

GROSS ULTIMATE WIND LOADS MAIN ROOF ROOFING MATERIALS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	35.2	35.2	35.2
SUCTION (psf)	-55.4	-91.4	-91.4

NET ULTIMATE WIND LOADS OVERHANGS AND CANOPIES TRUSSES			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	25.4	25.4	25.4
SUCTION (psf)	-105.1	-121.4	-121.4

MASONRY REINF. LAP SCHEDULE	
BAR SIZE	LAP LENGTH
#3 BAR	20"
#4 BAR	26"
#5 BAR	32"
#6 BAR	43"
#1 BAR	60"

CONCRETE BEAM TENSION LAP SPLICE SCHEDULE				
BAR SIZE	LOCATION	CONCRETE STRENGTH		
		3,000 PSI	4,000 PSI	5,000 PSI
#4	TOP BARS	31"	32"	39"
	OTHER BARS	29"	28"	28"
#5	TOP BARS	41"	42"	36"
	OTHER BARS	35"	31"	28"
#6	TOP BARS	51"	48"	43"
	OTHER BARS	43"	37"	33"
#1	TOP BARS	61"	70"	63"
	OTHER BARS	63"	54"	49"
#8	TOP BARS	93"	80"	72"
	OTHER BARS	72"	62"	55"
#9	TOP BARS	105"	91"	81"
	OTHER BARS	81"	70"	63"
#10	TOP BARS	118"	102"	91"
	OTHER BARS	91"	79"	70"

GROSS ULTIMATE WIND LOADS MAIN ROOF TRUSSES			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	25.4	25.4	25.4
SUCTION (psf)	-50.8	-12.5	-12.5

ULTIMATE WIND PRESSURES (PSF) EXTERIOR DOORS, WINDOWS, WALLS					
EFFECTIVE AREA (ft <sup>2</sup> )	ZONE 4		ZONE 5		
	PRESSURE	SUCTION	PRESSURE	SUCTION	
1 TO 20	61.1	-66.3	61.1	-81.8	
21 TO 50	50.0	-63.2	50.0	-76.1	
51 TO 100	54.9	-60.1	54.9	-68.9	
101 TO 150	51.8	-57.0	51.8	-63.7	
151 TO 250	50.2	-55.4	50.2	-60.1	
251 TO 500	48.2	-53.4	48.2	-56.5	
501 + ABOVE	45.6	-50.8	45.6	-50.8	

NOTE:  
1. TABLE BASED ON BAR STRENGTHS LESS THAN 80%

### VERTICAL REINFORCEMENT BAR LAP SCHEDULE - MASONRY

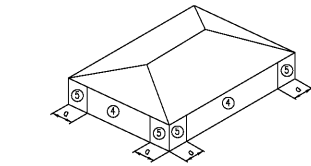
VERTICAL REINFORCEMENT BAR LAP SCHEDULE				
BAR SIZE	COMPRESSION LAP	CLASS "B" TENSION LAP		
		3,000 PSI	4,000 PSI	5,000 PSI
#5	25"	36"	31"	28"
#6	30"	43"	37"	33"
#1	35"	63"	54"	49"
#8	40"	72"	62"	55"
#9	44"	81"	70"	63"
#10	50"	91"	79"	70"

NOTES:  
1. BASED ON NORMAL WEIGHT CONCRETE # GRADE 60 REINFORCING BARS

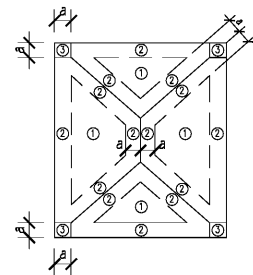
### VERTICAL REINFORCEMENT BAR LAP SCHEDULE - CONCRETE

### CONCRETE BEAM TENSION LAP SPLICE SCHEDULE

NOTES:  
1. BASED ON NORMAL WEIGHT CONCRETE # GRADE 60 REINFORCING BARS.  
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.  
3. FOR LIGHTWEIGHT AGGREGATE, MULTIPLY ABOVE VALUES BY 1.3.



### DOORS, WINDOWS AND WALLS



- a = 8.8 ft (MAIN BLDG.)  
a = 8.9 1/2 ft (APPARATUS BAY)
- THIS BUILDING IS DESIGNED AS AN ENCLOSED STRUCTURE. ALL EXTERIOR COMPONENTS (DOORS, WINDOWS, ETC.) MUST BE DESIGNED TO WITHSTAND THE WIND LOADINGS SPECIFIED FOR THE DESIGN OF COMPONENTS AND CLADDING IN THE TABLES. IN ADDITION, ALL AREAS OF EXTERIOR GLAZING MUST BE CERTIFIED FOR MISSILE IMPACT OR PROTECTED BY WIND-BORNE DEBRIS BY A SCREEN BARRIER.
- TO CONVERT THE (ASCE 1-10) ULTIMATE WIND PRESSURES IN THE TABLES ABOVE TO (ASD) WIND PRESSURES, MULTIPLY EACH VALUE BY 0.6.

HIP ROOF (1° < θ < 21°)

### COMPONENT AND CLADDING LOADING DIAGRAMS

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Pasco County  
Fire & Rescue Station  
No. 17  
New Port Richey, Florida

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FGA PROJECT NUMBER  
19039

ISSUE DATE  
05-25-20

SHEET NUMBER  
S0.3

WIND SCHEDULES AND LAP SCHEDULE

S0.3  
18"x11"