CONTRACTOR INSURANCES:

 INSURANCE: BEFORE INITIATING ANY WORK AT SITE, CONTRACTOR(S) SHALL PROVIDE PROOF OF INSURANCE, INCLUDING COMMERCIAL GENERAL LIABILITY, WORKMEN'S COMPENSATION AND AUTOMOBILE LIABILITY. MINIMUM LIMITS SHALL BE AS FOLLOWS:

COMMERCIAL GENERAL LIABILITY	GENERAL AGGREGATE	\$ 1,000,000.00
	PRODUCTS - COMP / OP AGGREGATE	\$ 1,000,000.00
	EACH OCCURRENCE	\$ 1,000,000. ⁰⁰
	FIRE DAMAGE (ANY ONE FIRE)	\$ 100,00. ⁰⁰
	MED. EXPENSE (ANY ONE PERSON)	\$ 5,000. ⁰⁰
AUTOMOBILE LIABILITY	SINGLE COMBINED LIMIT	\$ 250,000. ⁰⁰
WORKMAN'S COMPENSATION		STATUTORY
		LIMITS
GENERAL "UMBRELLA"		\$ 2,000,000.00

2. OWNER AND ARCHITECT SHALL BE NAMED AS "ADDITIONAL NAMED INSURED" ON CONTRACTOR'S LIABILITY POLICIES. OWNER AND ARCHITECT SHALL BE GIVEN 30 DAYS NOTICE BEFORE ANY POLICIES EXPIRE, AND CERTIFICATES EVIDENCING SUCH COVERAGE AND INCLUSION OF THE OWNER AND ARCHITECT SHALL BE PROVIDED TO BOTH.

STRENITTAL CORES

- 1. CODES: ALL WORK SHALL COMPLY WITH THE CONTROLLING REGULATORY CODES. THESE DOCUMENTS (DRAWINGS) SHALL INCLUDE BY REFERENCE ALL STATE, MUNICIPAL AND OTHER
- REGULATORY CODES.

 2. CONTRACTOR(S) SHALL COMMUNICATE WITH THE MUNICIPALITY TO VERIFY REQUIRED TYPES AND FREQUENCY OF INSPECTIONS, AND SHALL SECURE ALL PERMITS, LICENSES, APPROVALS,
- AND INSPECTIONS REQUIRED DURING THE PROGRESS OF THE WORK.

 3. ALL CONTRACTORS AND TRADESMEN ARE EXPECTED TO BE CURRENT WITH THESE CODE AND HAVE COPIES ON SITE FOR REFERENCE AS REQUIRED. TO OBTAIN: INTERNATIONAL CODE COUNCIL, PUBLICATIONS, 4051 WEST FLOSSMOOR ROAD, COUNTRY CLUB HILLS, IL 60478-5795,
- 4. FOR RESIDENTIAL WORK, THE CODES WHICH APPLY ARE:
- INTERNATIONAL RESIDENTIAL CODE, 2009
- ICC ELECTRICAL CODE, 2009 (UTILIZES NATIONAL ELECTRIC CODE STANDARDS)

FIELD OFFICE AND SITE DOCUMENTS

- 1. WITH INITIATION OF WORK ON SITE, THE CONTRACTOR SHALL MAINTAIN A FIELD OFFICE.
 THIS MAY BE AS SIMPLE AS A LOCK BOX IN THE BEGINNING, ASAP, THIS SHALL BE AN
 ENCLOSED SECURE BOOM
- 2. WHENEVER THE WORK IS IN PROGRESS THE FIELD OFFICE SHALL BE ACCESSIBLE TO THE OWNER, ARCHITECT, AND TRADESMEN ENGAGED IN THE WORK. THE SITE OFFICE SHALL CONTAIN THE MOST UP TO DATE DOCUMENTS, SUBMITTALS, MATERIAL SELECTIONS, AND SHOP DRAWINGS. THE PROJECT DOCUMENTS SHALL BE ORGANIZED, COMPLETE, AND CLEAN.
- 3. AS-BUILT DRAWINGS: THE CONTRACTOR SHALL MAINTAIN ONE RECORD SET OF DOCUMENTS WITH ALL AS-BUILT INFORMATION AND CHANGES, MARKED UP IN RED, WHICH SHOW ANY DIFFERENCES FROM THE ORIGINAL DOCUMENTS. AT COMPLETION OF THE WORK, CONTRACTOR SHALL DUPLICATE THE "AS-BUILT" SET AND DISTRIBUTE: 1 SET TO OWNER, 1 SET TO MUNICIPALITY, 1 SET TO ARCHITECT, 1 SET TO THE GC'S FILE.

GENERAL NOTES:

- PROJECT GUARANTEE: THE CONTRACTOR(S) AND ALL SUBCONTRACTORS UNDER HIS RESPONSIBILITY SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL FOR A MINIMUM OF ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION. WITHIN THE ONE-YEAR GUARANTEE PERIOD, THE CONTRACTOR SHALL REMAIN RESPONSIBLE TO THE OWNER FOR PROMPT AND DILIGENT REPAIR OR REPLACEMENT OF FAILED MATERIALS AND OR WORKMANSHIP. COMPONENTS, EQUIPMENT AND INSTALLATIONS THAT ARE PROTECTED WITH EXTENDED MANUFACTURER'S WARRANTIES SHALL BE IDENTIFIED TO THE OWNER. THE OWNER SHALL RECEIVE RECEIPTS AND VALIDATED WARRANTEE REGISTRATIONS DEMONSTRATING THESE EXTENDED PROTECTIONS. TITLE TO ALL EQUIPMENT AND COMPONENTS WITH WARRANTIES SHALL BE MADE IN THE OWNER'S NAME.
- 2. QUALITY OF WORKMANSHIP AND MATERIALS: THE CONTRACTOR(S) AGREES HE SHALL ENGAGE WORKMEN EXPERT IN THEIR RESPECTIVE TRADES WHOSE WORK SHALL COMPLY WITH THE HIGHEST STANDARDS OF THEIR RESPECTIVE TRADE ASSOCIATIONS. IT IS UNDERSTOOD THE ARCHITECT HAS NOT DETAILED OR SPECIFIED ALL ASPECTS OF THE WORK WHICH ARE A "COMMONLY UNDERSTOOD CONSTRUCTION PRACTICE". IF INTERPRETATIONS OR CLARIFICATIONS ARE REQUIRED, THE CONTRACTOR(S) SHALL SECURE SUCH INFORMATION FROM THE ARCHITECT OR THE OWNER BEFORE PROCEEDING.
- 3. <u>CONSTRUCTION DEBRIS</u>: ALL CONSTRUCTION MATERIAL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE GC. DAILY CLEANUP SHALL BE IN CONTAINERS OR DUMPSTERS MAINTAINED BY THE GC. DO NOT BURY OR BURN ANY MATERIAL AT THE SITE.
- 4. <u>SITE SAFETY</u>: THE GENERAL CONTRACTOR GAINS COMPENSATION FOR ORGANIZING AND EXECUTING THE WORK AT THE SITE. THUS, THE GC IS RESPONSIBLE FOR ALL SITE SAFETY PRECAUTIONS AND ALL SITE SUPERVISION.

