

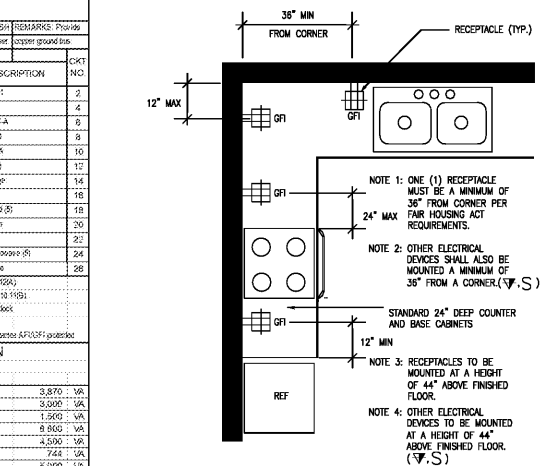
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LOAD CENTER C1 HC SCHEDULE									
NO.	DESCRIPTION	LOAD (VA)	BRK	A	B	BRK	LOAD (VA)	DESCRIPTION	NO.
1	Receptacle (R)	1.2	20A1	3.3	3.0	20A2	2.3	REF-1	2
3	Dishwasher (D)	0.7	15A1	3.4	3.0	20A2	2.3	REF-2	4
5	Appliance (A)	1.5	20A1	3.4	3.0	20A2	1.9	REF-3	6
7	Appliance (A)	1.5	20A1	3.3	3.1	20A2	1.9	REF-4	8
9	Receptacle (R)	1.5	20A1	3.3	3.0	20A2	1.8	REF-5	10
11	Receptacle (R)	1.0	15A1	2.6	2.0	20A2	1.6	REF-6	12
13	Receptacle (R)	1.0	15A1	2.4	2.0	20A2	1.4	REF-7	14
15	Receptacle (R)	1.2	20A1	3.3	3.0	20A2	2.4	REF-8	16
17	Receptacle (R)	1.0	15A1	1.8	2.0	20A2	0.3	REF-9	18
19	Space	1.5	15A1	1.2	2.0	20A2	2.5	REF-10	20
21	Receptacle (R)	1.2	20A1	3.7	3.0	20A2	2.5	REF-11	22
23	Receptacle (R)	0.5	15A1	2.0	2.0	20A2	1.5	REF-12	24
25	Space	2.0	20A1	2.0	2.0	20A2	2.0	REF-13	26

LOADCENTER "C1 HC" CALCULATION		
(PER 2017 NEC 220.82)		
LIGHTING AND RECEPTACLE LOAD	1200	8F x 5VA/8F
TWO 25A APPLIANCE CIRCUITS	3,000	VA
LAUNDRY CIRCUIT	1,500	VA
RANGE	8,500	VA
WATER HEATER	4,500	VA
DISHWASHER	744	VA
REFRIGERATOR	1,300	VA
CLOTHES DRYER	2,000	VA
MICROWAVE	1,500	VA
HEAT	3,900	VA
PLUMBANCE FAN	700	VA
<b>SUBTOTAL</b>	<b>31,450</b>	<b>VA</b>
FIRST 100VA @ 100%	10,000	VA
20K OF REMAINDER	21,450	VA @ 0.4
<b>SUBTOTAL PER NEC 220.82(B)</b>	<b>18,968</b>	<b>VA</b>
COMPRESSOR	3,500	VA
HEAT	3,900	VA
TOTAL HVAC	7,400	VA
HEAT(85% & COMP@100% PER NEC 220.82(C))	6,090	VA
<b>SUBTOTAL PER NEC 220.82(B)</b>	<b>18,582</b>	<b>VA</b>
HVAC PER NEC 220.82(C)	6,090	VA
<b>TOTAL DEMAND LOAD</b>	<b>24,672</b>	<b>VA</b>
34.611 VA/208V = 1.633 AMPS	125 AMP SERVICE	
TOTAL CONNECTED LOAD	32,816	VA
NUMBER OF 15A LIGHTING/RECEPTACLE BRANCH CIRCUITS	3	
FEEDER SIZE	381.5A/AL&194ALIG	FOR LOADCENTER WITHIN 120 FEET
	389.0A/AL&193ALIG	FOR LOADCENTER OVER 120 FEET

2 ELECTRICAL DEVICES - DWELLING UNIT KITCHEN  
Scale: NOT TO SCALE Plan

1 Unit C1 - HC - Electrical  
Scale: 1/4" = 1'-0" Plan



### FAIR HOUSING NOTES

ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE HUD FAIR HOUSING ACCESSIBILITY GUIDELINES (FHAG), AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) TITLE III.

