

FLAT SLAB TOP JOINT CONFIGURATIONS (Shown at access hole)



- Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.
- Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.
- The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).
- Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise

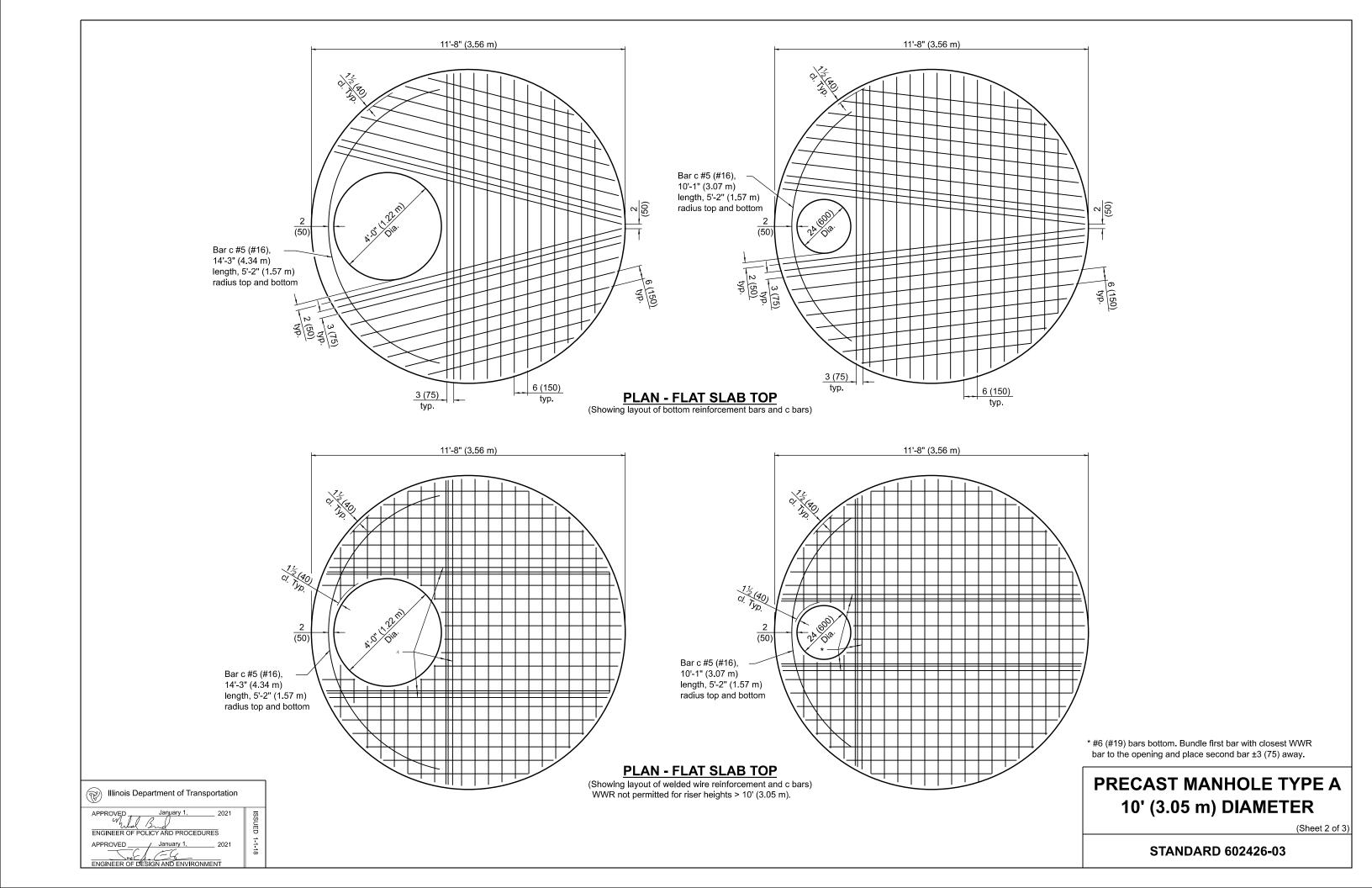
DATE	REVISIONS	
1-1-21	Revised Note 1.	•
3-1-19	Moved wall reinforcement of	
	4'-0" (1.22 m) riser from inside	
·	face to middle.	