PERMITS AND MUNICIPAL APPROVALS:

- 4. THE GENERAL CONTRACTOR WILL PREPARE AND APPLY FOR ALL REQUIRED CONSTRUCTION PERMITS. HE SHALL START THE PERMIT PROCESS AND MAINTAIN THE RESPONSIBILITY FOR COORDINATION & INSPECTIONS THROUGHOUT THE PROJECT.
- 5. PERMITTING IS A MULTI-PART PROCESS, WITH SECTIONS RELATING TO MAJOR TRADES. BECAUSE ALL PARTS ARE INTER-RELATED, SOME MUNICIPALITIES REQUIRE ALL PARTS BE SUBMITTED AT THE SAME TIME. THIS REQUIRES PLANNING AND COORDINATION BY THE GENERAL CONTRACTOR, AND MAY INCLUDE SEPARATE REVIEWERS (THIRD PARTY) FOR DIFFERENT PARTS, VARIED REQUIREMENTS, AND FORMS.
- 6. THE ARCHITECT'S DRAWINGS DESCRIBE THE: A) STRUCTURAL DESIGN; B) THE EXTERIOR ENVELOPE; C) AND ENERGY CONSERVATION REQUIREMENTS. IN GENERAL, THE ARCHITECT IS DESCRIBING THE OVERALL BUILDING SHELL, AND LOCATING THE MAJOR FIXTURES AND EQUIPMENT. THE ARCHITECT MAY, OR MAY NOT, INCLUDE PERFORMANCE SPECIFICATIONS FOR OTHER WORK.
- 7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL OTHER TRADE INPUT REQUIRED TO COMPLETE THE PERMIT PROCESS. THE ARCHITECT IS NOT PROVIDING DESIGN AND DOCUMENTATION OR INSTALLATION DETAILS FOR PLUMBING, SPRINKLER, HVAC, ELECTRICAL, OR SECURITY SYSTEMS WORK. THE GC MUST ENGAGE QUALITY SUBCONTRACTORS WITH THE EXPERTISE AND CAPABILITY TO PROVIDE ANY DOCUMENTATION (SHOP DRAWINGS, EQUIPMENT SIZING, PLUMBING RISER DIAGRAMS, DESIGN LAYOUTS, HEAT GAIN & HEAT LOSS CALCULATIONS, ELECTRICAL LOAD CALCULATIONS, CATALOG CUT SHEETS, EQUIPMENT ENERGY RATINGS, ETC.) NECESSARY TO SUPPORT THESE PERMIT SECTIONS.

BEFORE YOU DIG: CALL THE PA "ONE CALL SYSTEM"

1. BEFORE YOU DIG AT THE SITE IT IS MANDATORY TO CALL THE PENNSYLVANIA "ONE CALL SYSTEM." 1-800-242-1776. ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, SHOULD MAKE THEIR OWN NOTIFICATION. ONLY THE "CALLER" IS PROTECTED BY THE SYSTEM.

DIMENSIONS: DO NOT SCALE DRAWINGS:

1. ALL DIMENSIONS ARE GIVEN TO "FACE OF MASONRY" OR "FACE OF STUD". CHECK ALL DIMENSIONS BEFORE PROCEEDING. FOR "CLEAR" OPENINGS BETWEEN FINISHES, SUBTRACT FINISH THICKNESS FROM DIMENSIONS GIVEN. LOOK FOR THE CORRECT DIMENSIONAL INFORMATION, OR SEEK CLARIFICATION FROM THE ARCHITECT.

LEAD PAINT RULES APPLY

1. ALL CONTRACTOR SUPERVISORS SHALL BE TRAINED AND CERTIFIED AS CURRENT WITH ALL LEAD PAINT ABATEMENT & PROTECTIONS. PROVIDE OWNER WITH COMPLIANCE CERTIFICATES.
FIELD CHANGES:

1. CONTRACTORS OR THE ARCHITECT DO NOT HAVE AUTHORITY TO MAKE IMPROMPTU CHANGES IN THE FIELD. WITHOUT EXCEPTION, ALL PROPOSED CHANGES OR SUBSTITUTIONS, SHALL BE SUBMITTED IN WRITING TO THE OWNER, WITH SUPPORT MATERIALS, FOR AUTHORIZATION.

2. WHEN CHANGES AFFECT THE STRUCTURAL OR BUILDING SHELL, THOSE CHANGES SHALL BE DIRECTED TO THE ARCHITECT PROMPTLY IN WRITING FOR REVIEW AND APPROVAL.

CONCRETE WORK

- 1. CODES AND STANDARDS: ACI-318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI-301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI-347, "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK; ACI-304, "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"; READY MIX CONCRETE SHALL BE IN ACCORDANCE WITH ASTM C-94.
- 2. COMPRESSIVE STRENGTH OF CONCRETE 3,000 PSI AT 28 DAYS. MAX. SLUMP OF ALL CONC. SHALL BE 4". IN LIEU OF TESTING, CONTRACTOR SHALL PROVIDE CERTIFIED MIX RECEIPTS, DELIVERED TO OWNER.
- 3. WHEN PLACING INTERIOR CONCRETE SLABS, DO NOT PUNCTURE THE VAPOR BARRIER. BE CAREFUL WITH CURING BECAUSE VIRTUALLY NO WATER WILL BE LOST TO THE SUBGRADE.
- 4. USE AIR-ENTRAINING ADMIXTURE IN ALL CONCRETE THAT IS EXPOSED TO FREEZING AND
- THAWING, PROVIDING NOT LESS THAN 4% NOR MORE THAN 6% ENTRAINED AIR.

