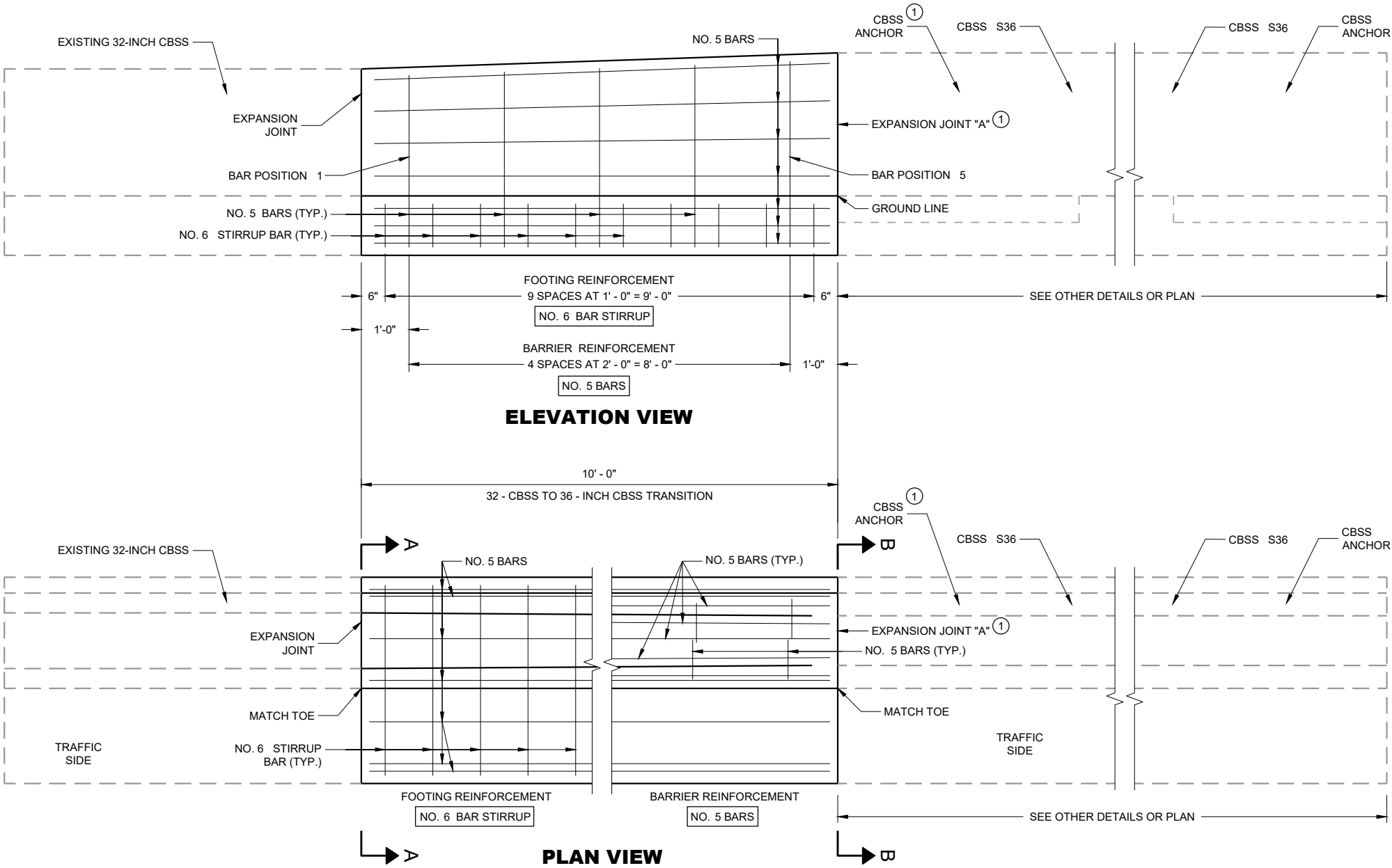


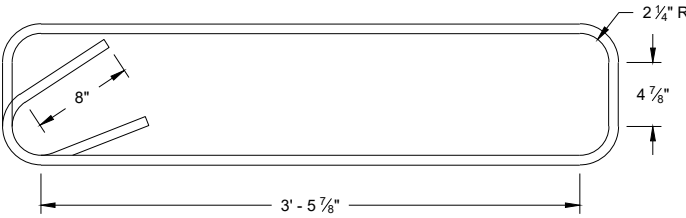


# SDD 14B39-a 32" Single Slope Concrete Barrier to 36" Single Slope Concrete Barrier Height Transition

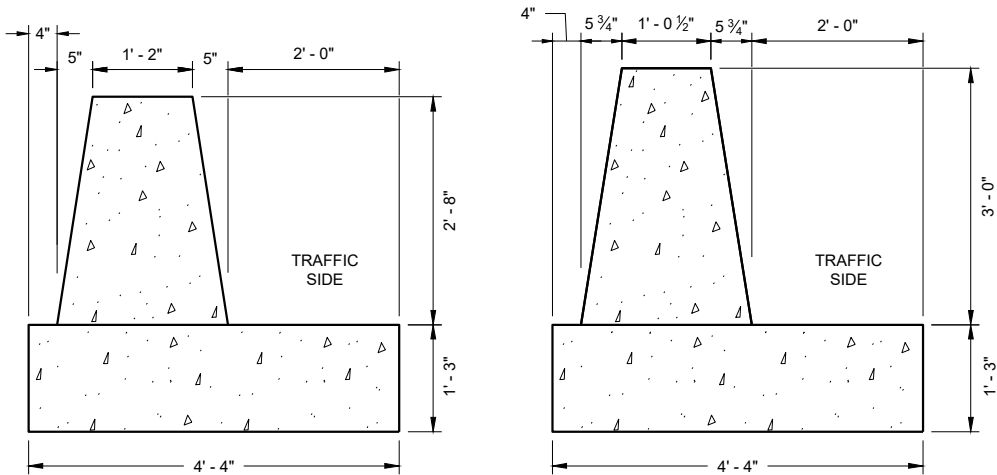


### GENERAL NOTES

- CONSTRUCT PER STANDARD SPECIFICATION 603.
- SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.
- 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.
- USE 3/4" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
- THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.
- 2" CLEAR COVER TYPICAL.
- ① EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD JOINT IS USED, ANCHOR IS NOT REQUIRED.

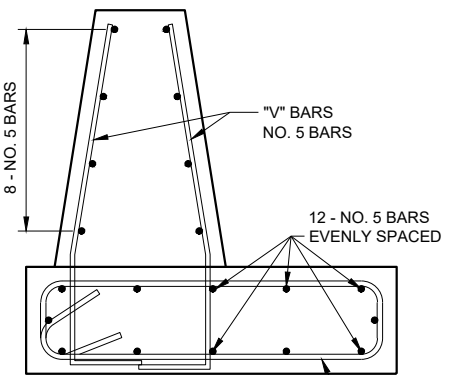


STIRRUP BAR BENDING DETAIL



SECTION A - A

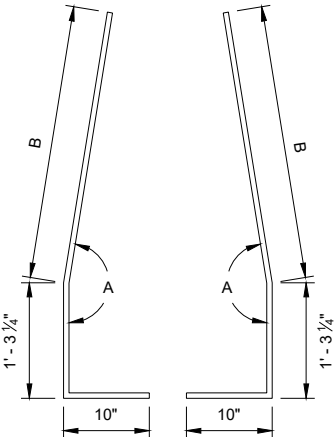
SECTION B - B



BAR DETAIL  
BAR POSITIONS V1 - V5

### BAR CHART BAR POSITIONS V1 - V5

BAR	A	B
V1	170°	2' - 4"
V2	170°	2' - 5 1/4"
V3	170°	2' - 6 1/4"
V4	170°	2' - 7"
V5	170°	2' - 7 3/4"



