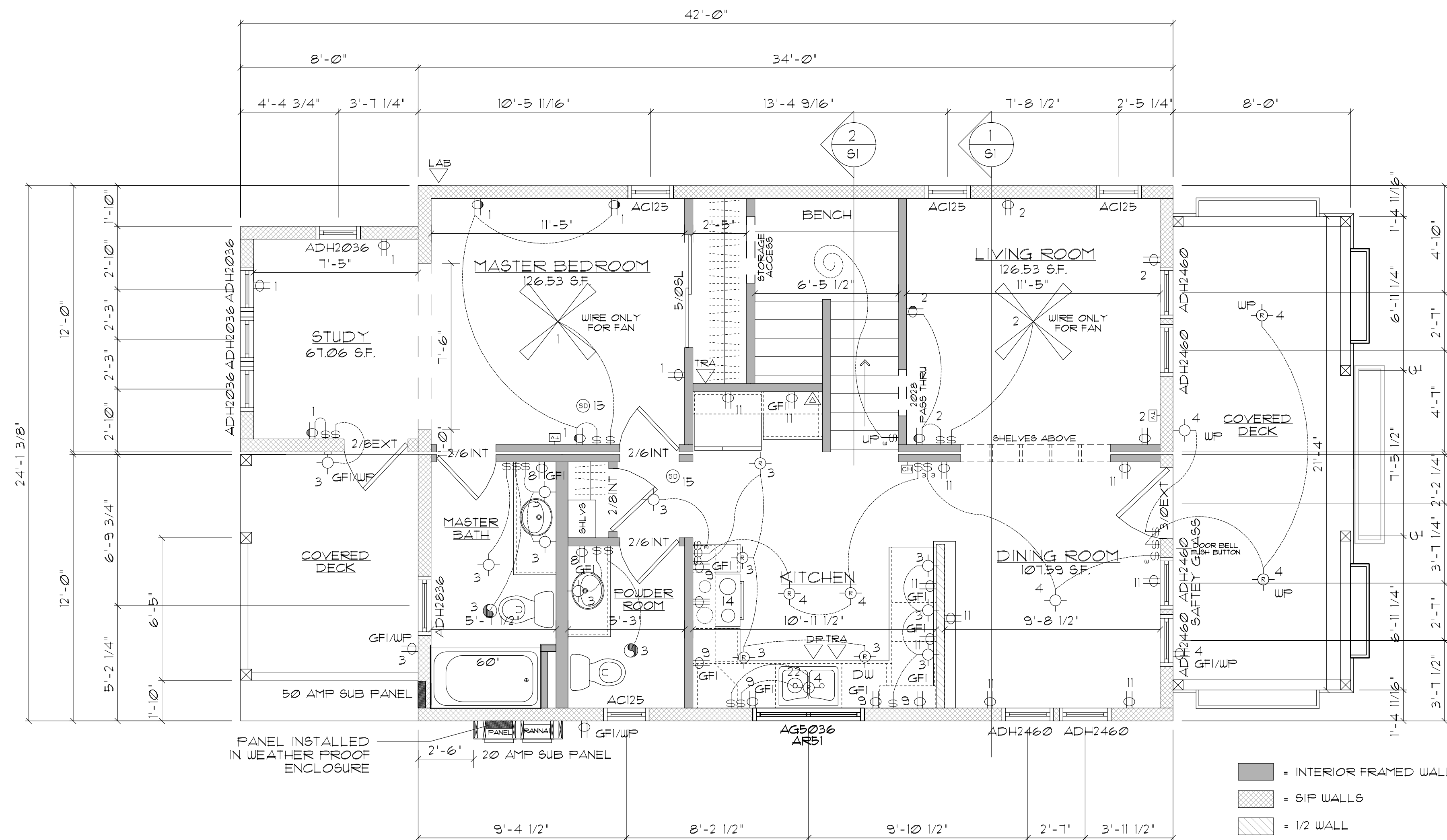


200 AMP UNDERGROUND FEEDER ASSEMBLY DETAILS

LOAD CALCULATIONS		
1721 SQ. FT. @ 3 WATTS/SQ. FT.	5.2 KW	
3 - 20 AMP APPL. CIRCUITS	4.5 KW	
LAUNDRY CIRCUIT	1.5 KW	
RANGE CIRCUIT	13.0 KW	
DRYER CIRCUIT	5.2 KW	
WATER HTR. CIRCUIT	5.5 KW	
DISHWASHER	1.4 KW	
DISPOSAL	.8 KW	
TOTAL	37.1 KW	
10 KW @ 100%	10.0	
REMAINDER 40%	10.22	
ASSUMED HVAC	20.90	
TOTAL LOAD	41.12	
41120 W/240 V.=171.3 AMPERES		
200 AMP SERVICE STANDARD		



ELECTRICAL LEGEND	
[Symbol]	SWITCH
[Symbol]	3-WAY SWITCH
[Symbol]	4-WAY SWITCH
[Symbol]	DIMMER SWITCH
[Symbol]	CEILING LIGHT
[Symbol]	RECESSED LIGHT
[Symbol]	PULL CHAIN LIGHT
[Symbol]	WATER PROOF REC. LIGHT
[Symbol]	WEATHER PROOF FLOOD
[Symbol]	FLOOD LIGHT
[Symbol]	REC. EYE LIGHT
[Symbol]	WALL LIGHT
[Symbol]	BATH FAN
[Symbol]	BATH FAN/LIGHT
[Symbol]	110V OUTLET
[Symbol]	220V OUTLET
[Symbol]	110V SWITCHED OUTLET
[Symbol]	TELEVISION
[Symbol]	TELEPHONE
[Symbol]	SMOKE DETECTOR
[Symbol]	THERMOSTAT
[Symbol]	GARBAGE DISPOSAL
[Symbol]	CEILING FAN
[Symbol]	ELECTRIC PANEL
[Symbol]	CARBON MONOXIDE DETECTOR
[Symbol]	CHIMES
[Symbol]	MOTION SENSER SWITCH
[Symbol]	GFI
[Symbol]	WEATHER PROOF

