspect of your project. We foresee and respond proactively to challenges with a depth of resources and experience that are differentiated by:

- Buildable plans with complete specifications that guide reliable results.
- Collaboration with all stakeholders and strong relationships with regulatory agencies.
- Realistic, appropriate designs to assist with budget forecasting, funding procurement, and project planning.
- The ability to compress design schedules to reduce project costs and extend the use of resources.





BRIDGE REPLACEMENT

Grand Avenue, Des Moines, IA

HOW WE CAN HELP

BRIDGE CONCEPT & FEASIBILITY STUDIES

Project sites are evaluated to determine possible bridge types, lengths, and deck configurations. Hydraulic analysis results, along with roadway planning needs and ROW limits, are used to optimize construction depths, span lengths, and bridge arrangements.

BRIDGE REHABILITATION & RESTORATION

Our bridge rehabilitation process begins with an extensive evaluation to determine current conditions and required repairs. A thorough cost estimate is developed, and a report detailing the bridge condition with recommended repairs is provided to assist with funding procurement.

FUNDING ASSISTANCE

With years of experience pursuing state and federal funding, we can help navigate the process, write applications, and administer funding documentation.

CONSTRUCTION ADMINISTRATION

Working with contractors, we strive to utilize materials and equipment that are suited for each individual contractor. Specific services we offer include:

- WEAP analysis
- Bridge demolition plans
- Bridge beam/girder erection plans
- Cofferdams
- Temporary shoring

Construction review services are provided on a routine basis for the transportation projects we design. They may range from a limited scope of services to full scope resident engineering.

BRIDGE INSPECTION & LOAD RATING

Our inspectors are Federal Highway Administration/National Highway Institute trained to fulfill National Bridge Inspection Standards as well as State DOT and local municipality requirements.

In addition to routine inspections, we're trained for fracture critical and confined space inspections.

TRAFFIC ENGINEERING



INTERSECTION SAFETY CAPACITY IMPROVEMENTS

Cedar Rapids, IA

IMPROVING SAFETY & EFFICIENCY

We're committed to helping you create a transportation network that's user-friendly, safe, and effective for people of all ages and physical abilities, regardless of how they travel.

To improve traffic operations, we gather an understanding of the function and context of the area. Combining field review, advanced traffic analysis, and modeling tools helps us analyze intersection, interchange, and corridor traffic operations. With deficiencies identified, options to increase safety and better accommodate existing and long-range traffic demands are evaluated. Recommended improvements are developed using current best practices.

PLANNING FOR GROWTH & DEVELOPMENT

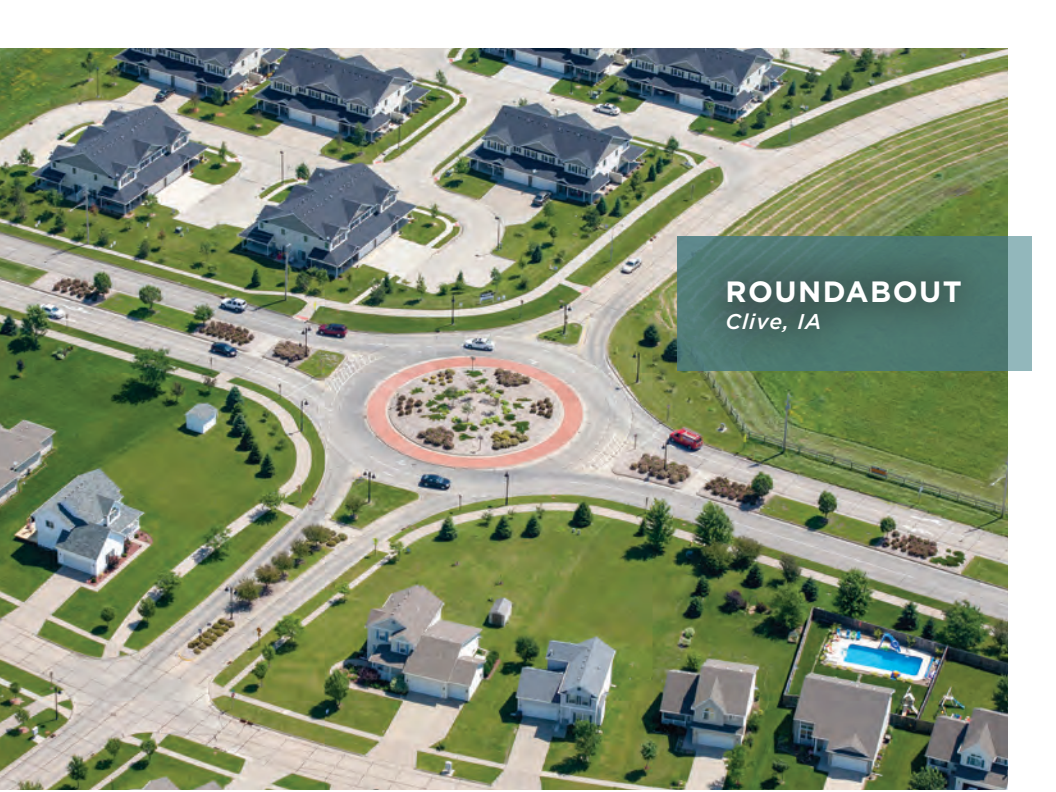
Community growth and development can affect the safety and function of transportation corridors. Based on current and projected conditions, capacity and safety improvements may include:

- Roadway widening
- Adding auxiliary turn lanes
- Bicycle/pedestrian accommodations
- Traffic signals
- Roundabouts
- Road diet conversions



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ROUNDBABOUT

Clive, IA

HOW WE CAN HELP

TRAFFIC & SAFETY STUDIES

A study is often the first step to plan and design transportation improvements by clearly identifying the project need, budget costs, and potential funding sources. Following analysis, we'll develop and document recommendations in a study report.

