MINIMUM INSULATION REQUIREMENTS:

1. USING THE SPECIFIC "PRESCRIPTIVE METHOD," SHOWN BELOW ARE THE MINIMUM INSULATION LEVELS REQUIRED. THE "PRESCRIPTIVE METHOD" IS VISUALLY FIELD VERIFIABLE, AND IS BASED SOLELY ON THE ACTUAL INSULATION MATERIALS INSTALLED. THE FRAMING, DRYWALL, SHEATHING, ETC. DOES NOT CONTRIBUTE.
2. USING THE ALTERNATIVE "PERFORMANCE METHOD," A COMPLIANCE REPORT MAY BE SUBMITTED SHOWING THE PROPOSED DESIGN HAS ANNUAL ENERGY COST LESS THAN OR EQUAL TO THE ENERGY COSTS OF THE STANDARD REFERENCED (PRESCRIPTIVE) DESIGN. COORDINATE ACCEPTABLE REPORT METHOD WITH THE LOCAL CODE OFFICIAL.
3. EASTERN PA IS IN THE BORDER AREA BETWEEN CLIMATE ZONE 4 & 5, THE HIGHER VALUES ARE SHOWN.
4. NOTE: THESE ARE MINIMUMS AND ARE BASED ON FIBERGLASS BATTS, AND NOT RECOMMENDED AS COST EFFECTIVE. INSULATION SYSTEMS WHICH ARE MOST EFFECTIVE IN DEFEATING "AIR INFILTRATION" ARE HIGHLY RECOMMENDED. AIR INFILTRATION IS A MAJOR FACTOR IN DETERMINING THE EQUIPMENT SIZING OF HVAC SYSTEMS. OTHER COST SAVING MAY ALSO BE ACHIEVED. FOR INSTANCE, A UNIFORM FIELD APPLICATION OF R-20 SPAY APPLIED CLOSED CELL URETHANE WILL SIGNIFICANTLY OUTPERFORM THE FIBERGLASS, IT ALSO QUALIFIES AS THE AIR BARRIER AND VAPOR BARRIER.
5. WHEN BUILDINGS ARE MADE HIGHLY RESISTANT TO AIR INFILTRATION, THEN FRESH AIR EXCHANGE SYSTEMS ARE RECOMMENDED. SEE OTHER HVAC NOTES.

LOCATION	MIN. INSULATIO N FACTOR	DESCRIPTION
WINDOW GLAZING	U-0.35 MAX.	THIS IS WINDOWS AND DOOR GLAZING. UNITS MUST DISPLAY THE MANUFACTURE'S DATA
SKYLIGHTS	U-0.60 MAX.	SKYLIGHT UNITS MUST DISPLAY THE MFG'S DATA
CEILINGS	R-38	THIS IS THE HIGHEST CEILING UNDER THE ATTIC DECK, IF A "FLAT" ROOF OR CATHEDRAL CEILING THIS IS THE RATING REQUIRED IN THE RAFTERS
WALLS	R-19	THIS IS PERIMETER ABOVE GRADE EXTERIOR WALLS.
FLOORS	R-30	WHEN THE FLOOR IS OVER AN NON-INSULATED BASEMENT OR CRAWLSPACE. CAREFUL ATTENTION IS RECOMMENDED AT THE EXTERIOR FLOOR PERIMETER (THE RIBBON BAND) WHERE THE INSULATION SHOULD BE INSTALLED SIMILAR TO WALLS WITH VAPOR BARRIER FACING THE WARM OR INTERIOR SIDE.
BASEMENT PERIMETER WALLS	R-10 / 13	WHEN THE BASEMENT IS A CONDITIONED, OR OCCUPIED SPACE THIS RATING IS REQUIRED. IF THE BASEMENT PERIMETER IS INSULATED, THEN THE FLOOR ABOVE IS NOT REQUIRED TO BE INSULATED. INSULATION SHALL EXTEND FROM THE BOTTOM OF THE FLOOR DECK ABOVE TO THE BASEMENT FLOOR.
SLAB PERIMETER	R-10	SLABS MUST BE SEPARATED FROM THE EARTH BY THIS RATING FOR A MINIMUM DISTANCE OF 24" EITHER VERTICALLY AGAINST THE FOUNDATION WALL, OR HORIZONTALLY UNDER THE SLAB IN FROM THE EXTERIOR. (NOTE: THIS ARCHITECT RECOMMENDS 36", OR MORE, AS THE MIN. DISTANCE FOR REAL ENERGY SAVING)
CRAWLSPACE WALLS	R-10 / 13	IF THE FLOOR ABOVE IS NOT INSULATED, AND IF A CRAWLSPACE IS NOT VENTED TO THE EXTERIOR, THEN THIS RATING IS REQUIRED. INSTALL SIMILAR TO DESCRIPTION FOR BASEMENT WALLS.

