GENERAL NOTES:

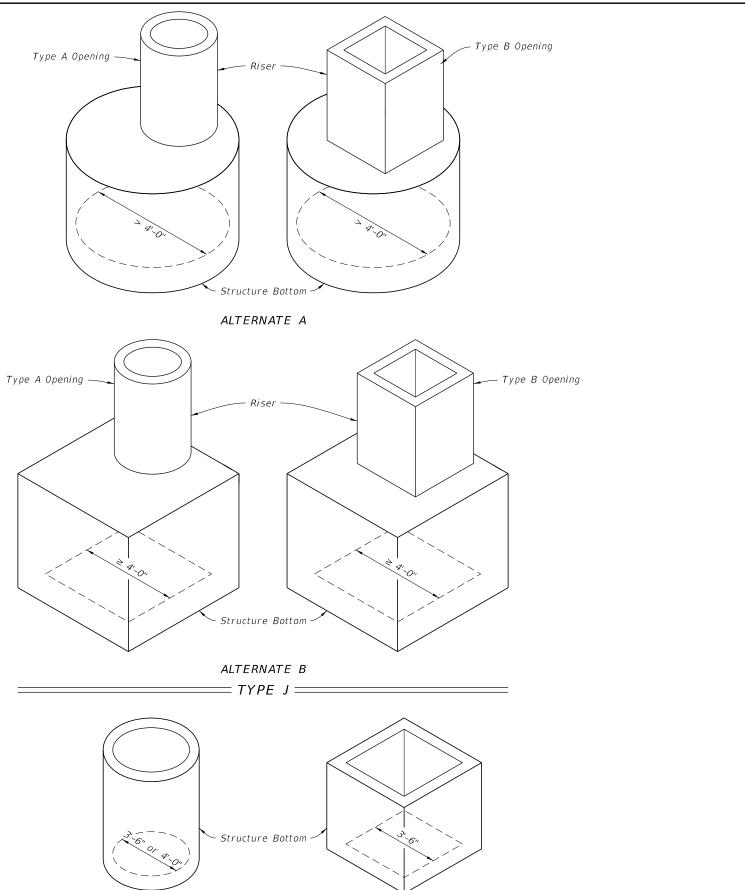
- 1. Work this Index with Specification 425 and Index 425-001.
- 2. Type P standard structure bottoms are 4'-0"diameter and smaller (Alt. A) and 3'-6" square (Alt. B) . Larger standard structure bottoms are designated Type J. Risers are permitted for all structures.
- 3. Walls of circular structures (Alt. A) constructed in place may be of brick or reinforced concrete. Construct precast and rectangular structures (Alt. B) with reinforced concrete only.
- 4. Wall thickness and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast circular units may be furnished with walls in accordance with ASTM C478 (See Table 1).
- 5. Top and bottom slab thickness and reinforcement are for precast and cast-in-place construction. Use Class II concrete, except when Class IV concrete is shown in the Plans.
- 6. Alt. A or Alt. B structure bottoms may be used in conjunction with curb inlet tops Types 1, 2, 3, 4, 5, 6, 9, and 10, and any manhole or junction box. Alt. B structure bottoms may be used in conjunction with curb inlet Types 7 & 8, or any ditch bottom inlet.
- 7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and pipes.
- 8. Use straight embedment reinforcement in top and bottom slabs ,except when ACI hooks are specifically required.
- 9. Construct corner fillets as shown for rectangular structures used with circular risers and inlet throats, and when used on skew with rectangular risers, inlets, and inlet throats. Construct fillets in the top slab of the Alt. A structure bottoms when used with the Type B risers. Reinforce each fillet with two #5 bars.
- 10. Units larger than specified standards may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Furnish such larger units at no additional cost to the Department. Larger Alt. A units cannot replace Alt. B units without approval of the Engineer. This Note applies to this Index only.

REINFORCEMENT NOTES:

- 1. Locate wall reinforcement in rectangular structures as shown in the WALL REINFORCEMENT SPLICE DETAILS in Index 425-001.
- 2. Provide a minimum 2"clear cover for all reinforcement unless otherwise noted and except for 3'6" diameter ASTM C478 units.
- 3. Additional bars used to restrain hole formers for precast structures with grouted pipe connections may be left flush with the hole surface.
- 4. Cut or bend reinforcement at pipe openings to maintain cover.
- 5. Remove exposed ends of reinforcing at precast pipe openings and grouted joints to 1" below the concrete surface and seal with a Type F Epoxy meeting the requirements of Specification 926.
- 6. Equivalent area smooth or deformed welded wire reinforcement may be substituted in accordance with Index 425-001.

