



BLDG TYPE VI
1

Electric Service Planning Application (ESPA)

For services over 350 amps 1-phase or 225 amps 3-phase.

Fill out one ESPA per main disconnect or distribution enclosure. Review of this application may result in a request for additional information.

Service Center	
Location for customer to turn in the completed ESPA for approval. Please check one. A map of service center locations can be found at http://www.austinenenergy.com/go/designContacts . (All downtown Network requests should be sent to the South service center)	
<input type="checkbox"/> North: Kramer Service Center 2412 Kramer Lane Bldg C. Austin, TX 78758 Ph: 512-505-7206; Fax: 512-505-7208	<input checked="" type="checkbox"/> South: St. Elmo Service Center 4411B Meinardus Dr; Austin, TX 78744 Ph: 512-505-7500; Fax: 512-505-7142 <input type="checkbox"/> Network (Downtown Area) (Address and phone same as above)

Customer & Project Information

Contact Name: EN, Incorporated	Title: <input checked="" type="checkbox"/> Electrical Engineer <input type="checkbox"/> Electrical Contractor <input type="checkbox"/> Other
Phone: 512-918-9315	Fax: 512-918-9318
Email: drawings@enincorporated.com	
Signature: <u>Jawad Fozzy</u>	Date: 10/07/13
Project Name: Marquis at Barton Trails	Project Type: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Remodel <input type="checkbox"/> Dual Feed
Project Address: 5501 S. Mopac; Austin, TX 78749	Estimated Service Need Date: _____
Nearest Intersection: _____	Service Duration: <input checked="" type="checkbox"/> Permanent Service <input type="checkbox"/> Construction Power/Temporary Service (less than 24 months)
Service Provider: <input checked="" type="checkbox"/> Austin Energy <input type="checkbox"/> Other	

Electrical Information

Refer to the appropriate table in the Austin Energy Criteria Manual for available electric services.

Type of Service Requested: <input type="checkbox"/> Overhead <input type="checkbox"/> Underground Secondary (Secondary Riser) <input checked="" type="checkbox"/> Underground Primary (Padmount Transformer)	Service Voltage Requested: <input checked="" type="checkbox"/> 120/240 V, 1 ϕ 3 Wires <input type="checkbox"/> 480/277 V, 3 ϕ 4 Wires <input type="checkbox"/> 208/120 V, 3 ϕ 4 Wires <input type="checkbox"/> 240/120 V, 3 ϕ 4 Wires (Overhead or secondary riser ONLY) <input type="checkbox"/> Other _____	Service Main Disconnect (1 st interrupting device) or Distribution Enclosure size: <input type="checkbox"/> 100 Amps <input checked="" type="checkbox"/> 1200 Amps <input type="checkbox"/> 200 Amps <input type="checkbox"/> 1600 Amps <input type="checkbox"/> 400 Amps <input type="checkbox"/> 2000 Amps <input type="checkbox"/> 800 Amps <input type="checkbox"/> Other _____
Additional Service & Electrical Load Information: Building Use (Residential, Warehouse, Restaurant, Retail, Office, Mixed Use, etc.): <u>BLDG TYPE VI #1</u> FT ² /Average Unit: <u>936</u> # Units: <u>20</u> Total Building FT ² : <u>21,621</u> Fuel Type: <input type="checkbox"/> All Electric <input checked="" type="checkbox"/> Gas & Electric Total NEC Calculated Load: <u>987.2</u> Service Wire Type, Size, & Quantity: _____ Service Length: _____		New Metered Service Size(s): 1. Meter Can Size <u>100</u> x # Meters <u>20</u> 2. Meter Can Size <u>125</u> x # Meters <u>1</u> 3. Meter Can Size _____ x # Meters _____ 4. Meter Can Size _____ x # Meters _____ (For multiple meters attach a list of unit #'s.) Number of Existing Meters: _____
Distributed Generation: <input type="checkbox"/> Yes System Type: _____ (Solar, Wind, etc.) System Size: _____ (kW)		

Application expires 180 days after date of approval. Any change to the above information requires a new ESPA.

For internal use only - One Stop & Design Department Service Center

<input checked="" type="checkbox"/> Design Required <input type="checkbox"/> Service Only
AE Rep: <u>Samir Salame</u> Phone: <u>505-7667</u> Date: _____
Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments: _____

AE APPROVED
Verification Stamp
OCT 29 2013
SES

For internal use only - Metering Department; 2526 Kramer Ln Building E; Ph: 512-505-7045; Fax: 512-505-7103

Metering CT's Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	Size CT's: _____
--	------------------

For internal use only - Permitting Department; 505 Barton Springs Rd; 2nd Floor; Ph: 512-974-2747; Fax: 512-974-6578

Electric Permit #: _____

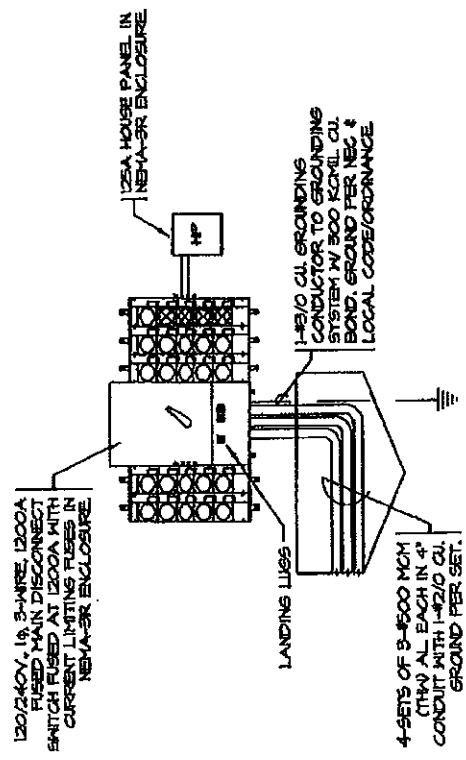
North Meter Pick-Up: 2526 Kramer Ln. Bldg E South Meter Pick-Up: 4411B Meinardus Dr

TYPE VI
#1

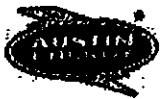
987.2
80%
789.7 A

66KVA

ELECTRICAL CALCULATION FOR BUILDINGS				
BUILDING TYPE VI	QUANTITY			
UNIT FABRICATION	A1	A3	A3	B4
UNIT TYPE	Total Unit Count			
	Service Voltage/Phase			
	240 V., 1φ			
MAIN POWER CALCULATION				
GENERAL LIGHTING	23688	18244	7652	
MICROHOOD	18200	9000	9000	
SM APPL, DWM, DISP, REF	81880	40880	13880	
RANGE	90000	46000	16000	
WASHER	18000	9000	9000	
DRYER	60000	30000	10000	
WATER HEATER (GAS)				
HEATING LOAD	20148	14828	8010	
TOTAL CONNECTED WATTAGE	317788	187652	59122	
DEMAND FACTOR	0.39	0.38	0.39	
DEMAND WATTAGE	123782	85736	22688	
ADDITIONAL HOUSE WATTAGE				
TOTAL DEMAND WATTAGE	123782	85736	22688	
TOTAL DEMAND AMPS (PER UNIT TYPE)	503.2	285.4	218.6	
TOTAL DEMAND AMPS (PER BUILDING TYPE)			987.2	
POWER CENTER (AMP)			1200	
QUANTITY PER BUILDING			1	
MAIN NEUTRAL CALCULATION				
115V LOAD WATTS	141848	75324	27112	
FIRST 3000W @ 100% (NEC 220-11)	5000	3000	3000	
REMAINDER @ 95 %	46527	25313	8439	
DRYER & RANGE @ 70% (NEC 220-22)	38220	30450	14700	
ADDITIONAL HOUSE WATTAGE				
TOTAL NEUTRAL WATTS	8747	58763	66138	
TOTAL NEUTRAL AMPS	373.8	244.9	283.9	
FURTHER NEUTRAL DEMAND CALC (NEC 220-22)				
TOTAL NEUTRAL AMPS			857.7	
FIRST 200 NEUTRAL AMPS @ 100%			200.0	
REMAINDER @ 70%			458.6	
TOTAL NEUTRAL AMPS (PER UNIT TYPE)			658.6	
TOTAL NEUTRAL AMPS (PER BUILDING TYPE)			658.6	
SERVICE CONDUCTOR SIZE				
* ALL SIZES SHOWN ARE FOR 70% ALUMINUM				
NUMBER OF RUNS (PER METER BANK)	4			
POWER	2			
QUANTITY	500			
SIZE	1			
NEUTRAL	500			
QUANTITY	4"			
SIZE	1			
CONDUIT SIZE	250			
NUMBER OF METER BANKS PER BLDG.				
GROUNDING CONDUCTOR TO GROUNDING SYSTEM				
* ALL SIZES SHOWN ARE FOR AL OR CU/AL-CU				



METER BANK
BLDG TYPE VI
BLDG #1
20+1
NTS.



