

**GENERAL NOTES:**

1. Work this Index with Index 425-001 and Index 425-010.
2. Use Grade 60 reinforcing bars with 2" minimum cover unless otherwise noted. See Index 425-001 for equivalent area of welded wire fabric. Cut or bend bars to provide 1½" minimum clearance around pipe.
3. Chamfer all exposed edges and corners ¾" or tool to ¼" radius.
4. Dimensions are for both precast and cast-in-place inlets unless otherwise noted.

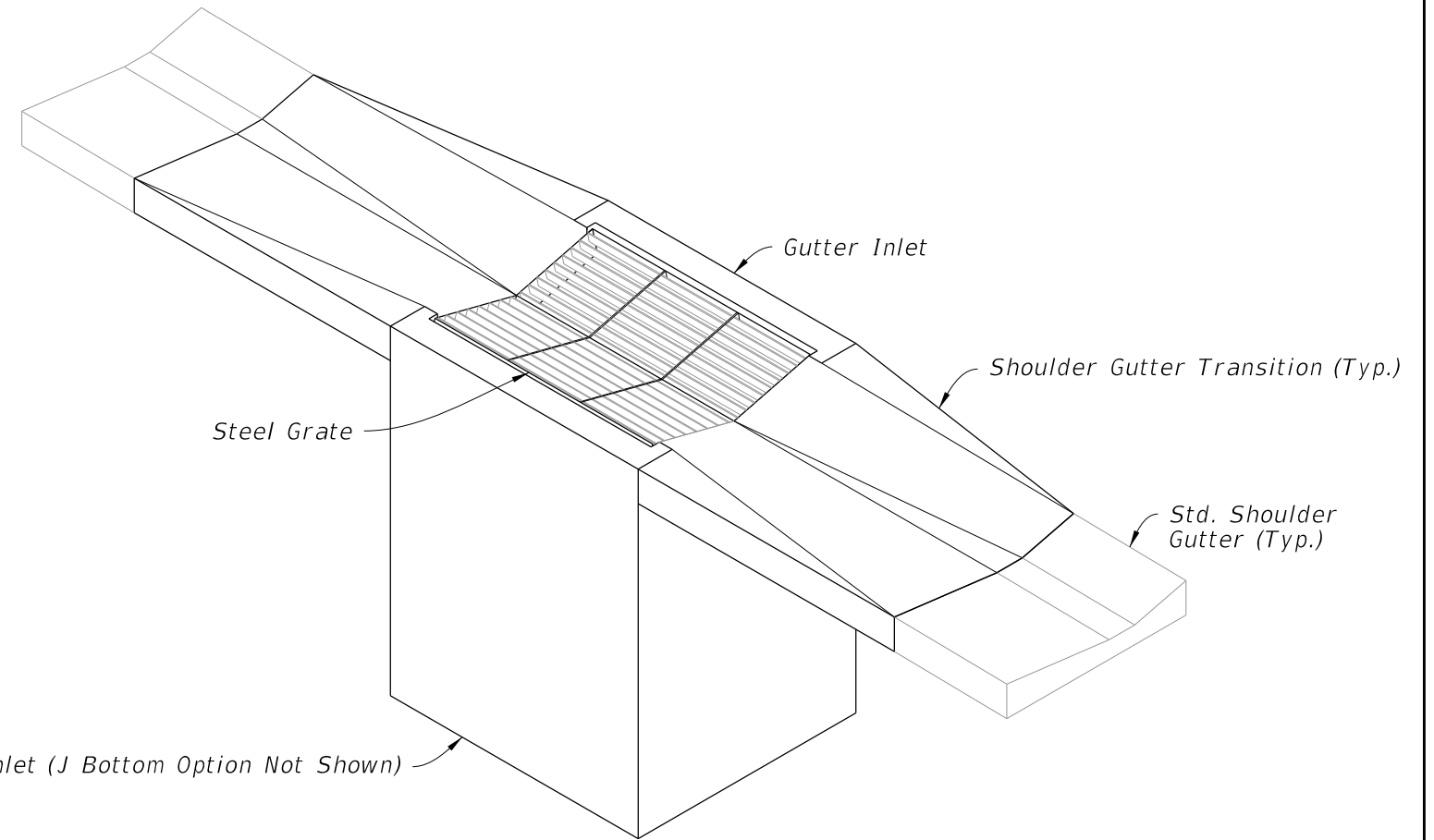


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4	Steel Grate Details
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**GUTTER INLET TYPE S**  
(Pipe Opening Not Shown)

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LAST REVISION	DESCRIPTION:
11/01/20	