FIBERGLASS ROOF SHINGLE SYSTEM

1. WIND RESISTANCE U.L. INC. LISTING CLASS "A". FIRE RATING: U.L. INC. LISTING CLASS "A". WEIGHT MIN. 200 LBS./SQUARE MIN. EXPOSURE MANUFACTURER'S RECOMMENDATIONS, HEAD CAP 2" MINIMUM. SUBMIT TECHNICAL PRODUCT DATA, INSTALLATION INSTRUCTIONS, AND RECOMMENDATIONS. PROVIDE FULL RANGE OF SAMPLES OF COLOR AND TEXTURE FOR OWNER'S SELECTION. PROVIDE SHINGLE MANUFACTURER WARRANTY ON INSTALLED WORK. PERIOD OF WARRANTY IS 30 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. COLOR RECOMMENDED SHALL BE A "GREY/BLUE" WEATHERED WOOD SHAKE REPLICATION. COLOR AND MFG. SHALL BE CONFIRMED BY OWNER.
2. MAINTENANCE STOCK SHALL BE 2% OF EACH TYPE/COLOR/TEXTURE OF SHINGLE USED IN THE WORK. DELIVER TO OWNER FOR STORAGE.
3. HORSE FEATHERS: AT THE GABLE EDGES OF ALL ROOFS (ABOVE RAKE BOARDS), ATTACH TO THE SHEATHING A PIECE OF 10" CEMENT FIBER TAPERED SHIPLAP SIDING TO FORM SLIGHT "RAMP" THICKENING THE OUTSIDE EDGE AND RETARDING WATER ROLLING OFF EDGES. COVER WITH ROOFING MEMBRANE.
4. PROVIDE BLACK ALUMINUM METAL DRIP EDGES AT ALL, EAVE AND GABLE, ROOF EDGES.
5. ROOFING MEMBRANE FELT SHALL COMPLY WITH ASTM D 250. MIN. 30 LB.
6. ICE DAM PREVENTION MEMBRANE (ICE SHIELD) SHALL BE INSTALLED STARTING AT THE EAVE EDGE, AND EXTEND A MIN. 36" UP THE ROOF SLOPE, MEASURED FROM THE INTERIOR FACE OF THE WALL BELOW, SHALL BE COMPATIBLE WITH THE SHINGLE SELECTED.
7. VALLEY FLASHINGS SHALL BE EXPOSED METAL WITH MIN. 2" EXPOSURE UP EACH OPPOSING ROOF SLOPE. USE COPPER OR VERIFY OWNER'S APPROVAL FOR OTHER MATERIAL. USE ICE DAM MEMBRANE UNDER ALL VALLEYS.
8. ABUTTING ALL VERTICAL SURFACES, INSTALL METAL STEP FLASHING, IN COMPLIANCE WITH RECOMMENDATIONS OF THE NRCA STEEP ROOF MANUAL. BUILD IN FLASHING AS WORK PROGRESSES, WORKING BETWEEN SHINGLES AS THEY ARE LAID. WHEREVER STEP FLASHINGS ARE REQUIRED, PROVIDE EXPOSED COUNTER FLASHING.
9. PLUMBING VENT STACK FLASHINGS, AND SIMILAR, SHALL BE NEW NEOPRENE BOOTS.

GUTTERS AND DOWNSPOUTS

1. GUTTERS SHALL BE FIELD ROLLED, SEAMLESS, FROM 0.032 GAUGE ALUMINUM. COLOR SHALL BE SELECTED BY OWNER. PROFILE SHALL BE STANDARD 5 INCH "K". PROVIDE GOOD SUPPORTIVE HANGERS. A MEDIUM GREY IS A GOOD COLOR.
2. PROVIDE STANDARD DOWNSPOUTS, SIZE 3X4, GA. 0.019, GENERALLY 2 PER BUILDING SIDE, SEE DRAWINGS FOR LOCATIONS. PROVIDE CONCRETE SPLASH BLOCKS FOR EACH.