BLDG TYPE I
2

Electric Service Planning Application (ESPA)

For services over 350 amps 1-phase or 225 amps 3-phase.

Fill out one ESPA per main disconnect or distribution enclosure. Review of this application may result in a request for additional information.

Service Center	
Location for customer to turn in the completed ESPA for approval. Please check one. A map of service center locations can be found at http://www.austinenenergy.com/go/designContacts . (All downtown Network requests should be sent to the South service center)	
<input type="checkbox"/> North: Kramer Service Center 2412 Kramer Lane Bldg C Austin, TX 78758 Ph: 512-505-7206; Fax: 512-505-7208	<input checked="" type="checkbox"/> South: St. Elmo Service Center 4411B Meinardus Dr; Austin, TX 78744 Ph: 512-505-7500; Fax: 512-505-7742 <input type="checkbox"/> Network (Downtown Area) (Address and phone same as above)

Customer & Project Information

Contact Name: EN, Incorporated	Title: <input checked="" type="checkbox"/> Electrical Engineer <input type="checkbox"/> Electrical Contractor <input type="checkbox"/> Other
Phone: 512-918-9315	Fax: 512-918-9318
Email: drawings@enincorporated.com	
Signature: <u>Laura Riley</u>	Date: 10/07/13
Project Information:	
Project Name: Marquis at Barton Trails	Project Type: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Remodel <input type="checkbox"/> Dual Feed
Project Address: 501 S. Mopac; Austin, TX 78749	Estimated Service Need Date: _____
Nearest Intersection: _____	Service Duration:
Service Provider: <input checked="" type="checkbox"/> Austin Energy <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Permanent Service <input type="checkbox"/> Construction Power/Temporary Service (less than 24 months)

Electrical Information

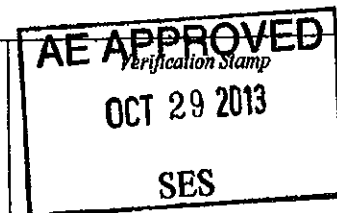
Refer to the appropriate table in the Austin Energy Criteria Manual for available electric services.

Type of Service Requested:	Service Voltage Requested:	Service Main Disconnect (1 st interrupting device) or Distribution Enclosure size:
<input type="checkbox"/> Overhead	<input checked="" type="checkbox"/> 120/240 V, 1 ϕ 3 Wires	<input type="checkbox"/> 100 Amps <input checked="" type="checkbox"/> 1200 Amps
<input type="checkbox"/> Underground Secondary (Secondary Riser)	<input type="checkbox"/> 480/277 V, 3 ϕ 4 Wires	<input type="checkbox"/> 200 Amps <input type="checkbox"/> 1600 Amps
<input checked="" type="checkbox"/> Underground Primary (Padmount Transformer)	<input type="checkbox"/> 208/120 V, 3 ϕ 4 Wires	<input type="checkbox"/> 400 Amps <input type="checkbox"/> 2000 Amps
	<input type="checkbox"/> 240/120 V, 3 ϕ 4 Wires (Overhead or secondary riser ONLY)	<input type="checkbox"/> 800 Amps <input type="checkbox"/> Other _____
	<input type="checkbox"/> Other _____	
Additional Service & Electrical Load Information:		New Metered Service Size(s):
Building Use (Residential, Warehouse, Restaurant, Retail, Office, Mixed Use, etc.): <u>BLDG TYPE I # 2</u>		1. Meter Can Size <u>100</u> x # Meters <u>22</u>
FT ² /Average Unit: <u>1,876</u>	# Units: <u>22</u>	2. Meter Can Size <u>125</u> x # Meters <u>1</u>
Fuel Type: <input type="checkbox"/> All Electric <input checked="" type="checkbox"/> Gas & Electric	Total Building FT ² : <u>33,258</u>	3. Meter Can Size _____ x # Meters _____
Service Wire Type, Size, & Quantity: _____	Total NEC Calculated Load: <u>1104.4</u>	4. Meter Can Size _____ x # Meters _____
Service Length: _____		(For multiple meters attach a list of unit #'s.)
Distributed Generation: <input type="checkbox"/> Yes	System Type: _____ (Solar, Wind, etc.)	Number of Existing Meters: _____
	System Size: _____ (kW)	

Application expires 180 days after date of approval. Any change to the above information requires a new ESPA.

For internal use only - One Stop & Design Department Service Center

<input checked="" type="checkbox"/> Design Required <input type="checkbox"/> Service Only
AE Rep: <u>Eric S. Sino</u> Phone: <u>505-7667</u> Date: _____
Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



Comments:

For internal use only - Metering Department; 2526 Kramer Ln Building E; Ph: 512-505-7045; Fax: 512-505-7103

Metering CT's Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	Size CT's: _____
--	------------------

For internal use only - Permitting Department; 505 Barton Springs Rd; 2nd Floor; Ph: 512-974-2747; Fax: 512-974-6578

Electric Permit #: _____

North Meter Pick-Up: 2526 Kramer Ln. Bldg E

South Meter Pick-Up: 4411B Meinardus Dr

ELECTRICAL CALCULATION FOR BUILDINGS

BUILDING TYPE 1 UNIT FABULATION UNIT TYPE	QUANTITY	A2	A2G	B3	C1
A2	6	17136	16224	16020	35232
A2G	4	9000	6000	6000	12000
B3	4	40880	27320	27320	54640
C1	8	48000	32000	32000	64000
Total Unit Count	22	9000	6000	6000	12000
		30000	20000	20000	40000
		0	0	0	0
		14328	8552	12020	30184
		186444	117096	115360	248056
		0.36	0.36	0.36	0.36
		80540	42155	42970	85500
		0	0	0	0
		60240	42155	42970	11830
		282.7	175.6	178.0	457.1
					1104.4
					1200

Service Voltage/Phase
240 V, 1φ

MAIN POWER CALCULATION

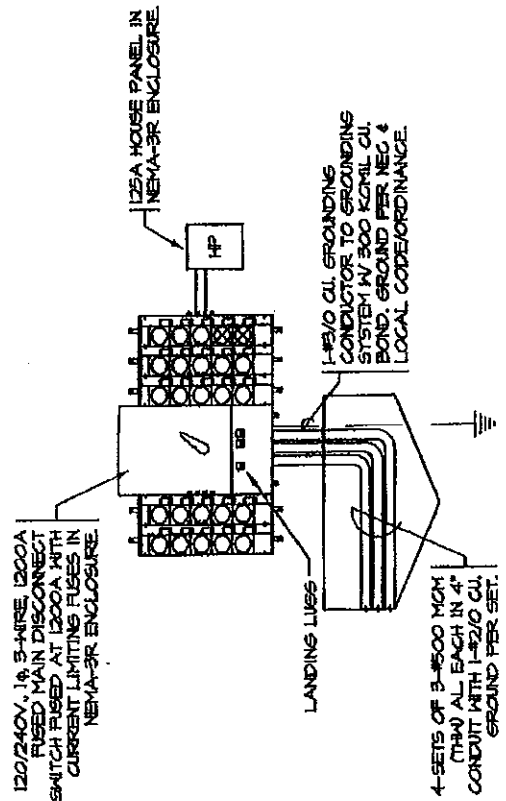
DESCRIPTION	A2	A2G	B3	C1
GENERAL LIGHTING	17136	16224	16020	35232
MICROHOOD	9000	6000	6000	12000
SM APPL, D/W, DISP, REF	40880	27320	27320	54640
RANGE	48000	32000	32000	64000
WASHER	9000	6000	6000	12000
DRYER	30000	20000	20000	40000
WATER HEATER(GAS)	0	0	0	0
HEATING LOAD	14328	8552	12020	30184
TOTAL CONNECTED WATTAGE	186444	117096	115360	248056
DEMAND FACTOR	0.36	0.36	0.36	0.36
DEMAND WATTAGE	80540	42155	42970	85500
ADDITIONAL HOUSE WATTAGE	0	0	0	0
TOTAL DEMAND WATTAGE	60240	42155	42970	11830
TOTAL DEMAND AMPS (PER UNIT TYPE)	282.7	175.6	178.0	457.1
TOTAL DEMAND AMPS (PER BUILDING TYPE)				1104.4
POWER CENTER (AMP)				1200
QUANTITY PER BUILDING				1

