Index 425-050
Ditch Bottom Inlet Type A

ORIGINATION

Date: 11-1-19
Name: Tim Holley
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COMMENTARY

Reorganized Details and Sheets to declutter Index. Moved information from detail callouts to Notes in order to decrease clutter of the drawing. Moved design information to SPI.

COMMENTS AND RESPONSES

BLACK = Internal Review Comments **RED** = Standard Plans Response

Name: Missy Hollis
Date: 8-10-20
COMMENT: The term used in the Ditch Bottom Inlet indexes referring to either ditch pavement or inlet pavement around the inlet could be confusing, since Specification 524 pertains to ditch pavement. As the concrete surrounding the inlet is to be included in the cost of the inlet, it is recommended to change the term to “concrete apron” in order to differentiate that concrete from the pavement outlined in Specification 524.

RESPONSE: Agreed
Change made to Index: The index was revised to include concrete apron in the place of concrete ditch pavement.
Date: 8-24-2020

Name: Jeffrey Cicerello
Date: 8-21-20
COMMENT: Sheet 3, Detail C: Detail incomplete; Sloped portion of ditch pavement not given. Is this to follow plans or should this be detailed in Standard Plans?

RESPONSE: A depth dimension of 0.1’ is shown in Section C-C on Sheet 3.
Change made to Index: Another dimension was added to the other side of Section C-C for clarity.
Date: 8-24-20

GENERAL NOTES:

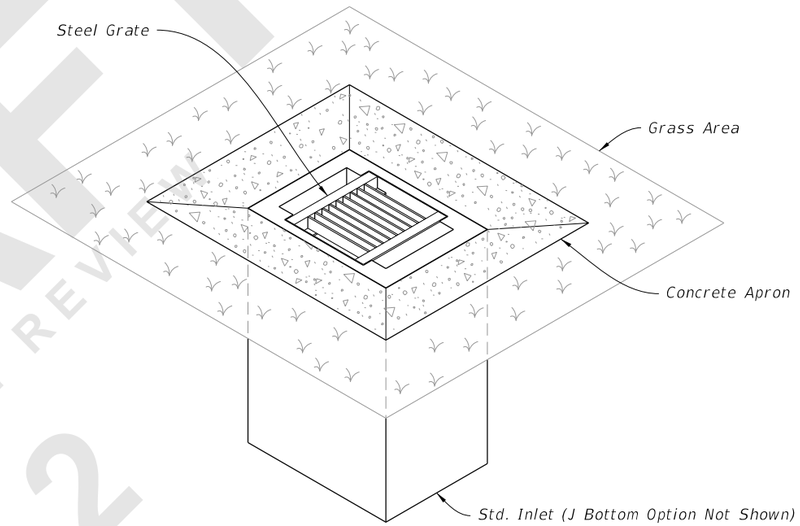
1. Work this Index with Index 425-001 and Index 425-010.

2. All reinforcing is Grade 60 bars with 2" minimum cover unless otherwise noted. Cut or bend bars out of way of pipe to clear pipe by 1½". See Index 425-001 for equivalent area of welded wire fabric.

2. Chamfer all exposed edges and corners ¾" or tooled to ¼" radius.

4. All dimensions are for both precast and cast-in-place inlets unless otherwise noted.

5. Quantities are for informational and estimating purposes only.



DITCH BOTTOM INLET TYPE A

(Pipe Opening Not Shown)

