

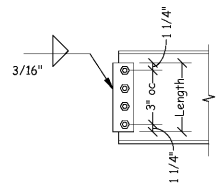
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Structural Engineer
Pell City, AL 205.884.5334

08.27.2020

TIMOTHY AHO, ARCHITECT
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Shear Plate Connection Schedule

Length	# of bolts	End reaction	Min plate thickness
6"	2	8.2k	1/4"
9"	3	16.3k	1/4"
12"	4	26.1k	1/4"
15"	5	36.3k	1/4"
18"	6	46.3k	1/4"
21"	7	56.4k	1/4"



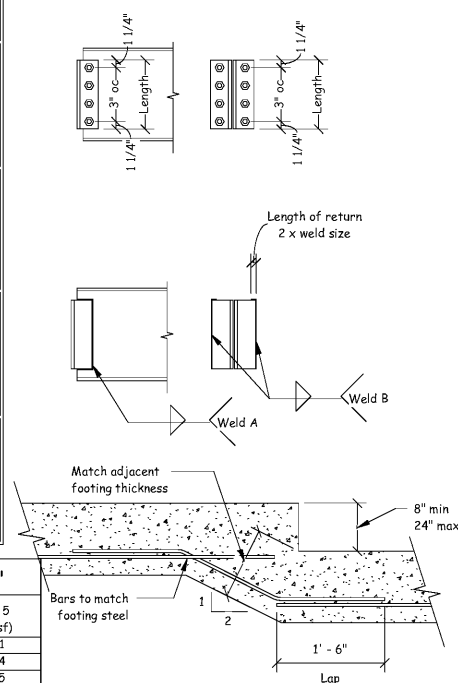
Frame Connection Schedule

Length	# of bolts	End reaction	Min angle thickness
5-1/2"	2	37.1k	5/16"
8-1/2"	3	55.3k	5/16"
11-1/2"	4	72.7k	5/16"
14-1/2"	5	88.7k	5/16"
17-1/2"	6	104.0k	5/16"

Length	Size of Weld A	End reaction	Min angle thickness
5-1/2"	3/16"	37.1k	5/16"
8-1/2"	3/16"	55.3k	5/16"
11-1/2"	3/16"	72.7k	5/16"
14-1/2"	3/16"	88.7k	5/16"
17-1/2"	3/16"	104.0k	5/16"

Length	Size of Weld B	End reaction	Min angle thickness
5-1/2"	1/4"	14.6k	5/16"
8-1/2"	1/4"	32.2k	5/16"
11-1/2"	1/4"	53.4k	5/16"
14-1/2"	1/4"	76.6k	5/16"
17-1/2"	1/4"	101.0k	5/16"

Dept of beam	Min length of angle	Dept of beam	Min Length of angle
W12	5-1/2"	W24	11-1/2"
W14	5-1/2"	W27	11-1/2"
W16	5-1/2"	W30	14-1/2"
W18	8-1/2"	W33	14-1/2"
W21	8-1/2"	W36	17-1/2"



Components and Cladding Schedule a = 3.4'

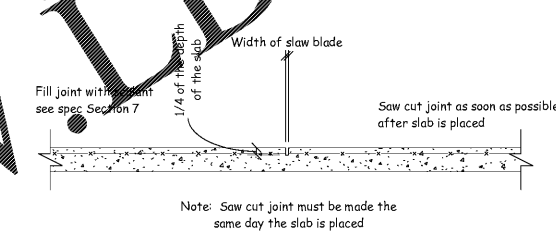
Area(sf)	Zone 1,2,3 (+) (psf)	Zone 1 (-) (psf)	Zone 2,3 (-) (psf)	Zone 4,5 (+) (psf)	Zone 4 (-) (psf)	Zone 5 (-) (psf)
10	29.4	-32.1	-37.6	32.4	-34.9	-43.1
50	27.6	-28.4	-33.8	28.8	-31.5	-36.4
100	26.7	-26.7	-32.4	27.4	-30.1	-33.5