MAIN NEUTRAL CALCULATION

DESCRIPTION	A2	A2G	B3	C1
115V LOAD WATTS	78116	55544	55340	113672
FIRST 3000W @ 100% (NEC 220-11)	3000	3000	3000	3000
REMAINDER @ 35 %	26591	16360	16316	32905
DRYER & RANGE @ 70% (NEC 220-22)	30450	20900	20900	32900
ADDITIONAL HOUSE WATTAGE	0	0	0	0
TOTAL NEUTRAL WATTS	59041	47290	47219	104705
TOTAL NEUTRAL AMPS	246.0	197.0	196.7	456.3
FURTHER NEUTRAL DEMAND CALC (NEC 220-22)				1076.1
TOTAL NEUTRAL AMPS				200.0
FIRST 200 NEUTRAL AMPS @ 100%				813.2
REMAINDER @ 70%				813.2
TOTAL NEUTRAL AMPS (PER BUILDING TYPE)				813.2

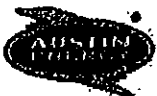
SERVICE CONDUCTOR SIZE
* ALL SIZES SHOWN ARE FOR THW ALUMINUM

DESCRIPTION	QUANTITY	SIZE
NUMBER OF RUNS (PER METER BANK) POWER	4	
QUANTITY SIZE NEUTRAL	2	500
QUANTITY SIZE	1	500
CONDUIT SIZE	4	1
NUMBER OF METER BANKS PER BLDG.	250	
GROUNDING CONDUCTOR TO GROUNDING SYSTEM		
* ALL SIZES SHOWN ARE FOR AL OR CU-AL		



METER BANK 22+)
BLDG TYPE 1 & 4 NTS.

131-1KVA
1104.4
8090
883.52A # 22 H



BLDG TYPE II
#3

Electric Service Planning Application (ESPA)

For services over 350 amps 1-phase or 225 amps 3-phase.

Fill out one ESPA per main disconnect or distribution enclosure. Review of this application may result in a request for additional information.

Service Center	
Location for customer to turn in the completed ESPA for approval. Please check one. A map of service center locations can be found at http://www.austinenrgy.com/go/designContacts . (All downtown Network requests should be sent to the South service center)	
<input type="checkbox"/> North: Kramer Service Center 2412 Kramer Lane Bldg C Austin, TX 78758 Ph: 512-505-7206; Fax: 512-505-7208	<input checked="" type="checkbox"/> South: St. Elmo Service Center 4411B Meinardus Dr; Austin, TX 78744 Ph: 512-505-7500; Fax: 512-505-7742 <input type="checkbox"/> Network (Downtown Area) (Address and phone same as above)

Customer & Project Information

Contact Name: EN, Incorporated	Title: <input checked="" type="checkbox"/> Electrical Engineer <input type="checkbox"/> Electrical Contractor <input type="checkbox"/> Other
Phone: 512-918-9315	Fax: 512-918-9318
Email: drawings@enincorporated.com	
Signature: <i>Laura Pooey</i>	Date: 10/07/13
Project Name: Marquis at Barton Trails	Project Type: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Remodel <input type="checkbox"/> Dual Feed
Project Address: 5501 S. Mopac, Austin, TX 78749	Estimated Service Need Date: _____
Nearest Intersection: _____	Service Duration: <input checked="" type="checkbox"/> Permanent Service <input type="checkbox"/> Construction Power/Temporary Service (less than 24 months)
Service Provider: <input checked="" type="checkbox"/> Austin Energy <input type="checkbox"/> Other	

Electrical Information

Refer to the appropriate table in the Austin Energy Criteria Manual for available electric services.

Type of Service Requested: <input type="checkbox"/> Overhead <input type="checkbox"/> Underground Secondary (Secondary Riser) <input checked="" type="checkbox"/> Underground Primary (Padmount Transformer)	Service Voltage Requested: <input checked="" type="checkbox"/> 120/240 V, 1 ϕ 3 Wires <input type="checkbox"/> 480/277 V, 3 ϕ 4 Wires <input type="checkbox"/> 208/120 V, 3 ϕ 4 Wires <input type="checkbox"/> 240/120 V, 3 ϕ 4 Wires (Overhead or secondary riser ONLY) <input type="checkbox"/> Other _____	Service Main Disconnect (1 st interrupting device) or Distribution Enclosure size: <input type="checkbox"/> 100 Amps <input checked="" type="checkbox"/> 1200 Amps <input type="checkbox"/> 200 Amps <input type="checkbox"/> 1600 Amps <input type="checkbox"/> 400 Amps <input type="checkbox"/> 2000 Amps <input type="checkbox"/> 800 Amps <input type="checkbox"/> Other _____
Additional Service & Electrical Load Information: BLDG TYPE II #3 Building Use (Residential, Warehouse, Restaurant, Retail, Office, Mixed Use, etc.): _____ FT ² /Average Unit: 885 # Units: 24 Total Building FT ² : 26,820 Fuel Type: <input type="checkbox"/> All Electric <input checked="" type="checkbox"/> Gas & Electric Total NBC Calculated Load: 1099.0 Service Wire Type, Size, & Quantity: _____ Service Length: _____		New Metered Service Size(s): 1. Meter Can Size 100 x # Meters 24 2. Meter Can Size 125 x # Meters 1 3. Meter Can Size _____ x # Meters _____ 4. Meter Can Size _____ x # Meters _____ (For multiple meters attach a list of unit #'s.) Number of Existing Meters: _____
Distributed Generation: <input type="checkbox"/> Yes System Type: _____ (Solar, Wind, etc.) System Size: _____ (kW)		

Application expires 180 days after date of approval. Any change to the above information requires a new ESPA.

For internal use only - One Stop & Design Department Service Center

<input checked="" type="checkbox"/> Design Required <input type="checkbox"/> Service Only
AE Rep: <i>Amie Salis</i> Phone: 505-7667 Date: _____
Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments: _____



For internal use only - Metering Department; 2526 Kramer Ln Building E; Ph: 512-505-7045; Fax: 512-505-7103

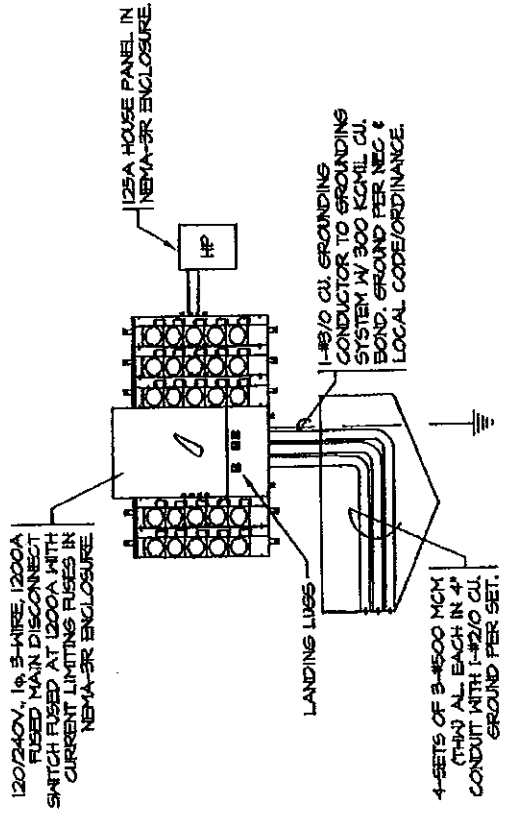
Metering CT's Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	Size CT's: _____
--	------------------

For internal use only - Permitting Department; 505 Barton Springs Rd; 2nd Floor; Ph: 512-974-2747; Fax: 512-974-6578

Electric Permit #: _____

North Meter Pick-Up: 2526 Kramer Ln. Bldg E South Meter Pick-Up: 4411B Meinardus Dr

ELECTRICAL CALCULATION FOR BUILDINGS		
BUILDING TYPE II		QUANTITY
UNIT TABULATION	A1	B2
UNIT TYPE		
	A1	B2
Total Unit Count	12	12
		24
Service Voltage/Phase		240 V, 1ϕ
MAIN POWER CALCULATION		
GENERAL LIGHTING	23888	40088
MICROWAVE	18000	18000
SINK, APPL., DWK DISP, REF	81860	81860
RANGE	86000	86000
WASHER	18000	18000
DRYER	60000	60000
WATER HEATER (GAS)	0	0
HEATING LOAD	20148	36090
TOTAL CONNECTED WATTAGE	317796	392088
DEMAND FACTOR	0.95	0.95
DEMAND WATTAGE	111226	122651
ADDITIONAL HOUSE WATTAGE	0	30000
TOTAL DEMAND WATTAGE	111226	152651
TOTAL DEMAND AMPS (PER UNIT TYPE)	483.5	635.5
TOTAL DEMAND AMPS (PER BUILDING TYPE)		1069.0
POWER CENTER (AMP)		1200
QUANTITY PER BUILDING		1
MAIN NEUTRAL CALCULATION		
115V LOAD WATTS	141648	158028
FIRST 3000W @ 100% (NEC 220-11)	3000	3000
REMAINDER @ 35%	48627	54260
DRYER & RANGE @ 70% (NEC 220-22)	38220	38220
ADDITIONAL HOUSE WATTAGE	0	30000
TOTAL NEUTRAL WATTS	86747	129488
TOTAL NEUTRAL AMPS	373.9	522.8
FURTHER NEUTRAL DEMAND CALC (NEC 220-22)		
TOTAL NEUTRAL AMPS		866.6
FIRST 200 NEUTRAL AMPS @ 100%		200.0
REMAINDER @ 70%		467.2
TOTAL NEUTRAL AMPS (PER BUILDING TYPE)		667.2
SERVICE CONDUCTOR SIZE		
** ALL SIZES SHOWN ARE FOR THW ALUMINUM		
NUMBER OF RUNS (PER METER BANK)	4	
POWER	2	
NEUTRAL	500	
QUANTITY	1	
SIZE	500	
CONDUIT SIZE	4"	
NUMBER OF METER BANKS PER BLDG.	1	
GROUNDING CONDUCTOR TO GROUNDING SYSTEM	250	
** ALL SIZES SHOWN ARE FOR AL OR CU CLAD-AL		



METER BANK
BLDG TYPES I, II & VI
BLDG #1, 3, 5 & 6
24+1
N.T.S.