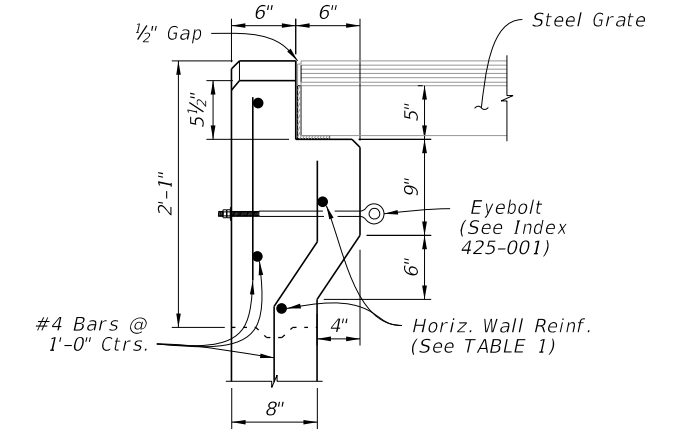
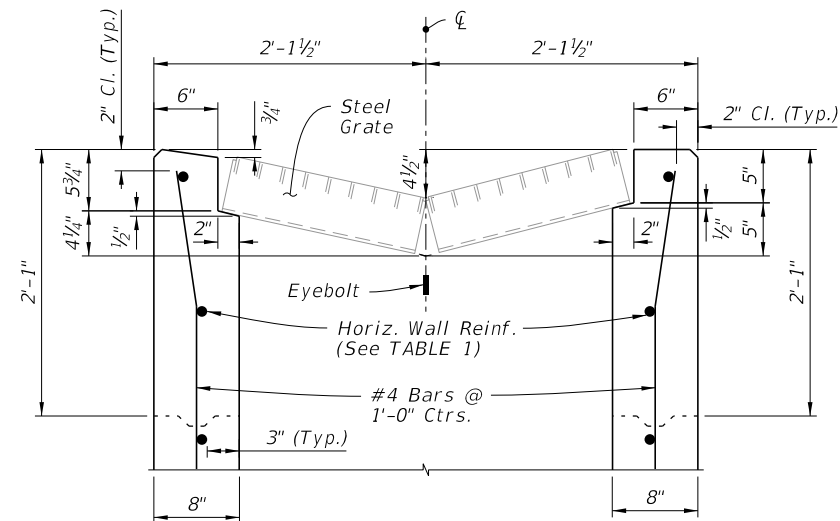
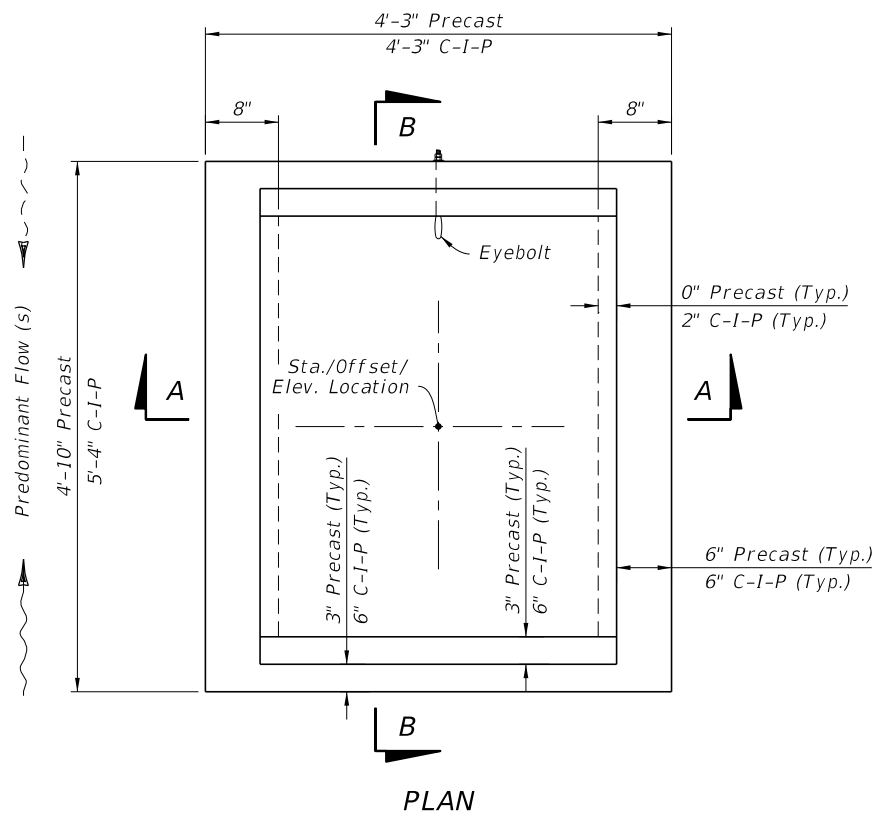


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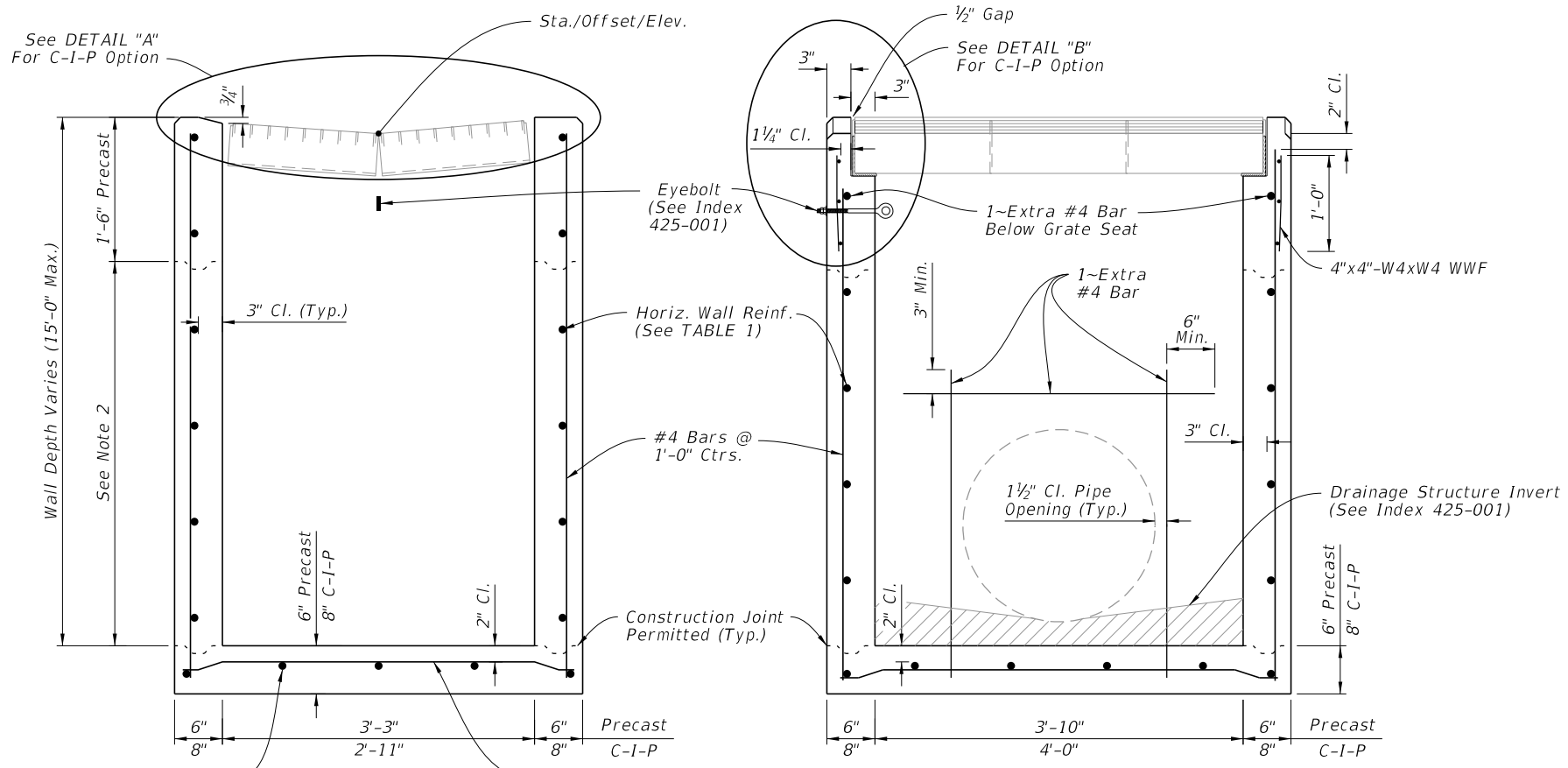
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DETAIL "A"

