

ELECTRICAL PANEL SCHEDULE

CIRCUIT	USE	POLE/BREAKER	LOAD	WIRE SIZE
13	AHU / HEAT STRIP	2P/20A	175 KW	#0
2,4	A/C SYSTEM CONDENSER	2P/20A	120 KW	#0
5,7	RANGE	2P/50A	120 KW	#0
6,8	WATER HEATER	2P/20A	45 KW	#0
9,11	DRYER	2P/20A	9.0 KW	#0
10	WASHER-LAUNDRY	1P/20A	15 KW	#2
12	REFRIGERATOR	1P/20A	12 KW	#2
13,15	DISHWASHER-DISPOSAL (FUTURE)	2P/20A	12 KW	#2
14	SMALL APPLIANCES	1P/20A	15 KW	#2
16	SMALL APPLIANCES	1P/20A	15 KW	#2
17	GARAGE DR. OPENER (FUTURE)	1P/5A	9 KW	#4
18	ALARM SYSTEM (FIRE-WIRE)	1P/20A	12 KW	#4
19-24	LIGHTS & RECEPTACLES	1P/5A	4.0 KW	#4
25	EXHAUST FAN	1P/20A	14 KW	#2
26	BATHROOM GFI	1P/20A	15 KW	#2
21,23	9PARES	---	---	---
TOTAL LOAD (WITHOUT HVAC)			374 KW	
GENERAL LIGHTING CALC. FOR 1329 SF. x 3 WATTS/SQ. FT.			4.0 KW	

ELECTRICAL LEGEND

⊕	DUPLEX RECEPTACLE	⊕	FLOOR LIGHTS
⊕	GROUND FAULT INDICATOR/LEAK PROOF	⊕	TELEVISION OUTLET
⊕	230 VOLTS	⊕	PHONE OUTLET
⊕	SPECIAL OUTLET	⊕	EXHAUST FAN
⊕	SWITCH	⊕	POWER BUTTON
⊕	4 WAY SWITCH	⊕	DOORBELL CHIMES
⊕	3 WAY SWITCH	⊕	SMOKE DETECTOR CLG. MOUNT
⊕	INCANDESCENT LIGHT	⊕	SMOKE DETECTOR WALL MOUNT
⊕	RECESSED LIGHT	⊕	JUNCTION BOX
⊕	VAPOR PROOF	⊕	CEILING FAN (OUTLET ONLY)
⊕	SWITCHED OUTLET	⊕	TRACK LIGHTING
⊕	RECESSED LIGHT (EYEBALL)		
⊕	FLOOR OUTLET		
⊕	FLUORESCENT FIXTURE		

ELECTRICAL SERVICE CALCULATION (PER SECTION 220-30 NEC)

