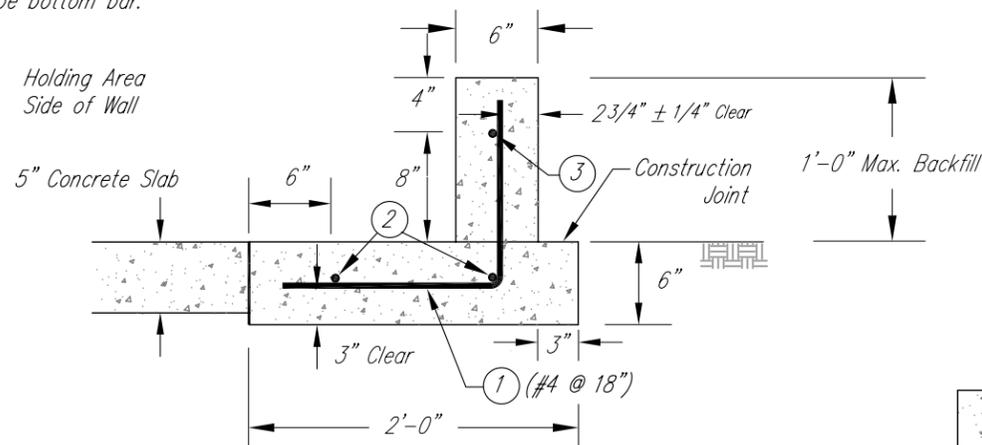
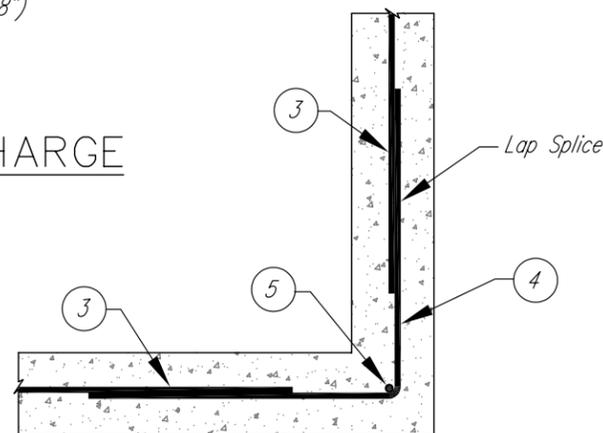


PROFILE WITH SURCHARGE

Note: (1) Bars shall always be the bottom bar in floor net of steel. Where (1) bars cross, (1) closest to wall shall be bottom bar.



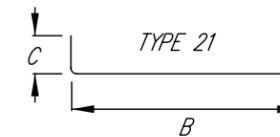
PROFILE WITHOUT SURCHARGE



PLAN VIEW  
WALL AND CORNER DETAIL

Dimensions in inches or feet-inches

STRAIGHT  
TYPE 1



BAR SCHEDULE

MARK	SIZE	QUANTITY	LENGTH	TOTAL LENGTH	TYPE	B	C	LOCATION
1	#4				21		1'-0"	Footing/wall
2	#4, or #5				1			Footing
3	#4 or #5				1			Wall
4	#4		5'-0"		21	2'-6"	2'-6"	Wall corner
5	#4		0'-10"		1			Wall corner tie bar

Note: For wall without surcharge - Mark 1 length = 2'-3", B = 1'-3"  
For wall with surcharge - Mark 1 length = 2'-9", B = 1'-9"

NOTES:

FOUNDATION AND BACKFILL

- Backfill to the outside of the walls with granular non-cohesive material. Backfill in horizontal layers not exceeding 4 inches in thickness before compaction.

CONCRETE

- Concrete shall conform to the requirements of Construction Specification MI-158, Reinforced Concrete.
- Construction joints shall be left rough and wetted before concrete placement.

REINFORCING STEEL

- Steel reinforcement shall conform to the requirements of Construction Specification MI-158. Grade 40 or better reinforcing steel is required.
- Specified bar dimensions are measured to outside edge of all bends.
- Radius of bend equals 3 bar diameters.
- For unjointed wall sections or sections less than 70 feet, use size #4 @ 18" for (2) and (3). For unjointed wall lengths of 70 to 110 feet, use size #5 @ 18 in. for (2) and (3).
- Minimum Lap Splice: 15 in. for #4  
19 in. for #5

DESIGN ASSUMPTIONS

- Wall backfill side loading: 60 psf/ft. depth + surcharge @ 100 psf. (Granular soil material)
- Holding area side loading: 80 psf/ft. depth.
- Structure drainage condition: Full drainage behind wall.
- Concrete:  $f'_c = 3,500$  psi, Reinforcing steel:  $f_s = 40$  ksi.
- Minimum soil bearing capacity: 1000 psf.

NOT TO SCALE

MICHIGAN ENGINEERING STANDARD DRAWING	
FILE NAME	MI-601-B 6-08.dwg
STANDARD DWG. NO.	MI-601-B
DATE	6-08
SHEET	1 OF 1

Date	
Designed	
Drawn	
Checked	
Approved	

1 FOOT REINFORCED CONCRETE WALL

Co., Michigan  
Township, T. -R., Sec.



File Name	
Drawing Name	
Sheet	of