DETAIL "B"

CAST-IN-PLACE OPTION



SECTION A-A  
(Pipe Opening Not Shown)

SECTION B-B  
(Pipe Opening Shown)

WALL DEPTH	SCHEDULE	AREA (in. <sup>2</sup> /ft.)	MAX. SPACING	
			BARS	WWR
0' - 5'	A12	0.20	12"	8"
5' - 9'	A6	0.20	6"	5"
9' - 12'	A4	0.24	4"	3"
9' - 15'	B5.5	0.24	5 1/2"	5"

- NOTES:**
- Concrete Apron/Transition not shown.
  - Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

#4 Bars:  
@ 11" Ctrs. (Precast 6" Slab)  
@ 12" Ctrs. (C.I.P. 8" Slab)

#4 Bars:  
@ 8" Ctrs. (Precast 6" Slab)  
@ 12" Ctrs. (C.I.P. 8" Slab),

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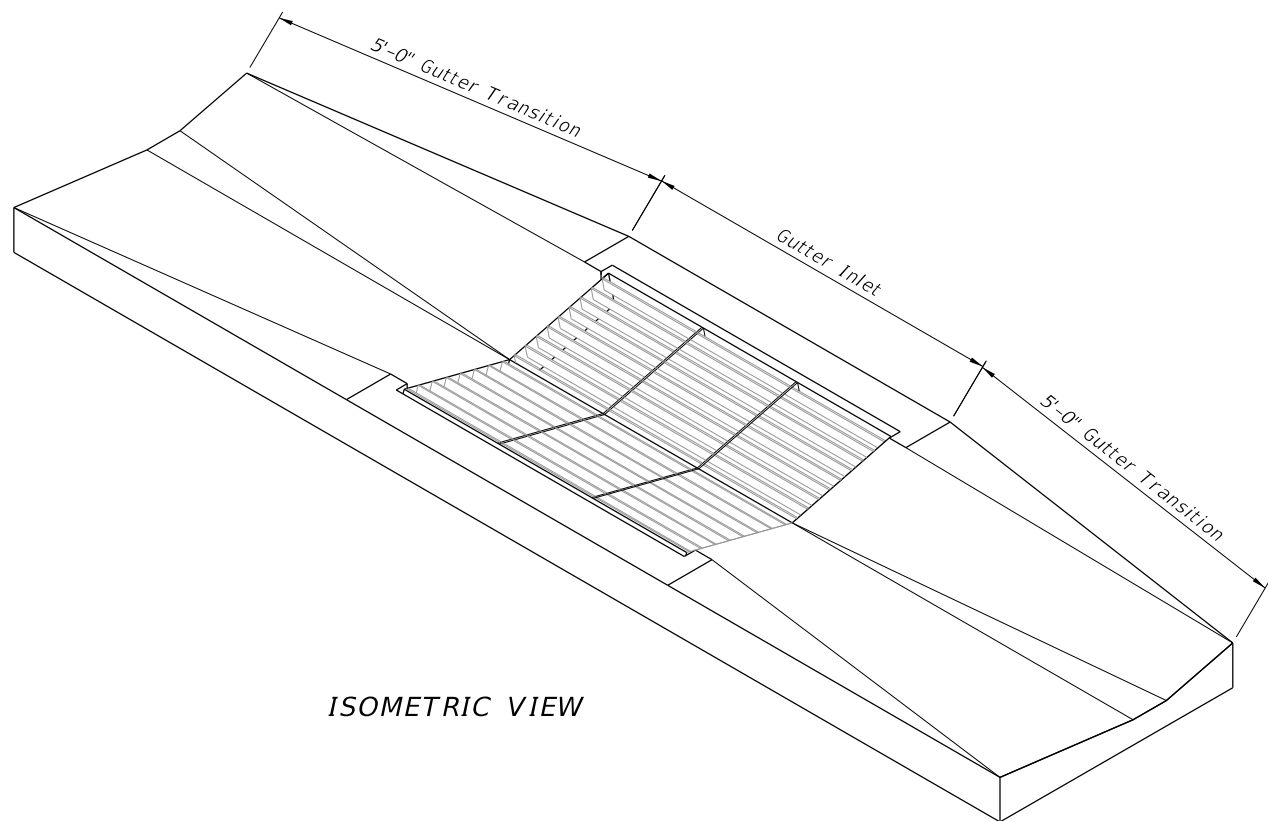
**DIMENSIONAL AND REINFORCING DETAILS**

