	Page 1/3				
	ISO Fire Flow Workshe	et			
	Needed Fire Flow Work Sheet (ISO	formulas)		NFF = (Ci)(Oi)(Xi+Pi)	
				C=18F(Ai)^0.5	
Address:					
Project Name:	CK Maricamp		Occupancy Type:	Retail	
Construction Type:			Number of Stories:	1	
STEP 1	Take the area, which is 100% sq. ft. of the first floor plus the following percentage of the other floors.				
	First Floor Area in Sq. Ft	7885	Sq. Ft. @ 100%		
	Additional Floors				
	Enter total area in sq. ft for all other floors	0			
	Total Area Entire Building	7885			
STEP 2	F = Coefficient related to the class of construction type found in SBCCI	ction as dete	rmined by using the		
	Construction Type	Class	F Value		
	Frame	1	1.5		
	Joist Masonry	2	1		
	Non-combustible	3	0.8		
	Heavy Timber	4	0.8		
	Modified fire resistance	5	0.6		
	Fire resistive	6	0.6		
	Construction Class	2			
	Square Root of the Area x F x 18	1500	= C Value		

	FIRE & RESCUE	Page 2/3
	ISO Fire Flow Worksheet	
	Needed Fire Flow Work Sheet (ISO formulas)	
STEP 3	Multiply result of rounded off GPM by the Occupancy Factor (Oi)	Occupancy Factor
	Noncombustible (C-1) = No active fuel loads such as storage of asbestos, clay, glass, marble, stone, or metal products.	0.75
	Limited - Combustible (C-2) = Limited fuel loads such as airports, apartments, art studios, auto repair, auto showroom, aviaries, banks, barber shops, beauty shops, churches, clubs, cold storage warehouses, day care center, educational occupancies, gas stations, green houses, health clubs, hospitals, jails, libraries, medical labs, motels, museums, nursing homes, offices, radio stations, recreation centers, and rooming houses.	0.85
	Combustible (C-3) = Moderate fuel loads such as auto part stores, auto repair training center, bakery, bookstores, bowling centers, casinos, commercial laundries, contractor equipment storage, dry cleaners with no flammable fluids, leather processing, municipal storage buildings, nursery sales stores, pavilions, pet shops, photographic supplies, printers, restaurants, shoe repair, supermarkets, theaters, vacant buildings, and most wholesale & retail sales ocuppancies.	1.0
	Free-Burning (C-4) = Active fuel loads such as aircraft hangers, cabinet making, combustible metals, dry cleaners using flammable fluids, feed stores, furniture stores, kennels, lumber, packaging and crating, paper products manufacturing, petroleum bulk distribution centers, tire manufacturers, tire recapping or retreading, wax products, and wood working shops.	1.15
	Rapid-Burning (C-5) = Contents that burn with great intensity, spontaneously ignite, have flammable or explosive vapors, or large quantities of dust such as ammunition, feed mills, fireworks, flammable compressed gases, flammable liquids, flour mills, highly flammable solids, matches, mattress factories, nitrocellulose-based products, rag storage, upholstery shops, & waste paper storage.	1.25
	Occupancy Class Selected (1 thru 5) 2 GPM x Oi 1275	
	FIRE & RESCUE	Page 3/3

	ISO Fire Flow Worksheet						
	Needed Fire Flow Work Sheet (ISO formulas)						
STEP 4	Now consider the exposure factor (Xi) - (Separation between buildings)						
	Distance (feet to the exposed building)						
	0-10	0.22	0.47				
	11-30	0.18	0.43				
	31-60	0.13	0.38				
	61-100	0.09	0.34				
	Distance, in feet, to the exposed building	57					
		0.42					
	Xi (from table)	0.13					
	Multiply GPM from step 4 by (1+Xi)						
	Total From Step 4	1441					
			_				
STEP 5	Approved Fire Sprinkler System? (Y or N)	N					
	Take fire flow from step 5 and multiply by sprink		of 0.25				
	Sprinkler credit	0					
	Now subtrast aprinklar gradit from fire flow in stop 4						
	Now subtract sprinkler credit from fire flow in step 4						
	NEEDED FIRE FLOW	1500) GPM				
		1000					



GREATER NAPLES FIRE RESCUE DISTRICT FIRE AND LIFE SAFETY 2700 N Horseshoe Dr. • Naples, FL 34104 Phone: (239)774-2800 Fax: (239)774-3116

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	Hydrant Flow To	est
Date: <u>6-8-17</u>	Time: <u>11:15 AM</u>	Tested By: JCKK
Location: 3608 Tamia		
		Gra Date: 5/30/2017
		jorgenhernandez @avidgroup.com
		· · · · · · · · · · · · · · · · · · ·
	Hydrant Flow Disch	arge
Static Pressure: 53		Residual Pressure: <u>33</u>
Port Size: <u>472</u>	Flow PSI: _/ 3	GPM: <u>//94</u>
Port Size:	Flow PSI:	GPM:
Port Size:	Flow PSI:	GPM:
		Total Flow: 1194
	Fire Flow	@ 20 PSI Residual:
Inspector Comments:		
	<i>a</i>	· · · · · · · · · · · · · · · · · · ·
	Ster	-H. Khy.
	Fire C	fficial's Signature
Inspection Fee: \$150-		
Paid By: DCredit Card DCheck	Check #: <u>2924</u>	Date Received: 5/30/17

Professionalism	~	Integrity ~	Compassion
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