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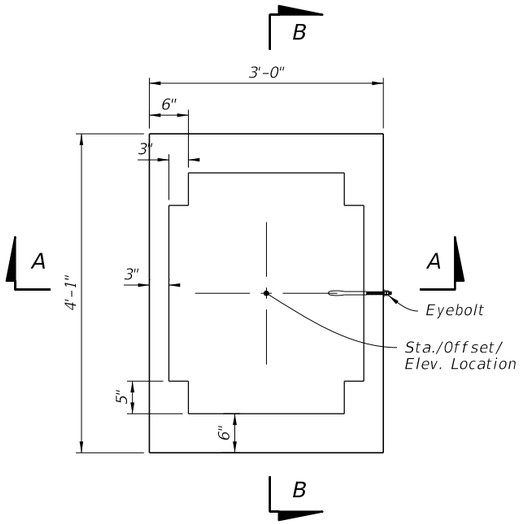
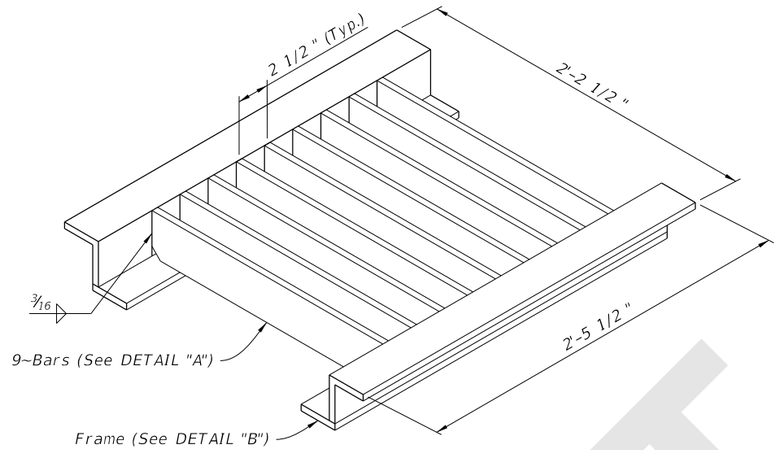


PLAN



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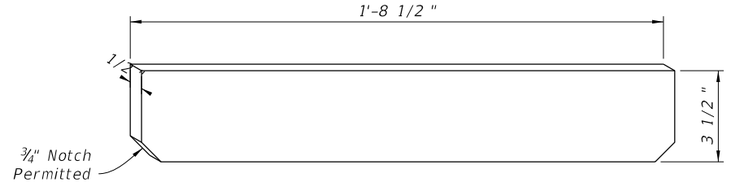
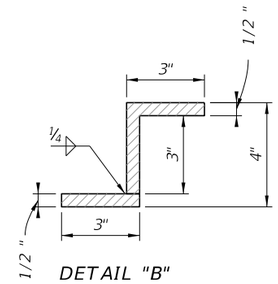
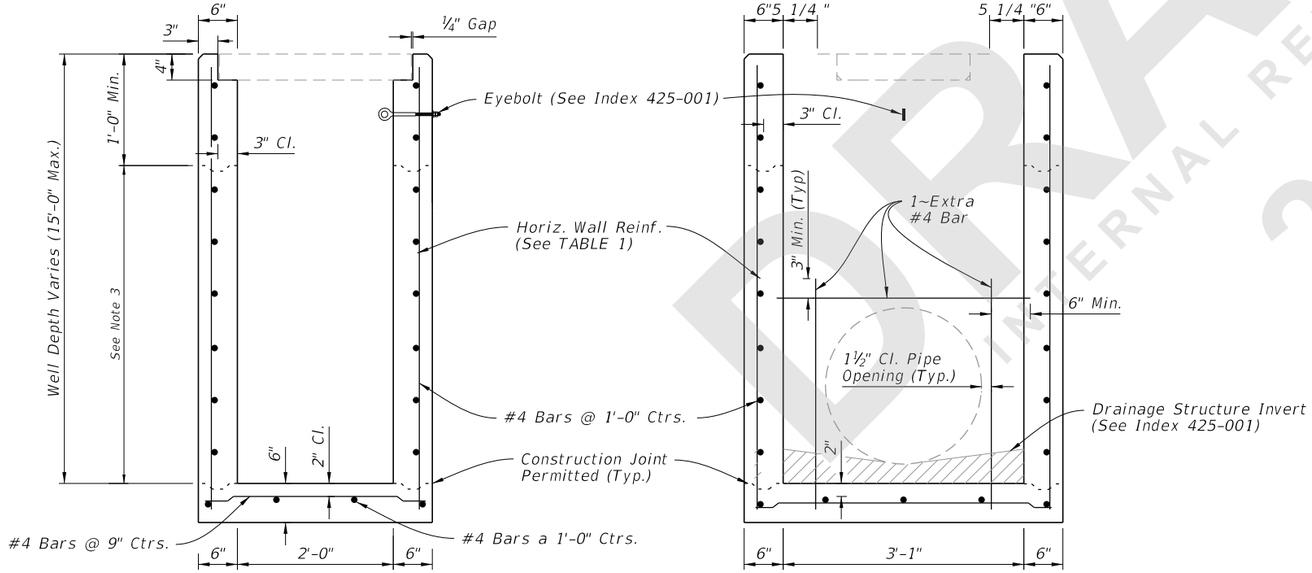