 5. NO CONCRETE SLABS OR FOOTINGS SHALL BE PLACED UNTIL SUBGRADE PREPARATION IS
- 6. FINISHES: EXPOSED TO VIEW VERTICAL SURFACES SHALL HAVE A RUBBED FINISH IN ACCORDANCE WITH ACI-301. FLOOR SLABS SHALL HAVE A STEEL TROWEL FINISH. EXTERIOR WALKWAYS TO HAVE BROOM FINISH.

BELOW SLAB VAPOR BARRIERS

INSPECTED AND APPROVED BY THE MUNICIPALITY.

- 1. BELOW ALL INTERIOR GROUND SUPPORTED CONCRETE SLABS, INCLUDING GARAGES, SHALL BE INSTALLED A VAPOR BARRIER, RADON / METHANE BARRIER. THE LOWER THE WATER VAPOR PERMEANCE RATING OF THE BARRIER, THE MORE RESISTIVE IT IS TO RADON AND METHANE.
- 2. ALL VAPOR BARRIERS SHALL BE PLACED ON THE PREPARED SUBGRADE, <u>BELOW</u> ANY INSULATION BOARDS. THE V.B. SHALL BE EXTENDED UP EDGES TO BE VISIBLE ABOVE THE SLAB, REMOVE EXCESS AFTER SLAB HAS CURED. FOR THE V.B. TO PERFORM AS A GOOD RADON GAS BARRIER ALL PENETRATIONS SHALL BE SEALED AND ALL JOINTS LAP SPLICED A MINIMUM OF 6-INCHES.
- AND TAPED PER MFG. RECOMMENDATIONS.

 3. PRODUCT SHALL BE A HIGH QUALITY POLYETHYLENE PLASTIC, AT LEAST 8-10 MILS THICK. THE MINIMUM PERM RATING SHALL BE "CLASS 1" VAPOR RETARDER, PERM RATING OF 0.10 OR LESS, CONFORMING TO ASTM E96. MEMBRANE SHALL MEET ASTM E-1745.

EMERGENCY MEANS OF EGRESS: SPECIAL RESIDENTIAL

- 1. ALL HABITABLE BASEMENTS IN EXCESS OF 200 SQ.FT., AND ALL SLEEPING ROOMS SHALL HAVE A MINIMUM OF ONE ALTERNATE OPENABLE EMERGENCY ESCAPE AND RESCUE OPENING, GENERALLY AN "EGRESS WINDOW." EACH OPENING SHALL: A) HAVE A MINIMUM NET CLEAR OPEN AREA OF 5.7 SQUARE FEET; B) THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES; C) THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES; D) THE SILL HEIGHT OF THE OPENING SHALL NOT BE MORE THAN 44 INCHES ABOVE THE FLOOR; E) WHEN THE INTERIOR WINDOW SILL IS MORE THAN 72 INCHES ABOVE GRADE, THEN THE INTERIOR SILL HEIGHT SHALL NOT BE LESS THAN 24 INCHES ABOVE FINISHED FLOOR; F) THE OPERATION OF THE EMERGENCY OPENING SHALL NOT REQUIRE ANY SPECIAL HARDWARE OR KEY.
- 2. WHERE A WINDOW (INCLUDING ACCESSORIES SUCH AS EGRESS AREAWAY) PROVIDES THIS EMERGENCY OPENING, PROVIDE THE MANUFACTURER'S CATALOG CUTS VERIFYING THIS REQUIREMENT IS MET.

TEMPERED SAFETY GLAZING:

- I. TEMPERED GLASS MUST BE IDENTIFIED ON EACH PIECE, BY MEANS OF NON-REMOVABLE ETCHING OR EQUAL.
 TEMPERED GLASS IS REQUIRED IN THE FOLLOWING "HAZARDOUS" LOCATIONS:
- 2 ANY GLASS THI ANY DOOR
- ANY GLASS IN ANY DOOR.
 ANY GLASS, FIXED OR OPERATING, ADJACENT TO A DOOR, WHERE THE NEAREST VERTICAL EDGE IS WITHIN A
 24-INCH ARC OF THE DOOR IN A CLOSED POSITION, AND WHOSE BOTTOM EDGE IS LESS THAN 60-INCHES FROM
- 4. ANY LARGE SINGLE GLASS PANE IN EXCESS OF 9 SQ.FT. (SEE CODE SECTION FOR DETAIL)
- 5. WINDOWS WITHIN 60-INCHES OF BATH TUBS, SHOWERS, OR SIMILAR.
- 6. ANY GLASS LESS THAN 36-INCHES FROM RAMPS, LANDINGS, OR STAIRWAYS. ANY GLASS WITHIN RAMPS, LANDINGS, OR STAIRWAYS IF LESS THAN 60-INCHES ABOVE THE WALKING SURFACE.
- 7. SITE TESTING: TEMPERING GLASS RESULTS IN ONE SIDE BEING SOFTENED, AND LESS RESISTANT TO SCRATCHING, IN FACT IT CAN SCRATCH EASILY. WHEN TEMPERED SHEETS OF GLASS ARE BUILT INTO INSULATED GLASS UNITS, THE INTENT IS FOR THE "SOFT SIDE" TO BE THE INSIDE OR NON-ACCESSIBLE SIDE. CHECK UNITS AT SITE DIRECTLY AFTER DELIVERY.

GYPSUM BOARD SYSTEMS:

- 1. GYPSUM BOARD SHALL BE INSTALLED TO THE HIGHEST STANDARDS OF THE TRADE. INSTALL LONGEST BOARDS POSSIBLE, LENGTHWISE, TO MINIMIZE JOINING.
- 2. NOTE: CONTROL JOINT DETAIL TO BE INSTALLED WHERE SLOPING BOARDS MEET HORIZONTAL CEILING SURFACES. INSTALL METAL CONTROL JOINT STRAIGHT AND TRUE, INSTALL BOARDS, THEN CAULK JOINT BEFORE PAINTING.
- 3. SPACKLING SHALL BE A THREE COAT SYSTEM. SAND AND PAINT WITH WALL PRIMER AFTER
- FIRST COAT. SAND AFTER SECOND COAT, DAMP SPONGE AFTER LAST COAT.

