Date: 03/05/15
Inspection Services Division
Approved with Conditions

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CONSTRUCTION NOTES

-LOCAL SMOKE DETECTORS SHALL BE WIRED FROM ARC-FAULT CIRCUITS, VERIFY WITH ELECTRICAL INSPECTOR.

-BACK TO BACK OUTLETS ON FIRE RATED WALLS SHALL BE INSTALLED TO MAINTAIN FIRE RATINGS, IF NECESSARY, USE FIRE RATED OUTLET BOXES.

-ALL FLOOR PENETRATIONS BY CABLES AND CONDUITS SHALL BE SEALED TO MAINTAIN FIRE RATINGS.

-RECESSED LIGHT FIXTURES INSTALLED ON FIRE RATED CEILINGS SHALL HAVE FIRE RATED HOODS ON TOP TO MAINTAIN FIRE RATING. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED AREAS.

-ALL WIRING WITHIN UNITS SHALL BE ROMEX. WIRING OUTSIDE UNITS SHALL BE METAL CLAD.

▼: INDICATES TEL OUTLET WITH # OF LINES EC SHALL WIRE EACH OUTLET HOME RUN 4 PAIR CAT 6 CLP FOR TEL AND 4 PAIR CAT 6 CLP FOR DATA TO TELEPHONE TERMINATION BOARD. TERMINATE AT TWO SEPARATE PUNCH DOWN BLOCKS. ALL WIRING AND TERMINATION'S SHALL BE PER CAT 5E SPECIFICATIONS, ALL WIRES SHALL BE PROPERLY LABELED AND RINGED OUT. KEEP WIRES MINIMUM 18" FROM ANY POWER FEEDS OR FIXTURE BALLASTS

TV INDICATES CATV JACK COMPLETE. EC SHALL HOME RUN EACH CATV OUTLETS WITH RG 6 COAX CABLE AND CONNECT TO CATV SPLITTER WITHIN EACH UNIT CLOSET AND CONNECT UNIT WITH DOUBLE COAX TO CATV ENTRANCE BOX LOCATED IN ELECTRIC ROOM.

MECHANICAL SYSTEM NOTES
-CONTRACTOR SHALL WIRE HVAC UNITS FOR EACH SPACE. CARRY 20/1 FOR INDOOR UNIT AND 30/2 FOR OUTDOOR UNIT. TYPICAL FOR FOUR (12) APARTMENTS, COORDINATE LOCATION IN FIELD WITH HVAC CONTRACTOR.
PROVIDE 50/2 FOR COMMON AREA HVAC UNIT SERVING UPPER CORRIDORS.
-PROVIDE SWH-4 IN EACH STAIR WIRED TO HOUSE PANEL

LOAD CALCULATIONS, (ALL ELECTRIC UNIT)

-LIGHTING AND POWER: 3W/1000SF	=3000W
-KITCHEN	=3000W
-ELECTRIC RANGE :	=12000W
-DISHWASHER/DISPOSAL:	=2000W
-WATER HEATER:	=COMMON
-WASHER:	=1500W
-DRYER:	=5000W
-INDOOR A/C:	=500W
-OUTDOOR A/C:	=3000W
-MICROWAVE/HOOD:	=1000W
TOTAL:	=31000W

UNIT DEMAND=(31-10KW-A/C)X.4+10+A/C=20.2KW

BUILDING DEMAND=12X24.5KWX.4=118KW

FACTOR TO BE TAKEN FROM TABLE NEC 220.84

FOR EACH APARTMENT PROVIDE DEDICATED CIRCUITS

-(2) 20A/1P KITCHEN COUNTER OUTLETS
-(1) 20A/1P FOR REFRIGERATOR
-(1) 20A/1P FOR DISHWASHER
-(1) 20A/1P FOR DISPOSAL
-(1) 20A/1P FOR MICROWAVE-HOOD
-(1) 50A/2P FOR ELECTRIC RANGE
-(1) 30A/2P FOR DRYER
-(1) 20A/1P FOR WASHER
-(1) 15A/1P FOR FURNACE
-(1) 50A/2P FOR CONDENSING UNIT
-(1) 20A/1P FOR DINING ROOM OUTLETS, ARC FAULT
-(1) 20A/1P FOR EACH BATHROOM
-(1) 15A/1P FOR LIGHTING, ARC FAULT
-(1) 15A/1P FOR LIVING ROOM, ARC FAULT
-(1) 15A/1P FOR EACH BEDROOM, ARC FAULT

WIRING SCHEDULE

ITEM	LOAD	CIRC.BRK.	WIRE (CU)
1a	LIVING RM. BEDROOMS, LIGHTS	15A/1P ARC FAULT	14/2 RX
2a	KITCHEN, DINING RM. WASHER,	20A/1P ARC FAULT	12/2 RX
2	KITCHEN GFI, TOILET GFI	20A/1P	12/2 RX
3	DRYER	30A/2P	10/3 RX
4	COOK-TOP OVEN	40A/2P	8/3 RX
5	RANGE	50A/2P	6/3 RX
6	AC-INDOOR	15A/2P	12/2 RX
7	AC-OUTDOOR	50A/2P	6/2 MC

LOCATION OF ALL MECHANICAL EQUIPMENTS AND ELECTRICAL CHARACTERISTICS SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR PRIOR TO ANY WORK DONE. ALL EQUIPMENT RELATING TO MECHANICAL COMPONENTS SHALL BE ORDERED ONLY AFTER THE APPROVAL OF MECHANICAL EQUIPMENT SHOP DRAWINGS

WITHIN EACH RESIDENTIAL DWELLING UNIT, ALL 120V RECEPTACLES SHALL BE TAMPER RESISTANT TYPE AS PER NEC 406.11.

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SHWARTZ BUILDING RENOVATIONS

ELECTRICAL
THIRD FLOOR PLAN
scale: 1/4"=1'-0"

E-4