MODELING & OPTIMIZATION

Our traffic study and signal timing projects utilize traffic modeling software such as HCS, Synchro/SimTraffic, and VISSIM to evaluate and optimize traffic operations. Depending on project needs, simulation modeling may be necessary to further evaluate operations and identify improvement needs.

ROADWAY LIGHTING

Our experience includes all types of lighting, working with LED fixture retrofits, and new lighting control systems. Analysis and simulation of lighting designs are modeled utilizing software AGi32 to help demonstrate actual lighting patterns, illuminance, and dark sky concerns.

SIGNAL SYSTEMS DESIGN

We combine a deep understanding of traffic operations, safety issues, and applicable standards with knowledge of physical site constraints to design cost-effective traffic signal and control improvements.

SIGNAL TIMING & COORDINATION

From data collection through traffic modeling, timing plan development, and field implementation, we are committed to effective traffic operations.

ROUNDBABOUT ANALYSIS & DESIGN

Analysis of short and long-term needs is necessary to optimize roundabout capacity and safety. Our design process includes performance checks to ensure roundabout safety benefits are achieved.

FUNDING ASSISTANCE

Utilizing years of experience, we can help identify funding opportunities, create competitive applications, and administer funding documentation.

TRAILS

MULTI-USE TRAIL *Easter Lake, Des Moines, IA*

OUR PATH TO YOUR SUCCESS

Our trail practice began in the early 1990s and has grown significantly since then. As a Midwest industry leader in multi-use trail development, we've helped build over 300 miles of paved trails in just the past eight years.

Comprehensive knowledge of current and emerging industry best practices, along with U.S. DOT and state DOT bicycle and pedestrian accommodation policies, guide us in the design and implementation of world class trails.

BUILDING PROJECT SUPPORT

We bring together advocacy committees to build support for your project. Through these committees, we establish local ownership of trails to build community pride and excitement. Throughout all project phases, we coordinate with funding authorities, regulatory agencies, public officials, and other stakeholders to guide project success.

FUNDING ASSISTANCE

The competition for trail funding is intense, and it can be challenging to get the financial support you need. Utilizing years of experience, we'll help you navigate the funding process, create competitive applications, and administer funding documentation.



PUBLIC SPACES

ATHLETIC FACILITIES
PARKS
STREETSCAPES
TRAILS





REGIONAL TRAIL SYSTEM

High Trestle Trail, Central IA

HOW WE CAN HELP

DESIGN & PLANNING

We balance design standards and funding requirements, while minimizing the environmental impact of trail projects by harmonizing with the surrounding environment.

TRAILHEAD & OASIS DESIGN

Useful, well-sited trail amenities greatly enhance the user experience. Besides the utility of restrooms, water sources, and fix stations, the view from and of the amenity are important design considerations.

INTERSECTION TREATMENTS

Safety is paramount when trails meet roadways. Whether it's a paved crossing of a gravel road or an actuated pedestrian traffic signal, we provide expertise for appropriate intersection design and traffic control.

BRIDGES & TUNNELS

We've designed and constructed over 100 pedestrian structures including tunnels and bridges ranging from 13-feet to 2,560-feet. This experience includes the rehabilitation of historic structures, repurposing bridges from other transportation modes, tunnel installation under traffic corridors, and new bridge design.

MAINTENANCE & REHABILITATION

Old trails deteriorate, and we understand the conflict associated with the scarcity of resources versus maintenance and repair needs. We can assist with trail maintenance plans and design rehabilitation techniques to prolong the life of your trail.

STREETSCAPES

PEDESTRIAN INTERSECTION

Iowa City, IA

CREATING COHESIVE PUBLIC SPACES

Streetscapes are an opportunity to blend business, transportation, and users into a vibrant, unified space. Whether your goal is redeveloping a blighted area of your community or promoting a new business district, smart streetscape design is essential to guide the public through the space.

Our holistic project approach accounts for diverse user needs and incorporates attractive features to create streetscapes that enhance the local economy, quality of life, and sense of place. You're investing in the future of your community and we're prepared to guide you with long-term solutions.

STRATEGIC IMPLEMENTATION

It's important for streetscape improvements to take place with minimal interruption to surrounding businesses and the local community. This is achieved through phased construction, requiring considerable attention to paving and utility coordination, traffic planning, and safety.

With extensive project management and construction administration experience, we'll identify and think through construction issues before each phase begins.



PUBLIC SPACES

ATHLETIC FACILITIES
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ROUNDAABOUT ENHANCEMENT

Fort Dodge, IA



BUSINESS DISTRICT REVITALIZATION

Dundee, NE



HOW WE CAN HELP

MASTER PLANNING

Looking beyond the project corridor, we take pedestrian, bicyclist, and vehicle routes into account to create safe, efficient connections with the community and all it has to offer.

DESIGN

With a focus on different streetscape zones and amenities, we strive to ensure accessibility for all users and modes of transportation.

CIRCULATION

Traffic calming tools and separation between different modes of transportation, loading zones, parking, and service access cultivates safe, efficient passage throughout the area for all users.

ACCESSIBILITY

It is essential to accommodate users with diverse mobility solutions using ADA compliant intersection crossings and building access.

AMENITIES

Gathering areas, seating, lighting, landscaping, decorative pavements, and other amenities provide the finishing touch on a well-designed streetscape.

FUNDING ASSISTANCE

We can help you navigate the funding process, write grant applications, and administer documentation for outside funding sources.