DETAIL "A"



DETAIL "B"

STEEL GRATE DETAILS



SECTION A-A
(Pipe Opening Not Shown)

SECTION B-B
(Pipe Opening Shown)

TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWR
0' – 10'	A12	0.20	12"	8"
10' – 15'	A6	0.20	6"	5"

NOTES:

1. Plan View: The Steel Grate, Concrete Ditch Pavement, and Sod are not shown.
2. See Sheet 3 for Concrete Ditch Pavement and Sodded Area details.
3. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

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DIMENSIONAL AND REINFORCEMENT DETAILS

DIMENSIONAL, REINFORCEMENT, AND STEEL GRATE DETAILS

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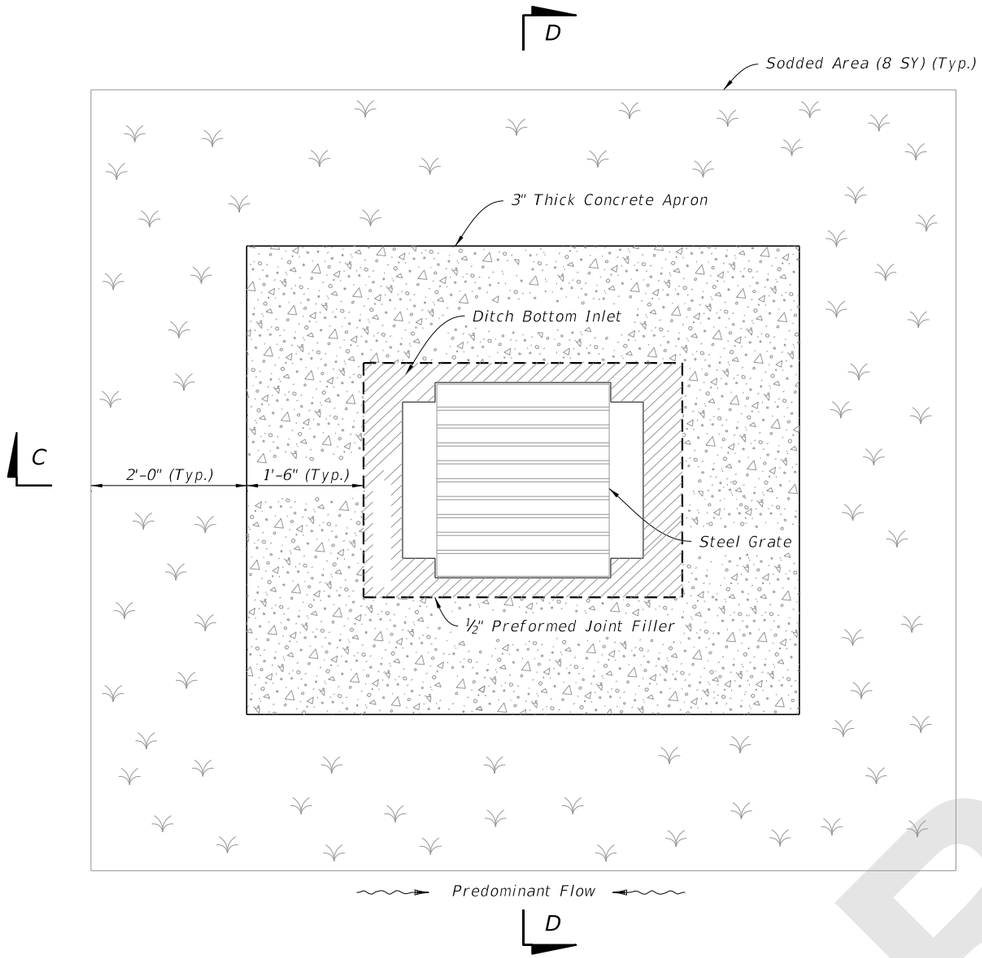
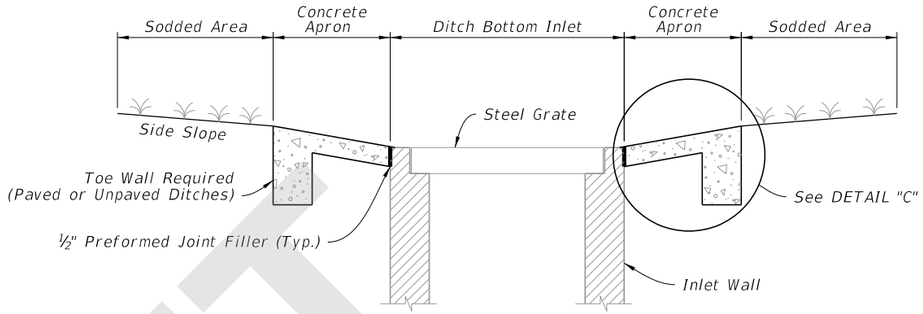
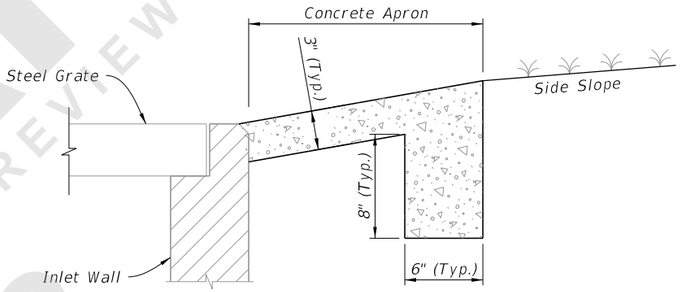


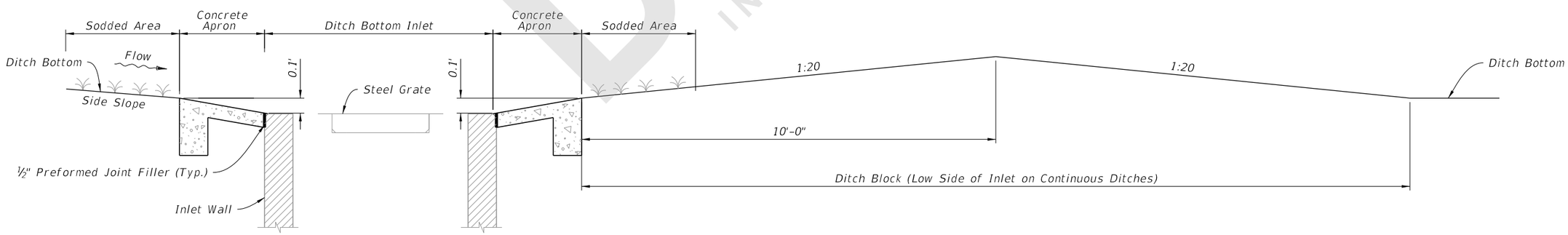
PLAN



SECTION D-D



DETAIL "C"