LAST REVISION 11/01/20	DESCRIPTION:
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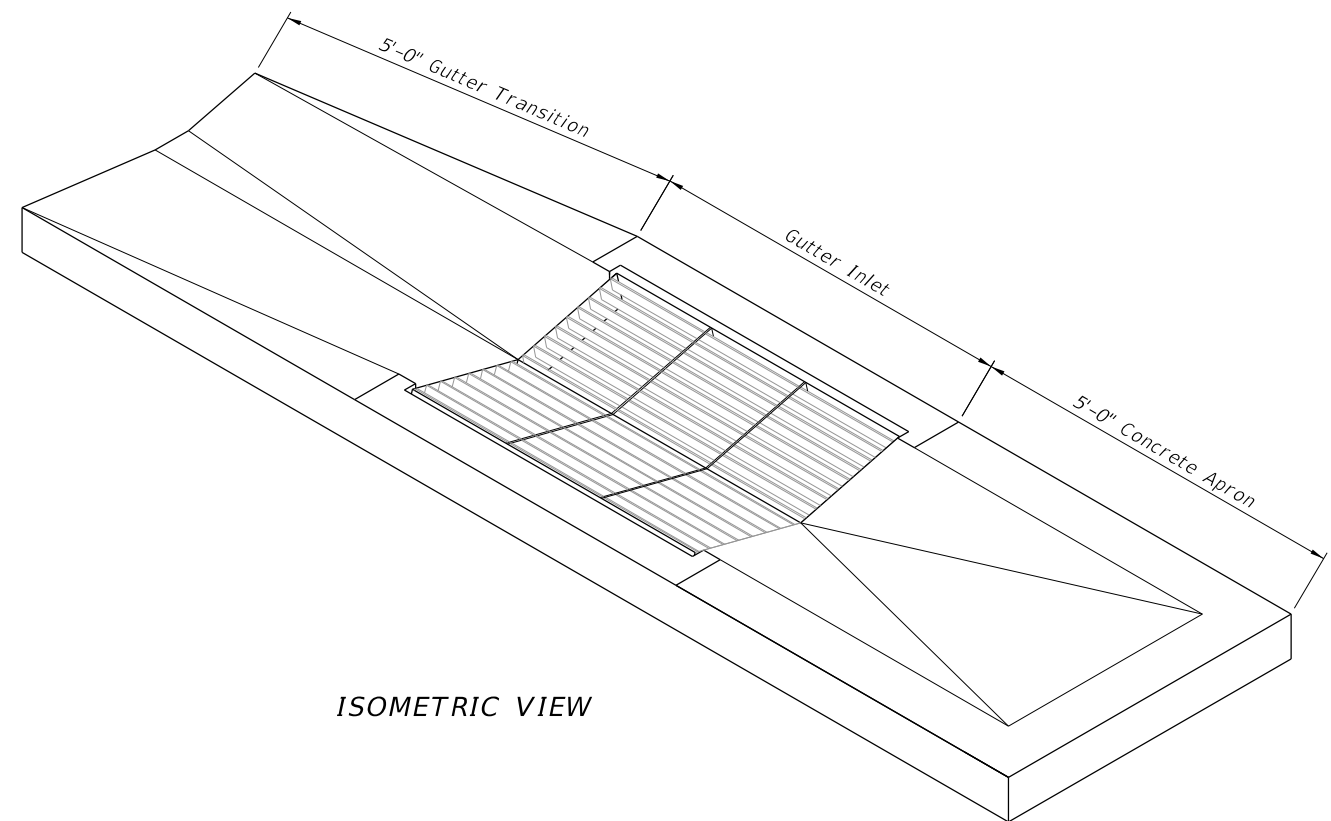

