# SDD 08F10 Concrete Masonry Endwalls for Culvert Pipes

CONCRETE

MASONRY HEADWALL

## **GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

FILL SLOPES FLATTER THAN 2 1/2:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

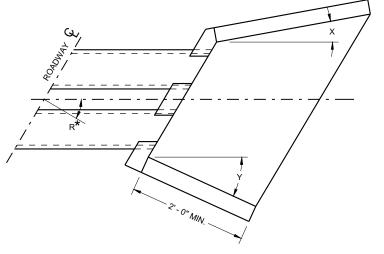
#### (2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2' - 0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3' - 0"

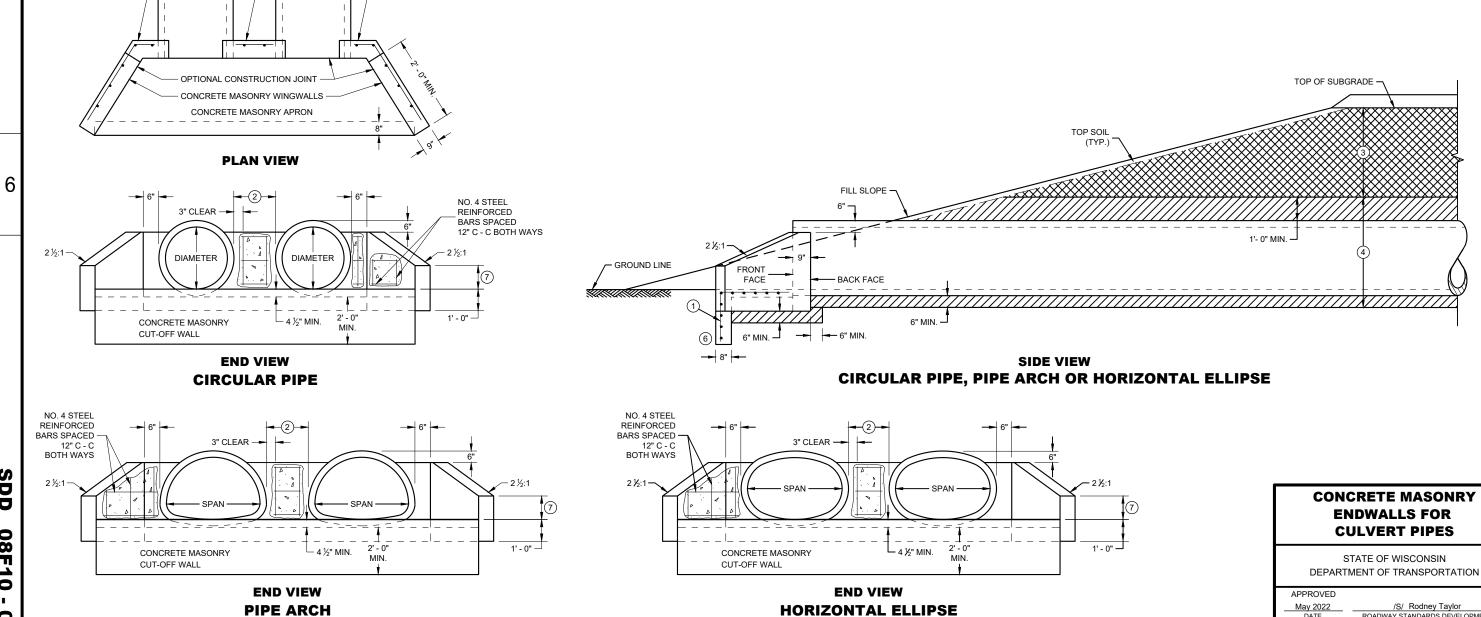
- (3) LIMITS OF TRENCH BACKFILL
- (4) LIMITS OF FOUNDATION BACKFILL
- FOUNDATION AND TRENCH BACKFILL ARE MATERIALS INCLUDED IN PAYMENT FOR CULVERT PIPE, PIPE ARCH, CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPSE OR CONCRETE MASONRY ENDWALLS. 5
- (6) DO NOT PLACE FOUNDATION BACK FILL OR ANY OTHER GRANULAR BACKFILL AROUND OR BELOW CUT OFF WALL. POUR CUT OFF WALL AGAINST NATIVE SOIL
- $\fbox$  MINIMUM HEIGHT SHALL BE THE GREATER OF 1'- 0" OR  $\raimed 4$  HEIGHT OF CULVERT PIPE.

TRENCH BACKFILL

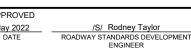
FOUNDATION BACKFILL







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May 2022 DATE

R\* = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

INLET		OUTLET			
R*	Х	Y	R*	Х	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	30°	16 - 45°	10°	15°
23 - 37°	20°	30°	46 - 75°	5°	15°
38 - 52°	15°	30°	OVER 75°	0°	15°
53 - 67°	10°	30°			
68 - 82°	5°	30°			
OVER 82°	0°	30°			

INLET			0	UTLE
R*	Х	Y	R*	Х
0 - 7°	30°	30°	0 - 15°	15°
8 - 22°	25°	30°	16 - 45°	10°
23 - 37°	20°	30°	46 - 75°	5°
38 - 52°	15°	30°	OVER 75°	0°
53 - 67°	10°	30°		
68 - 82°	5°	30°		
OVER 82°	0°	30°		

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## Standard Detail Drawing 8F10

Concrete Masonry Endwalls for Culvert Pipe and Pipe Arch

#### **References:**

NONE

#### Bid items associated with this drawing:

ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
504.0900	Concrete Masonry Endwalls	CY

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

STSP NUMBER TITLE NONE

#### Other SDDs associated with this drawing:

NONE

#### **Design Notes:**

Endwalls are designed for a maximum height of 7 feet.

### **Contact Person:**

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