

# 2019 LOCAL ROAD CORRUGATED METAL PIPE TRAINING

On-site

6 Hours – Road Scholar Credits

**July 17, 2019** (Wednesday) LaMoure County Highway Department, 505 4th Ave SE, LaMoure, ND • 9 a.m. – 4 p.m. CST

**July 25, 2019** (Thursday) Bottineau Highway Department, 314 5th St W, Bottineau ND • 9 a.m. – 4 p.m. CST

**No Registration Fee**

**Class Limit is 30**

**REGISTRATION DEADLINE: LaMoure – July 10, 2019 | Bottineau – July 18, 2019**

**Lunch provided by TrueNorth Steel**

NDLTAP has partnered with TrueNorth Steel to develop a workshop to help county, township and small community personnel learn what it takes to design, install and maintain culverts. Workshop focus areas:

- Pipe sizing – state rules and design methods engineers use to size culverts
- Pipe coating selection – options available
- Pipe length – how to calculate and order
- Pipe performance – review slope, interior, flared ends, outlets, velocity, etc.
- Pipe strength – how soil and pipe strength combine
- Pipe installation – **this is the field portion of the workshop, the hands-on installation of a CMP on a county road** - to cover pipe survey, bedding, pipe placement, pipe backfill, compaction, and pipe collars
- Pipe slip lining – extending pipe life



## Instructors:



Dale Heglund, NDLTAP Program Director, has 40 years of transportation experience ranging from equipment operator to design engineer. His career focus has been to promote a quality roadway network by helping others understand roadway engineering principles, the synergies of working cooperatively with others, leadership skills, and new technology implementation processes.



Rick Lenarz serves as Territory Sales Manager for TrueNorth Steel covering eastern North Dakota and the Red River Valley. Rick has been involved in the civil construction industry for much of his career, working on both the concrete and steel aspects of the business. His current focus is on corrugated steel pipe design, modular bridge installation and bridge rehabilitation.

**Target Audience:** The course is recommended for county, township and small community personnel.

If you have questions about this event contact NDLTAP @ 701-328-9855 [ndltap@ugpti.org](mailto:ndltap@ugpti.org)

If you have a request for an accommodation related to a disability or have special dietary needs, please contact Sandy Baisch at (701) 328-9855 or [sandra.baisch@ndsu.edu](mailto:sandra.baisch@ndsu.edu) at least two working days prior to the event.