SECTION C-C AND DITCH BLOCK DETAIL

CONCRETE APRON AND SODDED AREA DETAILS

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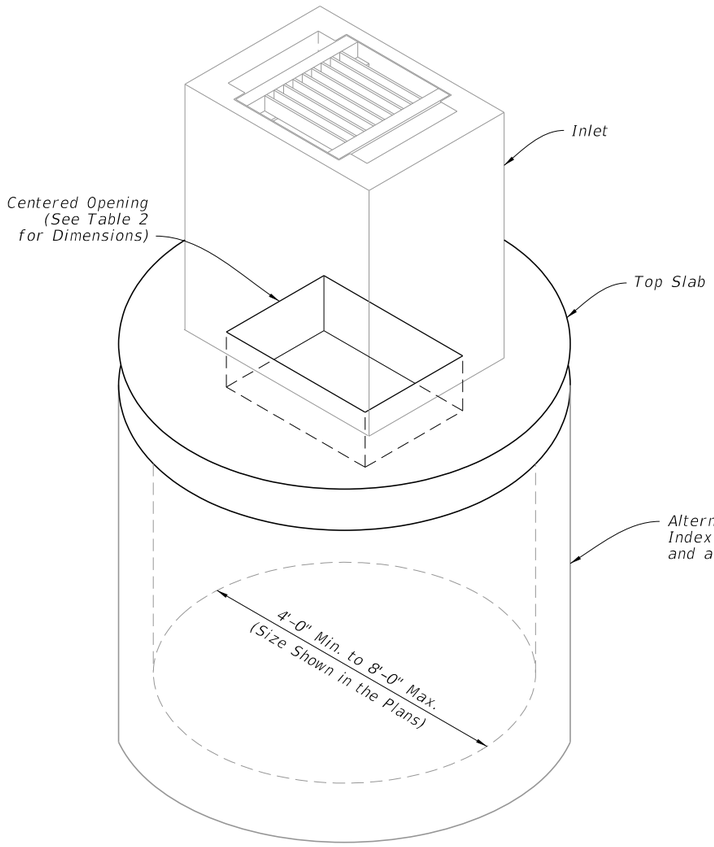
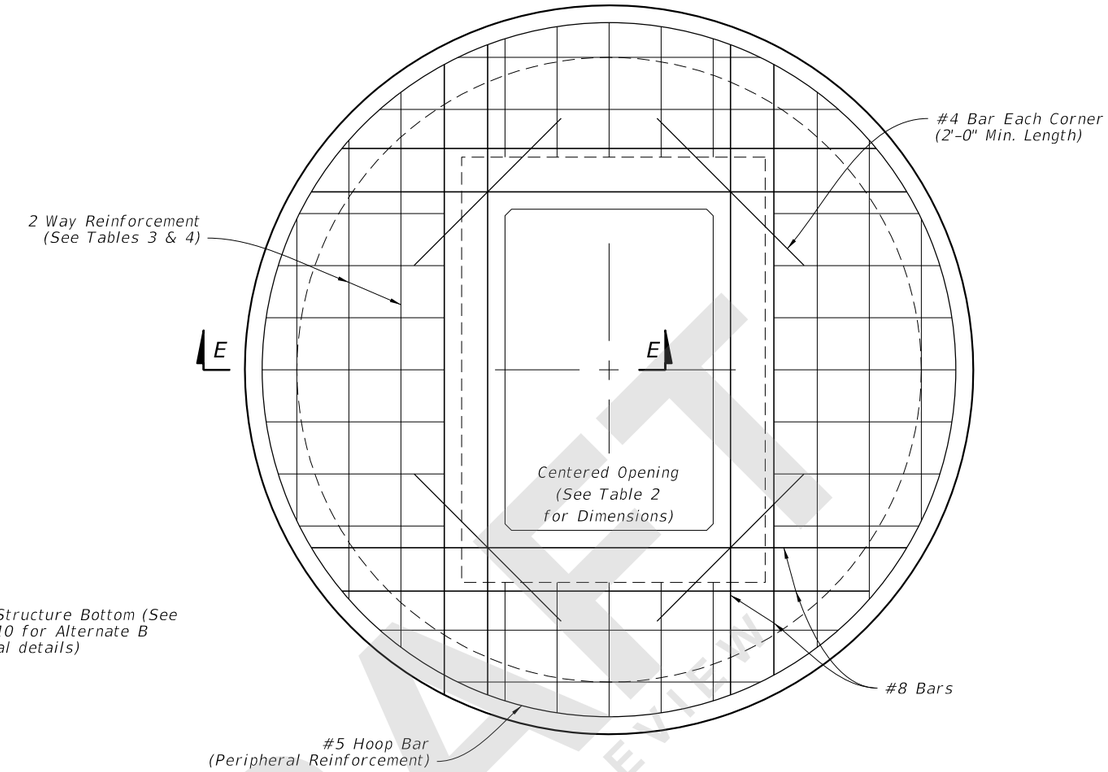


