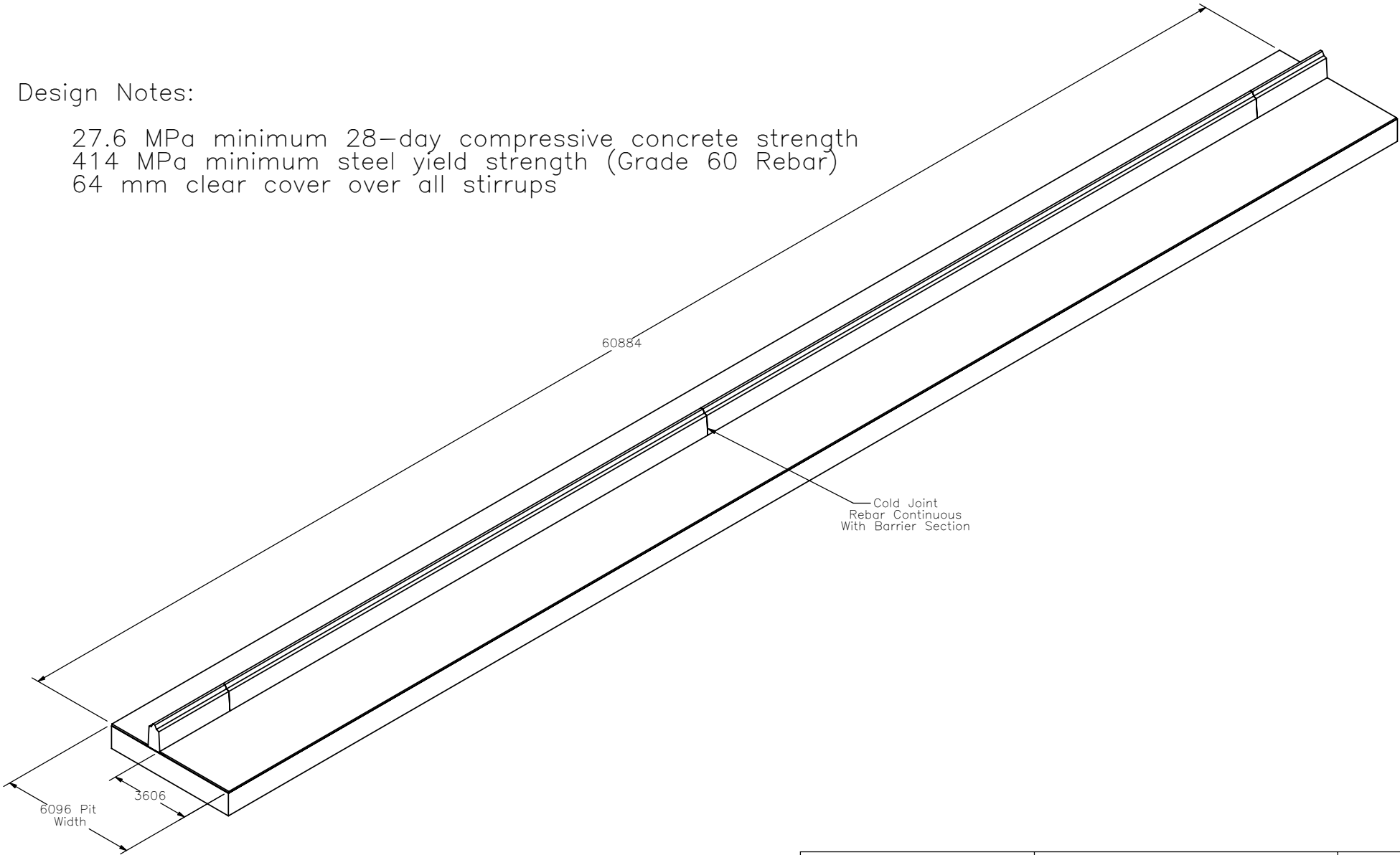


Design Notes:

- 27.6 MPa minimum 28-day compressive concrete strength
- 414 MPa minimum steel yield strength (Grade 60 Rebar)
- 64 mm clear cover over all stirrups



Cold Joint
Rebar Continuous
With Barrier Section

- NOTE:
- (1) Asphalt wearing surface is flush with concrete mat
 - (2) 25 mm gap located between downstream end of barrier and concrete mat
 - (3) 51 mm gap located between upstream end of barrier and concrete mat
 - (4) Cold joint located 28.6 m from end of barrier
 - (5) Impact location is 9.1 m downstream of the upstream end of the barrier



Midwest Roadside
Safety Facility

TL-5 Concrete Median Barrier
System Layout

DWG. NAME:
TL-5_Median_Barrier_R9-metric

SCALE: None
UNITS: mm

SHEET:
1 of 5
DATE:
4/12/2007
DRAWN BY:
CSS
REV. BY:
KAP, RKF



381
End Section
Transition Lap
Length

457

No. 4
Longitudinal
b1

No. 5
Vertical
Stirrups
b2

No. 4
Vertical Dowels
b3

1372

305

305

No. 6
End Section
Stirrups
c2

Soil Foundation

DETAIL C

Midwest Roadside
Safety Facility

TL-5 Concrete Median Barrier

DWG. NAME.