BENDING DETAIL  
FOR BARS V1 - V5

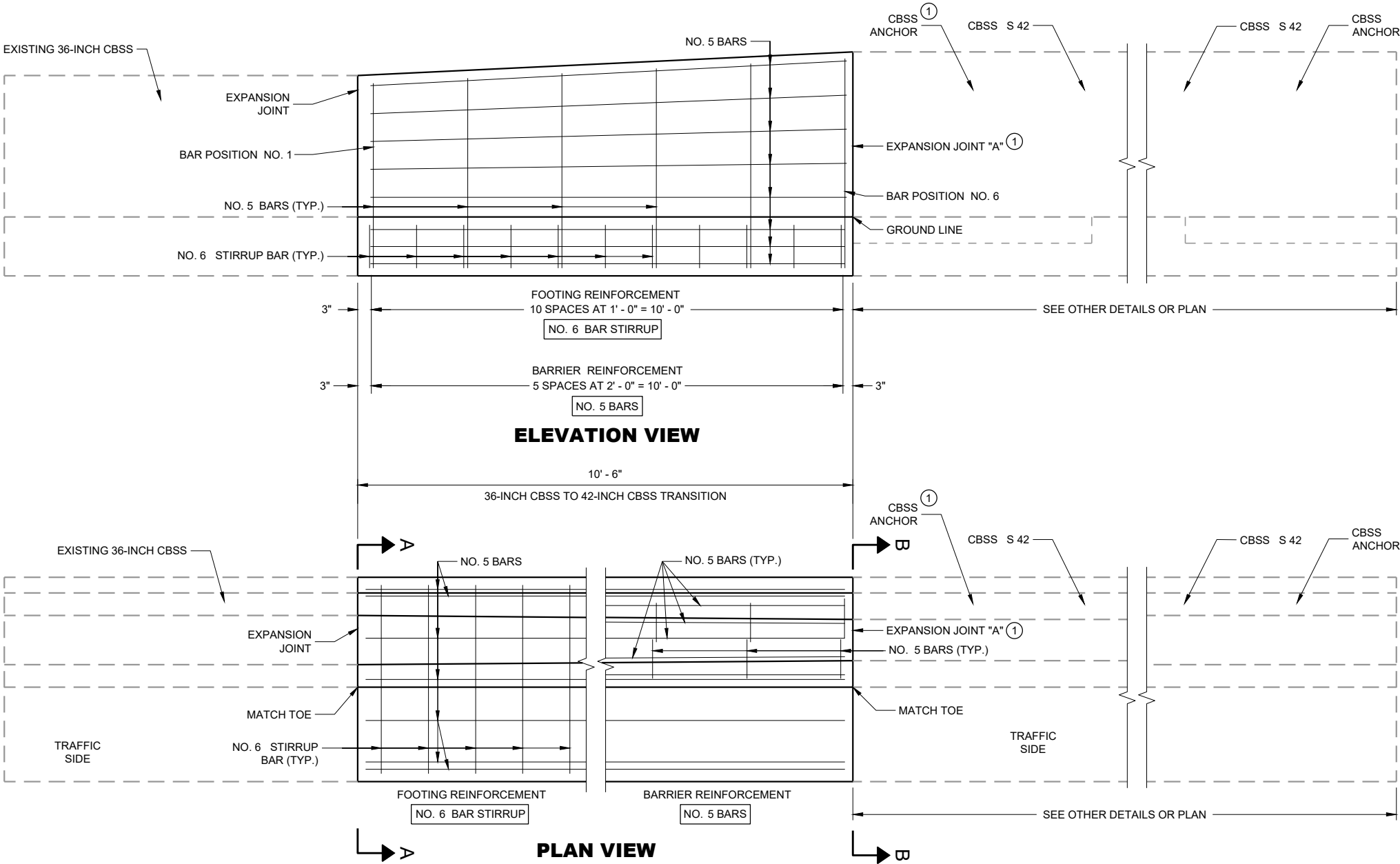
### 32" SINGLE SLOPE CONCRETE BARRIER TO 36" SINGLE SLOPE CONCRETE BARRIER HEIGHT TRANSITION