 4. WORK TO BE INSTALLED WITH SCREWS, NO NAILS.
- 5. AT SKYLITE AND VAULTED CEILING, MAKE WORK TO VERY HIGH STANDARDS, SKYLIGHTING
- WILL REVEAL ALL IMPERFECTIONS.

 6. NO PLASTIC "J" CHANNEL AT WINDOW HEADS OR JAMBS.
- 7. IF POLY VAPOR BARRIERS ARE USED. GYP.BD. WILL NOT BE ABLE TO BE GLUED AT PERIMETER WALLS, USE ADHESIVES ON ALL INTERIOR PARTITIONS.

PAINTING SYSTEMS

SEE FINISH SCHEDULE FOR COLORS IF AVAILABLE. CONFIRM ALL COLORS AND PRODUCT SELECTIONS WITH OWNER BEFORE PROCEEDING. PRIMERS MAY BE DELETED IF FACTORY PRIMED, TOUCH UP AS REQUIRED. ALL PRODUCT SHALL BE PREMIUM GRADE FROM A NATIONALLY RECOGNIZED MANUFACTURER.

CAULKING

- 1. PERMITTED MATERIALS: ALL EXTERIOR CAULKING SHALL BE TWO-PART POLYURETHANE COMPONENT BASED. NO SILICONE CAULKS ARE PERMITTED UNLESS THE APPLICATION IS FOR A "GLASS TO GLASS" ADHESIVE. ALL CAULKS USED IN PREPARATION FOR INTERIOR PAINTING SHALL BE POLYURETHANE OR LATEX, WITH NO SILICONES.
- 2. WHERE TO APPLY: CAULKING SHALL BE PROVIDED:
- A. BETWEEN ALL EXTERIOR DISSIMILAR MATERIALS WHERE A MECHANICAL CONNECTION DOES NOT MAKE A WATERTIGHT SEAL.
- B. AROUND THE PERIMETERS OF ALL DOORS AND WINDOWS BETWEEN SURROUNDING FINISH SURFACES.

SEISMIC AND WIND DESIGN COMPONENTS: RESIDENTIAL

- 1. INTERNATIONAL RESIDENTIAL CODE CLASSIFIES THE DELAWARE VALLEY AS SEISMIC DESIGN CATEGORY "C." NOTE: DETACHED ONE AND TWO FAMILY DWELLINGS ARE EXEMPT FROM THE SEISMIC REQUIREMENTS OF THIS CODE.
- 2. INTERNATIONAL RESIDENTIAL CODE CLASSIFIES BUCKS AND MONTGOMERY COUNTIES AS HAVING WIND SPEEDS OF 90 MPH. THE LOWER (MOST EASTERLY) PART OF BUCKS COUNTY IS RATED WITH WIND SPEEDS OF 100 MPH.

RESIDENCE DESIGN LOADS THE PROJECT HAS BEEN DESIGNED WITH THESE LOADS

	ROOFS	FLOORS	FLOORS	ATTIC FLOOR	BALCONIES /DECKS
DESIGN LOADS	WOOD OR ASPHALT SHINGLES	WOOD, CARPET OR VCT	CERAMIC, SLATE OR STONE	UNFINISHED SHEATHING	SPACED DECK BD'S
DEAD LOAD (PSF)	15	15	25	15	10
LIVE LOAD (PSF)	30	40	40	20	60
TOTAL (PSF)	45	55	65	35	70

BELOW SLAB RIGID INSULATION BOARD

1. INSULATION BOARD PLACED BELOW INTERIOR CONCRETE SLABS SHALL BE DOW "BLUEBOARD" STYROFOAM, OR EQ., A MINIMUM OF 2-INCHES THICK, R-10, TIGHTLY FITTED, T&G.

CONCRETE SEALER (IF DESIRED)

- 1. CONCRETE SEALER FOR ALL HORIZONTAL INTERIOR AND EXTERIOR SLABS WHERE INDICATED SHALL BE "SEALTIGHT INTEX" BY W.R. MEADOWS, INC., P.O. BOX 543, ELGIN, ILLINOIS 60121, (312)683-4500
- 2. INTEX IS A NON-YELLOWING WATER BASE ACRYLIC CURING AND SEALING COMPOUND.
 APPLICATION SHALL BE TWO COATS, PER MANUFACTURES RECOMMENDATIONS WITH MINIMUM
 OF 24 HOURS BETWEEN COATS. APPLICATOR SHALL PROVIDE THE ARCHITECT WITH RECEIPT
 SHOWING THE QUANTITY OF MATERIAL SUPPLIED TO THE SITE.

FOOTING PLACEMENT FOR FOUNDATION WALLS

- . BOTTOMS OF ALL FOOTINGS (OR EARTH BORN WALLS) SHALL BEAR ON UNDISTURBED SOILS CAPABLE OF SUPPORTING THE ASSUMED DESIGN LOAD OF 3,000 PSF. THE CONTRACTOR SHALL EXAMINE AND VERIFY THE SOIL CONDITIONS BEFORE ALLOWING CONCRETE FOOTINGS AND FOUNDATIONS TO BE INSTALLED. IF SOILS EXHIBIT A LESSER VALUE, NOTIFY THE ARCHITECT IMMEDIATELY, AS THE FOUNDATION DESIGN MUST BE RE-EVALUATED AND POSSIBLY REDESIGNED.
- 2. THE SOIL IN THE TRENCHES FOR ALL FOOTINGS SHALL BE INSPECTED BY A MUNICIPAL
- OFFICIAL BEFORE ANY FOOTINGS ARE PLACED. PROVIDE INSPECTION CERTIFICATE.

