DC1 = SELF-WEIGHT OF FACE PANEL
DC2 = SELF-WEIGHT OF BASE SLAB
DC3 = SELF-WEIGHT OF COUNTERFORTS
EV4 = VERTICAL EARTH LOAD ON THE BASE HEEL
EV5 = VERTICAL EARTH LOAD ON THE BASE TOE
EH = HORIZONTAL EARTH PRESSURE
TP = HORIZONTAL TRACK PRESSURE
q = VERTICAL TRACK PRESSURE
R = RESULTANT OF VERTICAL LOADS
a = ECCENTRICITY OF RESULTANT
q_u_bearing = EQUIVALENT BEARING PRESSURE FROM R DISTRIBUTED OVER EFFECTIVE AREA

q = 1,882 PSF (PER TRACK)
Patent-Pending Counterfort Wall System - Illustration 2

**Typical Counterfort Section**

- **Face Formliner Textured Surface**
- **GEOComposite Wall Drain** (see general design for other drainage options)
- ** Existing Backfill, Typ**
- **Counterfort**
- **High Strength Grout Bed**
- **GROUT Ports, Typ**
- **Lifting Insert, Typ**
- **Base**
- **Headed Bar Anchor in Base**
- **Tapered Block-Out in High Strength Grout, Typ**
- **Counterfort Shm, Typ**
- **Bottom Shear Keyway, Typ**
- **Face Shear Key**
- **Low Strength Grout Bed**

**NOTES**

- Hole through face for drainage (as required)
- 1/4" hole and drainage course behind wall
- Properly finished course will distribute water at side of wall with drain tile above required through/trench for drainage
- Opening & Counterfort for subsurface
- Continue geocomposite, filter fabric, and drainage course up to face of wall. At bottom of geocomposite, cut & remove edge flush against back face of panel

**Legend**

- **TIFACE**
- **TYW Inline of Levee**
- **TBASE**

**Distance**

- Identification per contract, contract specific design to be completed based on onsite information.

**Additional Details**

- 2495 W. Bungalow Road, Morris, Illinois 60450
- www.elevateinfrastructure.com
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