AHU / HEAT STRIP	65%	4.9 KW
FIRST 100 KW	100%	10.0 KW
REMAINDER	40%	(274 x .40) = 11.0 KW
TOTAL COMPUTED LOAD		25.9 KW

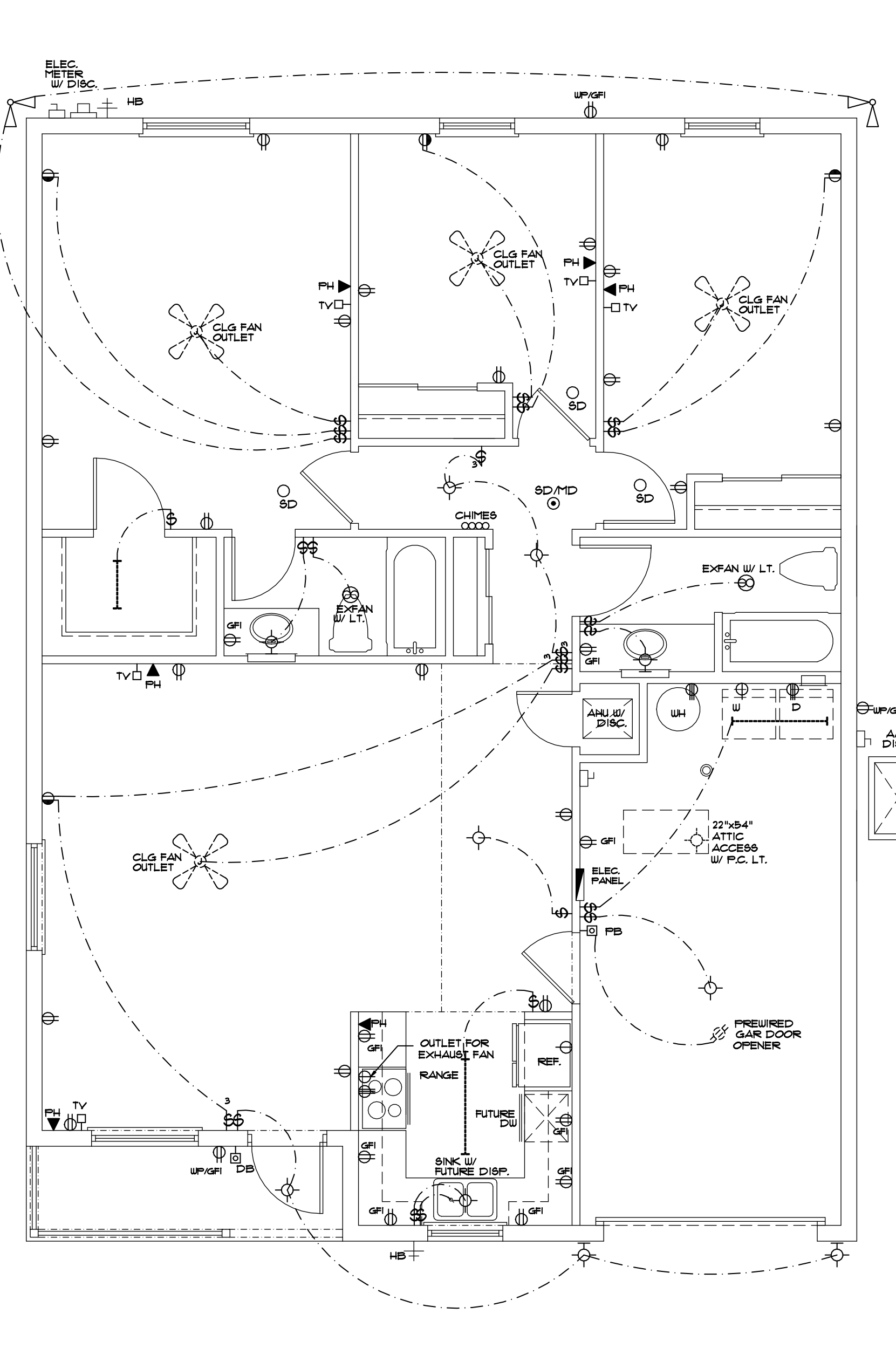
KW'S x 1000 = 100 AMP'S
 240 VOLTS

PROVIDE 150 AMP SERVICE
 (3) #10 THRU-CU IN 1 1/2" CONDUIT

ELECTRICAL NOTES

ALL OUTLET BOXES FOR RECEPTACLES, TV, ANTENNA, OR TELEPHONE JACKS IN RATED WALLS MUST BE METAL OR UL RATED FOR USE IN ONE HOUR CONSTRUCTION.
 ALL BATHROOM AND GARAGE OUTLETS TO BE GFI TYPE.
 ALL OPENINGS REQUIRED BY ELECTRICAL CONTRACTOR TO BE CLOSED TO MATCH FINISH AND FIRE RATED BY ELECTRICAL CONTRACTOR.
 INSTALLATION HEIGHTS ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
 WALL HANG TELEPHONE 18" AFF.
 TELEPHONE JACKS 12" AFF.
 LIGHT RECEPTACLES 12" AFF.
 TELEPHONE JACKS 12" AFF.
 RECEPTACLES # BATHS 40" AFF.
 ELECTRICAL CONTRACTOR TO CONFORM TO SOUTHERN BELL REQUIREMENTS FOR TELEPHONE EQUIPMENT INSTALLATION.
 COORDINATE ALL CONDUIT RISES AND EQUIPMENT INSTALLATION WITH OTHER TRADES TO AVOID CONFLICTS PRIOR TO FABRICATION, INSTALLATION AND ERECTION.
 ELECTRICAL CONTRACTOR TO VERIFY ALL WAG-LINE CONNECTIONS WITH HVAC CONTRACTOR PRIOR TO INSTALLATION.
 ALL METERS, METER CENTERS AND DISCONNECTS TO BE APPROVED BY FLORIDA POWER AND LIGHT.

