

# CLOVERLEAF CORPORATION



NUCOR Cable Barrier



QWICK KURB



BarrierGuard800



TAU-II™ Crash Cushion



QMB



Safe-T-Grip High Friction Surface

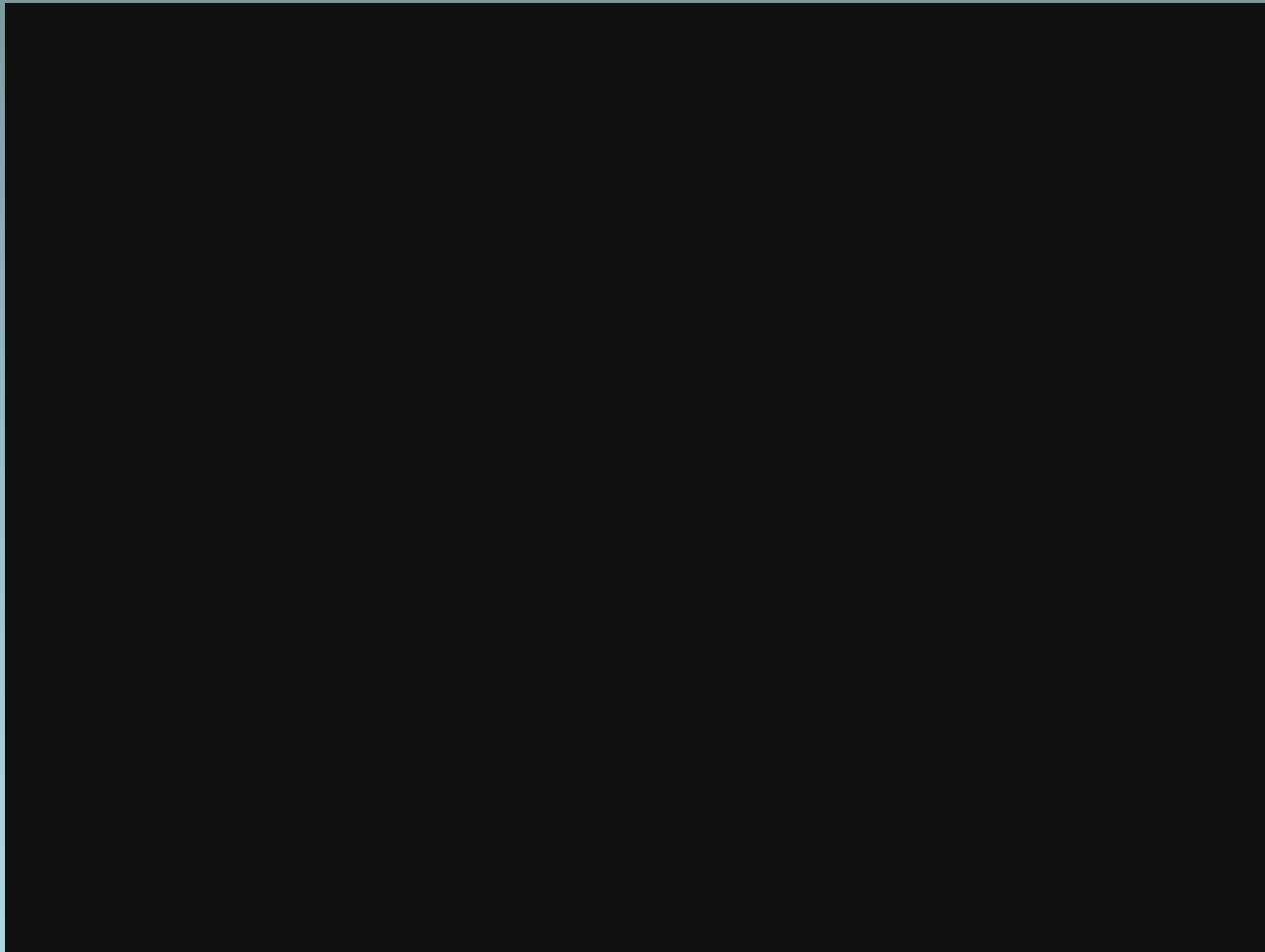




NUCOR High Tension Cable Barrier

**Information in this presentation is specific to the NUCOR high tension barrier system.**

The Nucor high tension cable barrier is installed in the median on I-75 in Manatee, Sarasota and Charlotte counties.