78 KVA

1099
80%
879.2A

TYPE II
#3



BLDG TYPE IV
4

Electric Service Planning Application (ESPA)

For services over 350 amps 1-phase or 225 amps 3-phase.

Fill out one ESPA per main disconnect or distribution enclosure. Review of this application may result in a request for additional information.

Service Center	
Location for customer to turn in the completed ESPA for approval. Please check one. A map of service center locations can be found at http://www.austinenergy.com/go/designContacts . (All downtown Network requests should be sent to the South service center)	
<input type="checkbox"/> North: Kramer Service Center 2412 Kramer Lane Bldg C Austin, TX 78758 Ph: 512-505-7206; Fax: 512-505-7208	<input checked="" type="checkbox"/> South: St. Elmo Service Center 4411B Meinardus Dr; Austin, TX 78744 Ph: 512-305-7500; Fax: 512-505-7742 <input type="checkbox"/> Network (Downtown Area) (Address and phone same as above)

Customer & Project Information

Contact Name: EN, Incorporated	Title: <input checked="" type="checkbox"/> Electrical Engineer <input type="checkbox"/> Electrical Contractor <input type="checkbox"/> Other
Phone: 512-918-9315	Fax: 512-918-9318
Email: drawings@enincorporated.com	
Signature: <i>Laura Freese</i>	Date: 10/07/13
Project Information:	
Project Name: Marquis at Barton Trails	Project Type: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Remodel <input type="checkbox"/> Dual Feed
Project Address: 5501 S. Mopac; Austin, TX 78749	Estimated Service Need Date: _____
Nearest Intersection: _____	Service Duration:
Service Provider: <input checked="" type="checkbox"/> Austin Energy <input type="checkbox"/> Other _____	<input checked="" type="checkbox"/> Permanent Service <input type="checkbox"/> Construction Power/Temporary Service (less than 24 months)

Electrical Information

Refer to the appropriate table in the Austin Energy Criteria Manual for available electric services.

Type of Service Requested:	Service Voltage Requested:	Service Main Disconnect (1 st Interrupting device) or Distribution Enclosure size:
<input type="checkbox"/> Overhead	<input checked="" type="checkbox"/> 120/240 V, 1 ϕ 3 Wires	<input type="checkbox"/> 100 Amps <input checked="" type="checkbox"/> 1200 Amps
<input type="checkbox"/> Underground Secondary (Secondary Riser)	<input type="checkbox"/> 480/277 V, 3 ϕ 4 Wires	<input type="checkbox"/> 200 Amps <input type="checkbox"/> 1600 Amps
<input checked="" type="checkbox"/> Underground Primary (Padmount Transformer)	<input type="checkbox"/> 208/120 V, 3 ϕ 4 Wires	<input type="checkbox"/> 400 Amps <input type="checkbox"/> 2000 Amps
	<input type="checkbox"/> 240/120 V, 3 ϕ 4 Wires (Overhead or secondary riser ONLY)	<input type="checkbox"/> 800 Amps <input type="checkbox"/> Other _____
	<input type="checkbox"/> Other _____	
Additional Service & Electrical Load Information:		New Metered Service Size(s):
Building Use (Residential, Warehouse, Restaurant, Retail, Office, Mixed Use, etc.): BLDG TYPE III #4		1. Meter Can Size 100 x # Meters 22
FT ² /Average Unit: 1133 # Units: 22 Total Building FT ² : 29,775		2. Meter Can Size 125 x # Meters 1
Fuel Type: <input type="checkbox"/> All Electric <input checked="" type="checkbox"/> Gas & Electric Total NBC Calculated Load: 1077.5		3. Meter Can Size _____ x # Meters _____
Service Wire Type, Size, & Quantity: _____		4. Meter Can Size _____ x # Meters _____
Service Length: _____		(For multiple meters attach a list of unit #'s.)
Distributed Generation: <input type="checkbox"/> Yes System Type: _____ (Solar, Wind, etc.) System Size: _____ (kW)		Number of Existing Meters: _____

Application expires 180 days after date of approval. Any change to the above information requires a new ESPA.

For internal use only - One Stop & Design Department Service Center

<input checked="" type="checkbox"/> Design Required <input type="checkbox"/> Service Only
AE Rep: <i>Eric Salinas</i> Phone: 505-7667 Date: _____
Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments:



For internal use only - Metering Department; 2526 Kramer Ln Building E; Ph: 512-505-7045; Fax: 512-505-7103

Metering CT's Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	Size CT's: _____
--	------------------

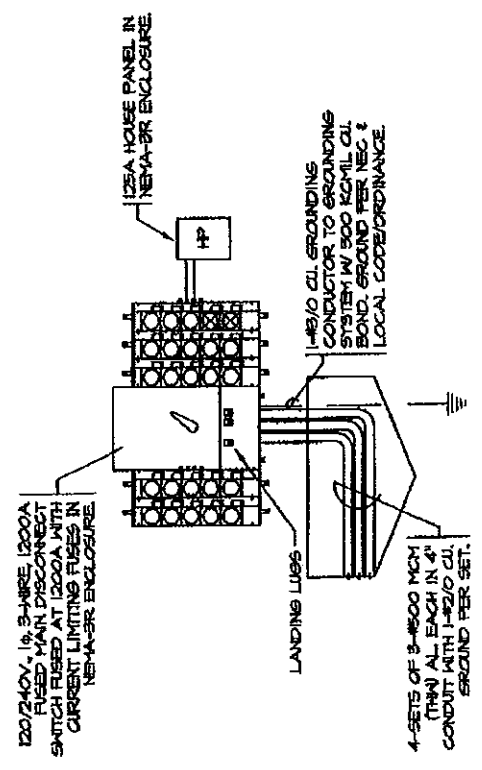
For internal use only - Permitting Department; 505 Barton Springs Rd; 2nd Floor; Ph: 512-974-2747; Fax: 512-974-6578

Electric Permit #: _____

North Meter Pick-Up: 2526 Kramer Ln. Bldg E

South Meter Pick-Up: 4411B Meinardus Dr

ELECTRICAL CALCULATION FOR BUILDINGS		QUANTITY	
BUILDING TYPE IV	UNIT TABULATION	A2	B1
UNIT TYPE		6	4
A2		4	12
B1		22	22
Total Unit Count		22	22
Service Voltage/Phase		240 V, 1φ	
MAIN POWER CALCULATION			
GENERAL LIGHTING		17158	39420
MICROHOOD		9000	18000
SN/APPL DVA DISP. REF		43950	87900
RANGE		48000	96000
WASHER		9000	18000
DRYER		30000	60000
WATER HEATER (GAS)		0	0
HEATING LOAD		143228	286456
TOTAL CONNECTED WATTAGE		189444	378888
DEMAND FACTOR		0.35	0.35
DEMAND WATTAGE		66305	132610
ADDITIONAL HOUSE WATTAGE		0	0
TOTAL DEMAND WATTAGE		66305	132610
TOTAL DEMAND AMPS (PER UNIT TYPE)		282.7	1170.8
TOTAL DEMAND AMPS (PER BUILDING TYPE)		1077.5	1077.5
POWER CENTER (AMP)			1200
QUANTITY PER BUILDING			1
MAIN NEUTRAL CALCULATION			
T15V LOAD WATTS		75176	55844
FIRST 300W @ 10% (NEC 220-1)		3000	9000
REMAINDER @ 25 %		25881	18380
DRYER & RANGE @ 70% (NEC 220-2)		30650	30220
ADDITIONAL HOUSE WATTAGE		0	0
TOTAL NEUTRAL WATTS		59041	125253
FURTHER NEUTRAL DEMAND CALC (NEC 220-2)		248.0	821.8
TOTAL NEUTRAL AMPS			864.8
FIRST 200 NEUTRAL AMPS @ 10%			200.0
REMAINDER @ 70%			56.5
TOTAL NEUTRAL AMPS (PER UNIT TYPE)			785.5
TOTAL NEUTRAL AMPS (PER BUILDING TYPE)			785.5
SERVICE CONDUCTOR SIZE			
* ALL SIZES SHOWN ARE FOR TERMINAL USE			
NUMBER OF RUNS (PER METER BANK)		4	
QUANTITY	POWER	2	
SIZE	NEUTRAL	500	
QUANTITY		1	
SIZE		500	
CONDUIT SIZE		4"	
NUMBER OF METER BANKS PER BLDG.		1	
GROUNDING CONDUCTOR TO GROUNDING SYSTEM		250	
* ALL SIZES SHOWN ARE FOR AL OR CUL-GLASS			



METER BANK
BLDG #2 & 4
22+1
N.T.S.