 3. THE BOTTOM ELEVATION SHOWN FOR ALL FOOTINGS IS THE MINIMUM, AND SHALL BE NO LESS THAN 36 INCHES BELOW FINAL EXTERIOR GRADE. SOIL CONDITIONS MAY REQUIRE
- 4. ALL FOOTING EXCAVATIONS FOR FOUNDATION WALLS ENCLOSING CRAWLSPACES OR OTHER OCCUPIED SPACE SHALL BE MADE WIDE ENOUGH TO ALLOW FOR THE PLACEMENT OF FOUNDATION DRAINAGE PIPING AND DRAINAGE STONE BELOW THE TOP OF THE FOOTING AND THUS MUST BE "FORMED" AS A MINIMUM ON THE EXTERIOR SIDE. IF ALLOWED BY THE MUNICIPALITY, FOOTING FOR "SLABS ON GRADE" MAY BE PLACED IN TRENCH FORMED FOOTINGS.
- 5. FOOTINGS AND SLABS SHALL NOT BE PLACED ON FROZEN SOILS
- 6. FOOTING CONCRETE SHALL BE MINIMUM 3,000 PSI DESIGN MIX @ 28 DAYS. IN LIEU OF TESTING, CONCRETE SUPPLIER SHALL PROVIDE MIX CERTIFICATE TO CONTRACTOR FOR DELIVERY TO OWNER.
- 7. WHERE PIPES PASS THROUGH A FOOTING, THE FOOTING SHALL BE MINIMUM OF 12 INCHES THICK SOLID BELOW, STEP AS REQUIRED, INSTALL SLEEVE MINIMUM OF PIPE DIAMETER PLUS 2 INCHES.
- 8. FOOTING TO FOUNDATION WALL ANCHORAGE: INSTALL HOOKS FORMED FROM #4 DEFORMED REINFORCING BARS. VERTICAL LEG SHALL BE 20 INCHES LONG, AND HOOK SHALL BE 3-INCHES. BOTTOM OR HOOK SHALL BE 3 INCHES FROM BOTTOM OF FOOTING. INSTALL NOT MORE THAN 12 INCHES FROM ANY CORNER (BOTH SIDES) AND THEN NOT MORE THAN 48 INCHES ON CENTER FOR ENTIRE LENGTH OF WALLS. ALIGN HOOKS TO BE CENTERED IN FOUNDATION THICKNESS AND IN BLOCK CORES IF CMU WALLS.

INITE MASONIDA

- 1. CONCRETE MASONRY UNIT (CMU) CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6-88)" PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE.
- 2. HOLLOW LOAD BEARING CMU SHALL CONFORM TO ASTM C90, TYPE I, "NORMAL WEIGHT".
 MINIMUM NET TENSILE STRENGTH OF 1250 PSI; 0.06% MAXIMUM. LINEAR SHRINKAGE FROM
 SATURATED TO OVEN DRY; CURE 28 DAYS. PROVIDE MANUFACTURER'S CERTIFICATE OF
 COMPLIANCE FOR UNITS PROVIDED TO SITE.
- 3. MORTAR TO BE TYPE S, CONFORMING TO ASTM C270. MORTAR SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
- 4. INSTALL 9 GA. DUROWALL TRUSS TYPE JOINT REINFORCEMENT @ 16" O.C. VERTICALLY (EVERY OTHER COURSE), ALL CMU WALLS.
- 5. GROUT FOR CELLS SHALL CONFORM TO ASTM C476, 3000 PSI COMPRESSIVE STRENGTH. GROUT CELLS SOLID AT REINFORCING AND AS NOTED IN MAX. 48-INCH LIFTS.
- 6. CMU WALLS SHALL BE FILLED SOLID TOP TO BOTTOM, FOR ENTIRE LENGTHS, WITH CONCRETE, PUMP MIX. MAX. 48-INCH LIFTS.
- 7. WHERE PIPES OR WIRE PASS THROUGH A FOUNDATION WALL, INSTALL SLEEVE MINIMUM OF PIPE OR WIRE DIAMETER PLUS 2 INCHES.
- 8. REINFORCING BARS SHALL BE "DEFORMED" CONFORMING TO ASTM A615; GRADE-40 FOR #3
 BARS, GRADE-60 FOR #4 AND LARGER BARS. "LAP JOIN" ALL REINFORCING BARS 30 BAR
 DIAMETERS MINIMUM. CORNER BARS FOR CONTINUOUS REINFORCING SHALL BE LAPPED
 MINIMUM 30 BAR DIA. EACH WAY.
- 9. DAMPPROOFING (WHERE SHOWN): THE SUBSTRATE SHALL BE MADE SMOOTH AND ACCEPTABLE FOR THE APPLICATION. GENERALLY IF CMU (CONC. BLOCK) APPLY A ½ THICK CEMENT PARGING. THEN APPLY TWO COATS OF AN ASPHALTIC COATING. COATS SHALL BE APPLIED FROM OPPOSITE DIRECTIONS TO ENSURE THE FILLING OF THE SUBSTRATE. FOLLOW MANUFACTURES DIRECTIONS. PRODUCT W.R.MEADOWS "SEALMASTIC EMULSION", EACH COAT 1/16" WET FILM THICKNESS.
- 10. WATERPROOFING (WHERE SHOWN): ALL FOUNDATION WALLS ENCLOSING CRAWLSPACES OR OTHER OCCUPIED SPACE SHALL BE WATERPROOFED (NOT DAMPPROOFED). PREPARE WALL SURFACE AS REQUIRED, INSTALL ASTM # D449 "TYPE A", ADHESIVE, SELF-HEALING POLYMER, MODIFIED ASPHALT MEMBRANE, MINIMUM 40-MIL. THICK, OR APPROVED EQUAL. MEMBRANE SHALL EXTEND ONTO THE FOOTING AND EXTEND UP TO WITHIN 12 INCHES OF FINAL GRADE. WATERPROOFING MEMBRANE SYSTEM SHALL BE PROTECTED, TOP TO BOTTOM, DURING BACKFILLING. CONTRACTOR SHALL PROVIDE CATALOG CUTS FOR ALL PARTS OF THE SYSTEM FOR APPROVAL REFORE PROCEEDING.
- 11. <u>DO NOT BACKFILL</u> AGAINST FOUNDATION WALLS WITHOUT APPROPRIATE BRACING AND SHORING, OR UNTIL ALL FRAMING IS COMPLETE, INCLUDING THE ROOF.
- 12. COMPACT BACKFILL BEHIND FOUNDATION WALLS TO MINIMUM OF 90% DENSITY, IN APPROPRIATE LIFTS. ALL BACKFILL MATERIAL SHALL BE FREE OF ORGANIC OR OTHER DETRIMENTAL MATERIAL.
- 13. GRADE AWAY FROM BUILDING, AT TOP OF BACKFILL, WITH MIN. INITIAL INSTALLED SLOPE OF 1" PER FT.
- 14. DO NOT APPLY CONCENTRATED LOADS FOR AT LEAST 3 DAYS AFTER BUILDING MASONRY WALLS. DO NOT APPLY UNIFORM FLOOR OR ROOF LOADS FOR AT LEAST 12 HOURS AFTER BUILDING MASONRY WALLS.