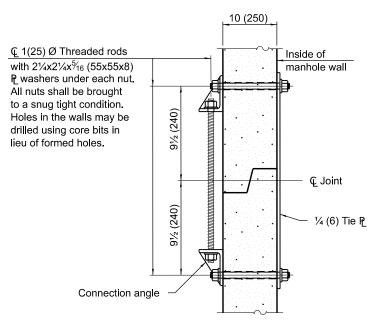
(Reinforcement not shown for clarity)

PRECAST MANHOLE TYPE A 10' (3.05 m) DIAMETER

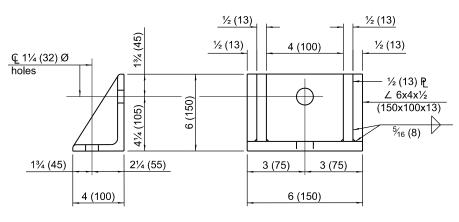
(Sheet 1 of 3)

STANDARD 602426-03

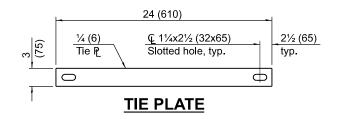




JOINT SPLICE



CONNECTION ANGLE



FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
Location		A _s (min.)	Spacing (max.)	A _s (min.)	Spacing (max.)	Bar Size
Тор	All	0.11 sq. in./ft.	18	0.11 sq. in./ft.	18	#3 or #4
Mat		(233 sq. mm/m)	(450)	(233 sq. mm/m)	(450)	(#10) (#13)
	RH ≤ 10 ft. (3.05 m)	** 0.88 sq. in./ft.	6	See plan view for rebar orientation and		#6
Bottom		(1863 sq. mm/m)	(150)			(#19)
Mat	RH > 10 ft. (3.05 m)	WWR not	WWR not permitted		spacing and this table for bar size	
	1417 1016 (3:03111)	vvvit not permitted				(#25)

^{**} Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar		
Location	Onentation	A _s (min.)	Spacing (max.)	
	Circumferential	0.12 sq. in./ft.	6	
4 ft. (1.22 m) Ø Riser		(254 sq. mm/m)	(150)	
4 II. (1.22 III) & RISEI	Vertical	0.045 sq. in./ft.	8	
		(95 sq. mm/m)	(200)	
	Circumferential	0.30 sq. in./ft.	6	
10 ft. (3.05 m) Ø Barrel		(635 sq. mm/m)	(150)	
Inside Mat	Vertical	0.045 sq. in./ft.	8	
		(95 sq. mm/m)	(200)	
	Circumferential	0 11 sq. in /ft.	6	
10 ft. (3.05 m) Ø Barrel		(233 sq. mm/m)	(150)	
Outside Mat	Vertical	0.045 sq. in./ft.	8	
	vertical	(95 sq. mm/m)	(200)	

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/	WWR or Rebar (each direction)		
Location	Total Height (TH)	A _s (min.)	Spacing (max.)	
	RH ≤ 10 ft. (3.05 m)	0.48 sq. in./ft.	6	
Тор	& TH ≤ 20 ft. (6.10 m)	(889 sq. mm/m)	(150)	
Mat	RH > 10 ft. (3.05 m)	0.78 sq. in./ft.	6	
	or TH > 20 ft. (6.10 m)	(1651 sq. mm/m)	(150)	
Bottom	All	0.11 sq. in./ft.	18	
Mat	All All	(233 sq. mm/m)	(450)	

PRECAST MANHOLE TYPE A 10' (3.05 m) DIAMETER

(Sheet 3 of 3)

STANDARD 602426-03