90. KVA
1077.5
80%

862A

TYPE H
F



BLDG TYPE III
#5

Electric Service Planning Application (ESPA)

For services over 350 amps 1-phase or 225 amps 3-phase.

Fill out one ESPA per main disconnect or distribution enclosure. Review of this application may result in a request for additional information.

Service Center	
Location for customer to turn in the completed ESPA for approval. Please check one. A map of service center locations can be found at http://www.austenergy.com/go/designContacts . (All downtown Network requests should be sent to the South service center)	
<input type="checkbox"/> North: Kramer Service Center 2412 Kramer Lane Bldg C Austin, TX 78758 Ph: 512-505-7206; Fax: 512-505-7208	<input checked="" type="checkbox"/> South: St. Elmo Service Center 4411B Meinardus Dr, Austin, TX 78744 Ph: 512-505-7500; Fax: 512-505-7742 <input type="checkbox"/> Network (Downtown Area) (Address and phone same as above)

Customer & Project Information

Contact Name: EN, Incorporated	Title: <input checked="" type="checkbox"/> Electrical Engineer <input type="checkbox"/> Electrical Contractor <input type="checkbox"/> Other
Phone: 512-918-9315	Fax: 512-918-9318
Signature: <u>Laura Flood</u>	Email: <u>drawings@enincorporated.com</u>
Date: 10/07/13	
Project Name: <u>Marquis at Barton Trails</u>	Project Type: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Remodel <input type="checkbox"/> Dual Feed
Project Address: <u>5501 S. Mopac, Austin, TX 78749</u>	Estimated Service Need Date: _____
Nearest Intersection: _____	Service Duration: <input checked="" type="checkbox"/> Permanent Service <input type="checkbox"/> Construction Power/Temporary Service (less than 24 months)
Service Provider: <input checked="" type="checkbox"/> Austin Energy <input type="checkbox"/> Other	

Electrical Information

Refer to the appropriate table in the Austin Energy Criteria Manual for available electric services.

Type of Service Requested: <input type="checkbox"/> Overhead <input type="checkbox"/> Underground Secondary (Secondary Riser) <input checked="" type="checkbox"/> Underground Primary (Padmount Transformer)	Service Voltage Requested: <input checked="" type="checkbox"/> 120/240 V, 1 ϕ 3 Wires <input type="checkbox"/> 480/277 V, 3 ϕ 4 Wires <input type="checkbox"/> 208/120 V, 3 ϕ 4 Wires <input type="checkbox"/> 240/120 V, 3 ϕ 4 Wires (Overhead or secondary riser ONLY) <input type="checkbox"/> Other _____	Service Main Disconnect (1 st interrupting device) or Distribution Enclosure size: <input type="checkbox"/> 100 Amps <input checked="" type="checkbox"/> 1200 Amps <input type="checkbox"/> 200 Amps <input type="checkbox"/> 1600 Amps <input type="checkbox"/> 400 Amps <input type="checkbox"/> 2000 Amps <input type="checkbox"/> 800 Amps <input type="checkbox"/> Other _____
Additional Service & Electrical Load Information: <u>BLDG TYPE III</u> Building Use (Residential, Warehouse, Restaurant, Retail, Office, Mixed Use, etc.): <u>#5</u> FT ² /Average Unit: <u>805</u> # Units: <u>24</u> Total Building FT ² : <u>22,770</u> Fuel Type: <input type="checkbox"/> All Electric <input checked="" type="checkbox"/> Gas & Electric Total NBC Calculated Load: <u>1079.7</u> Service Wire Type, Size, & Quantity: _____ Service Length: _____		New Metered Service Size(s): 1. Meter Can Size <u>100</u> x # Meters <u>24</u> 2. Meter Can Size <u>125</u> x # Meters <u>1</u> 3. Meter Can Size _____ x # Meters _____ 4. Meter Can Size _____ x # Meters _____ (For multiple meters attach a list of unit #'s.) Number of Existing Meters: _____
Distributed Generation: <input type="checkbox"/> Yes System Type: _____ (Solar, Wind, etc.) System Size: _____ (kW)		

Application expires 180 days after date of approval. Any change to the above information requires a new ESPA.

For internal use only - One Stop & Design Department Service Center

<input checked="" type="checkbox"/> Design Required <input type="checkbox"/> Service Only
AE Rep: <u>Eniz Salinas</u> Phone: <u>505-7667</u> Date: _____
Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments: _____

AE APPROVED
Verification Stamp
OCT 29 2013
SES

For internal use only - Metering Department; 2526 Kramer Ln Building E; Ph: 512-505-7045; Fax: 512-505-7103

Metering CT's Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	Size CT's: _____
--	------------------

For internal use only - Permitting Department; 505 Barton Springs Rd; 2nd Floor; Ph: 512-974-2747; Fax: 512-974-6578

Electric Permit #: _____

North Meter Pick-Up: 2526 Kramer Ln. Bldg E

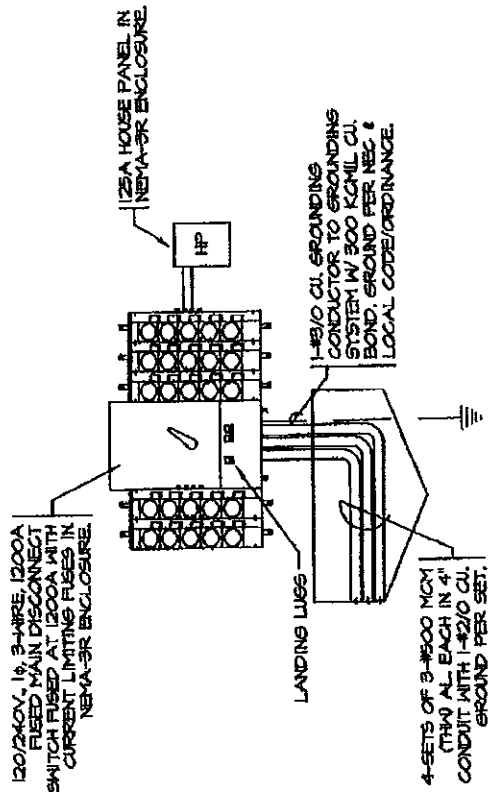
South Meter Pick-Up: 4411B Meinardus Dr

TYPE III
#5

1079.7
8070
863.7A

78 KVA

METER BANK
BLDG TYPES II, III & VI
BLDG # 3, 5 & 6
24+1
NTS.



ELECTRICAL CALCULATION FOR BUILDINGS	
BUILDING TYPE II & IIIA	QUANTITY
UNIT TABULATION	A1 A2
UNIT TYPE	12 12
	24 24
Total Unit Count	24
Service Voltage/Phase	240 V., 1φ
MAIN POWER CALCULATION	
GENERAL LIGHTING	34272
MICROHOOD	28686
SM APPL., DYN. DISP. REF	18000
RANGE	81980
WASHER	56000
DRYER	18000
WATER HEATER (GAS)	80000
HEATING LOAD	20146
TOTAL CONNECTED WATTAGE	317798
DEMAND FACTOR	0.35
ADDITIONAL HOUSE WATTAGE	11229
TOTAL DEMAND WATTAGE	147511
TOTAL DEMAND AMPS (PER UNIT TYPE)	463.5
TOTAL DEMAND AMPS (PER BUILDING TYPE)	1079.7
POWER CENTER (AMP)	1200
QUANTITY PER BUILDING	1
MAIN NEUTRAL CALCULATION	
115V LOAD WATTS	147648
FIRST 3000W @ 100% (NEC 220-11)	3000
REMAINDER @ 35%	48627
DRYER & RANGE @ 70% (NEC 220-22)	38220
ADDITIONAL HOUSE WATTAGE	0
TOTAL NEUTRAL WATTS	89747
TOTAL NEUTRAL AMPS	373.9
FURTHER NEUTRAL DEMAND CALC (NEC 220-22)	514.4
TOTAL NEUTRAL AMPS	888.3
FIRST 200 NEUTRAL AMPS @ 100%	200.0
REMAINDER @ 70%	461.8
TOTAL NEUTRAL AMPS (PER BUILDING TYPE)	887.8
SERVICE CONDUCTOR SIZE	
* ALL SIZES SHOWN ARE FOR THRU ALL WAYS	
NUMBER OF RUNS (PER METER BANK)	4
POWER	2
QUANTITY	500
NEUTRAL	1
SIZE	500
CONDUIT SIZE	4"
NUMBER OF METER BANKS PER BLDG.	1
GROUNDING CONDUCTOR TO GROUNDING SYSTEM	250
* ALL SIZES SHOWN ARE FOR AL OR CU-AL	

Electric Service Planning Application (ESPA)

For services over 350 amps 1-phase or 225 amps 3-phase.