FOUNDATION DRAINAGE SYSTEM

- 1. SEE DRAWINGS FOR LOCATIONS, GENERALLY AT THE BOTTOM OF ALL CRAWLSPACE WALLS IF HIGH WATER TABLES.
- 2. INSTALL 4" DIAMETER PERFORATED PIPE, ABS OR LIGHT WEIGHT PVC. PERFORATIONS SHALL FACE DOWN. PIPE SHALL BE INSTALLED IN MIDDLE OF A 12" BY 12" CLEAN (1/2") STONE FILLED LINEAR TRENCH, TRENCH AND PIPE SHALL BE LEVEL. TRENCH SHALL FIRST BE LINED WITH FILTER FABRIC TO PREVENT CLOGGING OF STONE. THE TOP OF THE PIPE SHALL BE BELOW THE TOP OF THE WALL FOOTING. PIPE SHALL BE CONTINUOUS.
- 3. PIPE SHALL DRAIN OR DISCHARGE TO DAYLIGHT (MEANING RUN LEVEL TO WHERE IT NATURALLY COMES OUT OF GRADE) OR TO A SUMP CROCK WHERE IT CAN BE PUMPED AND DISCHARGED TO EXTERIOR GRADE. IT IS NOT LEGAL TO DISCHARGE SUMP PUMP WATER INTO MUNICIPAL SANITARY SYSTEMS. IT IS BEST IF GRADE ALLOWS "DAYLIGHT" DISCHARGE. IF DAYLIGHT DISCHARGE, THEN MAKE SURE END STRUCTURE IS STRONG ENOUGH TO RESIST DAMAGE FROM NORMAL EXPOSURE OR LANDSCAPING ACTIVITY.

WOOD FRAMING "BASIC"

HOT DIPPED GALVANIZED.

- 1. STANDARDS: ALL ROUGH CARPENTRY TO COMPLY WITH "MANUAL OF HOUSE FRAMING" BY NATIONAL FOREST PRODUCTS ASSOC., THE 2006 ICC RESIDENTIAL CODE, AND WITH RECOMMENDATIONS OF AMERICAN PLYWOOD ASSOC.
- 2. STRUCTURAL LUMBER (WALL STUDS, FLOOR CEILING JOISTS) OF NOMINAL 2" THICKNESS
- SHALL BE KILN DRIED (MAX. 19% MOISTURE CONTENT) #2 HEM-FIR WITH MIN. FB 1,200.

 3. ALL WOOD, IN PARTICULAR SILL PLATES, IN CONTACT WITH MASONRY SHALL BE PRESSURE TREATED, WITHOUT CHROMATED COPPER ARSENATE. ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD TO BE STAINLESS STEEL OR HEAVY HOT DIPPED GALVANIZED.
- THE JOINT BETWEEN MASONRY FOUNDATION WALL AND WALL SILL PLATES SHALL RECEIVE POLYPROPYLENE FOAM SILL PLATE INSULATION.
 PROVIDE TWO (2) FLOOR JOISTS DIRECTLY BELOW PARALLEL WALLS AND PARTITIONS ABOVE.

IF WALLS ABOVE ARE CHASES FOR PIPES OR DUCTS, PUT JOISTS EITHER SIDE AND INSTALL

- SOLID BLOCKING AT 16" O.C. MIN. ALSO, PROVIDE ONE (1) ADDITIONAL JOIST 8" INSIDE OF ROOMS ABOVE TO TAKE FURNITURE AND BOOKCASE LOADS AT ROOM PERIMETERS PARALLEL TO FLOOR FRAMING.

 6. ALL FLOORS AND ALL ATTIC ACCESSIBLE CEILING JOISTS SHALL BE "BRIDGED" WITH SOLID BLOCKING, FULL DEPTH, STAGGERED, AS FOLLOWS: SPANS > TO 14', PROVIDE 2 ROWS; SPANS >
- TO 06', PROVIDE 1 ROW. IF EXISTING DIAGONAL "BRIDGING" IS FOUND, THEN REPLACE WITH SOLID BLOCKING AS DESCRIBED ABOVE.

 7. IF EXISTING DIAGONAL "BRIDGING" IS FOUND, THEN REPLACE WITH SOLID BLOCKING AS
- DESCRIBED ABOVE.
- 8. ALL RAFTERS TO BE SOLIDLY BLOCKED ALONG THE TOP PLATE OF EXTERIOR WALLS.

 9. WIND BRACING HORIZONTAL: ALL WALLS SHALL BE COMPLETELY SHEATHED WITH APA RATED, 4-PLY, 1/2 INCH THICK PLYWOOD. STARTING FROM THE BOTTOM, THE FIRST ROW SHALL BE LAID HORIZONTALLY; THE SECOND ROW SHALL BE INSTALLED VERTICALLY TO COMPLETELY COVER THE FLOOR BAND JOIST. ROWS ABOVE SHALL ALTERNATE USING THE SAME SYSTEM. VERTICAL JOINTS SHALL BE FULLY SUPPORTED ON STUDS. NAILING, USING 8D COMMON NAILS, ALL AROUND SHEET PERIMETERS SHALL BE 4" O.C., INTERIOR FIELD NAILING SHALL BE
- 10. SUB-FLOOR DECKS: SHALL BE ADVANTECK, 3/4", TONGUE & GROOVED, COMPOSITE DECKING,.
 GLUE IN PLACE AND SCREW @ 6" O.C. ALONG ALL SHEET PERIMETERS AND 16" O.C. AT INTERIOR
 FIELD. ALL JOINTS SHALL BE FULLY SUPPORTED.

6" O.C. NOTE: NAILS IN THE PRESSURE TREATED SILL PLATE MUST BE STAINLESS STEEL OR

- 11. ROOF SHEATHING: SHALL BE EXTERIOR GRADE PLYWOOD, MIN. 5/8" THICK WITH RAFTER SPACING OF 24" O.C. AND MIN. 1/2" THICK WITH RAFTER SPACING OF 16" O.C. SEE NOTES ABOUT RADIANT BARRIERS. NAIL SAME AS WALL SHEATHING. PROVIDE TWO (2) SIMPSON STRONG-TIE "PSCL" SHEATHING CONTINUITY CLIPS IN EACH RAFTER BAY AT JOINTS BETWEEN SHEATHING.
- 12. LUAN UNDERLAYMENTS SHALL ALL BE CERTIFIED AS FABRICATED WITH EXTERIOR GRADE GLUE.