TL-5_Median_Barrier_R9-metric

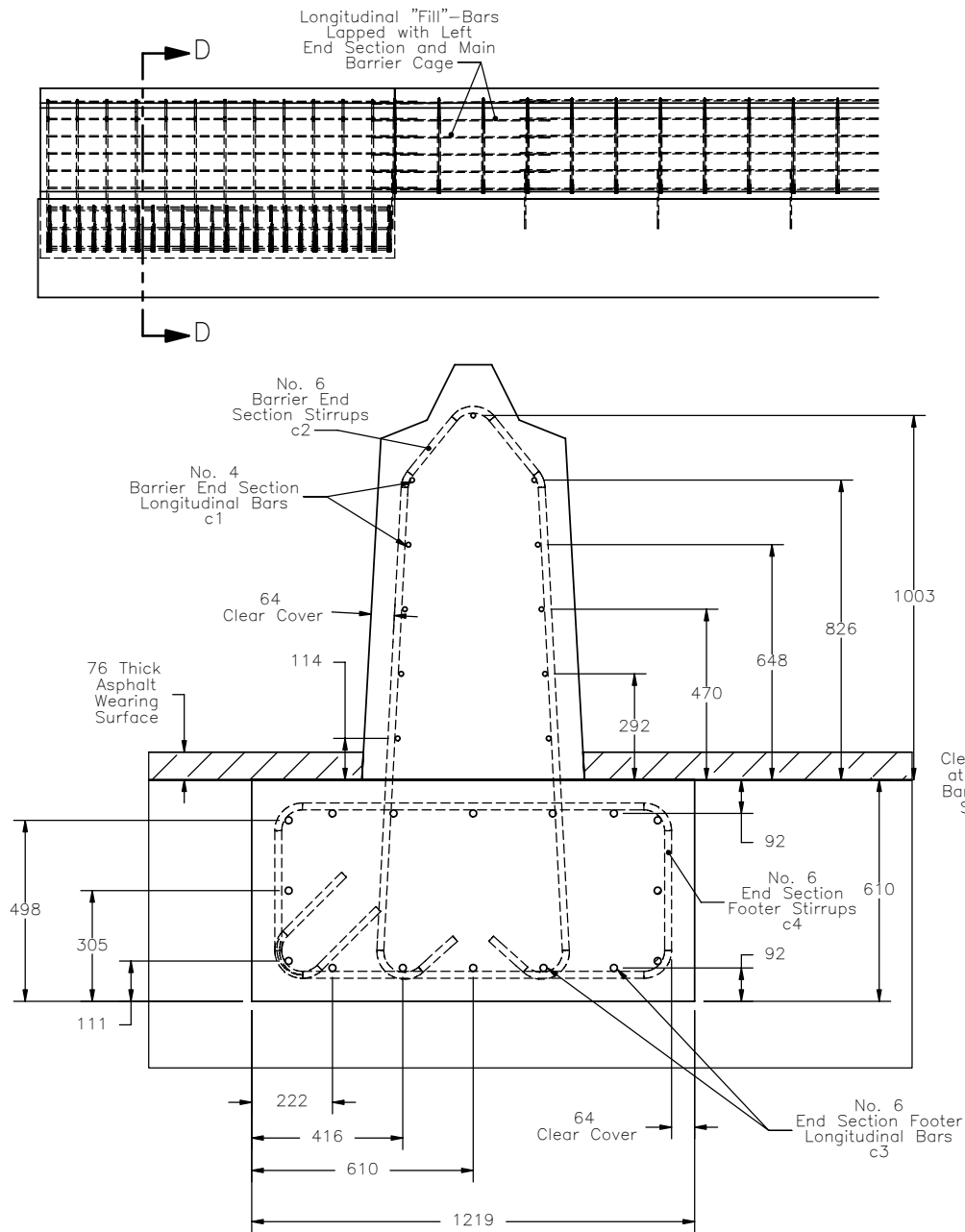
SCALE: None

UNITS: mm KAP. RKF

SHEET:
2 of 5

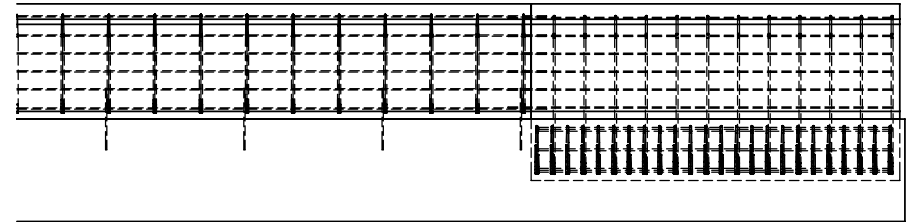
DATE:
4/12/2007

DRAWN BY:
CSS



NOTE: A 610 wide x 610 deep envelope of 350 soil fill surrounds both footers on all sides
A 3658 long x 1219 wide x 152 deep aggregate 350 soil fill pad is located directly beneath the footer

SECTION D-D
End Section
Scale 1:20



PLAN VIEW
Left End Section
Scale 1:40



Midwest Roadside
Safety Facility

TL-5 Concrete Median Barrier

End Section
Details

DWG. NAME.

TL-5_Median_Barrier_R9-metric

SCALE: None

UNITS: mm

SHEET:

3 of 5

DATE:

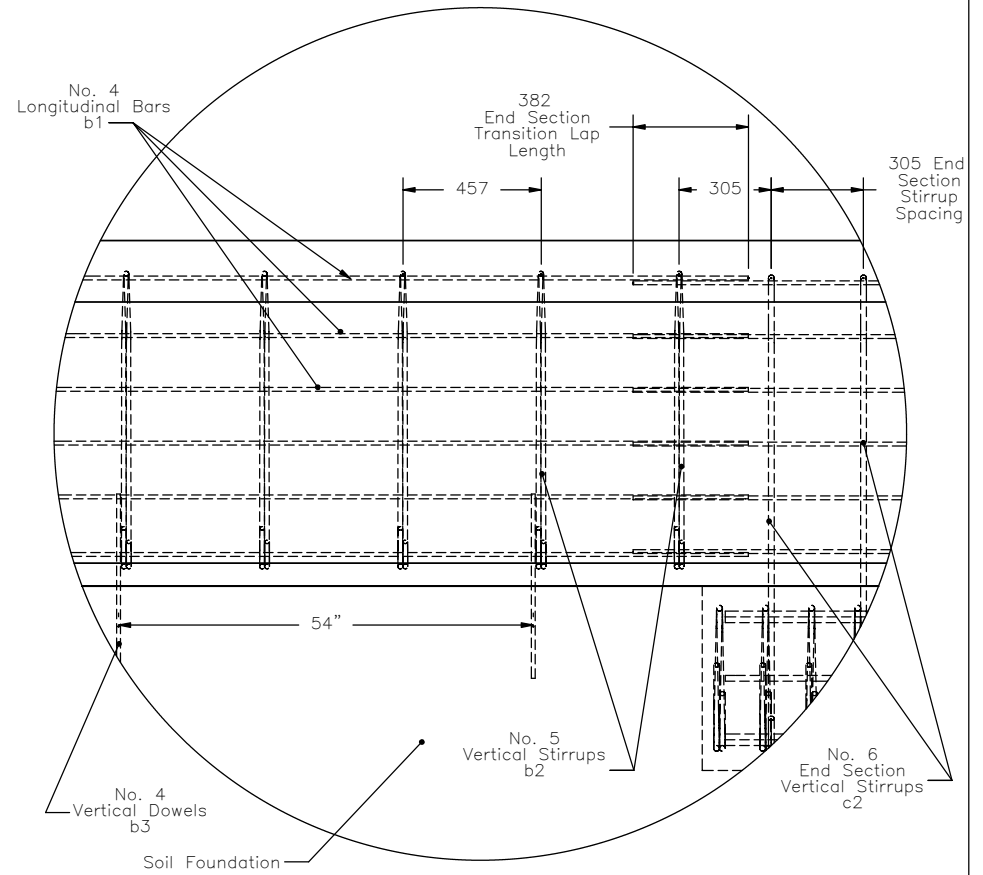
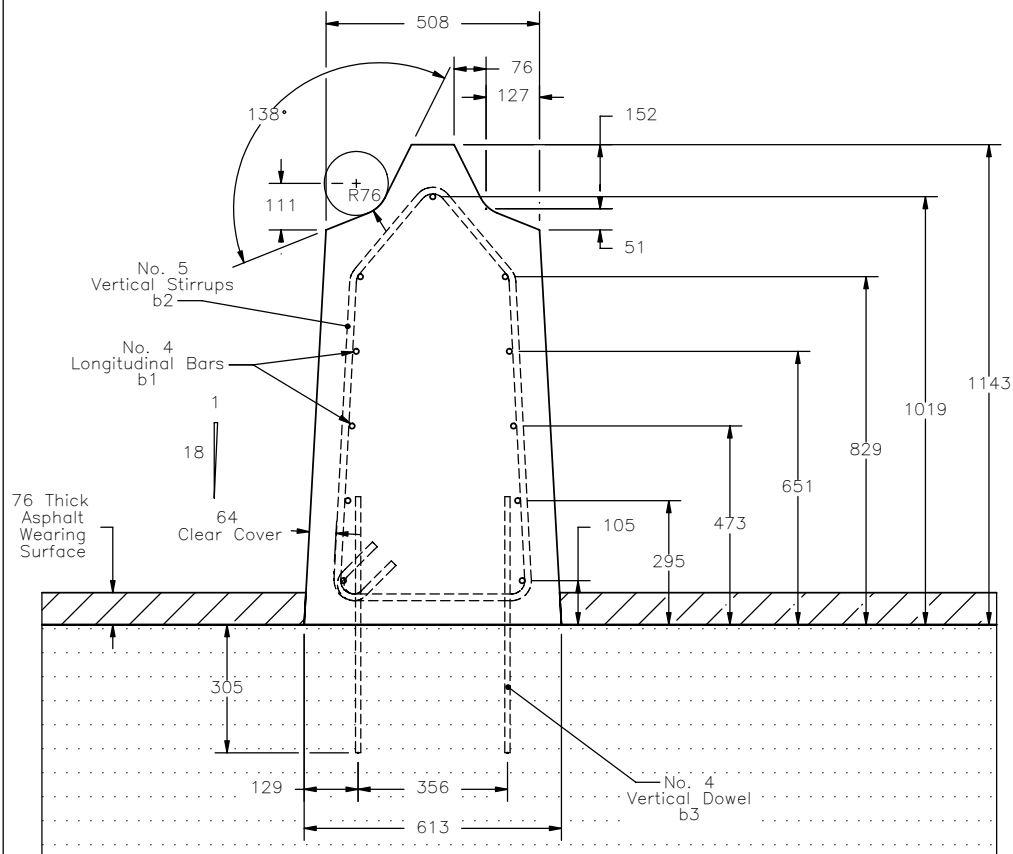
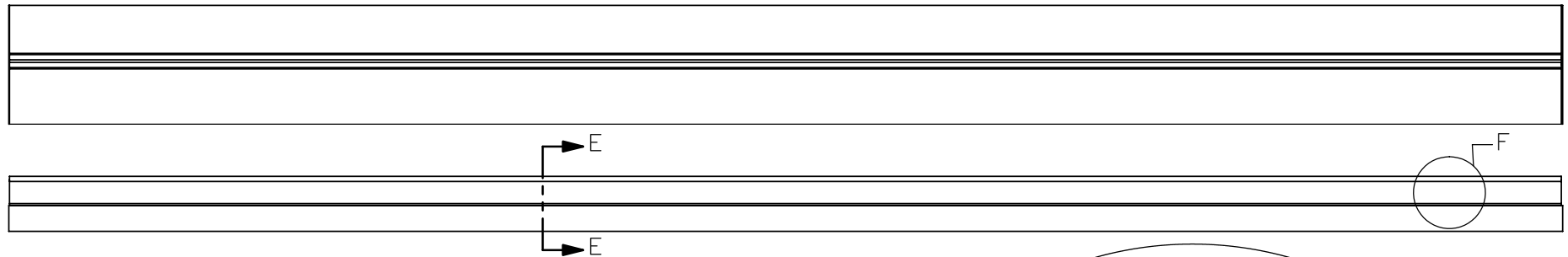
4/12/2007