Fill out one ESPA per main disconnect or distribution enclosure. Review of this application may result in a request for additional information.

Service Center	
Location for customer to turn in the completed ESPA for approval. Please check one. A map of service center locations can be found at http://www.austinenergy.com/go/designContacts . (All downtown Network requests should be sent to the South service center)	
<input type="checkbox"/> North: Kramer Service Center 2412 Kramer Lane Bldg C Austin, TX 78758 Ph: 512-505-7206; Fax: 512-505-7208	<input checked="" type="checkbox"/> South: St. Elmo Service Center 4411B Meinardus Dr; Austin, TX 78744 Ph: 512-505-7500; Fax: 512-505-7742 <input type="checkbox"/> Network (Downtown Area) (Address and phone same as above)

Customer & Project Information

Contact Name: EN, Incorporated	Title: <input checked="" type="checkbox"/> Electrical Engineer <input type="checkbox"/> Electrical Contractor <input type="checkbox"/> Other
Phone: 512-918-9315	Fax: 512-918-9318
Email: drawings@enincorporated.com	
Signature: <u>Laura Foley</u>	Date: 10/07/13
Project Information: Project Name: <u>Marquis at Barton Trails</u> Project Address: <u>5501 S. Mopac; Austin, TX 78748</u> Nearest Intersection: _____ Service Provider: <input checked="" type="checkbox"/> Austin Energy <input type="checkbox"/> Other	Project Type: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Remodel <input type="checkbox"/> Dual Feed Estimated Service Need Date: _____ Service Duration: <input checked="" type="checkbox"/> Permanent Service <input type="checkbox"/> Construction Power/Temporary Service (less than 24 months)

Electrical Information

Refer to the appropriate table in the Austin Energy Criteria Manual for available electric services.

Type of Service Requested: <input type="checkbox"/> Overhead <input type="checkbox"/> Underground Secondary (Secondary Riser) <input checked="" type="checkbox"/> Underground Primary (Padmount Transformer)	Service Voltage Requested: <input checked="" type="checkbox"/> 120/240 V, 1 ϕ 3 Wires <input type="checkbox"/> 480/277 V, 3 ϕ 4 Wires <input type="checkbox"/> 208/120 V, 3 ϕ 4 Wires <input type="checkbox"/> 240/120 V, 3 ϕ 4 Wires (Overhead or secondary riser ONLY) <input type="checkbox"/> Other _____	Service Main Disconnect (1st interrupting device) or Distribution Enclosure size: <input type="checkbox"/> 100 Amps <input checked="" type="checkbox"/> 1200 Amps <input type="checkbox"/> 200 Amps <input type="checkbox"/> 1600 Amps <input type="checkbox"/> 400 Amps <input type="checkbox"/> 2000 Amps <input type="checkbox"/> 800 Amps <input type="checkbox"/> Other _____
Additional Service & Electrical Load Information: <u>BLDG TYPE III</u> Building Use (Residential, Warehouse, Restaurant, Retail, Office, Mixed Use, etc.): <u>#6</u> FT ² /Average Unit: <u>805</u> # Units: <u>24</u> Total Building FT ² : <u>22,320</u> Fuel Types: <input type="checkbox"/> All Electric <input checked="" type="checkbox"/> Gas & Electric Total NEC Calculated Load: <u>1079.7</u> Service Wire Type, Size, & Quantity: _____ Service Length: _____		New Metered Service Size(s): 1. Meter Can Size <u>100</u> x # Meters <u>24</u> 2. Meter Can Size <u>125</u> x # Meters <u>1</u> 3. Meter Can Size _____ x # Meters _____ 4. Meter Can Size _____ x # Meters _____ (For multiple meters attach a list of unit #'s.) Number of Existing Meters: _____
Distributed Generation: <input type="checkbox"/> Yes System Type: _____ (Solar, Wind, etc.) System Size: _____ (kW)		

Application expires 180 days after date of approval. Any change to the above information requires a new ESPA.

For internal use only - One Stop & Design Department Service Center

<input checked="" type="checkbox"/> Design Required <input type="checkbox"/> Service Only AB Rep: <u>[Signature]</u> Phone: <u>505-7667</u> Date: _____ Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<div style="border: 2px solid black; padding: 5px; text-align: center;"> AE APPROVED Verification Stamp OCT 29 2013 SES </div>
Comments:	

For internal use only - Metering Department; 2526 Kramer Ln Building E; Ph: 512-505-7045; Fax: 512-505-7103

Metering CT's Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	Size CT's: _____
--	------------------

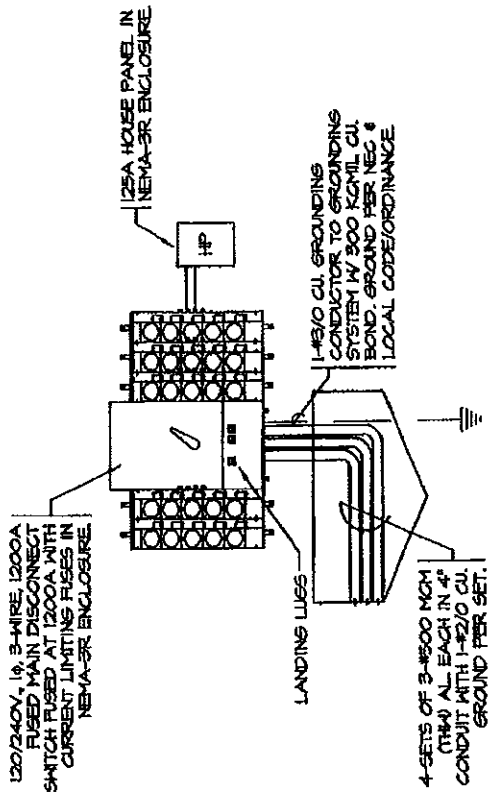
For internal use only - Permitting Department; 505 Barton Springs Rd; 2nd Floor; Ph: 512-974-2747; Fax: 512-974-6578

Electric Permit #: _____

North Meter Pick-Up: 2526 Kramer Ln. Bldg E

South Meter Pick-Up: 4411B Meinardus Dr

ELECTRICAL CALCULATION FOR BUILDINGS		QUANTITY	
BUILDING TYPE III & IIIA	UNIT TABULATION	A1	A2
Total Unit Count		12	12
Service Voltage/Phase		24	24
240 V, 1 ϕ			
MAIN POWER CALCULATION			
GENERAL LIGHTING		23688	34272
MICRO/HOOD		18000	18000
SM APPL, DWM, DISP, REF		81960	81960
RANGE		86000	86000
WASHER		18000	18000
DRYER		60000	60000
WATER HEATER (GAS)		0	0
HEATING LOAD		20148	24658
TOTAL CONNECTED WATTAGE		317796	330888
DEMAND FACTOR		0.95	0.95
DEMAND WATTAGE		111228	117911
ADDITIONAL HOUSE WATTAGE		0	30000
TOTAL DEMAND WATTAGE		111228	147911
TOTAL DEMAND AMPS (PER UNIT TYPE)		463.5	616.3
TOTAL DEMAND AMPS (PER BUILDING TYPE)		1078.2	1078.2
POWER CENTER (AMP)			1200
QUANTITY PER BUILDING			1
MAIN NEUTRAL CALCULATION			
115V LOAD WATTS		141548	152282
FIRST 3000W @ 100% (NEC 220-11)		3000	3000
REMAINDER @ 35 %		48527	52351
DRYER & RANGE @ 70% (NEC 220-22)		38220	38220
ADDITIONAL HOUSE WATTAGE		0	30000
TOTAL NEUTRAL WATTS		87477	129451
TOTAL NEUTRAL AMPS		373.8	511.4
FURTHER NEUTRAL DEMAND CALC (NEC 220-22)			
TOTAL NEUTRAL AMPS			886.3
FIRST 200 NEUTRAL AMPS @ 100%			200.0
REMAINDER @ 70%			481.8
TOTAL NEUTRAL AMPS (PER BUILDING TYPE)			681.8
SERVICE CONDUCTOR SIZE			
* ALL SIZES SHOWN ARE FOR THW ALUMINUM			
NUMBER OF RUNS (PER METER BANK)		4	
POWER		2	
QUANTITY SIZE		500	
NEUTRAL		1	
QUANTITY SIZE		500	
CONDUIT SIZE		4"	
NUMBER OF METER BANKS PER BLDG.		1	
GROUNDING CONDUCTOR TO GROUNDING SYSTEM		250	
* ALL SIZES SHOWN ARE FOR AL OR CU/CADAL			



METER BANK
BLDG TYPES III, III & VI
BLDG #1, 5, 5 & 6
24+1
N.T.S.

