

E.F. INDICATES EACH FACE.
N.F. INDICATES NEAR FACE.
F.F. INDICATES FAR FACE.

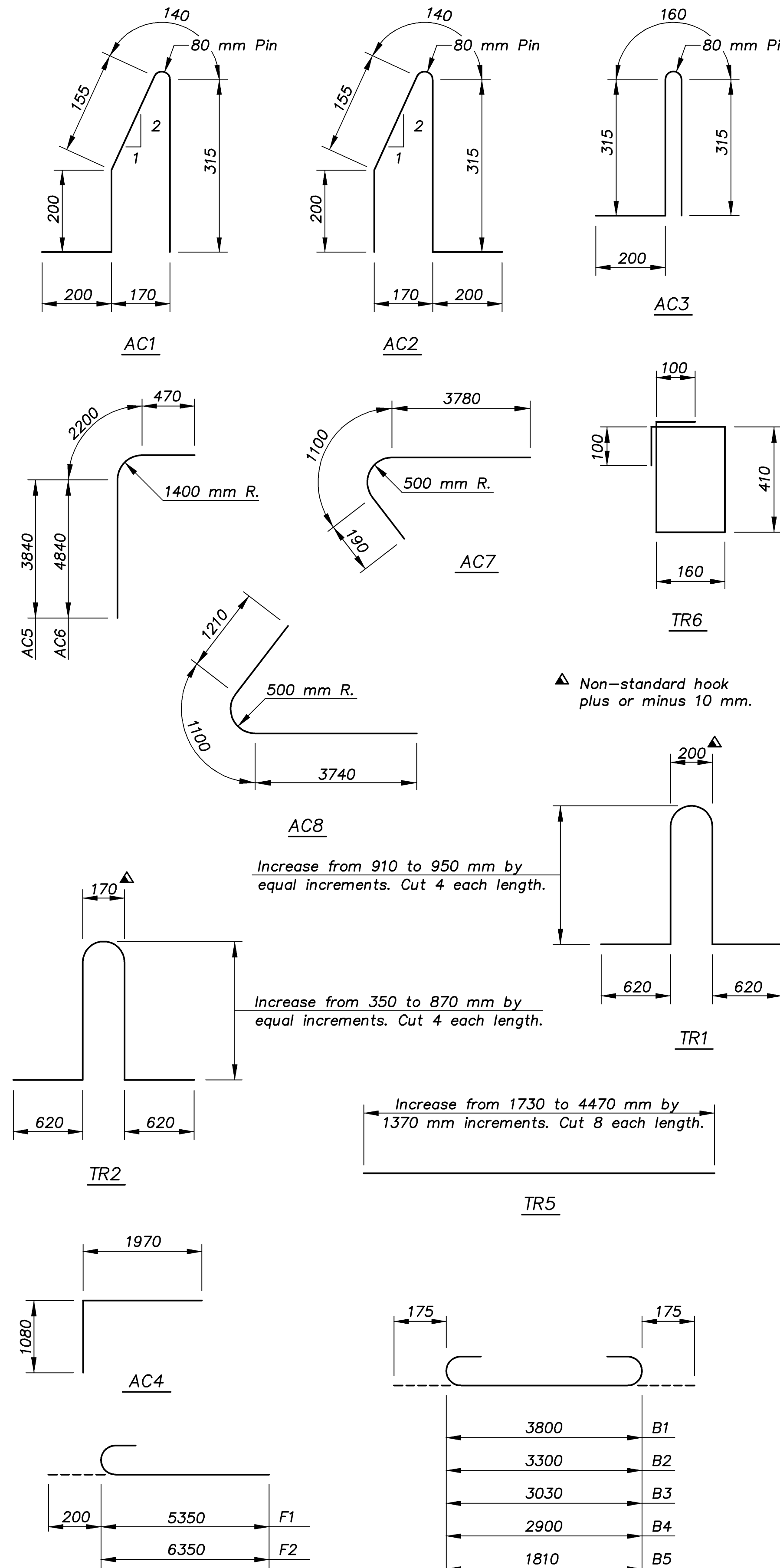
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|--------|-----------------|------|-----------|--------------|
| STATE | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | 54-87 K-8258-01 | 2007 | 72 | 556 |