Reinforcing Steel Lap Splice

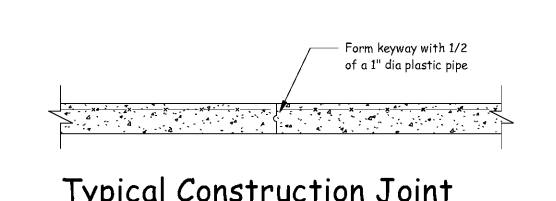
Bar Size	Column Splices		Bm, Ftg & Wall Splices		CMU Wall Splices
	Top Bars	Other Bars	Top Bars	Other Bars	
# 3	12"	19"	15"	18"	18"
# 4	15"	25"	19"	24"	24"
# 5	19"	31"	24"	30"	30"
# 6	23"	37"	29"	36"	36"
# 7	26"	54"	42"	42"	42"
# 8	30"	62"	48"	48"	48"
# 9	34"	70"	54"	54"	54"
# 10	38"	79"	61"	60"	60"
# 11	42"	87"	67"	66"	66"

- Notes:
- Top bars are any horizontal reinforcing steel that has another layer of steel more than 2" below the bars or reinforcing steel that has more than 12" of concrete below the bars.
 - All horizontal reinforcing bars in walls may be detailed as "Other Bars".
 - All corner bars may be detailed as "Other Bars".

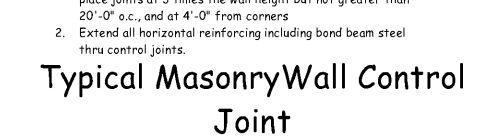
Typical Anchor Bolt Detail



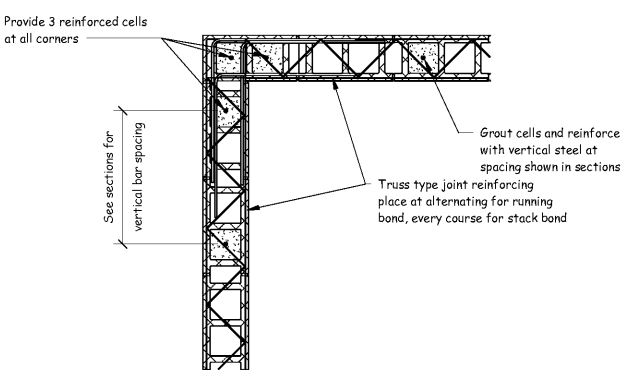
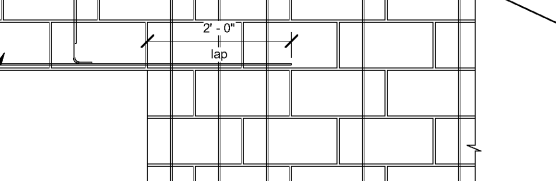
Typical Control Joint