WOOD FRAMING & "CONTINUOUS LOAD PATH" ANCHORAGE

- 1. R301.1 THE CONSTRUCTION OF BUILDING AND STRUCTURES SHALL RESULT IN A SYSTEM THAT PROVIDES A COMPLETE LOAD PATH CAPABLE OF TRANSFERRING ALL LOADS FROM THEIR POINT OF ORIGIN THROUGH THE LOAD-RESISTING ELEMENTS TO THE FOUNDATION.
- 2. THE CONTINUOUS LOAD PATH ANCHORAGE REQUIREMENTS ARE THIS BUILDING CODE'S METHOD OF ACHIEVING A MINIMUM, FIELD OBSERVABLE, BUILDING FRAME "STIFFENING" AND "ANCHORAGE" SYSTEM. THE GOAL IS SAFER STRUCTURES, BETTER ABLE TO RESIST REASONABLE WIND AND SEISMIC ACTIVITY. THE BASIC CONCEPT USES A CONTINUOUS "LINE" OF BUILDING ELEMENTS, SUCH AS WALL STUDS, AND MECHANICAL ANCHORS LINKING THE ROOF RIDGES TO FOUNDATION WALL FOOTING. IMAGINE IT LIKE A BIG TENT, WITH "GUY WIRES" FROM THE ROOF RIDGE TO THE GROUND.
- 3. IT IS UNDERSTOOD FOR MOST BUILDINGS, A CONSISTENT RHYTHM OF COMPLETELY LINEAR LINES OF CONNECTIVITY CANNOT BE ACHIEVED BECAUSE THINGS GET IN THE WAY, SUCH AS DOORS AND WINDOWS. HOWEVER, THE CODE DESCRIBES AN "INTENT." IT IS THE CONTRACTOR'S RESPONSIBILITY TO INTERPRET AND MAKE EVERY REASONABLE EFFORT TO ACHIEVE THE GOAL BY USING THE COMPONENTS DESCRIBED, IN THE QUANTITIES PRESCRIBED AND IN THE LOCATIONS BEST SUITED.
- 4. WALL AND ROOF SHEATHINGS CREATE CONTINUOUS "DIAPHRAGMS," THESE HELP PREVENT BUILDING RACKING AND TWISTING. USE "APA" RATED MATERIALS. SHEATHING MATERIAL MUST HAVE GOOD QUALITIES TO ABSORB THE REQUIRED NAILING WITHOUT BREAKING, RESIST TEARING, AND HAVE GOOD NAIL RETENTION. INSTALL THE LARGEST POSSIBLE SIZE SHEETS. STAGGER JOINTS, SUPPORT ALL JOINTS, PROPERLY, AND NATL IT WELL.
- SHEETS. STAGGER JOINTS, SUPPORT ALL JOINTS PROPERLY, AND NAIL IT WELL.