INSULATION: URETHANE SPRAY FOAM SYSTEMS

1. MATERIAL SHALL BE CLOSED CELL, URETHANE BASED, WITH NO FORMALDEHYDE PRODUCTS. R-VALUE IS GENERALLY 6.50 PER INCH, AGED. PRODUCT SHALL BE EXPANDING, SELF SKINNING, AND BE FROM A NATIONALLY RECOGNIZED MANUFACTURER.
2. INSTALLER SHALL BE EXPERT IN THE USE AND APPLICATION OF THESE SPRAY FOAM PRODUCTS, WITH A MINIMUM OF 3-YEARS EXPERIENCE AND CERTIFIED BY THE MANUFACTURER OF THE PRODUCTS BEING USED.
3. THE BUILDING CODE HAS REQUIREMENTS FOR THE PROTECTION OF FOAM PLASTIC INSULATIONS. IN GENERAL AN IGNITION BARRIER IS REQUIRED IN OCCUPIED SPACE. IN FINISHED "LIVING" SPACE, THE FOAM SPRAYED BETWEEN STUDS AND RAFTERS WILL BE COVERED WITH 1/2" GYPSUM DRYWALL, WHICH HAS A 20-MINUTE FIRE RATING. THE INSTALLER SHALL BE EXPERT IN UNDERSTANDING CODE REQUIREMENTS AS THEY APPLY TO THESE PRODUCTS. BEFORE QUOTING THE JOB, THE INSTALLER SHALL COORDINATE WITH THE LOCAL INSPECTOR FOR CLARIFICATION. PROVIDE A CODE APPROVED "SPRAY APPLIED IGNITION BARRIER" WHERE REQUIRED.
4. BEFORE QUOTING THE JOB, THE INSTALLER SHALL COORDINATE WITH THE LOCAL INSPECTOR FOR CLARIFICATION REGARDING APPROVAL SUBMISSIONS.
5. IF REQUIRED, INSTALLER SHALL PREPARE AND PROVIDE ALL DOCUMENTS NECESSARY SHOWING COMPLIANCE WITH EITHER THE INTERNATIONAL RESIDENTIAL CODE, CHAPTER 11, ENERGY EFFICIENCY, SECTION N1102.1.3, TOTAL UA ALTERNATIVE; OR WITH, THE INTERNATIONAL ENERGY CONSERVATION CODE, SECTION 404, ALTERNATIVE "PERFORMANCE METHOD.
6. WEATHER BARRIER: THE BUILDING CODE REQUIRES A WATER TIGHT BARRIER TO PREVENT MOISTURE PENETRATION FROM THE EXTERIOR. THIS IS SEPARATE FROM THE "AIR" OR "VAPOR" BARRIER.
7. AIR BARRIER: THE ENERGY CONSERVATION CODE REQUIRES AN "AIR BARRIER" AS PART OF THE "BUILDING ENVELOPE." ONE-THIRD OF HEAT LOSS IS DUE TO INFILTRATION.
8. VAPOR BARRIER: THE ENERGY CONSERVATION CODE REQUIRES A "VAPOR BARRIER" AS PART OF THE "BUILDING ENVELOPE." IN COOL CLIMATES, INTERIOR VAPOR BARRIERS PREVENT TRANSFER OF MOISTURE VAPOR FROM WARM CONDITIONED SPACE INTO THE PERIMETER WALL CONSTRUCTION CAVITIES WHERE IT CAN CONDENSE BACK TO WATER, DETERIORATING FRAMING, AND INCREASING MOLD POTENTIAL.
9. CLOSED CELL SPRAY FOAM SATISFIES THE REQUIREMENTS FOR BOTH THE AIR BARRIER, AND THE VAPOR BARRIER, WHEN APPLIED AT A THICKNESS OF 2-INCHES OR GREATER.
10. NON-VENTILATED ATTICS: ATTICS DO NOT REQUIRE VENTILATION WHEN ATTIC BECOMES PART OF THE INSULATED ENVELOPE. NO SOFFIT OR RIDGE VENTING IS USED. DUCTWORK IN ATTICS WILL NOT REQUIRE AS MUCH INSULATION, JUST ENOUGH TO PREVENT "SWEATING."
11. BASE BID: FORM A CONTINUOUS, MONOLITHIC, ENVELOPE OF CLOSED CELL POY INSUL. AROUND THE ENTIRE BUILDING, INCLUDING BASEMENTS, CRAWL SPACES, AND ALL ATTICS.
    A. R-20 (MIN. 3 INCHES) TO BE SPRAYED CONTIUNOUS ON ALL EXTERIOR PERIMETER WALLS, FROM THE BOTTOM OF BASEMENT OR CRAWLSPACE SLABS UP TO THE ROOF RIDGES.
    B. R-20 (MIN. 3 INCHES) TO BE SPRAYED TO THE UNDERSIDE OF ALL ROOFS, MERGING INTO THE WALL LAYER.