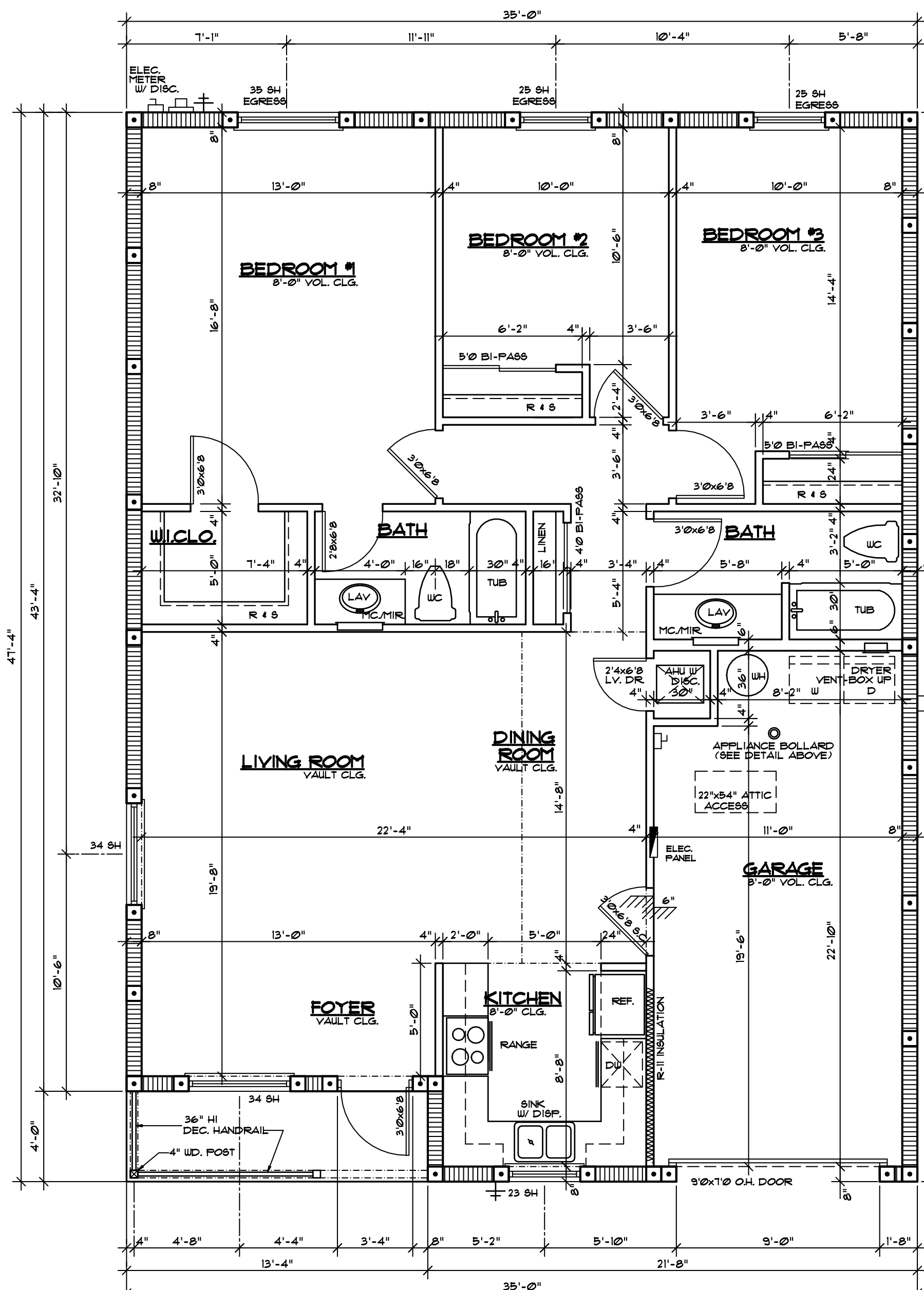
- ### GENERAL NOTES:
- CONSTRUCTION SHALL FOLLOW FLORIDA BUILDING CODE, 2017 INCL. 6th ADDENDUM AS ADOPTED BY THE CITY OF BOYNTON BEACH AS APPLICABLE AND ALL APPLICABLE AMENDMENTS.
 - BUILDER SHALL CO-ORDINATE ALL THE WORK OF ALL TRADES.
 - BUILDER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOBSITE PRIOR TO STARTING ANY WORK AND NOTIFY DESIGNER/ENGINEER IN WRITING IMMEDIATELY OR THE BUILDER SHALL ACCEPT FULL RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS. DO NOT SCALE DRAWINGS.
 - SUBMIT MINIMUM THREE (3) COPIES OF SHOP DRAWINGS AS REQUIRED.
 - THESE PLANS, AS DRAWN AND NOTED, COMPLY WITH THE BUILDING DEPARTMENT ENERGY REQUIREMENTS OF THE FLORIDA MODEL ENERGY CODE. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE GOVERNING CODE. ITS ENTIRETY AND BUILD IN ACCORDANCE WITH ALL PROVISIONS OF THIS CODE WHICH MAY NOT BE SPECIFICALLY ADDRESSED ON THE PLANS AND NOTES.
 - BUILDER RESERVES THE RIGHT TO SUBSTITUTE ITEMS WHICH THEY BELIEVE TO BE EQUAL OR BETTER THAN ITEMS SPECIFIED ON THESE DRAWINGS WITHOUT ANY PRIOR NOTICE. ITEMS WHICH, WHEN SUBSTITUTED REQUIRE APPROVAL OF THE BUILDING OFFICIAL. WILL BE SUBMITTED TO THE BUILDING OFFICIAL.
 - BUILDER IS RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL OR NON-STRUCTURAL MEMBERS DURING CONSTRUCTION.
 - CABINET SUPPLIER TO PROVIDE SHOP DRAWINGS TO THE BUILDER.
 - WINDOW AND DOOR SUPPLIER TO PROVIDE SHOP DRAWING TO BUILDER.
 - ALL WINDOWS AND DOORS SHALL BE CAULKED AND WEATHER STRIPPED. WINDOW UNITS SHALL DISPLAY LABELS SHOWING COMPLIANCE WITH THE FLORIDA STATE ENERGY CODE SECTION 502.4.
 - TRUSS MANUFACTURER SHALL SUBMIT FOUR (4) COPIES OF SHOP DRAWINGS AND ENGINEERING CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER, OF THEIR ROOF TRUSS DESIGN FOR APPROVAL, INCLUDING TWO (2) COPIES FOR DESIGNER'S REVIEW PRIOR TO FABRICATION.