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2020  
DATE  
/S/ Rodney Taylor  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER  
FHWA



# SDD 14B39-b 36" Single Slope Concrete Barrier to 42" Single Slope Concrete Barrier Height Transition



## GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.

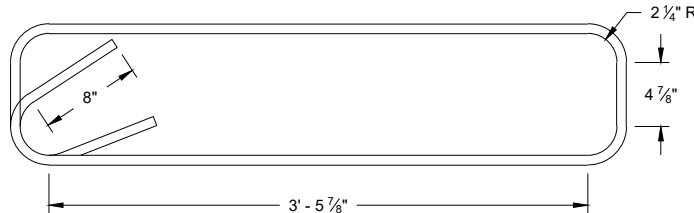
4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE 3/4" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

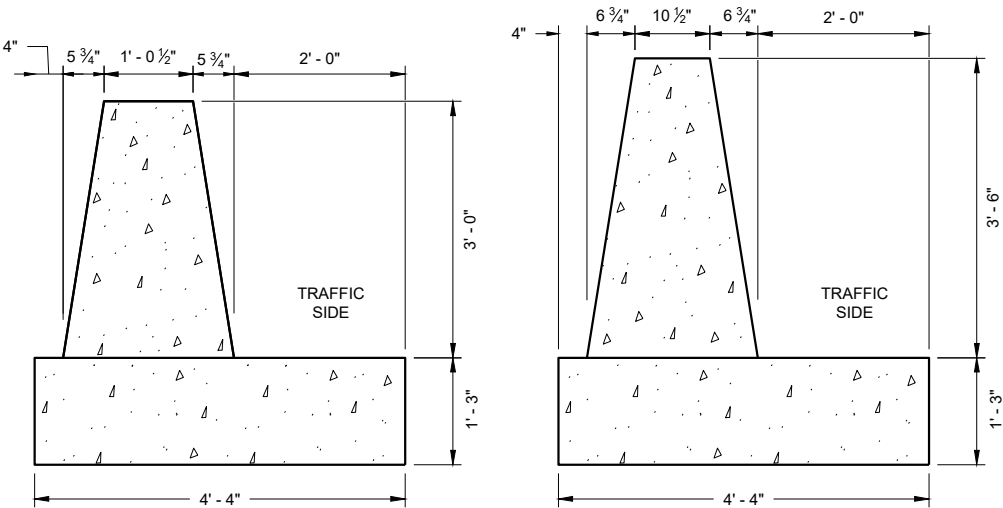
THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

① EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD JOINT IS USED, ANCHOR IS NOT REQUIRED.

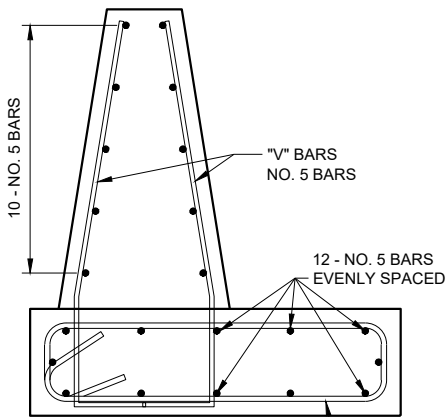


**STIRRUP BAR BENDING DETAIL**



**SECTION A - A**

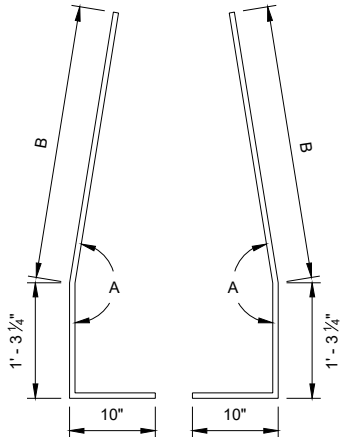
**SECTION B - B**



**BAR DETAIL  
BAR POSITIONS V1 - V6**

## BAR CHART BAR POSITIONS V1 - V6

BAR	A	B
V1	170°	2' - 7 1/2"
V2	170°	2' - 9"
V3	170°	2' - 9 3/4"
V4	170°	2' - 11 1/4"
V5	170°	3' - 0 1/2"
V6	170°	3' - 2"