**Cable Barriers Have Been Saving Lives  
Since the 1930s**



## Crash Tested

By Texas Transportation Institute (TTI)



# Typically Minor Damage to Impacting Vehicles



# Two Major Components



Cable & Posts

# Cables

- Uses standard  $\frac{3}{4}$ " 3-strand braided steel cables that has been pre-tensioned
- Tensioned to 6,000 lbs after installation.
- Weight – 0.857 lbs/FT

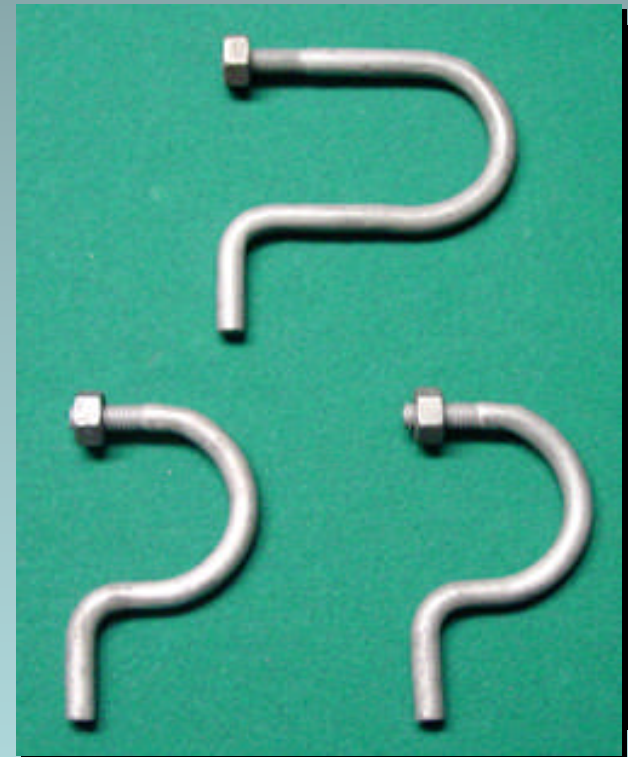




- Top Cable – 29.5” from ground
- Middle Cable – 25.5” from ground
- Bottom Cable – 21.5” from ground



# Posts



U Channel steel post weighs about 16 lbs.  
Three locking Hook Bolts attach cable to post



# Posts

- Posts are slipped inside a steel tube that is encased in concrete
- Posts are spaced 16' on center.



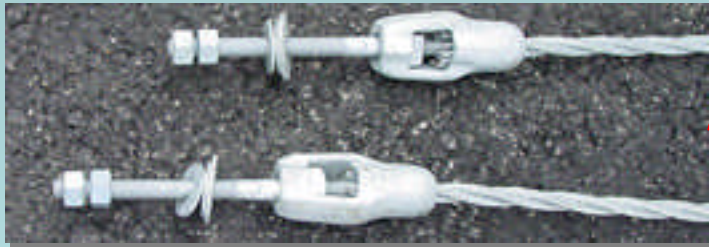


# Relaxing Tension



- Tension can be relaxed by unwinding turnbuckles/cable ends to their maximum length.

# Turnbuckle & Cable End



# Relax Tension

- In emergency situation, the CRPs can be longitudinally run over (slowly) with a truck. The CRPs will simply lay down and release the tension. The CRP posts can be reused.















The tension has been relaxed, but the cables are still hanging on the posts. The posts can be removed from their sockets.



# Cutting cable in an Emergency

- Recommended to relax tension first if possible. A vehicle trapped in the cable can create higher than normal tensions.
- Use abrasive wheel saw
- Ensure no one is near the cutting point, both upstream and down stream
- The locking Hook Bolts will help keep the cable from whipping great distance. If possible, the cable can be clamped to the hook bolts

[Cable\\_Cutting \(2\).wmv](#)



Why isn't the cable laying on the ground?



- To get 2' slump in cables from gravity:
  - @ 5,600 lbs tension – 330' unsupported cable  
(approx 21 posts)
  - @ 850 lbs tension – 129' unsupported cable  
(approx 8 posts)

# Repairing a cut cable







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