TYPE III
#6

1079.7
887%

78 KVA

863.7A



BLDG TYPE II
7

Electric Service Planning Application (ESPA)

For services over 350 amps 1-phase or 225 amps 3-phase.

Fill out one ESPA per main disconnect or distribution enclosure. Review of this application may result in a request for additional information.

Service Center	
Location for customer to turn in the completed ESPA for approval. Please check one. A map of service center locations can be found at http://www.austinenergy.com/go/designContacts . (All downtown Network requests should be sent to the South service center)	
<input type="checkbox"/> North: Kramer Service Center 2412 Kramer Lane Bldg C Austin, TX 78758 Ph: 512-505-7206; Fax: 512-505-7208	<input checked="" type="checkbox"/> South: St. Elmo Service Center 4411B Meinardus Dr; Austin, TX 78744 Ph: 512-505-7500; Fax: 512-505-7742 <input type="checkbox"/> Network (Downtown Area) (Address and phone same as above)

Customer & Project Information

Contact Name: EN, Incorporated	Title: <input checked="" type="checkbox"/> Electrical Engineer <input type="checkbox"/> Electrical Contractor <input type="checkbox"/> Other
Phone: 512-918-9315	Fax: 512-918-9318
Email: drawings@enincorporated.com	
Signature: <i>Laura Frey</i>	Date: 10/07/13
Project Information:	
Project Name: Marquis at Barton Trails	Project Type: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Remodel <input type="checkbox"/> Dual Feed
Project Address: 5501 S. Mopac; Austin, TX 78749	Estimated Service Need Date: _____
Nearest Intersection: _____	Service Duration:
Service Provider: <input checked="" type="checkbox"/> Austin Energy <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Permanent Service <input type="checkbox"/> Construction Power/Temporary Service (less than 24 months)

Electrical Information

Refer to the appropriate table in the Austin Energy Criteria Manual for available electric services.

Type of Service Requested:	Service Voltage Requested:	Service Main Disconnect (1 st interrupting device) or Distribution Enclosure size:
<input type="checkbox"/> Overhead <input type="checkbox"/> Underground Secondary (Secondary Riser) <input checked="" type="checkbox"/> Underground Primary (Padmount Transformer)	<input checked="" type="checkbox"/> 120/240 V, 1 ϕ 3 Wires <input type="checkbox"/> 480/277 V, 3 ϕ 4 Wires <input type="checkbox"/> 208/120 V, 3 ϕ 4 Wires <input type="checkbox"/> 240/120 V, 3 ϕ 4 Wires (Overhead or secondary riser ONLY) <input type="checkbox"/> Other	<input type="checkbox"/> 100 Amps <input checked="" type="checkbox"/> 1200 Amps <input type="checkbox"/> 200 Amps <input type="checkbox"/> 1600 Amps <input type="checkbox"/> 400 Amps <input type="checkbox"/> 2000 Amps <input type="checkbox"/> 800 Amps <input type="checkbox"/> Other
Additional Service & Electrical Load Information:		New Metered Service Size(s):
Building Use (Residential, Warehouse, Restaurant, Retail, Office, Mixed Use, etc.): BLDG TYPE II #7		1. Meter Can Size 100 x # Meters 21
FT ² /Average Unit: 885 # Units: 21 Total Building FT ² : 22,107		2. Meter Can Size 125 x # Meters 1
Fuel Type: <input type="checkbox"/> All Electric <input checked="" type="checkbox"/> Gas & Electric Total NEC Calculated Load: 1019.7		3. Meter Can Size x # Meters
Service Wire Type, Size, & Quantity:		4. Meter Can Size x # Meters
Service Length:		(For multiple meters attach a list of unit #'s.)
Distributed Generation: <input type="checkbox"/> Yes System Type: _____ (Solar, Wind, etc.) System Size: _____ (kW)		Number of Existing Meters: _____

Application expires 180 days after date of approval. Any change to the above information requires a new ESPA.

For internal use only - One Stop & Design Department Service Center

<input checked="" type="checkbox"/> Design Required <input type="checkbox"/> Service Only	<div style="border: 2px solid black; padding: 5px; text-align: center;"> AE APPROVED <small>Verification Stamp</small> OCT 29 2013 SES </div>
AB Rep: <i>Eric Salinas</i> Phone: 505-7667 Date: _____	
Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:	

For internal use only - Metering Department; 2526 Kramer Ln Building E; Ph: 512-505-7045; Fax: 512-505-7103

Metering CT's Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	Size CT's: _____
--	------------------

For internal use only - Permitting Department; 505 Barton Springs Rd; 2nd Floor; Ph: 512-974-2747; Fax: 512-974-6578

Electric Permit #: _____

North Meter Pick-Up: 2526 Kramer Ln. Bldg E

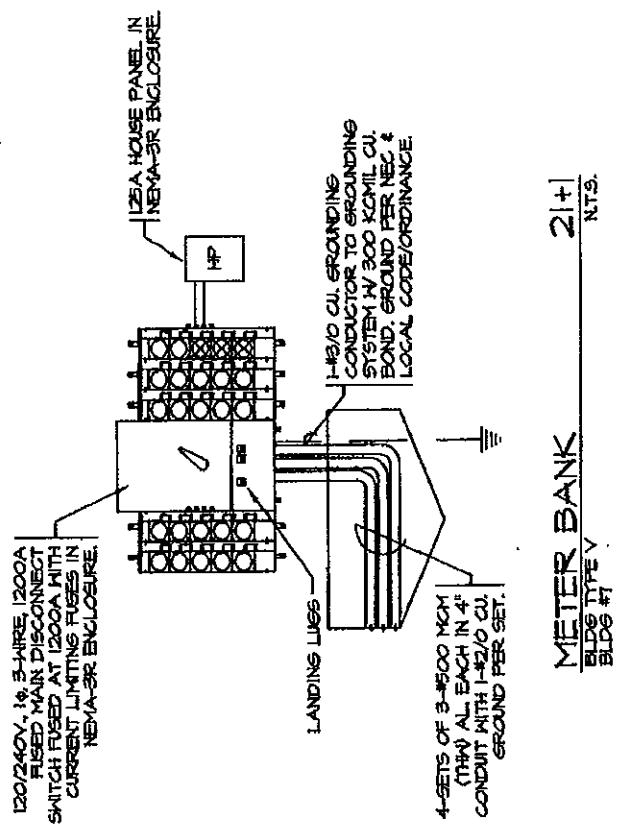
South Meter Pick-Up: 4411B Meinardus Dr

TYPE V
#7

1019.7
~~80%~~
815.7 A

69KVA

ELECTRICAL CALCULATION FOR BUILDINGS		QUANTITY
BUILDING TYPE V	UNIT TABULATION	
UNIT TYPE		
	A1	12
	B2	8
	Total Unit Count	21
	Service Voltage/Phase	240 V _L , 1 φ
MAIN POWER CALCULATION		
GENERAL LIGHTING	30051	B2
MICROHOOD	18000	13500
SIB APPL, DRY, DISP, REF	81960	61470
RANGE	96000	72000
WASHER	18000	13500
DRYER	60000	45000
WATER HEATER (GAS)	0	0
HEATING LOAD	20148	27045
TOTAL CONNECTED WATTAGE	317766	262568
DEMAND FACTOR	0.37	0.37
DEMAND WATTAGE	117586	87143
ADDITIONAL HOUSE WATTAGE	0	30000
TOTAL DEMAND WATTAGE	117586	127143
TOTAL DEMAND AMPS (PER UNIT TYPE)	488.9	529.8
POWER CENTER (AMPS)		1018.7
QUANTITY PER BUILDING		1200
		1
MAIN NEUTRAL CALCULATION		
115V LOAD WATTS	141648	B2
FIRST 3000W @ 100% (NEC 220-11)	3000	3000
REMAINDER @ 35%	46527	40432
DRYER & RANGE @ 70% (NEC 220-22)	38220	34125
ADDITIONAL HOUSE WATTAGE	0	30000
TOTAL NEUTRAL WATTS	85747	107557
TOTAL NEUTRAL AMPS	373.3	448.2
FURTHER NEUTRAL DEMAND CALC (NEC 220-22)		
TOTAL NEUTRAL AMPS		822.1
FIRST 200 NEUTRAL AMPS @ 100%		200.0
REMAINDER @ 70%		436.5
TOTAL NEUTRAL AMPS (PER BUILDING TYPE)		636.5
SERVICE CONDUCTOR SIZE		
* ALL SIZES SHOWN ARE FOR THW ALUMINUM		
NUMBER OF RUNS (PER METER BANK)		4
POWER		2
QUANTITY		500
SIZE		1
NEUTRAL		500
QUANTITY		4
SIZE		1
CONDUIT SIZE		250
NUMBER OF METER BANKS PER BLDG.		1
GROUNDING CONDUCTOR TO GROUNDING SYSTEM		
* ALL SIZES SHOWN ARE FOR AL OR CU/CLAD-AL		



125A HOUSE PANEL IN NEMA-3R ENCLOSURE

CLUB



Electric Service Planning Application (ESPA)

For services over 350 amps 1-phase or 225 amps 3-phase.