**BENDING DETAIL  
FOR BARS V1 - V6**

## 36" SINGLE SLOPE CONCRETE BARRIER TO 42" SINGLE SLOPE CONCRETE BARRIER HEIGHT TRANSITION

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

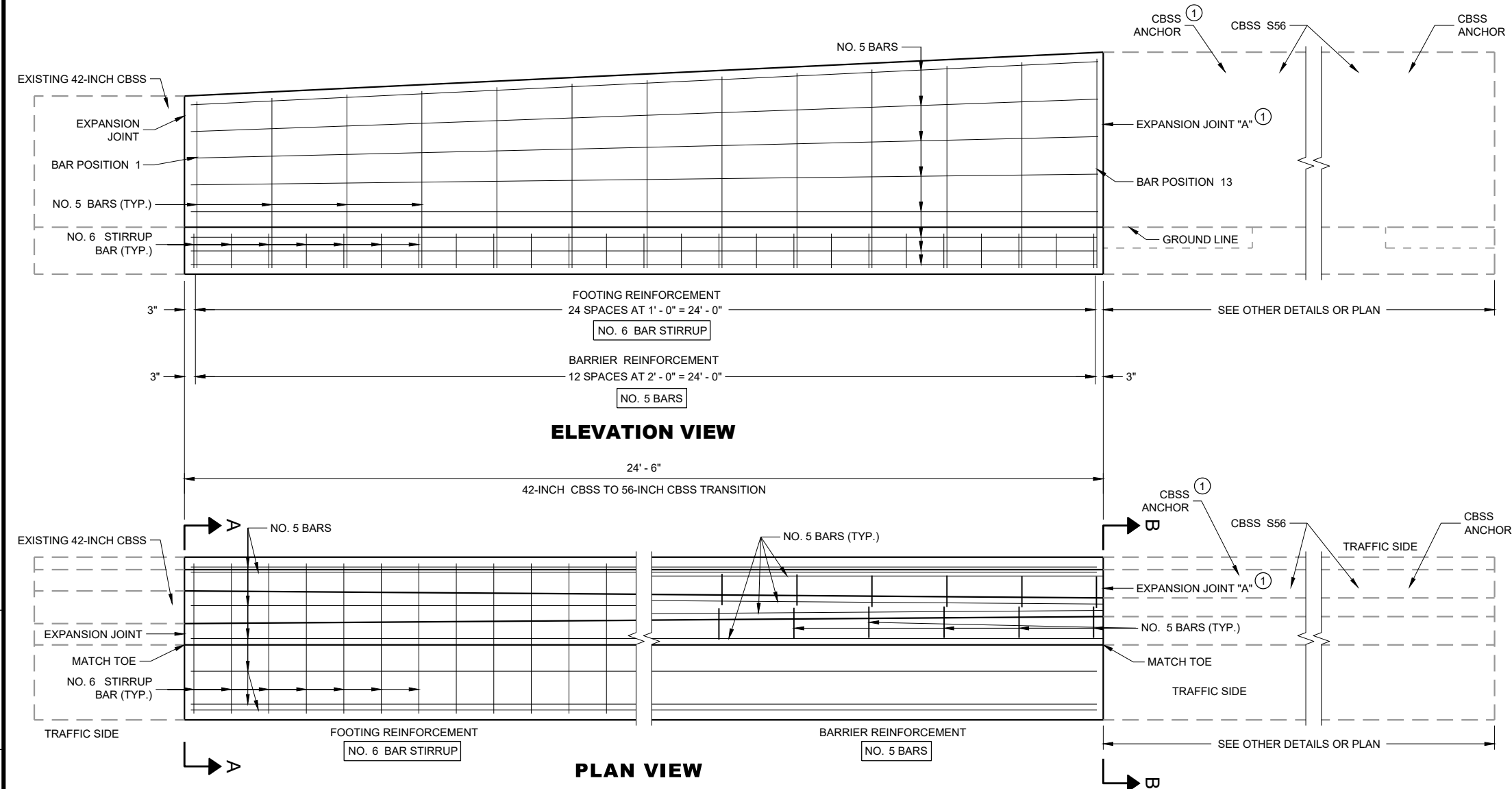
APPROVED  