BILL OF REINFORCING STEEL

| MARK | STRAIGHT BARS | | | BENT BARS | | | LENGTH |
|------------------------|---------------|-----|--------|-----------|------|-----|--------|
| | SIZE | NO. | LENGTH | MARK | SIZE | NO. | |
| TR3 | 22 | 2 | 4950 | TR1 | 22 | 8 | Varies |
| TR4 | 16 | 4 | 4920 | TR2 | 22 | 30 | Varies |
| TR5 | 16 | 12 | Varies | AC1 | 13 | 42 | 1010 |
| AC9 | 13 | 2 | 5410 | AC2 | 13 | 36 | 1010 |
| | | | | AC3 | 13 | 36 | 1060 |
| | | | | AC5 | 13 | 2 | 6510 |
| | | | | AC7 | 13 | 2 | 5070 |
| | | | | TR6 | 10 | 24 | 1340 |
| "FOR INFORMATION ONLY" | | | | | | | |
| E1 | 19 | 140 | 900 | F1 | 19 | 487 | 5550 |
| E2 | ** | 7 | 900 | | | | |
| A1 | 16 | 256 | 5350 | B1 | 16 | 36 | 4150 |
| C1 | 16 | 24 | 3800 | B2 | 16 | 288 | 3650 |
| C2 | 16 | 192 | 3300 | B3 | 16 | 18 | 3380 |
| C3 | 16 | 12 | 3030 | B4 | 16 | 18 | 3250 |
| C4 | 16 | 12 | 2900 | B5 | 16 | 36 | 2160 |
| C5 | 16 | 24 | 1810 | | | | |
| "FOR INFORMATION ONLY" | | | | | | | |
| E1 | 19 | 180 | 900 | F2 | 19 | 487 | 6550 |
| E2 | ** | 9 | 900 | | | | |
| A2 | 16 | 256 | 6350 | B1 | 16 | 44 | 4150 |
| C1 | 16 | 30 | 3800 | B2 | 16 | 352 | 3650 |
| C2 | 16 | 240 | 3300 | B3 | 16 | 22 | 3380 |
| C3 | 16 | 15 | 3030 | B4 | 16 | 22 | 3250 |
| C4 | 16 | 15 | 2900 | B5 | 16 | 44 | 2160 |
| C5 | 16 | 30 | 1810 | | | | |

** 19 mm dia. smooth bar.

BENDING DIAGRAMS
NOTE: All dimensions are out to out of bars.



APPROACH SLAB NOTES

Special Concrete Bridge Approach shall be paid for as square meters of Concrete Pavement (300 mm Uniform)(AE) and includes all work and materials required to construct the Approach Slab as shown.

All work and materials required for installation of Expansion Joints and construction of Wheelchair Ramps shall be Subsidiary to the bid item Concrete Pavement (300 mm Uniform)(AE).

Barriers, Curbs and Bedding for Brick Paving to be paid for as Concrete and Reinforcing Steel. Paving Bricks shall be included in the Roadway Quantities for payment.

Concrete in Wheelchair Ramps and Curbs poured monolithically with the Approach Slab to be same Grade of Concrete as Approach Slab. Barrier Transition Rail, Curbs and Base under Brick Paving shall be Concrete (Grade 31)(AE)(SF).

Unit Stresses:
Concrete (Grade 31)(AE) $f'c = 31 \text{ mpa}$
Reinforcing Steel (Grade 420) $fy = 420 \text{ mpa}$

Bevel all exposed Concrete edges with a 20 mm Triangular Molding, unless otherwise noted on the Plans. All formed joints shall be edged with a 6 mm radius edging tool for the length of the joint.

All dimensions relative to the placement of the Reinforcing Steel are to the centerline of bars unless otherwise noted. All Reinforcing Steel shall conform to the requirements of A615M-96, Grade 420. All Reinforcing Steel shall be coated with Epoxy as set forth in the KDOT Standard Specifications, 1990 Edition. All bar supports shall be coated.

The clearance from the face of Concrete to Reinforcing Steel shall be 50 mm, except as shown.

SUMMARY OF QUANTITIES - Br. No. 54-87-31.12(702)

| Item | Units | Abut. No. 1 | Abut. No. 2 | Totals |
|---|-------|-------------|-------------|--------|
| Concrete Pavement (300 mm)(AE) | sq m | 393.6 | 465.6 | 859.2 |
| Concrete (Grade 31)(AE) | cu m | 10.0 | 12.2 | 22.2 |
| Reinforcing Steel (Grade 420) (Epoxy Coated) | kg | 600 | 700 | 1300 |
| Items Subsidiary to the bid item Concrete Pavement (300 mm)(AE) (For information only) | | | | |
| Reinforcing Steel (Grade 420) (Epoxy Coated) | kg | 11 930 | 14 310 | 26 240 |
| 13 mm Expansion Joint Material | m | 160.8 | 163.7 | 324.5 |

1:100
ROCK/APPROACH

| | | |
|---|-------|---|
| KANSAS DEPARTMENT OF TRANSPORTATION | | CFS Cook, Flatt & Strobel ENGINEERS, P. A. |
| BR. NO. 54-87-31.12(702) STA. 3+877.518 | | |
| SPECIAL CONCRETE APPROACH PAVEMENT | | |
| ROCK ROAD OVER KELLOGG AVENUE | | |
| Proj. No. 54-87 K-8258-01 | | SEDGWICK COUNTY |
| DESIGNED R.S.C. | SCALE | |
| DETAILED T.R.G. | DATE | |
| QUANTITIES T.R.G. | SHEET | 5 OF 5 |