RADIANT BARRIER

5. RADIANT BARRIERS ARE REFLECTIVE FILMS, PAINTS, MEMBRANES, ETC., WITH THE PURPOSE OF REFLECTING THE SUN'S RADIANT (HEAT) ENERGY AWAY BEFORE ENTERING THE BUILDING. MANUFACTURES CLAIM SIGNIFICANT ENERGY SAVINGS FOR COOLING. ELECTRIC AIR CONDITIONING IS MORE EXPENSIVE PER "DEGREE CHANGE" THAN HEATING. IN THE MID-ATLANTIC REGION, WHEN TEMPERTURES ARE MAINTAINED YEAR ROUND, COOLING COSTS EQUAL OR EXCEED HEATING COSTS.
6. SHEATHING OPTION: SOME MANUFACTURERS ARE PROVIDING WALL AND ROOF SHEATHING WITH A FACTORY APPLIED FOIL FACE, HOWEVER SPRAY FOAM INSULATIONS MAY NOT ADHERE TO THESE FOIL FACES.
7. BASE BID: PAINT PRODUCT OPTION: SHERWIN WILLIAMS "E-BARRIER," APPLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH THE LOCAL MFG. REP. SURFACE COVERAGE DOES NOT HAVE TO BE PERFECT. ACHIEVE BEST COVERAGE AS IS PRACTICAL. THIS IS A SOFT METALLIC FINISH, AND SPRAY FOAMS WILL ADHERE.
8. SURFACES TO RECEIVE BARRIER:
    A. UNDERSIDE (INTERIOR) OF ALL ROOF SHEATHING .
    B. INTERIOR SIDE OF ALL ATTIC GABLE WALLS, ESPECIALLY SOUTH AND WEST FACING.
    C. INTERIOR SIDE OF ALL ALL SOUTH AND WEST FACING OCCUPIED ROOM WALLS.

PLUMBING: WITH PUBLIC WATER AND SANITARY SERVICE

1. PLUMBING SHALL BE DONE IN ACCORDANCE WITH MUNICIPAL STANDARDS AND CODE BY LICENSED PLUMBERS. VERIFY MUNICIPAL REQUIREMENTS. PLUMBER SHALL COMPLETE HIS PART OF THE BUILDING PERMIT APPLICATION. IF MUNICIPALITY REQUIRES PLUMBING RISER DIAGRAMS OR SCHEMATICS, THEN THE PLUMBING CONTRACTOR SHALL PREPARE, PROVIDE AND SUBMIT WITH THE PLUMBING PERMIT APPLICATION.
2. THE SCOPE OF WORK IS TO "ROUGH IN ONLY" FOR THE FUTURE BATH OPTION SHOWN IN THE MASTER BEDROOM CLOSET.
3. PROVIDE OWNER WITH PLUMBING FIXTURE SCHEDULE FOR REVIEW AND APPROVAL BEFORE INSTALLATION OF ANY WORK.
4. ALL SUPPLY PIPING SHALL BE COPPER. PROVIDE FULL 3/4" MAINS ALL THE WAY TO EACH FIXTURE BEFORE CHANGING TO 1/2" RISERS FOR CONNECTIONS TO FIXTURES. TAKE PRECAUTIONS NOT TO LIMIT PRESSURE TO REMOTE LOCATIONS.
5. PROVIDE SHUT-OFF VALVES FOR EACH FIXTURE SUPPLY. USE "BALL VALVES" ONLY FOR ABSOLUTELY EVERYTHING, NO GATE TYPE VALVES.
6. PROVIDE "SHOCK" RISERS AT ENDS OF MAINS. PROVIDE EXPANSION TANK ON HOT WATER SUPPLY.
7. ALL WASTE PLUMBING IN AND BELOW THE SECOND FLOOR DECK, BUILT INTO WALL AND FLOOR CAVITIES, SHALL BE COMPLETELY SURROUNDED WITH FIBERGLASS SOUND INSULATION.
8. TAKE SPECIAL PRECAUTIONS WITH CUTTING AND PATCHING JOISTS. DO NOT NOTCH JOISTS, DRILL HOLES ONLY IN PROPER LOCATIONS AT CENTER OF JOISTS, SEE CODE AND SEE SPECIFIC DETAILS PROVIDED IN THE ENGINEERED TIMBER CATALOGS.
9. ALL PIPES LOCATED IN EXTERIOR WALLS SHALL BE INSULATED. AFTER INSTALLATION, SEAL THE PASSAGE OF ALL PIPES THROUGH WALL PLATES (TOP AND BOTTOM, INTERIOR OR EXTERIOR WALLS) WITH EXPANDABLE URETHANE FOAM TO PREVENT VERTICAL PASSAGE OF AIR.