  
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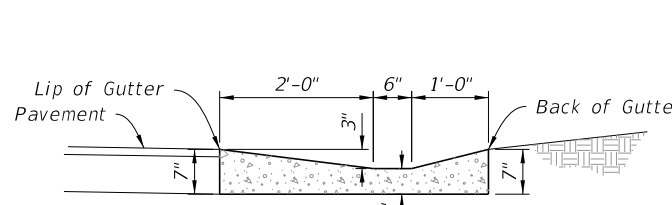
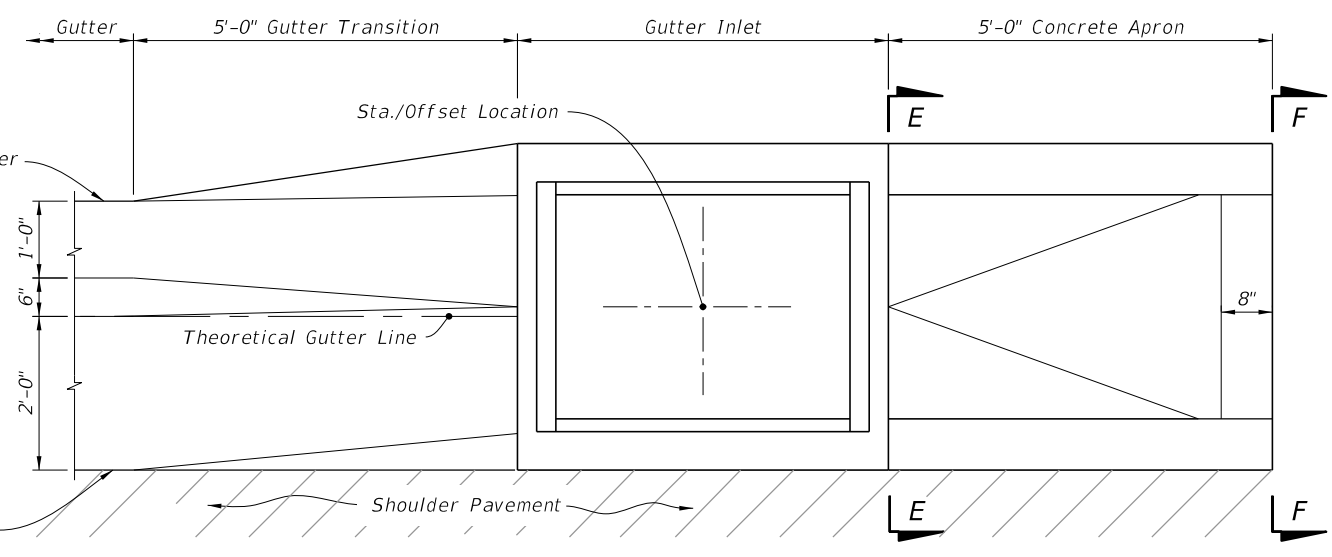
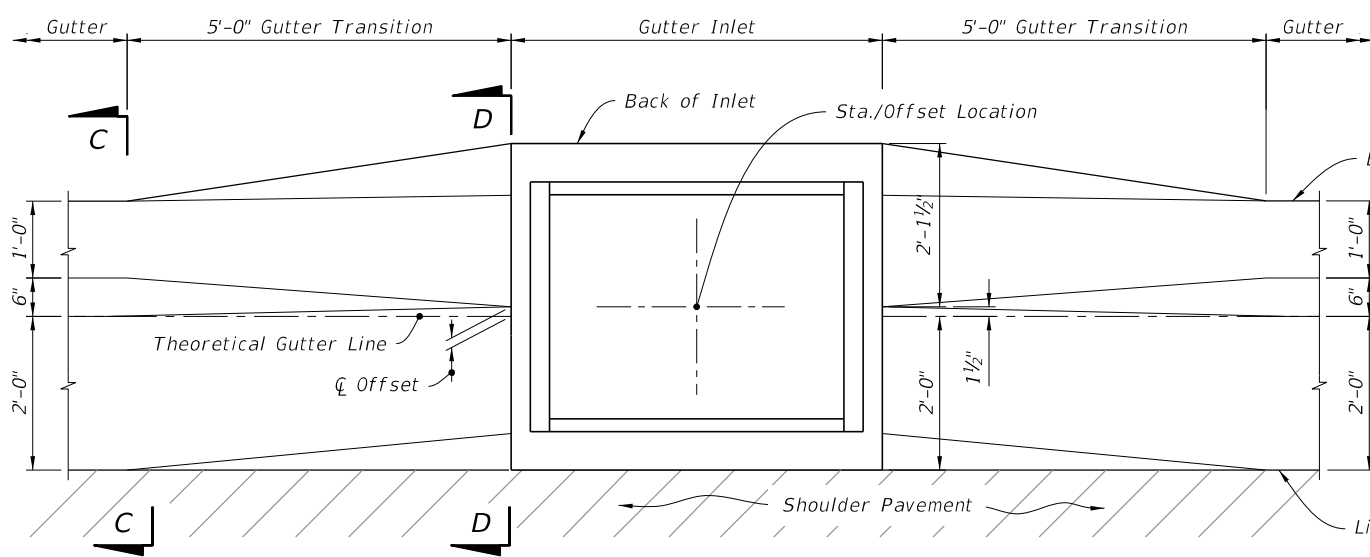
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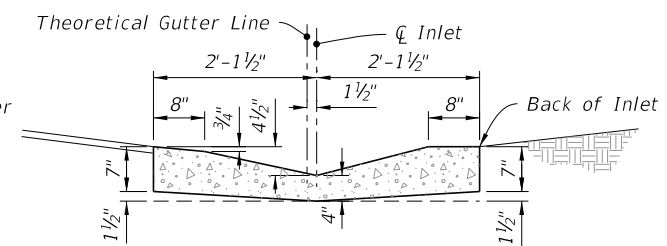
ISOMETRIC VIEW



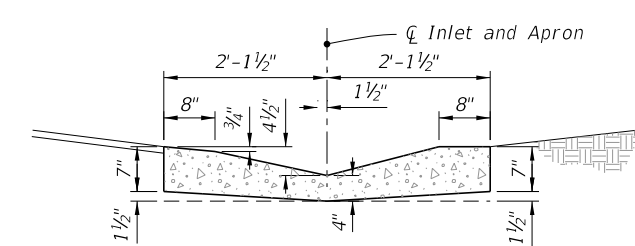
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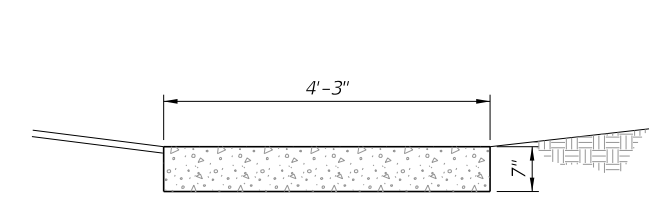
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