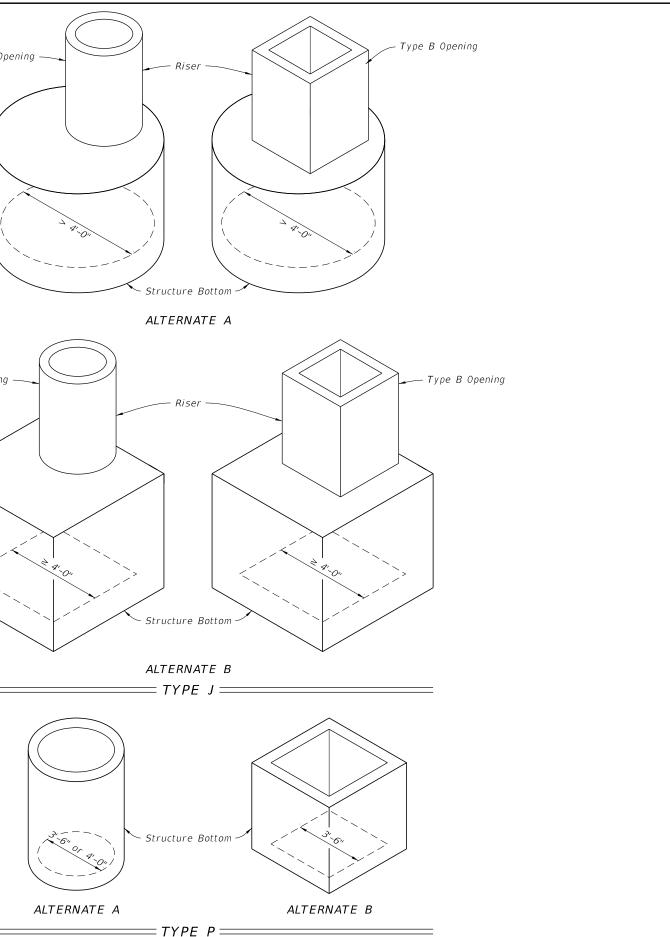
	TABLE OF CONTENTS:
Sheet	Description
1	General Notes and Contents
2	Dimensional and Reinforcing Details
3	Tables 1, 2, 3, and 4
4	Tables 5 and 6

- Riser









LAST	S	DESCRIPTION
REVISION	SI	
11/01/20	REVI	

 \geq DESCRIPTION:



