Who we are:

Transportation is so basic that many of us overlook its overwhelming importance in our daily lives. Practically everything used in our homes, offices, or schools across Tennessee – from furniture to food items to clothing – requires a large and complex transportation network. The Tennessee Department of Transportation provides citizens of Tennessee and travelers with one of the best transportation systems in the country. TDOT is a multimodal agency with responsibilities in building and maintaining roads, aviation, public transit, waterways, railroads, cycling and walking. Our involvement ranges from airport improvements to funding transit buses to planning for river ports. The Department of Transportation has approximately 3,500 employees with four statewide region facilities in Knoxville, Chattanooga, Nashville, and Jackson. TDOT Aeronautics is located near the John C. Tune Airport in Nashville, TN.

Corridor Management Transportation Engineer
Region Traffic Operations – Traffic Operations & Permitting Section
$102,300 annually

Job Overview

The Corridor Management Transportation Engineer serves as a key technical authority within TDOT's Region Traffic Operations team, responsible for ensuring safe, consistent, and efficient corridor management and egress/ingress access control to the State Highway System. This role focuses on managing commercial and residential driveway permitting, evaluating access requests, and coordinating with stakeholders to ensure proposed developments meet TDOT's operational and safety standards. This position partners with the HQ Traffic Design and Operations Division, Asset Management, Region TMCs and Highway Response, and Project Teams to implement a proactive and predictive approach for addressing congestion and increasing safety.

The Corridor Management Transportation Engineer provides technical support to developers, consultants, and municipalities throughout the permitting process. This position collaborates across TDOT disciplines including Construction, Maintenance, and Legal to identify and mitigate risks, ensure access designs are constructible and enforceable, and align permitting decisions with long-term corridor planning goals. This position also plays an important role in consultant oversight, managing performance tracking, and continuous improvement initiatives.

This position implements integrated operational strategies into TDOT's transportation network that leverage technology, restore performance, and increase travel time reliability. This position also supports broader Region Traffic Operations initiatives such as corridor congestion monitoring, safety and travel reliability, incident response coordination, and managed lanes. The Corridor Management Transportation Engineer optimizes the technological and operational integration of TDOT's infrastructure by dynamically managing congestion using predictive traffic conditions, traffic studies, and supporting the deployment of Active Traffic Management strategies, Integrated Corridor Management, and traveler probe data information to improve corridor level of service.

This position focuses primarily on access control and permitting, leading efforts to modernize permit processes, keep accurate records, and promote consistency, transparency, and technical integrity across the region. These efforts support TDOT's mission to provide a safe, reliable transportation system while encouraging responsible development. The position also requires clear communication of engineering concepts through training, mentoring, and teamwork within a matrix organization.

Essential Job Responsibilities

Review and assist the Regional Permit Operations with permits for commercial and residential driveways, field entrances, signals, and license agreements, ensuring compliance with TDOT's standards, procedures, and applicable regulations. Apply sound judgment to evaluate the impacts of proposed access control points on safety, traffic flow, and corridor performance while balancing local development needs with statewide mobility goals. Provide technical guidance to developers and local agencies, leading pre-application meetings, resolving access-related conflicts, and coordinating with internal teams to ensure enforceable, risk-informed designs. Serve as TDOT's primary point of contact for access control inquiries and represents the department in meetings with MPOs, RPOs, municipalities, and property owners to align access control decisions with regional planning objectives. It also ensures accurate documentation and reporting according to TDOT Records Disposition Authorization (RDA) requirements.

Serve on project teams to integrate access control into all phases of project delivery, providing input at each Project Delivery Network (PDN) stage. Provide technical input during scoping, design, and quality reviews, including Functional Design Plans. Review and advise on access-related features such as median openings, turn lanes, signals, and intersection designs including development proposals and public interest. Identify risks early in project development and recommend solutions aligned with corridor access control policies, procedures, standards, and strategies. If proposed driveways do not meet TDOT standards, coordinate deviation requests through the TDOT Deviations Committee as part of the Highway Access Manual or as part of the PDN; this coordination must occur prior final permit approval or in conjunction with the PDN process.

Ensure access control designs and permit decisions comply with TDOT's Quality Management Guidelines and regulatory standards to support safety performance and operational reliability. Participate in audits, field inspections, and internal QA/QC reviews to verify that permitted access control points are constructed as approved and aligned with Transportation Management Plans (TMPs) and Temporary Traffic Control (TTC) strategies. Identify and mitigate risks related to constructability, legal enforceability, and long-term maintenance, recommending solutions in collaboration with other technical disciplines. Support quality teams by providing quality reviews that align with the PDN and help safeguard transportation network performance while minimizing construction delays and contractor claims. Contribute to access control policy updates, classification standards and special provisions, variance procedures, and tracking system improvements to promote statewide quality, consistency, and efficiency.