1.1.1. LIGHT SWITCHES (WITH THE TOGGLE SWITCH IN THE "ON" POSITION) MUST NOT EXCEED A MAXIMUM OF 48" A.F.F.

1.1.2. ALL OUTLETS (POWER OR DATA) AND SWITCHES OVER THE KITCHEN AND BATHROOM COUNTERTOPS MUST NOT EXCEED A MAXIMUM OF 44" A.F.F. TO THE CENTERLINE OF THE OUTLET.

1.1.3. IN L OR U SHAPED KITCHENS, AT LEAST ONE (1) OUTLET MUST BE CENTERED A MINIMUM OF 36" FROM EACH INSIDE CORNER.

1.1.4. IN L OR U SHAPED KITCHENS, IF OTHER DEVICES ARE PLACED ON AN INSIDE CORNER, THEN THEY SHALL BE MOUNTED A MINIMUM OF 36" FROM AN INSIDE CORNER.

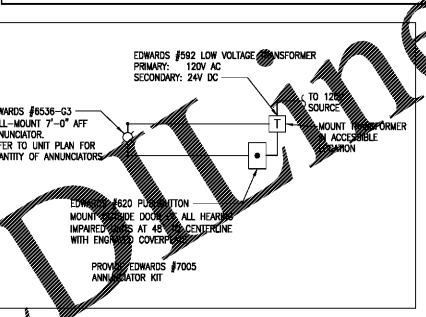
1.1.5. SIDEWALL OUTLETS AT THE VANITY COUNTERTOPS SHALL BE CENTERED A MINIMUM OF 18" FROM INSIDE WALL CORNER. IF THE OUTLETS ARE MOUNTED ON THE MIRROR WALL, THEN THE WALL OUTLET SHALL BE A MINIMUM OF 24" FROM THE INSIDE WALL CORNER TO PROVIDE A PARALLEL APPROACH.

1.1.6. WALL OUTLETS MUST BE INSTALLED A MINIMUM OF 15" A.F.F. TO THE CENTER LINE OF THE BOTTOM OUTLET.

1.1.7. TOP OF THE THERMOSTATS SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F. IN ALL UNITS AND COMMON AREAS.

### ADA NOTES

IN ADA RESIDENTIAL UNITS PROVIDE 110d FIRE ALARM STROBE UNIT IN EACH LIVING ROOM AND EACH BEDROOM, AND PROVIDE 150d STROBE UNIT IN EACH BATHROOM. SINGLE STATION SMOKE DETECTORS SHALL BE PROVIDED WITH INTEGRAL VISUAL STROBE (110c). COORDINATE LOCATION AND QUANTITY OF ADA UNITS WITH THE ARCHITECT.