FY 2021-22 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J

	INDEX	SHEET
AND P	425-010	1 of 4

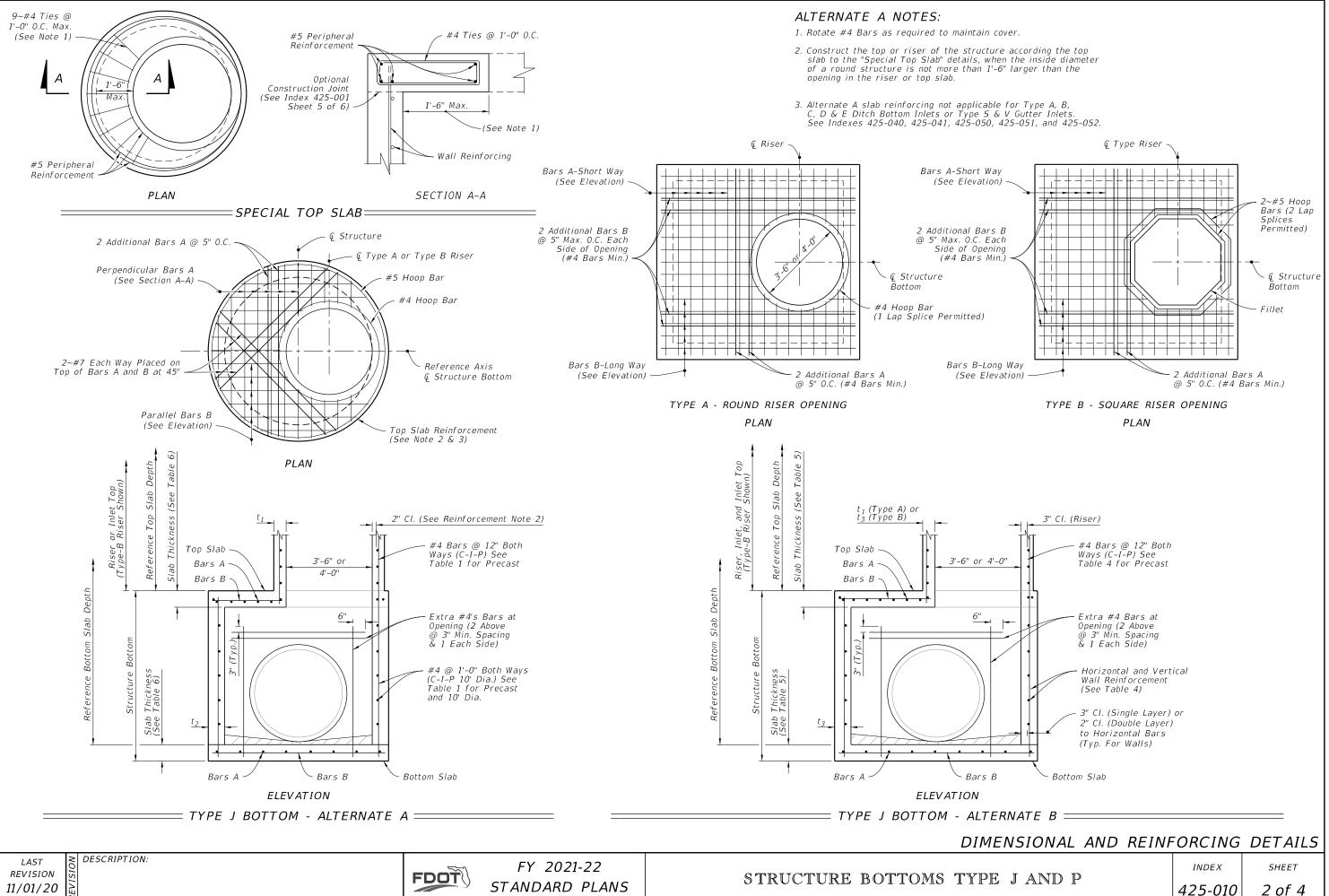


	TABLE 1 - ALTERNATE A - STRUCTURES									
		CAST-I	N-PLAC	e items	PRECAST ITEMS					
	STRUCTURE/RISER		s II CON	ICRETE	CLAS.	S II CON	ICRETE	ASTM	1 C478	
TYPE	DIAMETER (ft)	t 1	t2	As	t1	t2	As	t ₁ or t ₂	A 2***	
		RISER (in.)	BOTTOM (in.)	(in²/ft.)	RISER (in.)	BOTTOM (in.)	(in²/ft.)	(in.)	(in ² /ft.)	
Р	3'-6"	6	8	0.20	6	8	0.20	4**	0.105	
Р	4'-0''	6	8	0.20	6	8	0.20	5**	0.120	
J	5'-0''	-	8	0.20	-	8	0.20	6**	0.150	
J	6'-0''	-	8	0.20	-	8	0.20	6	0.180	
J	7'-0"	-	8	0.20	-	8	0.20	7	0.210	
J	8'-0''	-	8	0.20	-	8	0.20	8	0.240	
J	10'-0''	-	10	0.40##	-	10	0.40##	10	0.300	
J	12'-0"	-	10	0.40##	-	12	0.40##	12	0.360	

A2 = 0.40 sq. in. for riser section height equal or less than 2'-0" (2 hoop min.) $A_2 = 0.60$ sq. in. for riser section height more than 2'-0" up to 4'-0" (3 hoop min.)

No reduction in the area of reinforcement is allowed for welded wire fabric in Table 1.

TABLE 3 - REINFORCING SCHEDULE

GR 60

BARS

(in.)

12

6

10

5½

6½

3½

7

4½

5

3

5

3½

5

3½

4

SCHEDULE | GRADE 60

A12

A6

B10

B5.5

C6.5

С3.5

D7

D4.5

Ε5

EЗ

F5

F3.5

G5

G.3.5

H4

AREA

(in:² /ft)

0.20

0.20

0.24

0.24

0.37

0.37

0.53

0.53

0.73

0.73

1.06

1.06

1.45

1.45

1.75

GRADE 60 BARS OR 65 KSI & 70 KSI WELDED WIRE REINFORCING

MAXIMUM SPACING

(in.)

8

5

8

5

6

3

6

4

4

3

4

3

4

3

3

WWR EQUIV. AREA

65 KSI 70 KSI

(in.)

8

4½

7½

4

5

 $2^{1/2}$

5 3½

4

3

4

3

4

3

3

SQU,	TABLE . ARE AND RE		ERNATE B ULAR STRI			
TYPE	WALL	MAX.	WALL THICKNESS (t ₃			
ΤΥΡΕ	LENGTH (FT)	DEPTH (FT)	C-I-P (in.)	PRECAST (in.)		
Ρ	≤3'-6"	40	6 Riser 8 Bottom	6		
J	4'-0''	40	8	6		
J	5'-0"	22	-	6		
J	6'-0''	15	-	6		
J	5'-0" to 9'-0"	40	8	8		
J	10'-0''	26	8	8		
J	10'-0" to 12'-0"	40	10	9		
J	16'-0"	35	-	9		
J	16'-0''	40	10	10		
J	20'-0"	25	-	9		
J	20'-0"	30	10	10		

See Table 4 for Reinforcing Schedule.