SHOULDER GUTTER TRANSITION

APRON AT TERMINAL INLETS

TRANSITION AND APRON DETAILS

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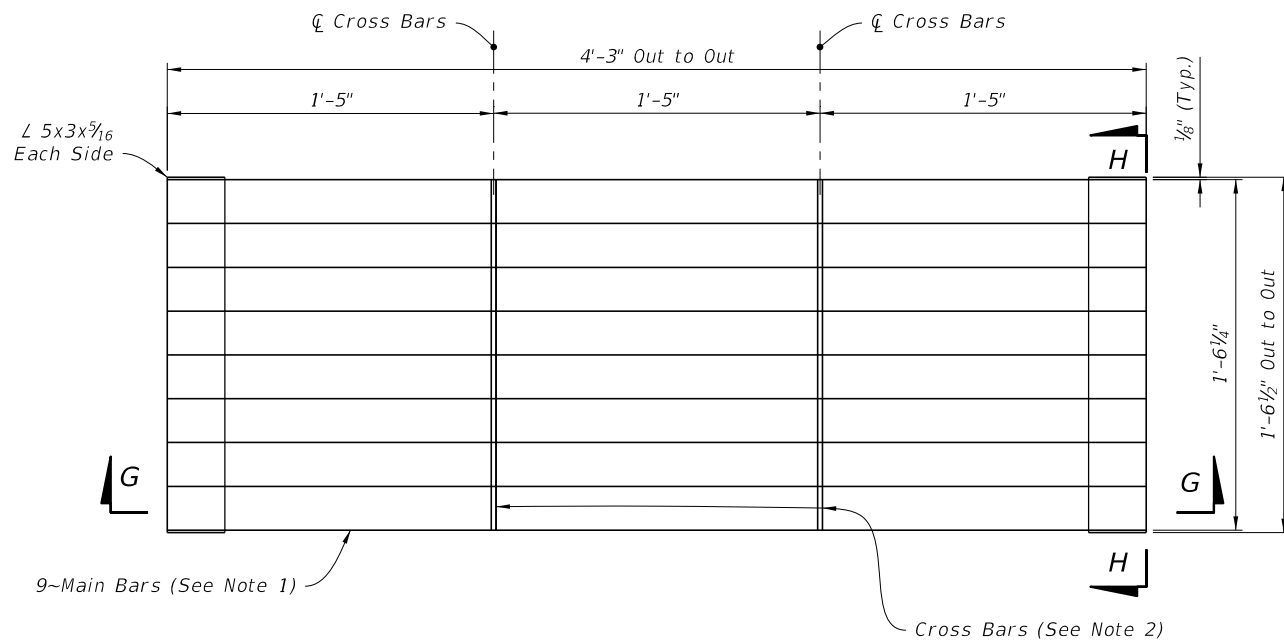


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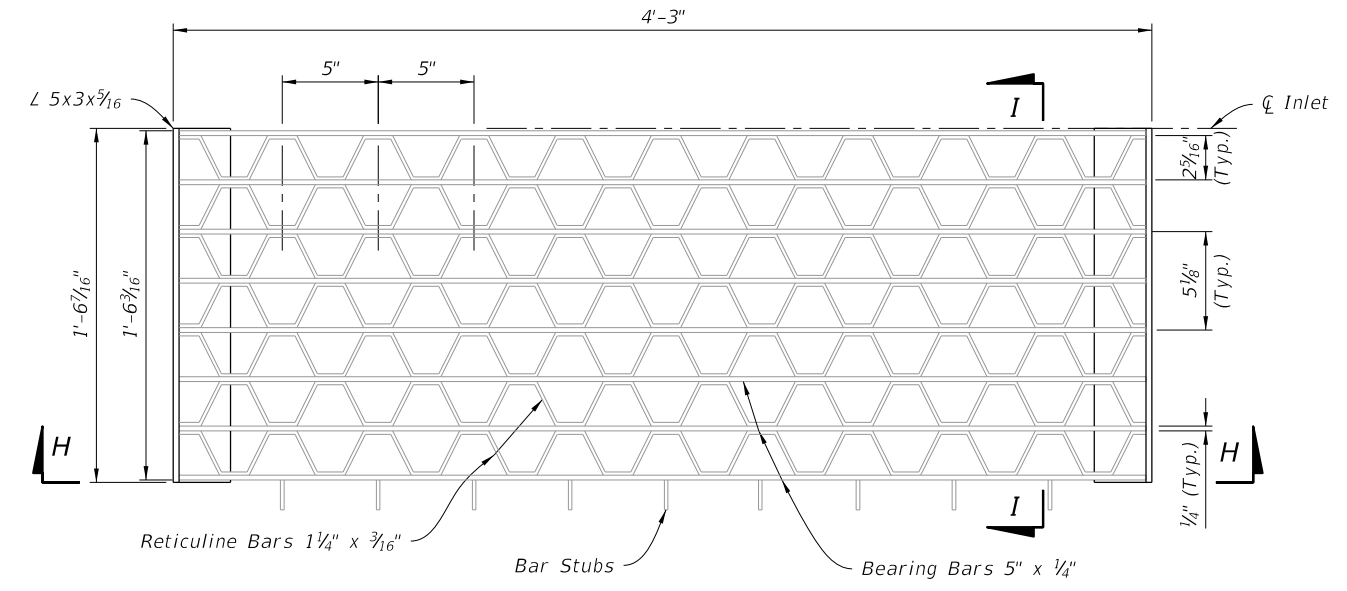
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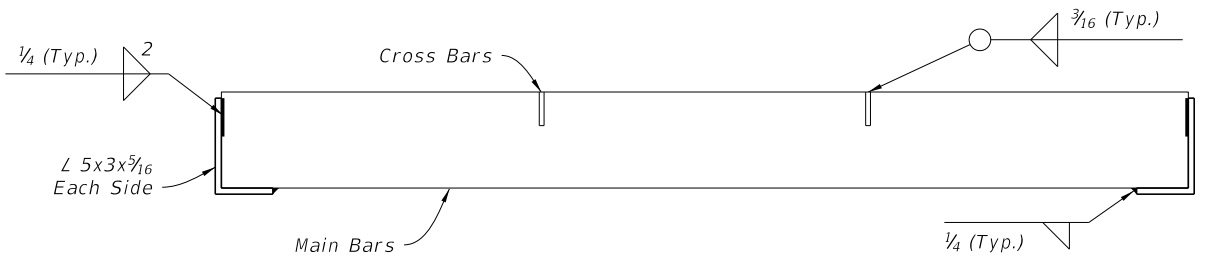
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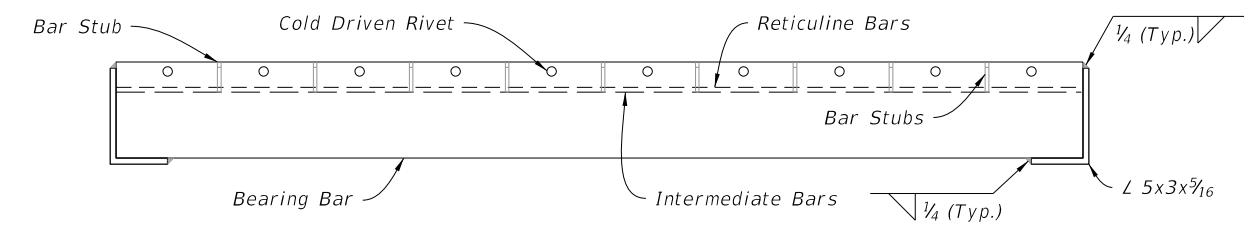
PLAN



