

5. HORIZONTAL REINFORCEMENT FOR WALL CORNERS (Ⓐ BARS ON DRAWING WI-745)

THICKNESS WALL HEIGHT		NO SURCHARGE					
		GRADE 40			GRADE 60		
		8"	10"	12"	8"	10"	12"
7'		#4 @ 12"	NA	NA	#4 @ 18"	NA	NA
8'		#4 @ 10"	#4 @ 14"	TS	#4 @ 16"	#4 @ 18"	TS
10'		#5 @ 8"	#5 @ 10"	TS	#5 @ 12"	#4 @ 10"	TS
12'		#6 @ 6"	#5 @ 6"	#5 @ 8"	#5 @ 6"	#5 @ 10"	#5 @ 12"

THICKNESS WALL HEIGHT		WITH SURCHARGE					
		GRADE 40			GRADE 60		
		8"	10"	12"	8"	10"	12"
7'		#4 @ 10"	NA	NA	#4 @ 12"	NA	NA
8'		#4 @ 6"	#4 @ 10"	TS	#4 @ 10"	#4 @ 15"	TS
10'		#5 @ 6"	#5 @ 8"	#5 @ 10"	#4 @ 6"	#4 @ 8"	#4 @ 10"
12'		NA	NA	#5 @ 6"	NA	NA	#5 @ 9"

TS - NO ADDITIONAL STEEL NEEDED

NA - NOT APPLICABLE COMBINATION OF THICKNESS AND HEIGHT

6. TYPICAL PRECAST LID THICKNESSES

SLATS FOR LIVESTOCK - 6"

SLATS FOR EQUIPMENT - 9 1/2"

DRIVE THROUGH PANEL - 9 1/2"

*ANY PRECAST COMPONENTS SHALL BE DESIGNED FOR THE MAXIMUM LOADING CONDITIONS ANTICIPATED.

7. TANK BOTTOM SLAB REINFORCEMENT

TANK BOTTOM SLAB SHALL HAVE REINFORCEMENT EQUAL TO OR GREATER THAN THE FOLLOWING:

REINFORCING STEEL FOR SLABS IN THE "LONG" DIRECTION			
SLAB THICKNESS (INCHES)	REBAR SIZE (GR 60) AND SPACING		
	SLAB LENGTH*		
	<100'	<150'	<175'
10	#4 @ 10"	#4 @ 7"	#4 @ 6"
	#5 @ 16"	#5 @ 11"	#5 @ 9"
12	#4 @ 8"	#4 @ 5"	#4 @ 5"
	#5 @ 13"	#5 @ 9"	#5 @ 7.5"

REINFORCING STEEL FOR TANK SLABS IN THE "SHORT" DIRECTION (TANKS 12' OR LESS IN WIDTH)	
SLAB THICKNESS (INCHES)	REBAR SIZE (GR 60) AND SPACING
10	#4 @ 10"
	#5 @ 16"
12	#4 @ 8"
	#5 @ 13"

*SLAB LENGTH OR DISTANCE BETWEEN WATERSTOP JOINTS IN SLAB.



United States
Department of
Agriculture

Natural Resources
Conservation Service

RECEPTION TANK DESIGN

CLIENT: _____
COUNTY: _____

Date _____
Designed _____
Date _____
Drawn _____
Checked _____
Date _____
Approved _____

File Name
WI-741C
Date
07/14
Sheet of