February 2020  
DATE

FHWA

/S/ Rodney Taylor  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER

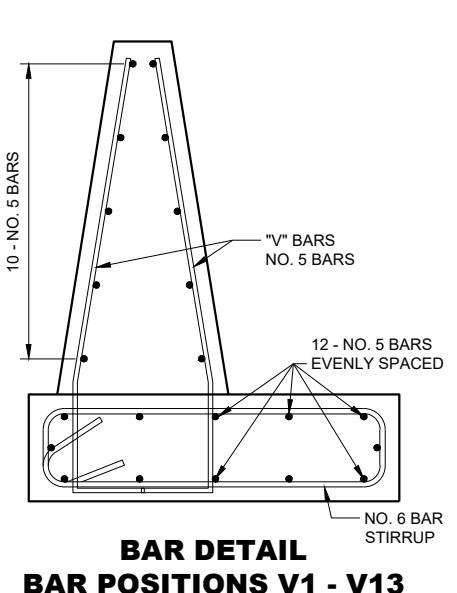
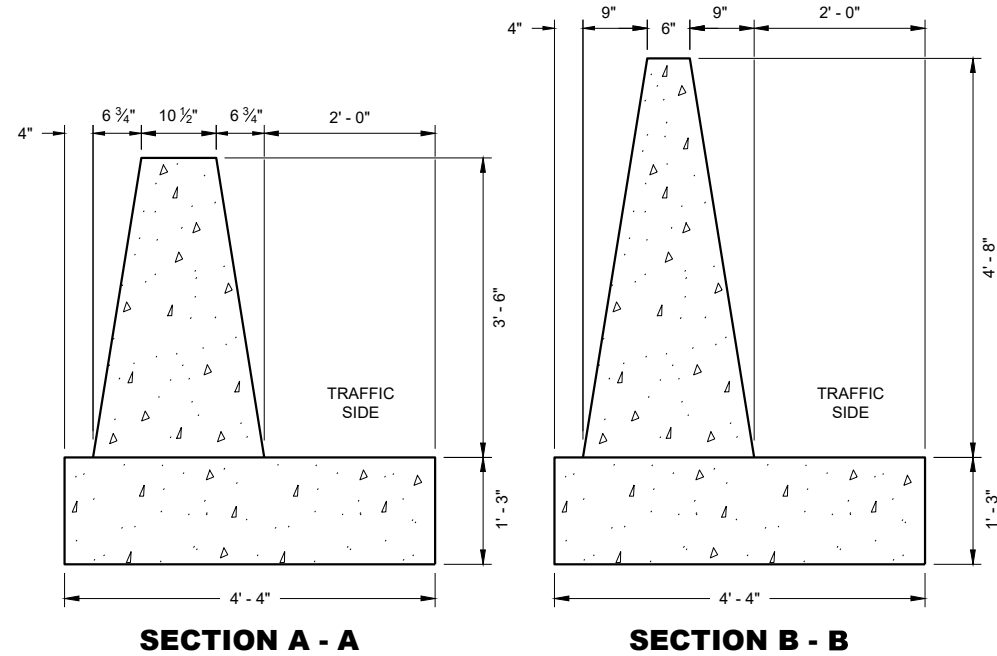
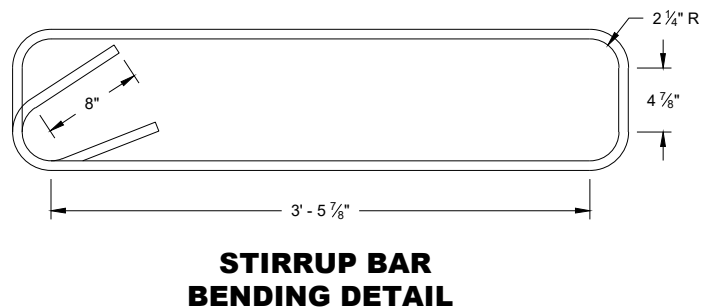


