CMGT 235 – Electrical and Mechanical Systems

	C: I	D . III	E	Cala larea.
Homework #31 –	Single-Family	/ Dweiling Service	Entrance	Calculation

Due: 12/12/2019

Points: 20

Name:	

1. Complete the Single-Family Dwelling Service-Entrance Calculations (Standard) Form for the following: Single-Family Dwelling – Service Entrance Calculations (Standard)

Single Farming Dwelling Service Entrance calculations (Standard)					
2650 ft ² of Living Floor Area		1	Dishwasher: 12 AMPS, 120V		
4	4 Small-Appliance Branch Circuits		Garbage Disposal: ½ hp, 115V		
2	Laundry Branch Circuits	1	Trash Compactor: 10 AMPS, 120V		
1	Electric Dryer: 5.2 kW, 240V	2	Attic Fans: 1/4 HP, 120V		
1	Wall-mounted Oven: 6 kW, 240V	1	Garage Door Opener: ¾ hp, 120V		
1	Electric Range: 13 kW, 240V	1	Central A/C Unit: 28A, 240V		
1	Under-Cabinet Microwave Oven: 12A, 120V	1	Electric Heater: 4 kW		

2. Show Calculation for:

Step 7. Electric Range, Wall-Mounted Ovens, Counter-Mounted Cooking Units Wall-mounted oven and Electric Range are supplied from a single branch circuit and located in the same room.

Step 21. Raceway Size

	QTY	GAUGE	TYPE	Cross-Section Area		
						EMT
l.				Total Cross-Section Area		