 5. CORNERS ARE IMPORTANT: MAKE STRONG BUILDING BY MAKING STRONG CORNERS. INSTALL ANCHORS AS CLOSE AS POSSIBLE TO BOTH SIDES OF EACH CORNER.
- 6. THE SYSTEMS MECHANICAL PLATES AND CONNECTORS CAN BE INSTALLED ON EITHER THE INSIDE OR OUTSIDE FACE OF THE STUDS, HOWEVER IT MUST BE CONSISTENT THROUGHOUT. (THIS ARCHITECT BELIEVES IT IS BEST ON THE INSIDE FACE OF WOOD STUD WALLS. RAFTER TO TOP PLATE CONNECTIONS ARE MUCH EASIER. USE SAW-ALL TO SLOT PLYWOOD DECKING FOR THE FLOOR TO FLOOR STRAPS, COVER WITH THE INTERIOR GYPSUM BOARD)
- 7. IT ALL LINKS AS FOLLOWS: THE FOUNDATION FOOTING IS ANCHORED TO THE FOUNDATION WALL; THE WALL IS MADE "MONOLITHIC;" THE BOTTOM WALL PLATES ARE ANCHORED TO THE FOUNDATION WALL; THE BOTTOM PLATES ARE THEN ANCHORED TO THE WALL STUD FRAMING ABOVE; UPPER FLOOR WALLS ARE STRAPPED TO LOWER WALLS; THE TOP WALL PLATES ARE ANCHORED TO THE WALL STUD FRAMING BELOW; THE RAFTERS ARE ANCHORED TO THE TOP WALL PLATE; AND FINALLY THE RATERS ARE STRAPPED TOGETHER AT THE TOP OF THE ROOF.
- READ ALL NOTES ABOUT ANCHORAGE IN THE MASONRY SECTIONS, THERE IS A CONSISTENCY
 OF LAYOUT FOR BOTH MASONRY AND WOOD FRAMING, THE IMPLICATION IS, IT SHOULD ALL
 LINE UP.
- 9. FOR BUILDINGS WITH ROOF AND FLOOR SPANS OF LESS THAN 20 FEET, THIS STARTS WITHIN AS CLOSE AS POSSIBLE TO EXTERIOR CORNERS (BOTH SIDES), AND THEN RE-OCCURS ALONG WALLS AT NOT GREATER THAN 48 INCH INTERVALS.
- 10. ALL PRODUCTS REFERENCED HEREIN AND TO BE USED ON THIS JOBSITE ARE BY SIMPSON STRONG-TIE BECAUSE THEY SUPPORT THE INDUSTRY WITH EXTENSIVE TESTING, EDUCATION, AND FIELD SUPPORT. ALL ANCHORS SHALL BE INSTALLED PER MFG'S. RECOMMENDATIONS, BE ATTENTIVE TO NAIL SIZES AND LENGTHS. THE SIMPSON CATALOG SHALL BE ON THE JOBSITE, NO ALTERNATE MANUFACTURERS ARE ALLOWED.
- 11. SILL PLATE ANCHORING: SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL AS FOLLOWS: ANCHOR BOLTS SHALL BE MIN. ONE-HALF INCH DIAMETER DEFORMED OR THREADED ROD WITH MIN. EMBEDMENT OF 7 INCHES INTO CONCRETE OR SOLID FILLED MULTI COURSE MASONRY, THE WASHER IN CONTACT WITH THE SILL PLATE SHALL BE MIN. 2 INCHES SQUARE AND 1/8" THICK. AT BLDG. CORNERS, OR THE END OF SILL PLATE SECTIONS, THE ANCHOR BOLT SHALL NOT BE MORE THAN "7 DIAMETERS" (3-1/2") FROM ENDS. IN ADDITION, ANCHORS SHALL BE PLACED ALONG WALLS AT INTERVALS NOT EXCEEDING 48 INCHES. IF ANCHOR BOLTS ARE "CAST" INTO THE FOUNDATION WALL AND "MISS" THESE OBJECTIVES, THEN SUPPLEMENT AS REQUIRED BY DRILLING AND SETTING EPOXY BOLTS OR SIMPSON "TITEN HD" MASONRY SCREWS.
- 12. NOTE, IT IS PRACTICAL TO BUILD THE WALL AS REQUIRED FOR OPENINGS, THEN DETERMINE THE BEST ANCHOR LOCATIONS. USE OF THE SIMPSON "TITEN HD" WOOD SCREWS, ALLOWS ANCHORS CLOSER TO CORNERS AND BETTER COORDINATION WITH "UPLIFT" SILL PLATE TO WALL ANCHORS.
- 13. WIND BRACING "UPLIFT": A) SILL PLATE TO WALL STUD ANCHORAGE: USE SIMPSON #SSP WITH Z-MAX HOT DIPPED GALVANIZED COATING (BECAUSE OF PRESSURE TREATED PLATE, ALSO USE STAINLESS STEEL NAILS). USE A PAIR (INSIDE AND OUT) LOCATED AT BLDG. CORNERS, THEN SINGLE UNITS AT SPACING NOT EXCEEDING 48" O.C. (SAME AS FOUNDATION ANCHOR BOLTS). B) WALL STUD TO TOP DOUBLE PLATE. USE SAME PRODUCT AT THE SILL PLATE TO WALL STUD ANCHOR, LOCATED ON THE SAME STUD. THESE TOP AND BOTTOM ANCHORS SHOULD BE IN "ALIGNMENT."
- 14. WALL-TO-WALL ANCHORAGE: WHERE WALLS CONTINUE ABOVE A FLOOR DECK, THE CONTINUITY OF UPLIFT ANCHORAGE SHALL BE MAINTAINED. UPPER WALL STUDS MUST BE LOCATED INLINE WITH LOWER WALL STUDS. USING THE SAME STUDS WHICH HAVE THE SILL PLATE TO STUD ANCHORS, INSTALL SIMPSON #CS STRAPS.
- 15. WALL TO RAFTER ANCHORAGE: EVERY RAFTER SHALL BE ANCHORED TO THE WALL TOP PLATE USING ONE "HURRICANE CLIP", SIMPSON #H2.5A. ALL CEILING JOISTS (OR FLOOR JOISTS) SHALL BE SECURELY NAILED TO THE RAFTER.

16. RAFTER TO RIDGE BEAM (OR OTHER EXISTING STRUCTURE): USE SIMPSON #LSTA STRAPS.

- 1. INSTALLATION SHALL BE BEFORE ROUGHING IN OF ANY PLUMBING, ELECTRICAL OR HVAC
- 2. FIRESTOPPING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. FIRESTOPPING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:
- A) IN CONCEALED SPACES OF STUD WALL AND PARTITIONS, INCLUDING FURRED SPACES AND STUDDED OFF SPACES OF MASONRY OR CONCRETE WALLS, AT THE CEILING AND FLOOR
- B) AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, SOFFITS OVER CABINETS, DROP CEILINGS, COVE CEILINGS, ETC.

C) IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF RUN;

D) IN EXTERIOR CORNICES AND OTHER EXTERIOR ARCHITECTURAL ELEMENTS WHERE PERMITTED OF COMBUSTIBLE CONSTRUCTION OR WHEN ERECTED WITH COMBUSTIBLE FRAMES, AT MAX. INTERVALS OF 20 FT. IF NONCONTINUOUS, THEY SHALL HAVE CLOSED ENDS, WITH AT LEAST 4" OF SEPARATION BETWEEN SECTIONS.

E) IN THE SPACE BEHIND COMBUSTIBLE TRIM AND FINISH WHERE PERMITTED AND ALL OTHER

HOLLOW SPACES WHERE PERMITTED IN FIRE RESISTANCE RATED CONSTRUCTION AT 10'

- INTERVALS; OR THE SPACE SHALL BE COMPLETELY FILLED WITH NONCOMBUSTIBLE MATERIALS.

 F) IN CONCEALED SPACES FORMED BY FLOOR SLEEPERS IN AREAS OF NOT MORE THAN 100
- SQ.FT.; OR THE SPACE MAY BE COMPLETELY FILLED WITH NONCOMBUSTIBLE MATERIALS.

 G) AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE U.L. RATED SYSTEMS AND MATERIALS.

3. FIRESTOPPING SHALL CONSIST OF 2-INCH NOMINAL LUMBER WITH TIGHT JOINTS, OR TWO

THICKNESS OF 1-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS, OR ONE THICKNESS OF

- 23/32-INCH PLYWOOD WITH JOINTS BACKED BY 23/32-INCH PLYWOOD, OR OTHER APPROVED MATERIALS SECURELY FASTENED IN PLACE.

 4. FIRESTOPPING AT CHIMNEYS AND FIREPLACES: WHERE A "SPACE" MUST BE MAINTAINED BETWEEN COMBUSTIBLE MATERIALS INSTALL FOLDED METAL PANS TO STOP FLOW OF AIR
- 5. THE INTEGRITY OF ALL FIRESTOPS SHALL BE MAINTAINED AND SHALL NOT BE CONCEALED UNTIL INSPECTED AND APPROVED.

BETWEEN FLOORS AND INTO OTHER VOIDS.

REV.# REVISION DESCRIPTION DATE
START UP
REVIEW SET
FOR PERMITS
FOR CON STRUCTION
10-25-20
FOR CON STRUCTION
10-25-10-20

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