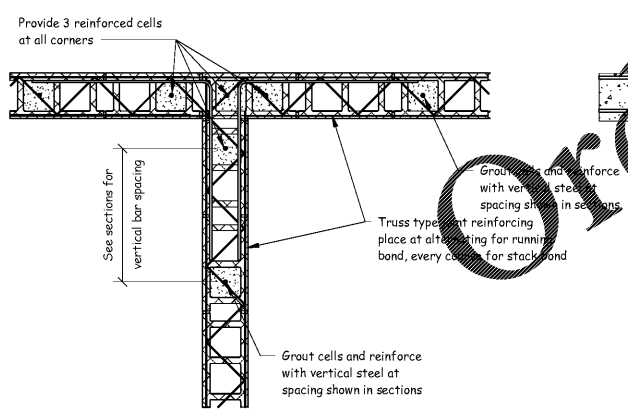
Typical Masonry Wall Control Joint



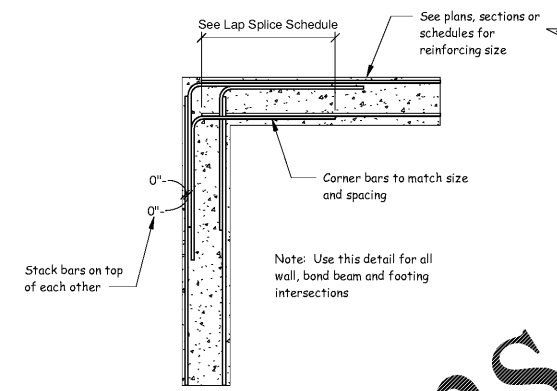
Typical Construction Joint



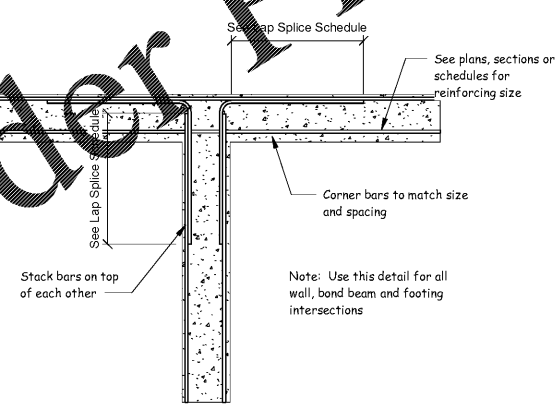
Typical Joint Reinforcing at Corner



Typical Joint Reinforcing at Intersection

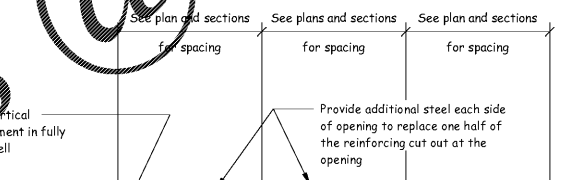


Typical Beam, Wall or Footing Reinforcing at Corners

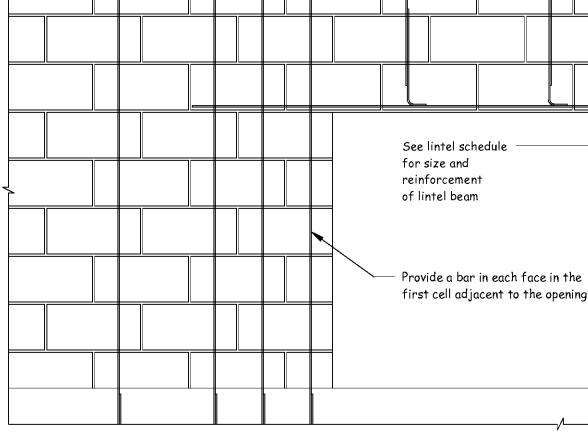


Typical Beam, Wall or Footing Reinforcing at Intersections

Multiple Footing Step

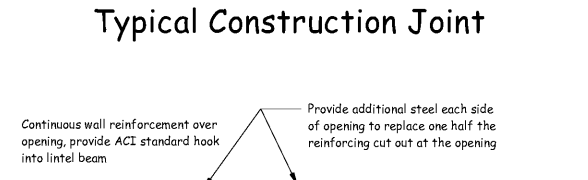


CMU Lintel Elevation

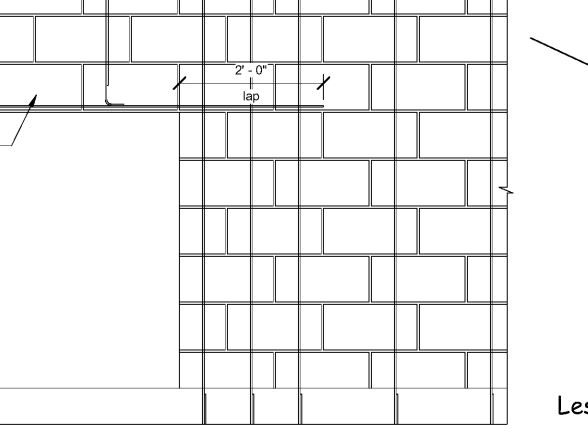


CMU Lintel Section

Typical Construction Joint



CMU Lintel Section



CMU Lintel Section

Express Oil Change & Tire Engineers
Service Building (Hurricane)
2265 O'Neal Lane
Baton Rouge, LA 70816

FINAL

No.	Description	Date

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Typical Details

Project number	20025
Date	08.27.2020
Drawn by	jcj
Checked by	jd
Scale	3/4" = 1'-0"