HEARING IMPAIRED DOORBELL DETAIL  
Scale: NOT TO SCALE Plan

### GENERAL NOTES

- TYPE NM WIRING FOR BRANCH CIRCUIT WIRING FOR TYPES III, IV, AND V CONSTRUCTION IF ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY. PROVIDE M.C. CABLE OR WIRE/CONDUIT FOR ALL OTHER CONSTRUCTION TYPES.
- SEAL ALL OUTLET BOXES PER LOCAL ENERGY CODE.
- INTERCONNECT SMOKE DETECTORS IN INDIVIDUAL UNITS SO THAT INITIATION OF ONE WILL CAUSE INITIATION OF ALL.
- INDICATED MECHANICAL EQUIPMENT. SEE EX.XX FOR MECHANICAL CONNECTION SCHEDULE.
- OUTLET BOXES SHALL NOT BE INSTALLED WITHIN ANY WALL BACK TO BACK.
- ELECTRICAL OUTLET BOXES IN THE PARTY WALL(S), AS WELL AS INTERIOR WALLS, SHALL BE STAGGERED SO THAT THEY ARE NOT BACK-TO-BACK. PUTTY PACKS SHALL BE INSTALLED AROUND ALL BOXES. IF A SITUATION ARISES WHERE THE OUTLET BOXES MUST BE INSTALLED BACK-TO-BACK, USE A SOLID PANEL TO BLOCK NOISE TRANSMISSION BETWEEN THE BACK OF THE BOXES. IN ADDITION, USE ACOUSTICAL INSULATION BETWEEN THE SOLID BLOCKING PANEL AND THE WALL SURFACES, COMPLETELY SURROUNDING THE OUTLET BOXES.
- GFCI OUTLETS SHALL NOT BE INSTALLED IN MIRRORS. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- SINGLE STATION SMOKE/CO DETECTORS SHALL BE PHOTOVOLTAIC TYPE, PROVIDE GENTLE TYPE SMOKE OR EQUAL SMOKE PULL BE PROVIDED FROM 120V A/C POWER SOURCE AND HAVE A BACKUP BATTERY. SMOKE ALARMS A/C POWER SHALL BE SUPPLIED BY UNSWITCHED PORTION OF THE BEDROOM CIRCUIT. SMOKE ALARMS SHALL BE INTERCONNECTED TO ALL UNITS SO THAT INITIATION OF ONE WILL CAUSE INITIATION OF ALL OTHERS. REFER TO ICPA 72 FOR SMOKE DETECTOR INFORMATION.
- INSTALLATION REGARDLESS OF LOCATION SHOWN ON DRAWINGS, INSTALL BASED ON 1-4" BELOW CEILING.
- WALLS AND CEILING OF EVERY SLEEPING AREA AND ON ALL LEVELS OF COMMON UNITS, DETECTOR SHALL BE INSTALLED WITHIN 21 FEET OF ANY DOOR TO SLEEPING ROOM.
- SMOKE ALARMS SHALL NOT BE LOCATED WITHIN 36" HORIZONTAL PATH FROM A BATHROOM CONTAINING A SHOWER OR TUB.
- SMOKE ALARMS SHALL NOT BE LOCATED WITHIN 36" HORIZONTAL PATH FROM SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECTION OF THE AIRFLOW FROM THESE REGISTERS. COORDINATE EXACT LOCATION OF SMOKE ALARMS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- SMOKE ALARMS SHALL NOT BE LOCATED WITHIN 36" HORIZONTAL PATH FROM THE TIP OF THE BLADE OF A CEILING-SUSPENDED LIGHTING FIXTURE.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF LIGHTING FIXTURES.
- FINAL SELECTION, QUANTITY, AND LOCATION OF LIGHTS IN APARTMENTS TO BE COORDINATED WITH ARCHITECT AND INTERIOR PRIOR TO BID.
- TYPE NM CABLE IS NOT ALLOWED EXPOSED IN HVAC CLOSETS. PROVIDE TYPE MC CABLE OR ROUTE TYPE NM CABLE IN FLEXIBLE METALLIC CONDUIT SO THAT NM CABLE IS NOT EXPOSED IN CLOSET.
- PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL ROOMS REQUIRED BY NEC 406.12.
- ALL 15 AND 20 AMP SINGLE PHASE BRANCH CIRCUITS SUPPLYING LIGHTS, RECEPTACLES, AND SMOKE DETECTORS WITHIN LIVING UNITS SHALL BE PROTECTED BY A LISTED "ARC FAULT CIRCUIT INTERRUPTER" (AFCI). EXCEPT CIRCUITS INCLUDE BATHROOMS, GARAGES, AND OUTDOOR RECEPTACLES.
- RECEPTACLES INSTALLED IN WET LOCATIONS SHALL BE WEATHER RESISTANT, WEATHERPROOF, AND GFCI.
- PROVIDE CONDUIT SLEEVE EXTENDING 18" ON EITHER SIDE OF FIRE WALLS FOR WIRING THAT PASSES THRU FIRE WALLS.
- VERIFY MOUNTING AND OPERATION HEIGHTS OF ALL ELECTRICAL DEVICES FOR ACCESSIBILITY WITH ARCHITECT PRIOR TO BID/ROUGH-IN.
- ANY CEILING MOUNTED DEVICE WITHIN 4" OF ANOTHER CEILING MOUNTED DEVICE, PROVIDE A METAL BOX.