			HORIZONTAL REINFORCING ILL TH SCHEDULE						IZONT AL FORCING		WALL THICKNESS		
WALL DEPTH	WALL SCHEDULE WALL SCHEDULE		W/ THICK	WALL DEPTH	SCH	EDULE	W ALL DEPTH	SCHEDULE		W/ THICK			
		SIZE:	' 3'-6" & RISE	R				S	ZE: 10'	-0" (Precast	Only)		
≥1.17' - 40'	A	12	≥1.17' < 10'		310	6"/8"			Outside			Outside	
			10' < 18'	В	5.5	6"/8"	26' - 40'	D7	D7	26' - 40'	F5	F5	9"
			18' < 29'	С	6.5	6"/8"			SI	ZE: 12'-0"			
			29' - 40'	С	3.5	6"/8"		Inside	Outside		Inside	Outside	
		5	IZE: 4'-0"				≥1.17' < 14'	B10	B10	≥1.17' < 10'	C6.5	C6.5	10"
≥1.17′ - 40′	A	12	$\geq 1.17' < 6'$	В	810	6"/8"	14' < 25'	C6.5	C6.5	10' < 17'	D7	D7	10"
			6' < 10'	В	5.5	6"/8"	25' - 40'	D7	D7	17' < 24'	E5	E5	10"
			10' < 20'		6.5	6"/8"				24' - 40'	F5	F5	10"
			20' < 28'		3.5	6"/8"				-0" (Precast			
			28' - 40'	D	4.5	6"/8"			Outside			Outside	
			IZE: 5'-0"				≥1.17' < 12'	B10		≥1.17' < 10'		D7	9"
≥1.17′ - 40′	A	12	$\geq 1.17' < 5'$		5.5	6"/8"	12' < 24'	C6.5	C6.5	10' < 17'	D4.5	D4.5	9"
			5' < 9'		6.5	6"/8"	24' - 40'	D7	D7	17' < 23'	E5	E5	9" 9"
			9' < 15' 15' < 22'		3.5 4.5	6"/8" 6"/8"				23' < 32' 32' - 40'	F5 G5	F5 G5	9" 9"
			22' - 40'		E3	8"				ZE: 16'-0"	05	05	9
		ç	IZE: 6'-0"			0		Incido	outside		Incido	Outside	
≥1.17' < 26'	Δ	12	$\geq 1.17' < 9'$	C	3.5	6"/8"	≥1.17' < 11'	C6.5		≥1.17' < 13'		D7	10"
21.17 < 20	А	12	21.17 < 9 9' < 15'		4.5	6"/8"	$\frac{21.17 < 11}{11' < 20'}$	D7	D7	$\frac{21.17}{13'} < \frac{13}{20'}$	E5	E5	10"
			15' < 26'		=.5 E3	8"	20' < 28'	E5	E5	20' < 28'	F5	F5	10"
	Inside	Outside			Outside	0	28' - 40'	F5	F5	28' - 40'	G5	G5	10"
26' - 40'	A12	A12	26' - 40'	D7	D7	8"		S	' ZE: 16'	-0" (Precast	Only)	1 1	
		5	IZE: 7'-0"	1	1				Outside			Outside	
	Inside	Outside		Inside	Outside		≥1.17' < 10'	C6.5	C6.5	≥1.17' < 9'	D7	D7	9"
≥1.17' < 25'	A12	A12	≥1.17' < 7'	B10	B10	8"	10' < 18'	D7	D7	9' < 13'	D4.5	D4.5	9"
26' - 40'	B10	B10	7' < 10'	B5.5	B5.5	8"	18' < 25'	E5	E5	13' < 19'	E5	E5	9"
			10' < 20'	C6.5	C6.5	8"	25' - 35'	F5	F5	19' < 27'	F5	F5	9"
			20' < 30'	D7	D7	8"				27' - 35'	G5	G5	9"
			30' - 40'	E5	E5	8"				ZE: 20'-0"			
			IZE: 8'-0"						Outside			Outside	
1.171 0.53		Outside			Outside		$\geq 1.17' < 10'$	C6.5	C6.5	≥1.17' < 8'	D7	D7	10"
≥1.17' < 20' 20' - 40'	A12	A12	$\geq 1.17' < 6'$	B5.5	B5.5	8"	10' < 17'	D7	D7	8' < 12'	E5	E5	10"
20' - 40'	С6.5	C6.5	6' < 13' 13' < 22'	C6.5 D7	C6.5 D7	8" 8"	17' - 30'	E5	E5	12' < 20' 20' - 30'	F5 G5	F5 G5	10" 10"
			13 < 22 22' < 31'	E5	E5	0 8"			25. 201	-0" (Precast		65	10
			31' - 40'	E 5	F5	8"			Outside		, ,,	Outsida	
		S	IZE: 9'-0"	, ,	1.5	0	≥1.17' < 8'	C6.5	C6.5	≥1.17' < 8'	D4.5	Outside D4.5	9"
	Inside	Outside		Incide	Outside		$\frac{21.17}{8'} < 0$	D7	D7	$\frac{21.17}{8'} < 0$	E5	E5	9"
≥1.17' < 12'	A12	A12	≥1.17' < 8'	C6.5	C6.5	8"	13' - 25'	E5	E5	12' < 19'	 	F5	 9"
$\frac{1}{12'} < 28'$	C6.5	C6.5	8' < 15'	D7	D7	8"				19' - 25'	G5	G5	
28' - 40'	D7	D7	15' < 23'	E5	E5	8"							-
			23' - 40'	F 5	F 5	8"	TABLE 4	NO	TES:				
		SI	ZE: 10'-0"							to the top			
	Inside	Outside		Inside	Outside		and to tr	е тор	or the i	ntermediate	siab to	or risers	
≥1.17' < 10'	B10	B10	≥1.17' < 10'	D7	D7	8"	2. Wall heig	ht is t	he dista	ance between	top of	f lower s	slab to
10' < 21'	C6.5	C6.5	10' < 17'	E5	E5	8"	exceedin	ыар. g 5', ог	™aximu 10'foi	m wall heigh r wall length	n IS I∠ S exce	eding 12	n ieng '.
21' < 26'	D7	D7	17' < 26'	F 5	F5	8"				2		5	
26' - 40'	C6.5	C6.5	26' - 40'	F 5	F5	10"	S. wan reng	uns ex	ceeuing	6'-0" require f cover from	= 1001	ayers of	<u>, r</u> emro

