

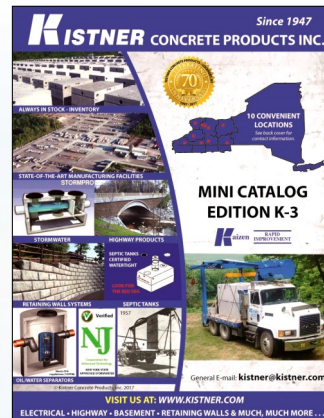
ENGINEERING NEWSLETTER

MARCH 2019
VOL. 3 ISSUE 4

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GRISWOLD RD. BOX CULVERT REPLACEMENT

The project site was prepared by Accadia Site Contracting, requiring a 18" thick Sub-footer of Controlled density fill between the precast cut off wall due to low bearing capacity of the site soils.

Culvert Installation started on 7-12-18 @ 7:35 am and first two 30 ton Box Culvert units were set by 8:00 am. Setting continues with final wingwall section set at 1:30pm.

[Click Here](#) to view the
Installation video



Get the Precast Advantage!

*All 13 approximately 21 - 30 Ton sections set
under 6 hours!*

Kistner will typically supply rigging to insure safe and proper install. An area typically overlooked and not planned for on many projects. For this project we supplied an equalizing mini-beam. The sling was split into two, making two two-way equalizing slings. By doing this, we ensured each of the 4-individual hookups received the exact same load. It is important that Precasters, General Contractor and Rigger take the responsibility to properly design and supply a lift layout that meets all OSHA safety requirements. This keeps all parties involved safe.

GRISWOLD RD. BOX CULVERT REPLACEMENT

Project: Griswold Rd. Road Box Culvert Replacement – Bid 1 -25 -18

Location: Town of Royalton, NY

Owner: Niagara County DPW

Engineer: Wendel Engineers - Michael Barrett Jr. - PE - Project Engineer.

Site Inspection: JMDavidson Engineering., D.P.C. - Michael D. Davidson, PE

Contractor: Accadia Site Contracting Acc.# 60269 - Paul Marinaccio – Pres

Manufacturer: Kistner Concrete Products Inc. Lockport, NY - Shawn M. D'Angelo, PE
- Project Engineer

Kistner's Lockport Manufacturing facility is a state of the art NPCA certified Precast plant

NYSDOT - Approved List Manufacturer

Top 10 Nationally 5 years running.

Product Designation: Precast Concrete Box Culvert 20'-0" Span x 8'-0" Rise

7 - 29.5 Ton @ 6.25' long Culvert Sections w/ 12" Top

Base & Wall thickness w/ Tung & groove 4" lip sections.

2 - Precast Tow Walls: 22'-0" w x 18" thick x 3' tall @ 7.5 Tons ea.

2 – Precast Detached slopping Headwalls

4 – Big Precast Cantilever Wing Walls Unit - Avg. of 21 tons each
with 3' toe & 6' Heal requirement due to poor soils.



PIPE END SECTIONS

NYSDOT - 706-07 Reinforced Precast Concrete Pipe End Section – “PES”

Scope: This specification the material and fabrication requirements for precast concrete reinforced pipe end sections.

Material Requirements: The Material Requirements contained in 704-03 shall apply.

Drawings: The drawing requirements contained in 704-03 shall apply. PES – Shall be constructed per attached plans and attached drawings.

Fabrication: The fabrication requirements contained in 704-03, along with the following shall apply. Reinforcement and Permissible Variations shall meet the requirements of ASTM C478.

Sampling & Testing: The sampling & testing requirements contained in 704-03 shall apply, unless otherwise approved by Director, Materials Bureau, EIC, or Owner.

Marking: The marking requirements contained in 704-03 shall apply.

Final production Inspection: The Final production Inspection requirements contained in 704-03 shall apply, unless otherwise approved by the Director, materials Bureau, EIC, or Owner.

Shipping: The Shipping requirements contained in 704-03 shall apply, unless otherwise approved by the Director, materials Bureau, EIC, or Owner.

Basis of Acceptance: The Basis of Acceptance requirements contained in 704-03 shall apply, unless otherwise approved by the Director, materials Bureau, EIC, or Owner.

To view the Pipe End Section Specification

[Click Here](#)



BOX CULVERTS TYPES



BOX CULVERT WING WALLS

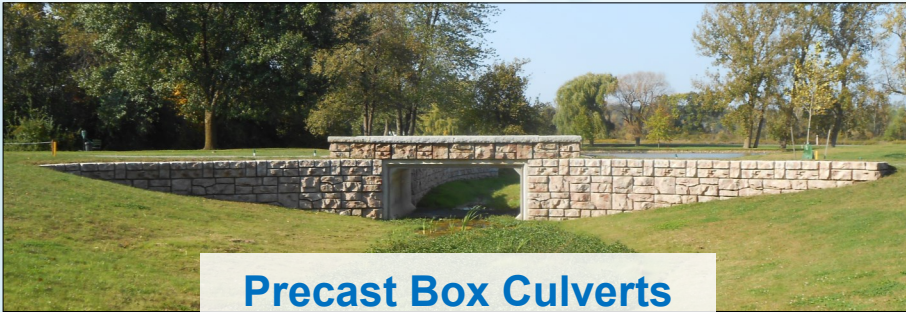
GRAVIX

DOT Precast Wall System



Twin Box culvert with Gravix wing walls

REDI-ROCK®



Precast Box Culverts with Redi-Rock wing walls



HUMBLE BEGININGS IN 1947

**William G. Kistner
and one of
Kistner's first
septic tank A-frame
trucks**



**Burial Vault
Manufacturing on
Genessee St. 1953**



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