### UNIT PLAN KEY NOTES (THIS SHEET ONLY)

- PROVIDE (NEMA 14-50R) RECEPTACLE W/3#6, #10G CIRCUIT FOR RANGE. PROVIDE RANGE CORD.
- PROVIDE (NEMA 5-20R) RECEPTACLE W/2#12, #12G CIRCUIT FOR RANGE HOOD/MICROWAVE.
- MOUNT UNDER CABINET, BREAK TABS, TOP RECEPTACLE SHALL BE CONTROLLED BY SWITCH FOR DISPOSAL. BOTTOM RECEPTACLE SHALL BE UNSWITCHED FOR DISHWASHER. PROVIDE 4" SO CORD WITH 3 PRONG PLUG FOR DISHWASHER AND 3" SO CORD WITH 3 PRONG PLUG FOR GARBAGE DISPOSAL. MOUNT SWITCH INSIDE BASE CABINET. PROVIDE 2 CIRCUITS AS INDICATED ON THE LOAD CENTER SCHEDULE.
- PROVIDE A (NEMA 5-20R) RECEPTACLE MTD 48" AFF WITH 2#12, #12G. FOR WASHER.
- PROVIDE A (NEMA 14-30R) RECEPTACLE MTD 48" AFF WITH 3#10, #10G CIRCUIT FOR CLOTHES DRYER. PROVIDE DRYER CORD.
- FLUSH MOUNTED LOAD CENTER (W/FLUSH MOUNT COVER, 1/2" OVERLAP); CONTRACTOR SHALL VERIFY THAT THERE IS NO PIPING AND/OR DUCTWORK INSTALLED ABOVE LOADCENTER. MOUNT TOP CIRCUIT BREAKER HANDLE AT 48" AFF. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT/INTERIOR DESIGNER/OWNER PRIOR TO BID/ROUGH-IN.
- PROVIDE (MINIMUM 14" X 26" FLUSH MOUNTED STRUCTURED MEDIA ENCLOSURE WITH LOCKING DOOR, 1/2" BRIDGED TELEPHONE BOARD AND 6 WAY 10dB PASSIVE VIDEO SPLITTER. PROVIDE (1) CAT 6 CABLE FROM PUNCH DOWN BLOCK TO EACH DATA/TELEPHONE OUTLET (NO DASHY CHAINING) AND (1) CAT 6 CABLE FROM PUNCH DOWN BLOCK TO TELEPHONE SERVICE DEMARCATION LOCATION. PROVIDE (1) RG11 COAXIAL CABLE FROM SPLITTER TO EACH TELEVISION OUTLET (NO DASHY CHAINING) AND PROVIDE (1) RG11 COAXIAL CABLE FROM SPLITTER TO CABLE SERVICE DEMARCATION LOCATION. TERMINATE ALL CABLES ON APPROPRIATE TERMINATION POINTS. CLEARLY LABEL EACH PORT IDENTIFYING THE DESTINATION ADDRESS OF EACH CABLE. PROVIDE A MINIMUM OF 12" SLACK CABLE AT EACH OUTLET. PROVIDE (1) 20A DUPLEX RECEPTACLE MOUNTED WITHIN ENCLOSURE. MOUNT ENCLOSURE AT 36" AFF. FIELD VERIFY. SEE TELE/CAV RISER DIAGRAM.
- PROVIDE A FAN-RATED JUNCTION BOX RECESSED FLUSH WITHIN CEILING.
- 1 SWITCH SHALL CONTROL FAN. 1 SPST OR 3 WAY SWITCH SHALL CONTROL LIGHT.
- MOUNT RECEPTACLE HORIZONTALLY WITHIN 12" OF FRONT EDGE OF COUNTER, COORDINATE WITH THE MILL WORK CONTRACTOR FOR OUTLET LOCATION WHEN NO SIDE WALL IS AVAILABLE.
- MOUNT HORIZONTALLY 4" BELOW COUNTERTOP WHERE COUNTER OVERHANG DOES NOT EXTEND MORE THAN 6". COORDINATE WITH ARCHITECT.
- CONNECT TO GFCI BRANCH CIRCUIT
- PROVIDE HUBBLE USB15A5\*\* SERIES TYPE COMBO RECEPTACLE, CIRCUIT DOWNSTREAM OF GFI--PROTECTED OUTLET IF LOCATED IN KITCHEN, WITHIN 6"-0" OF A SINK, OR NOTED AS "GFI".
- SEE 2/E1.10 FOR FAIR HOUSING OUTLET SPACING IN KITCHEN
- CONNECT TO UNIT LIGHTING BRANCH CIRCUITRY
- PROVIDE JUNCTION BOX FOR WATER HEATER.
- PROVIDE JUNCTION BOX FOR INDOOR UNIT.
- MOUNT SWITCHES 8" ABOVE COUNTER TOP. ONE SWITCH SHALL CONTROL RANGE HOOD FAN. ONE SWITCH SHALL CONTROL RANGE HOOD LIGHT.
- PROVIDE JUNCTION BOX W/2#12, #12G CIRCUIT FOR RANGE HOOD
- DOOR BELL AUDIO/VISUAL DEVICE.
- DOOR BELL PUSH BUTTON. MOUNT 48" AFF.
- SEE 3/E1.10 FOR HEARING IMPAIRED UNIT.
- PROVIDE (NEMA 5-20R) RECEPTACLE W/2#12, #12G CIRCUIT FOR MICROWAVE.

Seal

03-19-2021

**ZPA**

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Revisions

No.	Date	Description
1	03/19/21	Owner Comments

ASI / RFI Revisions

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Unit Plan

**E1.10**

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