 t_1 and t_2 - Wall Thickness.

**Modified minimum wall thickness.

A_S- Vertical and horizontal areas of reinforcement.

*##Provide 0.20 eq. in.*²/ft. at each face, 12" max. bar spacing.

***Min. total circumferential reinforcement for continuous steel hoops:

Areas of reinforcing for precast items are based on Grade 60 reinforcing.

Area of vertical reinforcing may be reduced in accordance with ASTM C478.



STRUCTURE BOTTOMS TYPE J A

4. Wall lengths exceeding the dimensions or depths shown in Table 4, or 12'-0" diameter require a special design.

(See Table 4) with 2" of cover from the horizontal bars to the inside and outside faces for each layer.

5. Wall thickness and reinforcing for rectangular structures is based on the longer wall length.

ΤΑΕ	BLES 1, 2,	3, AND 4
and p	INDEX	SHEET
AND P	425-010	3 of 4

	SHORT		LONG	I-WAT	SHORT	J-VVAY	LONG	T-WAY	SHORT
SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)	SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)	SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH
SIZE:			6' x 6'	SIZE:			x UNLIMITED	SIZE: 3'-6"	
	≥0.5' < 10'	C3 5			>0.5' < 1.3'				≥0.5' < 8'
E5	10' < 19'	D4.5	10' < 18'	D7	13' < 23'	B5.5	24'-40'	B10 B5.5	8' < 13'
F5	19'-30'	E5	18' < 27'	E5	23'-40'			C6.5	13' < 31'
		E3	27' < 33'					D7	31'-40'
		F5	33'-40'						
SIZE:	I		6' x 7'	SIZE:		P10			0.5' < 7'
	>0.5' < 8'	(6.5		,	>0.5' < 8'			-	0.5 < 7 7' < 19'
E5	$\frac{1}{8'} < 14'$	C3.5	$\frac{1}{8'} < 12'$	D7	$\frac{1}{8'} < 16'$	C6.5	29'-40'	D7	$\frac{13}{9' < 31'}$
F5	14' < 23'	D4.5	12' < 21'	E5	16' < 28'			E5	31'-40'
G3.5	23'-31'	E5	21' < 28'	F5	28'-40'				
		<u>E3</u>	28' < 35'				5' x 5'	SIZE:	
CLZE		F 5				C6.5	≥0.5' < 3'	C6.5	0.5' < 3'
							3' < 13'	B5.5	$\frac{3'}{2} < \frac{7'}{2}$
									7' < 22' 2' < 29'
									<u>2 < 29</u> 29'-40'
15	11 122	D4.5	17' < 22'	F5	22' < 35'	25			20 10
'E: 9'x9'x10"	SIZ	E5	22' < 32'	G5	35'-40'	C6.5			0.5' < 12'
F5	22' < 36'	E3	32'-40'			B5.5	3' < 9'	D7	2' < 26'
G5	36'-40'		6' x 9'	SIZE:		С3.5	9' < 23'	E5	26'-40'
E: 10'×10'×10"	SIZE	B5.5	≥0.5' < 8'	D7	<u>≥</u> 0.5' < 8'	D4.5	23' < 35'		
C6.5	≥0.5' < 7'		8' < 14'	E5	8' < 14'	E5			
D7	7' < 10'							1	
E5	10' < 18'			65	24-34				0.5' < 10'
	18' < 27'		25 54						20' < 20' 20' < 34'
			UNLIMITED	SIZE: 6' x		04.5	51-40		34'-40'
		B5.5	≥0.5' < 8'	D7	≥0.5' < 8'				
		C6.5	8' < 14'	E5	8' < 14'		5' x 8'	SIZE:	
	16' < 10' 16' < 25'	C3.5	14' < 21'	F5	14' < 24'	B10	≥0.5' < 8'	C6.5	:0.5' < 7'
G5	25'-35'			G5	24'-34'	B5.5	8' < 17'	D7	7' < 13'
		<u>E5</u>	25'-34'			C6.5	17' < 25'	E5	13' < 24'
			7' x 7'	SIZE [,]		<i>C3.5</i>	25'-40'	F 5	24'-40'
		C6 5			>0.5' < 8'		5' y 0'	SIZE	
						R10			0.5' < 8'
		D4.5	7' < 11'	E5	15' < 26'				$\frac{0.5}{3'} < 14'$