# SDD 14B39-c 42" Single Slope Concrete Barrier to 56" Single Slope Concrete Barrier Height Transition



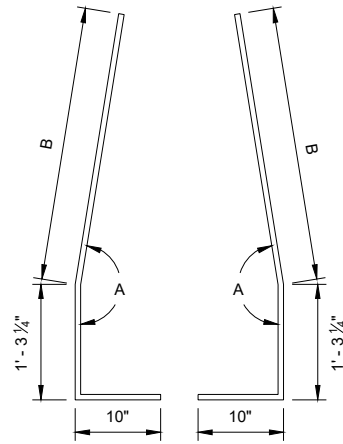
## GENERAL NOTES

- CONSTRUCT PER STANDARD SPECIFICATION 603.
- SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.
- 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.
- USE 3/4" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
- THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.
- 2" CLEAR COVER TYPICAL.
- ① EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD JOINT IS USED, ANCHOR IS NOT REQUIRED.



## BAR CHART BAR POSITIONS V1 - V13

BAR	A	B
V1	170°	3' - 1 1/2"
V2	170°	3' - 3"
V3	170°	3' - 4 1/4"
V4	170°	3' - 5 1/2"
V5	170°	3' - 6 1/2"
V6	170°	3' - 7 3/4"
V7	170°	3' - 9 1/4"
V8	170°	3' - 10"
V9	170°	3' - 11 1/4"
V10	170°	4' - 1 1/4"
V11	170°	4' - 1 1/2"
V12	170°	4' - 2 1/4"
V13	170°	4' - 2 1/2"



## 42" SINGLE SLOPE CONCRETE BARRIER TO 56" SINGLE SLOPE CONCRETE BARRIER HEIGHT TRANSITION

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2020  
DATE  
/S/ Rodney Taylor  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER  
FHWA

SDD 14B39 - 02c

SDD 14B39 - 02c

*Height Transitions for Single Slope Concrete Barrier***References:**

NONE

**Bid items associated with this drawing:**

Bid items for single slope barrier and associated transitions are encoded as follows:

BARRIER BID ITEM TYPES		DESCRIPTION	CODE
<p>Shape ———→ S 36 A Height in inches ———→ Class ———→</p> <p><i>example: Concrete Barrier Type S36A is a 36" single sloped median retaining wall barrier</i></p>	SHAPE	New Jersey shape	NJ
		F shape	F
		Vertical	V
		Single slope barrier	S
<p>Shape ———→ F 32 SF to S 32 Height in inches ———→ Faces ———→ Shape ———→ Height in inches ———→</p> <p><i>example: Concrete Barrier Transition Type F32SF to S32 is a transition from 32" single faced F barrier to a 32" single sloped barrier</i></p>	CLASS	Standard barrier section	none
		Median retaining wall	A
		Short barrier section	B
		Roadside retaining wall	C
	FACES	Double faced barrier	DF
		Single faced barrier	SF

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
603.3513	Concrete Barrier Transition Type S32 to S36 .....	EACH
603.3535	Concrete Barrier Transition Type S36 to S42 .....	EACH
603.3559	Concrete Barrier Transition Type S42 to S56 .....	EACH
603.3500 - 3599	Concrete Barrier Transition (type) .....	EACH

**Standardized Special Provisions associated with this drawing:**

<u>STSP NUMBER</u>	<u>TITLE</u>
NONE	

**Other SDDs associated with this drawing:**

<a href="#">SDD 14B32</a>	Concrete Barrier Single Slope
<a href="#">SDD 14B34</a>	Short Concrete Barrier Sections (Use for runs of less than 40')

**Design Notes:**

Use these details when a cold joint height transition is not feasible at a given location. Multiple height transitions can be used back to back to get to the proper barrier height.

**Contact Person:**

Erik Emerson (608) 266-2842