NOTE:
 ALL BRANCH CIRCUITS SUPPLYING 15 AND 20 AMP OUTLETS IN BEDROOMS MUST BE AFCI PROTECTED
 ALL SWITCHES IN LIVING AREAS TO HAVE DIMMER SWITCHES TYP.

MAIN LEVEL PLAN

SCALE : 1/4" = 1'-0"
 902 SQ. FT. AREA

ELECTRICAL NOTES:

- ALL CONDUCTORS WILL BE COPPER.
- RECEPTACLE OUTLET SPACING CONFORMS TO 2001 CA. ELEC. CODE.
- NON METALLIC SHEATHED CABLE WILL BE TYPE NMB OR NMC-B.
- SMOKE DETECTORS SHALL BE WIRED SO THAT ACTUATION OF ONE ALARM WILL ACTUATE ALL SMOKE DETECTOR ALARMS IN THE HOME.
 *IN MODELS WITH A BASEMENT, A JUNCTION BOX WILL BE INSTALLED UNDER THE FLOOR AND A SMOKE DETECTOR WILL BE SHIPPED LOOSE FOR SITE INSTALLATION.
- CEILING LIGHTS MAY BE REPLACED WITH CEILING FAN/LIGHT COMBINATIONS IF THEY ARE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND CODE REQUIREMENTS.
- LIGHTING FIXTURES INSTALLED IN CLOSETS WILL BE IN ACCORDANCE WITH THE 2001 CA. ELEC. CODE.
- LIGHTS AND ELECTRICAL CIRCUITS FOR BASEMENT, CRAWL SPACE, AND/OR GARAGE ARE TO BE PROVIDED ON SITE BY OTHERS.
- SPACES ARE PROVIDED IN THE PANEL BOX FOR EXPANSION.
- ELECTRICAL INTERCONNECTION BETWEEN MODULES SHALL BE MADE IN THE BASEMENT OR CRAWL SPACE USING JUNCTION BOXES BY A QUALIFIED ELECTRICIAN ON SITE. JUNCTION BOXES AT THE MATE-LINES SHALL BE IDENTIFIED BY CIRCUIT.
- ELECTRICAL BOXES SHALL BE LISTED FOR THE SPECIFIC PURPOSE. BOXES FOR FIXTURE ATTACHMENTS SHALL BE DESIGNED FOR THAT PURPOSE WITH PROPER FIXTURE ATTACHMENT MEANS. ALL FIXTURES SHALL BE ADEQUATELY SUPPORTED PER THE FIXTURE MANUFACTURERS INSTRUCTIONS AND THEIR LISTING REPORT.
- THE METHOD OF MOUNTING FIXTURES AND WIRING INSTALLATION SHALL BE PER THE LISTING REPORT AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
- SMOKE DETECTORS SHALL BE INSTALLED OUTSIDE OF EACH SLEEPING AREA AND MUST BE INSTALLED IN EACH BEDROOM. AT LEAST ONE (1) SMOKE DETECTOR MUST BE INSTALLED ON EACH LEVEL, INCLUDING BASEMENTS. ALL SMOKE DETECTORS WITHIN A DWELLING UNIT SHALL BE AC/DC AND INTERCONNECTED TO PROVIDE SIMULTANEOUS ACTIVATION.
- ALL BRANCH CIRCUITS THAT SUPPLY 125-V SINGLE PHASE, 15 & 20 AMP OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.

TYPICAL CIRCUIT LEGEND

CIRCUITS	AMPS	WIRE-CU	CIRCUITS	AMPS	WIRE-CU
1,2,3 - LIGHTING	15	NM 14-2/WG	18A - OPT. COOKTOP RANGE	40	NM 8-3/WG
4,5,6 - LIGHTING	15	NM 14-2/WG	18B - OPT. COOKTOP RANGE	30	NM 10-3/WG
7 - WASHER	20	NM 12-2/WG	19A - OPT. BUILT-IN	20	NM 12-2/WG
8 - BATH GFI	20	NM 12-2/WG	19B - OPT. BUILT-IN	20	NM 12-2/WG
9,10 - APPL.	20	NM 12-2/WG	20A - OPT. FURNACE	20	NM 12-2/WG
11,12 - APPL.	20	NM 12-2/WG	20B - OPT. FURNACE	20	NM 12-2/WG
13 - DRYER	30	NM 10-3/WG	21 - OPEN	15	NM 14-2/WG
14 - RANGE	40	NM 8-3/WG	22 - OPT. DISPOSAL	15	NM 14-2/WG
15 - SMOKE ALARM	15	NM 14-3/WG	23,24 - LIGHTING	15	NM 14-2/WG
16 - OPT. DISHWASHER	20	NM 12-2/WG			
17A - WTR. HTR	20	NM 12-2/WG			
17B - WTR. HTR	25	NM 12-2/WG			
17C - WTR. HTR	20	NM 12-2/WG			
17D - WTR. HTR	25	NM 12-2/WG			