	C	E3	11' < 22'	F5	26'-40'	C6.5	24' < 34'	E5	4' < 25'
LAB ANL	5	F 3.5	22' < 32'			С3.5	34'-40'	F5	25'-40'
Size is the	1.	<u>G3.5</u>							
Slab reinfo	2.	66.5							
intermediat						B10	$\geq 0.5' < 14'$	C6.5	0.5' < 8'
Rottom Cla	7	D4.5	8' < 13'	E5	11' < 19'				8' < 14' 4' < 25'
	3.	E3	13' < 22'	F5	19' < 30'				<u>4 < 25</u> 25'-40'
		F3.5	22' < 30'	G5	30'-40'	0010	57 10		20 10
Slab depth top of slab	4.	G3.5	30'-40' 7' x 9'	SIZE:					
Reinforcina	5	C6.5	<u>≥</u> 0.5′ < 7′	D7	≥0.5' < 9'				
may be sub	Э.	C3.5	7' < 10'	E5	9' < 15'				
or wire spa		D4.5	10' < 14'	F5	15' < 25'				
		E5		G5	25' - 34'				
areas of re									
(Bars A) SIZE: D7 E5 F5 G3.5 G3.5 G3.5 G3.5 G3.5 SIZE: D7 E5 G5 E: 9'x9'x10" F5 G5 E: 10'x10'x10" C6.5 D7 E5 G5 E: 12'x12'x12" D7 E5 G5 E: 12'x12'x12" C6.5 D7 E5 G5 E: 12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" D7 E5 G5 E: 12'x12'x12'x12" C6,5 C5 E: 12'x12'x12'x12" C6,5 C5 E: 12'x12'x12'x12" C6,5 C5 E: 12'x12'x12'x12" C6,5 C5 E: 12'x12'x12'x12" C6,5 C5 E: 12'x12'x12'x12" C6,5 C5 E: 12'x12'x12'x12" C6,5 C5 E: 12'x12'x12'x12'x12" C6,5 C5 E: 12'x12'x12'x12'x12' C6,5 E: 12'x12'x12'x12' C6,5 E: 12'x12'x12'x12' C6,5 E: 12'x12'x12'x12' C6,5 E: 12'x12'x12'x12' C6,5 E: 12'x12'x12'x12' C6,5 E: 12'x12'x12'x12' C6,5 E: 12'x12'x12'x12' E; 12'x12'x12' E; 12'x12' E; 12'x1	0' 0' 9' 8' '' 3' 8' '' 3' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5'	$\begin{array}{c c} DEPTH \\ \hline \\ \geq 0.5' < 1 \\ 10' < 19 \\ 19' - 30' \\ \hline \\ \\ \geq 0.5' < 8 \\ 8' < 14 \\ 14' < 23 \\ 23' - 31' \\ \hline \\ \\ \\ \hline \\ \\ \geq 0.5' < 8 \\ 8' < 14' \\ 14' < 22 \\ \hline \\ \\ 22' < 36 \\ 36' - 40' \\ \hline \\ \\ \\ \\ \geq 0.5' < 7 \\ 7' < 10 \\ 10' < 18 \\ 18' < 27 \\ 27' - 32' \\ \hline \\ \\ \\ \geq 0.5' < 1 \\ 10' < 16 \\ 16' < 25 \end{array}$	$(Bars B)$ $DEPTH$ (3.5) $\geq 0.5' < 1$ $D4.5$ $10' < 19$ $E5$ $19' - 30'$ $E3$ $10' < 19$ $F5$ $19' - 30'$ $E3$ $50.5' < 10$ $C6.5$ $\geq 0.5' < 40$ $C3.5$ $8' < 14$ $D4.5$ $14' < 23$ $E5$ $23' - 31'$ $E3$ $22' < 36$ $F5$ $36' - 40'$ $B5.5$ $20.5' < 40$ $C6.5$ $8' < 14$ $C3.5$ $14' < 22$ $D4.5$ $20.5' < 40$ $E5$ $36' - 40'$ $B5.5$ $36' - 40'$ $B6' - 53'$ <	DEPTH(Bars B)DEPTH $6' \times 6'$ $20.5' < 10'$ $C3.5$ $20.5' < 1$ $10' < 18'$ $D4.5$ $10' < 19$ $18' < 27'$ $E5$ $19'-30'$ $27' < 33'$ $E3$ $33'-40'$ $F5$ $33'-40'$ $F5$ $19'-30'$ $6' \times 7'$ $20.5' < 8'$ $C6.5$ $8' < 12'$ $C3.5$ $8' < 14'$ $12' < 21'$ $D4.5$ $23'-31'$ $28' < 35'$ $E3$ $23'-31'$ $28' < 35'$ $E3$ $35'-40'$ $5' \times 8'$ $23'-31'$ $23'-31'$ $20.5' < 6'$ $B5.5$ $8' < 14'$ $11' < 17'$ $C3.5$ $14' < 22'$ $17' < 22'$ $D4.5$ $22' < 36'$ $32'-40'$ $E3$ $6'$ $20.5' < 8'$ $B5.5$ $8' < 14'$ $C6.5$ $14' < 21'$ $C3.5$ $21' < 25'$ $D4.5$ $22' < 