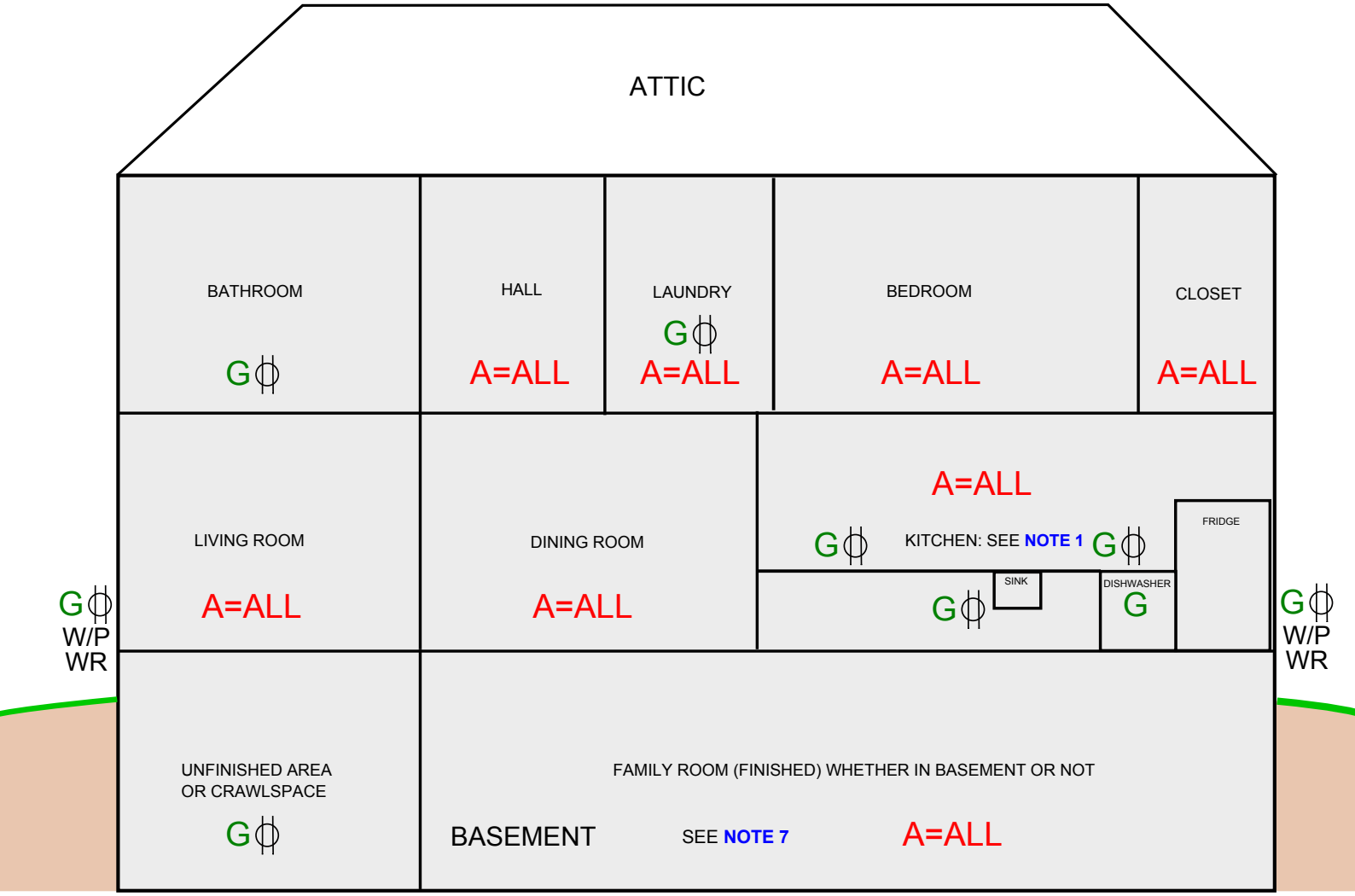
2017 NATIONAL ELECTRICAL CODE REQUIREMENTS FOR GFCI AND AFCI

SINGLE FAMILY DWELLING: ARTICLES 210.8 AND 210.12



A=ALL AFCI: ALL 120V 15 AND 20 AMP CIRCUITS INCLUDING RECEPTACLES, LIGHTING OUTLETS SMOKE ALARM/FIRE ALARM CIRCUITS, ETC. THERE ARE SIX WAYS TO ACCOMPLISH THIS: SEE 210-12(A)(1-6). IN AREAS WHERE A=ALL IS PRESENT AND THERE IS ALSO A REQUIREMENT FOR GFCI, BOTH GFCI AND AFCI PROTECTION MUST BE INSTALLED

G ALL 120V 15 AND 20 AMP RECEPTACLES REQUIRED TO BE GFCI PROTECTED

G REQUIRED GFCI OUTLET (RECEPTACLE OR HARDWIRED)

NOTE 1: ALL 120V 15 AND 20 AMP KITCHEN COUNTER RECEPTACLES, ALL 120V 15 AND 20 AMP RECEPTACLES WITHIN 6' OF SINK AND THE DISHWASHER BRANCH CIRCUIT OUTLET MUST BE GFCI PROTECTED

NOTE 2: ALL 120V 15 AND 20 AMP RECEPTACLES WITHIN 6' OF ANY SINK, BATHTUB OR SHOWER STALL MUST BE GFCI PROTECTED: 210.8(A)(7) AND (9)

NOTE 3: OUTLETS IN SUNROOMS MUST BE AFCI PROTECTED: 210.12(A)

NOTE 4: GARAGES AND ACCESORY BUILDINGS MUST HAVE 120V 15 AND 20 AMP RECEPTACLES PROTECTED BY GFCI: 210.8(A)(2)

NOTE 5: ALL RECEPTACLES REQUIRED BY 210.52 MUST BE TAMPER-RESISTANT (EXCLUDES RECEPTACLES ABOVE 5.5', RECEPTACLES IN CLOSETS AND CRAWLSPACES)

W/P WR **NOTE 6**: ALL OUTSIDE (WET LOCATION) 15 OR 20 AMP RECEPTACLES MUST BE TYPE "WR" AND BE COVERED BY AN "EXTRA DUTY" COVER THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT CAP IS INSERTED 406.9(B)(1)

NOTE 7: EXCEPTION EXISTS FOR RECEPTACLE SUPPLYING PERMANENTLY INSTALLED FIRE/BURGLAR ALARM SYSTEM IN BASEMENT 210.8(5) exc.