Contribute to Project Teams within a matrix organization by providing traffic operations expertise, helping to define the project vision in alignment with Project Management and Asset Management, setting expectations for managing operational risk, and recommending access and operational improvements that support TDOT's performance goals across scope, schedule, budget, and quality. Use crash data, traffic studies, and real-time tools (INTRIX, RITIS, and applicable traffic operations programs) to evaluate access control impacts on safety, congestion, and corridor performance. Support implementation of corridor strategies including Integrated Corridor Management (ICM), Active Traffic Management (ATM), Traffic Incident Management (TIM), and signal coordination to improve mobility, safety, and system reliability. Collaborate across disciplines, including Environment, Maintenance, and Construction, to develop context-sensitive Functional Design Plans development per the PDN and ensure integration of traffic operations elements. Represent the Department at public meetings, address stakeholder concerns, approve traffic operations deliverables, and proactively manage risks related to safety, compliance, and public impact.

Remain current and engaged on revisions to design codes, standards, procedures, and guidelines related to access control and traffic operations elements, adopt new technologies and best practices that increase safety and mobility

for TDOT's transportation network; assist in implementing policies and procedures related to access control permitting. Assist in implementing a tracking mechanism that ensures the access control program, software, and systems are evolving to meet TDOT's operational needs. Promote the integration of advanced technologies such as connected and autonomous vehicles, smart traffic signals, and real-time data analytics tools into the Region's transportation network. Stay current on FHWA, AASHTO, and peer DOT best practices related to access management, traffic impact analysis, and congestion mitigation while collaborating on innovative strategies to reduce travel time delays, coordinate corridor management, and ensure interoperability of traffic operations technologies.

Assist in developing a Consultant Acquisition Plan (CAP) for Region Traffic Operations services, including supporting RFP development, establishing scoring criteria, attending marketing meetings, participating in project information sessions, serving on technical review committees, and providing actionable feedback during consultant debriefs. Support the development of scopes of services and technical expectations for consultant-led access control reviews, studies, and permit support work aligned with TDOT priorities. Serve on consultant selection panels to ensure access control goals and statewide consistency are reflected in evaluation criteria and award recommendations. Track access permit performance metrics and contributes to continuous, data-driven improvements in access control management practices.

Collaborate with the Region Traffic Operations Manager to assist the TDOT Technical Training Director in developing training focused on access control permitting, incorporating technical criteria, emerging technologies, and traffic operations principles. The training aims to improve team performance, enhance understanding of access control and traffic operations, and promote innovative thinking across the transportation industry. Support the development and delivery of training for internal staff, consultants, and local partners on access control regulations, permit procedures, and design requirements. Foster a culture of continuous improvement by encouraging knowledge sharing and collaboration among internal team members and external stakeholders. Ensure training content aligns with statewide priorities and promotes consistent, compliant access control practices.

Provide exceptional customer service to both internal and external customers by mentoring and providing technical guidance related to access control and traffic operations, coordinating with other disciplines as part of a matrix organization, exercising effective listening skills, providing prompt responses, maintaining complete and accurate documentation, and communicating effectively.

Assist in ensuring access control deliverables are consistent, predictable, and repeatable to maintain consistently high levels of achievement, mitigate risk, and establish a track record of success by implementing statewide policy, data collection, specifications, and direction. Utilize best practices and TDOT policy for the incorporation of traffic operations and maintenance of access control elements, including access to acquired knowledge across the Regions.

Qualifications

- Bachelor's degree in engineering
- Licensed Professional Engineer (PE)
- 4 years of demonstrated competency in developing and/or constructing transportation projects

Ideal Candidate

The Corridor Management Transportation Engineer has a proven traffic operations engineering track record. They foster collaboration and ensure the successful execution of simple and complex projects. The Corridor Management Transportation Engineer is committed to public safety in every aspect of their work. They are strong communicators who can assist with bridging the gap between technical experts and stakeholders. The Corridor Management Transportation Engineer is an effective collaborator committed to working with other team members in their growth and development. They readily share their expertise and passion with their team and keep an eye on the future from a transportation system and workforce perspective. As a mobility leader, they are passionate about ensuring the agency's projects increase safety and travel reliability across TDOT's transportation network.