DRAWN BY:

CSS

REV. BY:

KAP, RKF



Midwest Roadside
Safety Facility

TL-5 Concrete Median Barrier

Slip Form Details

DWG. NAME.
TL-5_Median_Barrier_R9-metric

SCALE: None
UNITS: mm

SHEET:
4 of 5

DATE:
4/12/2007

DRAWN BY:
CSS

REV. BY:
KAP, RKF

TL-5 Single-Slope Median Barrier - Bar Details						
Item No.	QTY.	Pin Diameter (mm)	Length (mm)	Material Spec	Bar Size	Description
b1	99	—	6096	Grade 60 Steel	No. 4	Longitudinal Bar, 11 per Section
b2	118	64	2832	Grade 60 Steel	No. 5	Vertical Stirrup
b3	80	—	610	Grade 60 Steel	No. 4	Vertical Dowel
b4	11	—	Not Less Than 1829	Grade 60 Steel	No. 4	Longitudinal "Fill" Bar, spliced with Left End Section and with remaining length of barrier section to close cage
c1	22	—	3810	Grade 60 Steel	No. 4	End Section Longitudinal Bar, 11 per End Section
c2	24	114	3734	Grade 60 Steel	No. 6	End Section Stirrup
c3	32	—	3505	Grade 60 Steel	No. 6	End Section Footer Longitudinal Bar, 16 per End Section
c4	48	114	3581	Grade 60 Steel	No. 6	End Section Footer Stirrup

Vertical Stirrup
Part b2

End Section Stirrup
Part c2

Vertical Dowel
Part b3

End Section Footer Stirrup
Part c4

Longitudinal Bar
Part b1

End Section Longitudinal Bar
Part c1

End Section Footer Longitudinal Bar
Part c3

Longitudinal "Fill" Bar
Part b4

Midwest Roadside Safety Facility

TL-5 Concrete Median Barrier		SHEET: 5 of 5
Bill of Bars		DATE: 4/12/2007
DWG. NAME: TL-5_Median_Barrier_R9-metric		DRAWN BY: CSS
SCALE: 1:24 UNITS: mm		REV. BY: KAP, RKF