PLAN

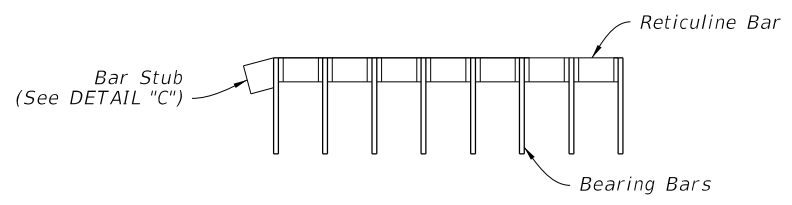


SECTION G-G

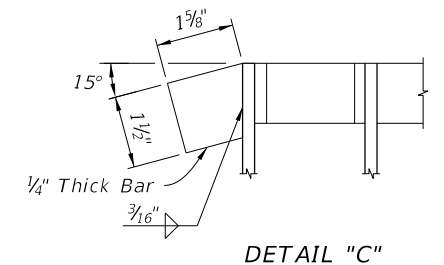


SECTION H-H

- NOTES:**
1. Main Bars are 5"x1/4", notched for Cross Bars, and spaced equally apart.
  2. Cross Bars are 1 3/4"x1/4" and continuously welded at Main Bar Notches.
  3. Main Bars and Cross Bars are flush on top.



SECTION I-I



DETAIL "C"