HEATING / COOLING / VENTILATION SYSTEM PERFORMANCE SPECIFICATION:

1. COOLING: PROVIDE THROUGH WALL INSTALLATION OF "WINDOW" TYPE UNIT WHERE SHOWN. IN ADDITION, WIRE FOR REMOTE 7-DAY PROGRAMMABLE, DIGITAL THERMOSTAT.
2. HEATING: MASTER BEDROOM SHALL BE A SEPARATE ZONE, WITH SEPARATE THERMOSTAT (SEE COOLING ABOVE). EXTEND HOT WATER BASEBOARD LOOP INTO THE NEW ROOM FROM THE EXISTING HOT WATER BOILER.
3. GENERAL: HVAC CONTRACTOR SHALL COMPLETE HIS PART OF THE BUILDING PERMIT APPLICATION. IF MUNICIPALITY REQUIRES SCHEMATICS, CALCULATIONS, DIAGRAMS, OR CATALOG CUTS, THEN HVAC CONTRACTOR SHALL PROVIDE.
4. SEE ALL INFO ABOUT "SPRAY FOAM INSULATION SYSTEMS" AND RADIANT BARRIERS. SPRAY FOAM SYSTEMS SIGNIFICANTLY REDUCE INFILTRATION, THUS REDUCING EQUIPMENT SIZING. USE SMALLER EQUIPMENT, AND WORK IT HARD AS REQUIRED.
5. ALL NEW EQUIPMENT TO HAVE ENERGY STAR RATINGS, WITH MIN AC SEER RATING OF 13 OR BETTER.
6. THERMOSTATS: PROVIDE LUX MOD# PSPA711. THESE ARE DUAL SETBACK, 7-DAY PROGRAMMABLE, HEATING AND COOLING, WITH BATTERY BACKUP. MAKE SURE CONTROL WIRING FOR BOTH HEATING AND COOLING GETS TO STAT LOCATIONS. ALTERNATES, BUT EQUAL, MAY BE PROPOSED. PROVIDE BEST UNITS AVAILABLE.
7. EXHAUST FANS AND VENTS: SEE ELECTRICAL DRAWINGS FOR EXHAUST FAN LOCATIONS. ALL FANS SHALL BE MIN. 200 CFM. ALL VENTS SHALL BE DIRECT TO THE EXTERIOR THROUGH WALL OR ROOF VENT CAPS PROVIDED WITH GOOD BACK DRAFT PREVENTION. ALL DUCTWORK SHALL BE METALLIC. NO VENTING INTO ATTICS OR SOFFITS ALLOWED.

ELECTRICAL SYSTEM NOTES:

1. LICENSED ELECTRICIANS SHALL DO ALL WORK IN ACCORDANCE WITH THE LOCAL AND NATIONAL ELECTRICAL CODE. ELECTRICIAN SHALL PROVIDED AN UNDERWRITER'S CERTIFICATE AT THE CONCLUSION OF WORK.
2. ELECTRICIAN SHALL COMPLETE HIS PART OF THE BUILDING PERMIT APPLICATION. IF MUNICIPALITY REQUIRES LOAD CALCULATIONS OR DIAGRAMS, THEN ELECTRICAL CONTRACTOR SHALL PROVIDE.
3. THE MINIMUM WIRE SIZE FOR RECEPTACLES SHALL BE 12 GA., THE MINIMUM WIRE SIZE FOR LIGHTING SHALL BE 14 GA., ALL COPPER. ALL CIRCUITS SHALL BE GROUNDED.
4. LIGHT FIXTURES - BASE BID IS ALL PORCELAIN SOCKETS. IF OWNER DOES NOT PROVIDE OR APPROVE A LIGHT FIXTURE AT TIME OF FINAL ELECTRICAL INSPECTION, THEN INSTALL SIMPLE PORCELAIN SOCKETS AND CFL BULB.
5. RETAIN EXISTING MAIN PANEL, MODIFY ONLY MIN IF REQUIRED.
6. SWITCHES AND RECEPTACLES: DESIGN SHALL BE "DECORA" BY LEVITON, OR APPROVED EQUAL. ALL FACE PLATES SHALL BE MATCHING PLASTIC. ALL DEVISES TO BE WHITE.
7. FOR OWNER'S APPROVAL, BEFORE WORK BEGINS, SUBMIT CATALOG CUTS FOR ALL FIXTURES, APPLIANCES, DEVISES, SWITCHES, ETC.
8. MOUNTING HEIGHTS: FOR NEW WORK USE RECOMMENDATIONS IN THE "ADA" GUIDELINES AS FOLLOWS: CENTERLINE OF RECEPTACLES AT 24" A.F.F., LIGHT SWITCHES CENTERLINE AT 48" A.F.F.
9. DRAWINGS SHOW ELECTRICAL NOTES, DEVISE LOCATIONS, AND CONTROL SCHEMATICS. THE ELECTRICIAN SHALL DO ALL CIRCUIT & LOAD DISTRIBUTION DESIGN.
10. DESIGN CIRCUITS SUCH THAT THERE IS ONE (1) BREAKER PER ROOM FOR POWER, AND ONE (1) BREAKER PER ROOM FOR LIGHTING. MAJOR EQUIPMENT, AIR CONDITIONERS, TO HAVE DEDICATED CIRCUITS.
11. THE FUTURE IS SOLAR: SEE NOTES ABOUT PREPARATION FOR FUTURE PHOTOVOLTAIC COLLECTORS ON SOUTH ROOFS. ROUGH IN EMPTY CONDUIT AS REQUIRED.
12. COORDINATE WITH THE HVAC CONTRACTOR AND PLUMBING CONTRACTOR TO PROVIDE SERVICE TO ALL EQUIPMENT AS REQUIRED.
13. ALL HOLES DRILLED INTO TOP OR BOTTOM WALL PLATES, INTERIOR AND EXTERIOR, SHALL BE SEALED, USE EXPANDABLE FOAM TO PREVENT VERTICAL PASSAGE OF AIR.

SMOKE DETECTOR SYSTEM:

1. LOCATIONS SHOWN ARE THE GENERALLY PERCEIVED MINIMUM TO SECURE A BUILDING PERMIT. MANY MUNICIPALITIES HAVE ADDED SPECIAL LOCAL AMENDMENTS NOT PUBLISHED IN THE NATIONAL CODES. THEREFORE, THE LOCAL PLAN REVIEWER MAY REQUIRE ADDITIONAL LOCATIONS AND REQUIREMENTS.
2. INTERNATIONAL RESIDENTIAL CODE SECTION R313 REQUIRED LOCATIONS: IN EACH SLEEPING ROOM AND OUTSIDE EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, PLUS ONE ON EACH ADDITIONAL STORY.
3. SYSTEM SPECIFICATIONS: DETECTORS MUST BE HARDWIRED TO A CONSTANT POWER SOURCE AND MUST BE ELECTRONICALLY INTERCONNECTED, SO THAT IF ANY DETECTOR SENDS AN ALARM SIGNAL, THEN ALL DETECTORS SOUND THE ALARM. DETECTORS SHALL HAVE AN EMERGENCY BACKUP POWER SOURCE, GENERALLY BATTERIES.
4. COORDINATE THE INTEGRATION AND INSTALLATION WITH THE OWNER'S SECURITY SYSTEM. PRODUCTS SHALL BE PART OF AN APPROVED LOW VOLTAGE SYSTEM.

REV. #	REVISION DESCRIPTION	DATE
	START UP	JULY 19, 2010
	FOR PERMIT SUBMISSION	OCT. 15, 2010

PLANS NOT VALID FOR PERMITS UNLESS SIGNED IN "RED" & IMPRESSED w/ SEAL

Eric C. Van Reed, Architect
New Jersey Architect 09081
Creative Design Associates, Inc.
ARCHITECTURE INTERIORS SITE & SPACE PLANNING
350 Callowhill Road
Chalfont, PA 18914-1521
215-672-1155
www.ArchitectVision.com

CONTRACTOR
AS SELECTED BY OWNER

NOTES & SPECIFICATIONS

215 East Monument Avenue
UPPER ADDITION
Borough of Hatboro, Montgomery Co., PA

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