ISOMETRIC VIEW



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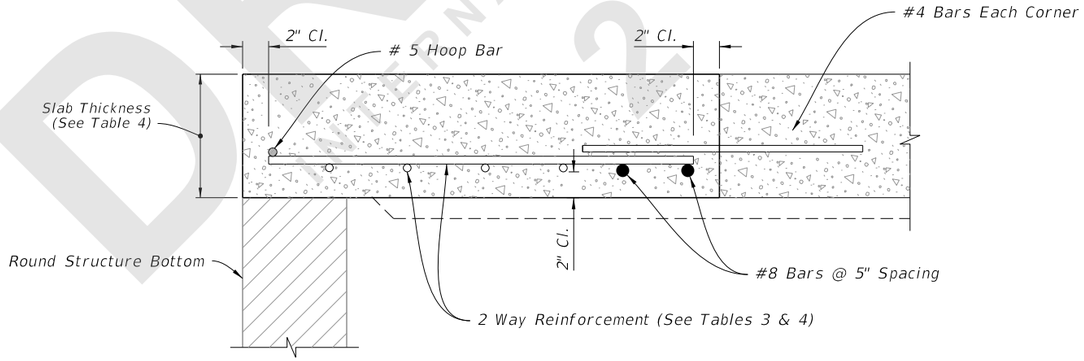

SECTION E-E

TOP SLAB REINFORCEMENT DETAILS

TABLE 2
TOP SLAB OPENING

BOTTOM STRUCTURE DIAMETER	OPENING SIZE	
	Min.	Max.
4'-0" to 8'-0"	2'-0" x 3'-1"	--

TABLE 3
TOP SLAB REINFORCING SCHEDULE

SCHEDULE	GRADE 60 (BAR) OR 65 KSI & 70 KSI (WIRE FABRIC) In.²/ft.
A	0.20
B	0.24
C	0.37
D	0.53
E	0.73
F	1.06
G	1.45

TABLE 4
TOP SLAB WITH CENTERED OPENING

STRUCTURE DEPTH	SLAB THICKNESS	REINFORCING (2 WAY) SCHEDULE
SIZE: 4'-0"		
≥0.5'-40'	9½"	C
SIZE: 5'-0"		
≥0.5'<30'	9½"	C
30'-40'	9½"	D
SIZE: 6'-0"		
0.5'<8'	9½"	B
8'<18'	9½"	C
18'<30'	9½"	D
30'<37'	9½"	E
37'-40'	9½"	G
SIZE: 8'-0"		
≥0.5'<9'	11½"	C
9'<15'	11½"	D
15'<23'	11½"	E
23'<33'	11½"	E
33'-40'	11½"	G

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ALTERNATE A STRUCTURE BOTTOM - TOP SLAB DETAILS

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