32'$ $E3$ $22' < 32'$ $E3$ $22' < 30'$ $F3.5$ $32'-40'$ $G3.5$ $7' \times 7'$ $C6.5$ $2' < 5'$ $C6.5$ $5' < 8'$ $C3.5$ $8' < 13'$ $D4.5$ $13' < 22'$ $E3$ $22' < 30'$ $F3.5$ $30'-40'$ $G3.5$ $7' \times 8'$ $22' < 23'$ $20.5' < 5'$ $C6.5$ $5' < 8'$ $C3.5$	(Bars A)DEPTH(Bars B)DEPTH $SIZE: 6' \times 6'$ $0.5' < 10'$ $C3.5$ $0.5' < 10'$ $23.5' < 10'$ $D7$ $10' < 18'$ $D4.5$ $10' < 19'$ $E5$ $18' < 27'$ $E5$ $19' - 30'$ $27' < 33'$ $E3$ $33' - 40'$ $10' < 19'$ $SIZE: 6' \times 7'$ $C3.5'$ $65.5'$ $8' < 14'$ $C6.5$ $20.5' < 8'$ $C6.5'$ $8' < 14'$ $28' < 35'$ $E3$ $8' < 14'$ $14' < 28' < 35'$ $E3$ $23' - 31'$ $28' < 35'$ $E3$ $8' < 14'$ $14' < 22'$ $23' - 31'$ $23' - 31'$ $5IZE: 6' \times 8'$ $E5$ $8' < 14'$ 65 $20.5' < 8'$ $85.5'$ 65 $22' < 32'$ $E5$ 65 $22' < 32'$ $25' - 34'$ 65 $21' < 25'$ $D4.5'$ $7' < 10'$ $20.5' < 8'$ $85.5'$ 65 $21' < 25'$ $D4.5'$ $7' < 10'$ $20.5' < 8'$ $85.5'$ 65 $21' < 25'$ $D4.5'$ $7' < 10'$ $20.5' < 8'$ $85.5'$ 65 $21' < 25'$ $D4.5'$ $7' < 10'$ $20.5' < 8'$ $85.5'$ 65 $20.5' < 14'$ $C6.5'$ $7' < 10'$ $20.5' < 8'$ $85.5'$ 65 $20.5' < 14''$ $C3.5''$ $7' < 10'$ $20.5' < 8''$ $85.5'''''''''''''''''''''''''''''''''''$	DEPTH(Bars A)DEPTH(Bars B)DEPTH $SIZE: 6' \times 6'$ $\ge 0.5' < 13'$ $C6.5$ $\ge 0.5' < 10'$ $C3.5$ $13' < 23'$ D7 $10' < 16'$ $D4.5'$ $23'-40'$ E5 $18' < 27'$ E5 $23'-40'$ E5 $18' < 27'$ E5 $23'-40'$ E5 $20.5' < 8'$ $C6.5'$ $20.5' < 8'$ $C6.5'$ $20.5' < 8''$ $C6.5''$ $8' < 16''$ D7 $8' < 12''$ C3.5'' $16' < 28''$ E5 $12' < 21''$ D4.5'' $28' < 40''$ F5 $21'' < 28''$ E5 $35' - 40''$ F5 $11'' < 17''$ C3.5'' $20.5' < 6''$ C6.5 $\ge 0.5' < 6'''$ B5.5'' $35' - 40''$ G5 $22'' < 32''''$ E5 $35' - 40'''$ G5 $21'' < 23'''''''''''''''''''''''''''''''''$	(Bars B) DEPTH (Bars A) DEPTH (Bars B) DEPTH S1ZE: $6 \times 6'$ $0.5' < 10$ (3.5) $20.5' < 10$ (3.5) B10 3.23 0.7 $10 < 18$ 0.45 $20.5' < 10$ (2.5) B10 $27' < 37$ $E3$ $20.5' < 10$ $(2.5' < 12)$ $20.5' < 12$ $20.5' < 12$ $20.5' < 12$ $20.5' < 12$ $20.5' < 12$ $20.5' < 12$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.5' < 20$ $20.$	DEPTH(Bars 8)DEPTH(Bars A)DEPTH(Bars 8)DEPTH \times UNLIMITED $22.4.20$ 810 24.40 85.5 24.40 65.5 24.40 65.5 24.40 65.5 22.40 65.5 $13 < 22$ 01 01 $10 < 11$ 29.40 65.5 29.40 66.5 29.40 66.5 29.40 66.5 29.40 66.5 29.40 66.5 $20.5 < 3$ 66.5 $20.5 < 4$ 66.5 $3 < 13$ 66.5 $22.5 < 2$ 65.5 $22.5 < 2$ 65.5 $22.5 < 2$ 25.5 $22.5 < 2$ 25.5 $22.5 < 2$ 25.5 $22.5 < 2$ 25.5 $22.5 < 2$ 25.5 $22.5 < 2$ 25.5 $22.5 < 2$ 25.5 $22.5 < 2$ 25.5 $22.5 < 2$ 25.5 $22.5 < 2$ 25.5 35.40 65.5 $22.5 < 32$ 65.5 35.40 65.5 $22.5 < 45.5$ 35.40 55.5 $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$ $22.5 < 45.5$	(Bars A) DEFTH (Bars B) DEFTH (Bars A) DEFTH (Bars B) DEFTH DEFTH DEFTH