 - TRUSSES TO BE DESIGNED TO CARRY LOADS OF ATTIC AHU AND MSC. EQUIPMENT. CO-ORDINATE LOCATIONS WITH BUILDER PRIOR TO FABRICATION AND INDICATE ON TRUSS DRAWINGS.
 - DESIGNER/ENGINEER ACCEPTS NO RESPONSIBILITY FOR STRUCTURAL BRACINGS, COLUMNS, AND FOOTINGS UNTIL REVIEW OF APPROVED TRUSS DRAWINGS, SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER.
 - ALL INTERIOR LOAD BEARING PARTITIONS TO BE CONSTRUCTED WITH CLIPS, TOP AND BOTTOM EACH STUD, AS PER CODE.
 - CONCRETE SHALL CONFORM TO ASTM C94 AND SHALL HAVE 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS (UNLESS OTHERWISE NOTED). ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318 AND ACI 301. ALL CONCRETE MASONRY WORK SHALL BE IN ACCORDANCE WITH ACI 531-79. fm = 1500 psi.
 - MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE: SLABS ON VAPOR BARRIER - 3/4" BEAMS AND COLUMNS - 1 1/2" FORMED CONCRETE BELOW GRADE - 2" UNFORMED CONCRETE BELOW GRADE - 3"
 - REINFORCING STEEL: GRADE 60 (FY=60,000) ASTM A615 S1.
 - PLACING DRAWINGS ON BAR LISTS SHALL CONFORM TO ACI'S "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE CONSTRUCTION" AS PUBLISHED BY THE CONCRETE REINFORCING STEEL INSTITUTE UNLESS NOTED OTHERWISE.
 - DETAIL OF CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" AS PUBLISHED BY THE CONCRETE REINFORCING STEEL INSTITUTE UNLESS NOTED OTHERWISE.
 - ADEQUATE VERTICAL AND HORIZONTAL SHORING SHALL BE PROVIDED TO SAFELY SUPPORT ALL LOADS DURING CONSTRUCTION.
 - CONCRETE BEAM SIZES MAY INCREASE (8" MAX.) AS REQUIRED FOR ARCHITECTURAL DETAILS OR TO FIT BLOCK COURSING, DROP BOT. OF THE BEAM AS REQUIRED AT WINDOW AND DOOR BEAMS (20" MAX.) AND ADD 2-#5 BARS BOTTOM IF DROP EXCEEDS 8".
 - DOVELS COLUMN AND WALL REINFORCING TO FOOTING WITH SAME SIZE AND NUMBER OF DOVELS AS VERTICAL BARS ABOVE.
 - VERTICAL CELLS FOR MASONRY TO BE GROUTED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED CONT. CELL.
 - CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF GROUTED CELLS AT EACH LIFT OVER 4'-0" HIGH. CLEANOUTS SHALL BE SEALED AFTER CLEANING AND INSPECTION, AND BEFORE GROUTING.
 - REINFORCING STEEL SHALL BE LAPPED 40 BAR DIA. MIN. WHERE SPICED AND SHALL BE WIRE TOGETHER. PROVIDE CORNER BARS SAME SIZE AND NUMBER AS HORIZ. BEAM REINFORCING AT EACH FACE. LAP 40 BAR DIA. MIN.
 - STRUCTURAL WOOD AND TIMBER FRAMING SHALL CONFORM TO THE "TIMBER CONSTRUCTION MANUAL" AS PUBLISHED BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
 - ALL WOOD IN CONTACT WITH MASONRY, OR CONCRETE SHALL BE PRESSURE TREATED. PROVIDE AN APPROVED MOISTURE VAPOR BARRIER BETWEEN THE CONCRETE OR OTHER CEMENTITIOUS MATERIALS AND THE WOOD AS PER CODE.
 - BUILDER SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE BRACING AND BRIDGING USED DURING ERECTION OF TRUSSES TO PREVENT COLLAPSE OR DAMAGE.
 - HEADERS FOR FRAMED OPENINGS GREATER THAN 6'-0" MUST BE ENGINEERED AND STAMPED BY THE TRUSS MANUFACTURER, (UNLESS NOTED OTHERWISE)
 - ALL HEADERS OVER DOORS AND WINDOWS TO BE 2 OR 3-2X12'S (FOR WOOD FRAME CONSTRUCTION DEPENDING ON ALL WALL THICKNESS).
 - DIMENSION LUMBER FOR HEADERS AND COLUMNS SHALL BE SOUTHERN PINE NO. 2 OR BETTER OR SHALL PROVIDE ALLOWABLE STRESS VALUES OF 1200 PSI IN BENDING FOR A SINGLE MEMBER USES. 90 PSI IN HORIZONTAL SHEAR AND SHALL HAVE A MODULUS OF ELASTICITY OF 1600 KSI OR BETTER, AS DETERMINED BY AN APPROVED LUMBER GRADING AGENCY.
 - STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" 1989 EDITION. MATERIALS SHALL CONFORM TO THE APPLICABLE ASTM SPECIFICATION AS FOLLOWS:
 SHAPES, PLATES, ANCHOR BOLTS - A 36
 MACHINE BOLTS - A 325
 TUBULAR - A500 A GRADE B (46 KSI)
 - WELDED CONSTRUCTION SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE". ELECTRODES FOR FELD AND SHOP WELDS SHALL BE A.W.S. A5.1 E70XX.
 - SEE FOUNDATION NOTES AND FRAMING NOTES FOR MORE INFO. ON THESE ITEM.



ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

NOTE 1: ALL "SLEEPING ROOMS" TO RECEIVE "ARC-Fault" PROTECTED CIRCUITS = ALL RECEPTACLES, LIGHTS, CEILING FANS, & SMOKE DETECTORS
 NOTE 2: ALL SMOKE DETECTORS SHALL BE HARD WIRED 120V W/ BATTERY BACK-UP & INTERCONNECTED, TO BE AHEAD OF ALL SWITCHES & SHALL BE CONNECTED TO BATH OR KITCHEN LIGHTING CIRCUIT



FLOOR PLAN

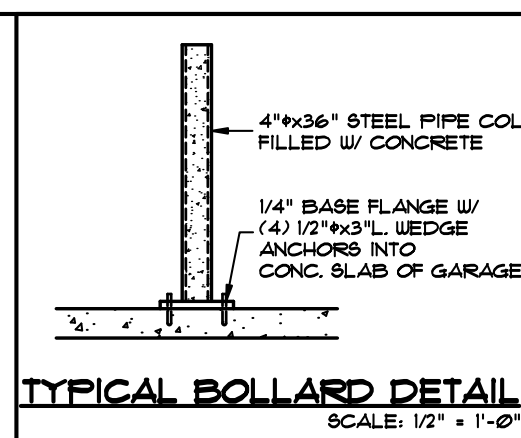
SCALE: 1/4" = 1'-0"

unless otherwise noted

CEILING HEIGHTS SHALL BE 8'-0"
 SHEET ROCK WALLS AND CEILINGS
 EXTERIOR WALLS TO BE 8" CONCRETE MASONRY UNITS WITH STUCCO FINISH (SEE ELEVATIONS)
 110 VOLT DIRECT WIRE SMOKE DETECTORS
 INSULATION MUST COMPLY WITH SECTION 1713-C U.B.C. STANDARD 42-1 AND ALL LOCAL CODE REQUIREMENTS
 1 3/8" HOLLOW CORE INTERIOR DOORS (SEE FLOOR PLAN FOR SIZES)
 ALL GLASS DOORS MUST COMPLY WITH SECTION 5406B U.B.C. STANDARD 54.2 PART 1 AND TEMPERED SAFETY GLASS ALL BATH AREAS
 ALUMINUM FRAME SINGLE HUNG WINDOWS AT 6'-8" HEAD HEIGHT
 ALL BEDROOM WINDOWS SHALL MEET EGRESS REQUIREMENTS OF: 20" MIN. WIDTH, 24" MIN. HEIGHT, WITH MIN. OPENING AREA OF 5.7 SQUARE FEET AND SILL HEIGHT NOT TO EXCEED 44" ABOVE FINISH FLOOR
 ALL ANGLES 45 DEGREES

bath schedule

VINYL TILE FLOOR WET AREAS
 VINYL TILE DRAIN AND SPLASH
 FULL FIBERGLASS ENCLOSURE AT TUB/SHOWER



AREA CALCULATIONS

LIVING:	1329 SF
GARAGE:	276 SF
COV. ENTRY:	54 SF
TOTAL:	1659 SF

110 N.W. 6TH AVE. BOYNTON BEACH
SINGLE FAMILY RESIDENCE for:
HABITAT for HUMANITY of S.P.B.C.
FLOOR & ELEC. PLANS

plan #:	1329-GFR	WALSH ENGINEERING, Inc. 3200 N. Federal Hwy., Suite 226 Boca Raton, FL 33431	sheet #:	2
job #:	19B594	(561) 362-0237 PE 0000 EB 0000		
date:	3/28/19	McCARRON / ASSOC., Inc. AIBD/FRDA - 638 EDDY ST., BOCA RATON, FL 33487	of:	3
		561-997-0579 /- 561-350-4364 mccaronassoc@att.net - www.mccaroninc.com		