PARALLEL BARS

RETICULINE BARS

STEEL GRATE DETAILS

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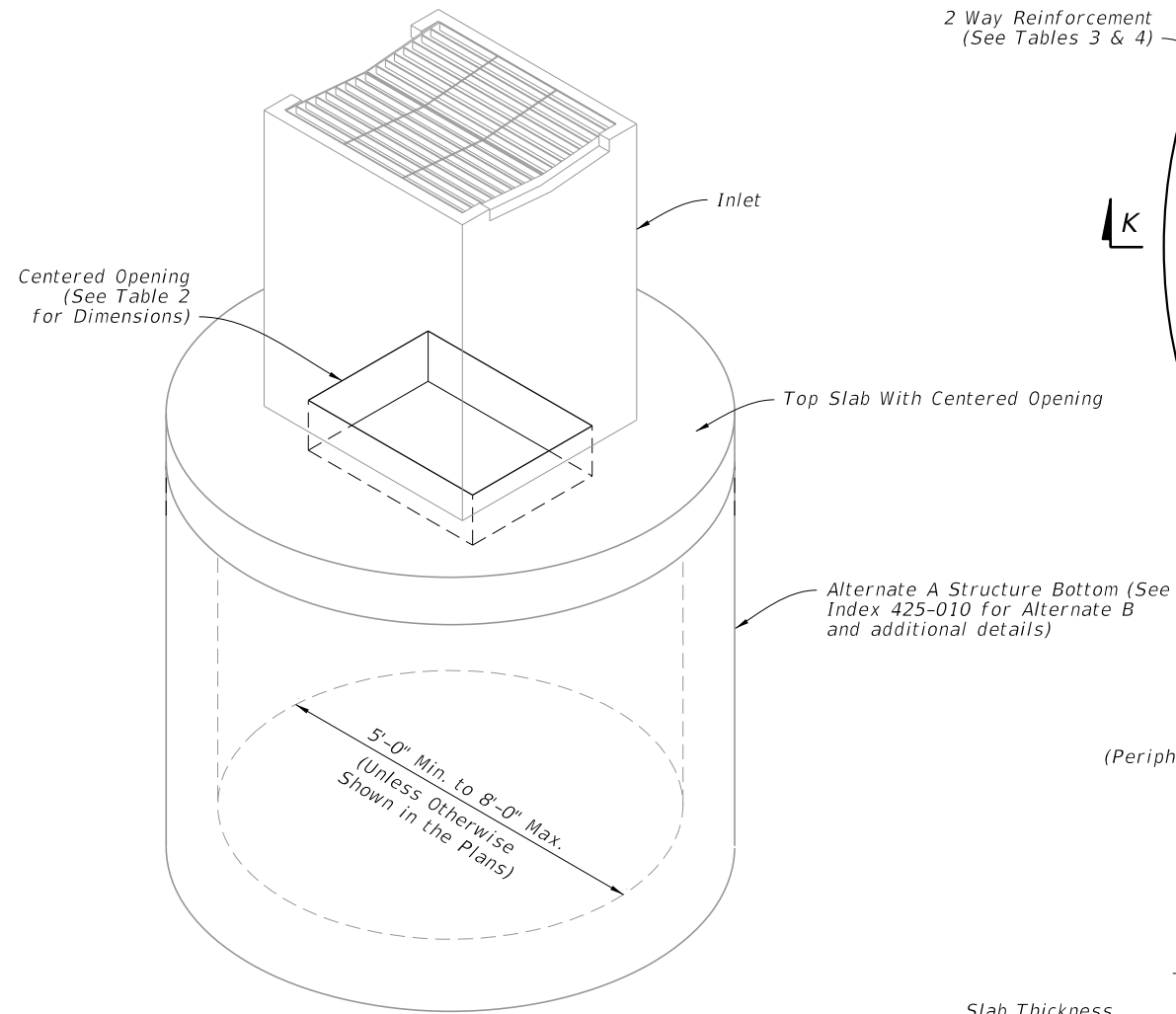
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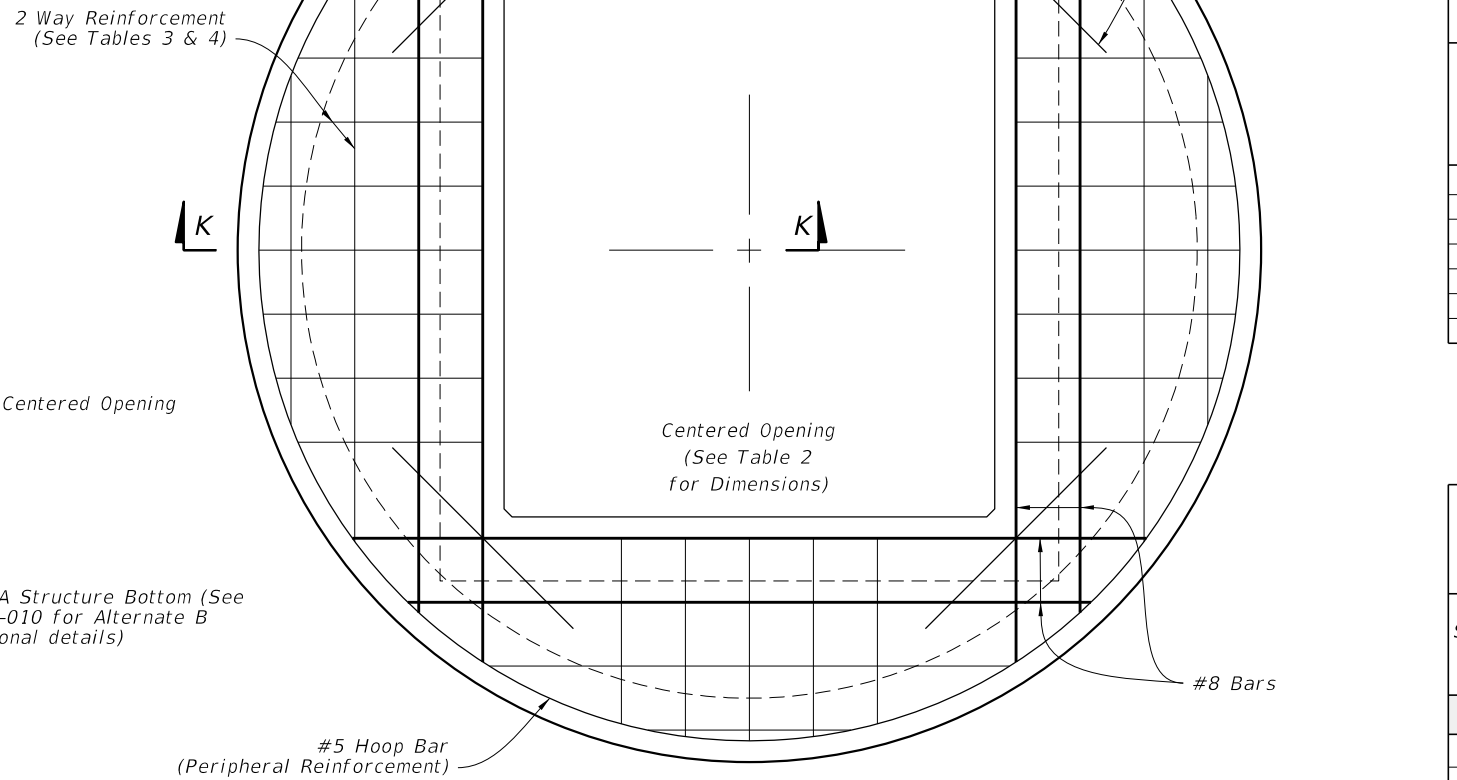
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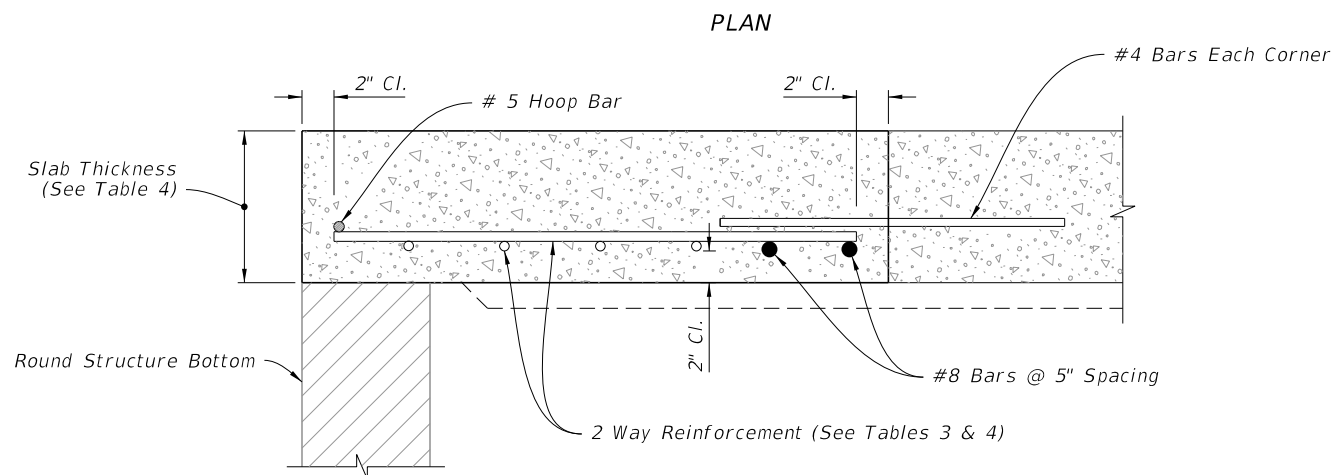


DIAMETER	OPENING SIZE	
	Min.	Max.
5'-0" to 8'-0"	2'-11" x 4'-0"	3'-3" x 3'-10"



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

STRUCTURE DEPTH	SLAB THICKNESS	REINFORCING (2 WAY) SCHEDULE
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



SECTION K-K

ISOMETRIC VIEW

TOP SLAB REINFORCEMENT DETAILS

ALTERNATE A STRUCTURE BOTTOM - TOP SLAB DETAILS

LAST REVISION	DESCRIPTION:
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