Fill out one ESPA per main disconnect or distribution enclosure. Review of this application may result in a request for additional information.

Service Center	
Location for customer to turn in the completed ESPA for approval. Please check one. A map of service center locations can be found at http://www.austinenergy.com/go/designContacts . (All downtown Network requests should be sent to the South service center)	
<input type="checkbox"/> North: Kramer Service Center 2412 Kramer Lane Bldg C Austin, TX 78758 Ph: 512-505-7206; Fax: 512-505-7208	<input checked="" type="checkbox"/> South: St. Elmo Service Center 4411B Meinardus Dr; Austin, TX 78744 Ph: 512-505-7500; Fax: 512-505-7742 <input type="checkbox"/> Network (Downtown Area) (Address and phone same as above)

Customer & Project Information

Contact Name: EN, Incorporated	Title: <input checked="" type="checkbox"/> Electrical Engineer <input type="checkbox"/> Electrical Contractor <input type="checkbox"/> Other
Phone: 512-918-9315	Fax: 512-918-9318
Email: drawings@enincorporated.com	
Signature: <i>Laura Fleenor</i>	Date: 10/07/13
Project Name: <u>Marquis at Barton Trails</u>	Project Type: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Remodel <input type="checkbox"/> Dual Feed
Project Address: <u>550 S. Mopac; Austin, TX 78749</u>	Estimated Service Need Date: _____
Nearest Intersection: _____	Service Duration: <input checked="" type="checkbox"/> Permanent Service <input type="checkbox"/> Construction Power/Temporary Service (less than 24 months)
Service Provider: <input checked="" type="checkbox"/> Austin Energy <input type="checkbox"/> Other	

Electrical Information

Refer to the appropriate table in the Austin Energy Criteria Manual for available electric services.

Type of Service Requested: <input type="checkbox"/> Overhead <input type="checkbox"/> Underground Secondary (Secondary Riser) <input checked="" type="checkbox"/> Underground Primary (Padmount Transformer)	Service Voltage Requested: <input checked="" type="checkbox"/> 120/240 V, 1 ϕ 3 Wires <input type="checkbox"/> 480/277 V, 3 ϕ 4 Wires <input type="checkbox"/> 208/120 V, 3 ϕ 4 Wires <input type="checkbox"/> 240/120 V, 3 ϕ 4 Wires (Overhead or secondary riser ONLY) <input type="checkbox"/> Other _____	Service Main Disconnect (1 st interrupting device) or Distribution Enclosure size: <input type="checkbox"/> 100 Amps <input type="checkbox"/> 1200 Amps <input type="checkbox"/> 200 Amps <input type="checkbox"/> 1600 Amps <input type="checkbox"/> 400 Amps <input type="checkbox"/> 2000 Amps <input type="checkbox"/> 800 Amps <input checked="" type="checkbox"/> Other <u>600</u>
Additional Service & Electrical Load Information: Building Use (Residential, Warehouse, Restaurant, Retail, Office, Mixed Use, etc.): <u>CLUB</u> FT ² /Average Unit: _____ # Units: _____ Total Building FT ² : <u>1500</u> Fuel Type: <input type="checkbox"/> All Electric <input checked="" type="checkbox"/> Gas & Electric Total NEC Calculated Load: <u>600</u> Service Wire Type, Size, & Quantity: _____ Service Length: _____		New Metered Service Size(s): 1. Meter Can Size <u>600</u> x # Meters <u>1</u> 2. Meter Can Size _____ x # Meters _____ 3. Meter Can Size _____ x # Meters _____ 4. Meter Can Size _____ x # Meters _____ (For multiple meters attach a list of unit #'s.) Number of Existing Meters: _____
Distributed Generation: <input type="checkbox"/> Yes System Type: _____ (Solar, Wind, etc.) System Size: _____ (kW)		

Application expires 180 days after date of approval. Any change to the above information requires a new ESPA.

For internal use only - One Stop & Design Department Service Center

<input checked="" type="checkbox"/> Design Required <input type="checkbox"/> Service Only	AE APPROVED OCT 29 2013 SES
AE Rep: <i>Eric S. King</i> Phone: <u>505-7667</u> Date: _____	
Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments: _____	

For internal use only - Metering Department; 2526 Kramer Ln Building E; Ph: 512-505-7045; Fax: 512-505-7103

Metering CT's Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	Size CT's: _____
--	------------------

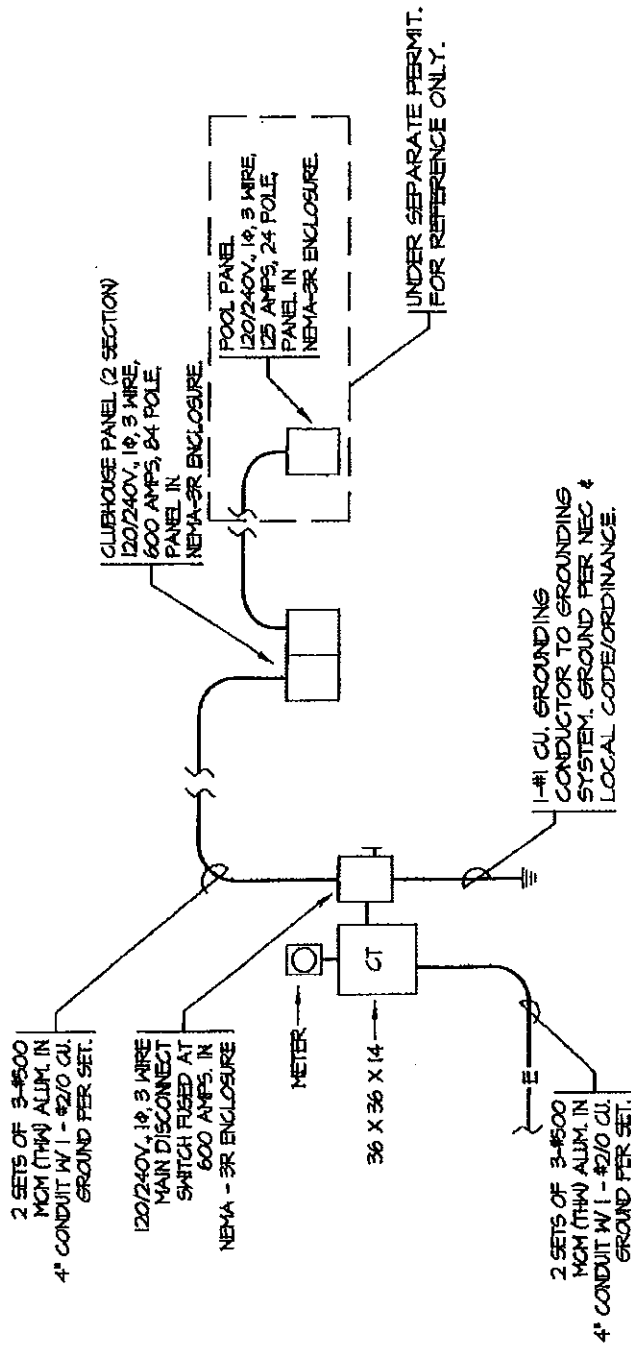
For internal use only - Permitting Department; 505 Barton Springs Rd; 2nd Floor; Ph: 512-974-2747; Fax: 512-974-6578

Electric Permit #: _____

North Meter Pick-Up: 2526 Kramer Ln. Bldg E

South Meter Pick-Up: 4411B Meinardus Dr

CLUB



ELEC. RISER DIAGRAM
CLUBHOUSE & POOL

NTS.

600
80%
A80A

144 KVA