FDOT

LAST REVISION 11/01/20



FY 2021-22 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J A

SLAB DEPTH	SLAB THICKNESS	REINF. (2-WAY)
		SCHEDULE
SIZ	E: 3'-6" DIAMET	rer
2'-15'	6" Precast	C6.5
0.5' < 30'	8"	A6
30'-40'	8"	B5.5
	E: 4'-0" DIAMET	rer in the second se
0.5' < 19'	8"	A6
9' < 30'	8"	B5.5
30'-40'	8"	<u> </u>
	"E: 5'-0" DIAMET	
0.5' < 15'	8" 8"	B5.5
<u>5' < 26'</u> 6' < 35'	8"	C6.5 D7
<u>0 < 55</u> 35'-40'	8"	D4.5
	E: 6'-0" DIAMET	
0.5' < 9'	8"	B5.5
9' < 15'	8"	C6.5
5' < 22'	8"	C 3.5
2' < 30'	8"	D4.5
30'-40'	8"	E5
SIZ	'E: 7'-0" DIAMET	<i>TER</i>
0.5' < 8'	8"	С3.5
8' < 16'	8"	D4.5
6' < 23'	8"	E5
<u>3' < 27'</u>	8"	<u>E3</u>
27'-40'	8"	F 3.5
	'E: 8'-0" DIAMET	-
1.5' < 10'	8"	D4.5
0' < 16' 6' < 19'	8" 8"	E5 E3
9' < 29'	8"	F 3.5
<u>9 < 29</u> 29'-40'	10"	F5
	E: 10'-0" DIAME	•
.5' < 12'		D4.5
2' < 20'	10"	E5
0' < 28'	10"	F5
28'-40'	10"	G3.5
SIZ	E: 12'-0" DIAME	TER
0.5' < 8'	10"	D4.5
8' < 13'	10"	E5
3' < 18'	10"	F5
8' < 26'	10"	G3.5
26'-40'	12"	G3.5

	TABLES	5 AND 6		
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