SECTION 1 – GENERAL REQUIREMENTS

1. THE ARCHITECT IS THE AUTHOR OF THESE DOCUMENTS AND RETAINS ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT. THESE DOCUMENTS ARE FOR THE USE SOLELY ON THIS PROJECT. USE ON ANY OTHER PROJECT IS PROHIBITED WITHOUT WRITTEN CONSENT BY THE ARCHITECT.
2. ALL WORK SHALL BE PREFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES AND ALL AUTHORITIES HAVING JURISDICTION.
3. WHILE THE ARCHITECT HAS TRIED THEIR BEST ON THE FOLLOWING NOTES TO CATEGORIZE THE INFORMATION UNDER A TITLE THAT PERTAINS TO A SPECIFIC TRADE OR SUPPLIER, THERE ARE MANY NOTES THAT APPLY TO SEVERAL DIFFERENT TRADES OR SUPPLIERS, SO IT IS IMPERATIVE THAT ALL NOTES BE REVIEWED BY ALL TO ASSURE THERE IS A CLEAR UNDERSTANDING TO THE ENTIRE PROJECT. FURTHERMORE, ALL SHEETS NOTED ON THE INDEX OF DRAWINGS, PLUS THE BUILDER'S SPECIFICATIONS, SHOULD BE REVIEWED AND USED BY TRADES AND SUPPLIERS TO BID AND CONSTRUCT FROM.
4. THIS SET OF CONSTRUCTION DOCUMENTS IS MEANT TO INDICATE THE GENERAL DESIGN INTENT, DIMENSIONS OF THE PROJECT, MAJOR DESIGN ELEMENTS, AND THE BASIC ORGANIZATION OF THE MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. THESE DOCUMENTS DO NOT NECESSARILY DESCRIBE OR INDICATE ALL MATERIALS AND WORK REQUIRED FOR FULL PERFORMANCE OF THE BUILDING SYSTEMS AND THE FINAL COMPLETION OF THE PROJECT. THE CONTRACTOR AND SUB-CONTRACTORS ARE RESPONSIBLE FOR PROVIDING ALL ITEMS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE PROJECT IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ZONING CODES.
5. THE CONTRACTOR IS TO NOTIFY ARCHITECT IN WRITING OF ANY CHANGES OR DISCREPANCIES IN THE DRAWINGS, SPECIFICATIONS, OR EXISTING FIELD CONDITIONS UPON DISCOVERY OF SUCH AND PRIOR TO BIDDING, IF KNOWN, AND COMMENCEMENT OF ANY WORK IN QUESTION WHEN POSSIBLE. THE CONTRACTOR SHALL ALSO NOTIFY THE ARCHITECT IN WRITING IN A TIMELY MANNER OF ANY WORK REQUIRING SPECIAL SEALING, WHICH HAS NOT BEEN INCLUDED WITHIN THE ISSUED SET OF DOCUMENTS.
6. DO NOT SCALE THE DRAWINGS. FIGURE DIMENSIONS SHALL TAKE PRECEDENCE.
7. ALL WALL DIMENSIONS ARE TO DRYWALL, TO FACE OF MASONRY, OR FACE OF EXTERIOR SHEATHING, UNLESS NOTED OTHERWISE.
8. ALL ANGLED WALLS ASSUMED TO BE 45 DEGREES, UNLESS NOTED OTHERWISE.
9. FINISHED DIMENSIONS AT CRITICAL AREAS INCLUDING BUT NOT LIMITED TO ANY CABINETRY, APPLIANCES, COUNTERTOPS, PLUMBING FIXTURES, STAIRWAYS, WINDOWS, DOORS, AND WHIRLPOOLS ARE TO BE RECOMMENDED TO BE FIELD VERIFIED PRIOR TO ANY ORDERING.
10. THE ARCHITECT HAS NOT BEEN HIRED IN A SUPERVISORY CAPACITY FOR THE CONSTRUCTION OF THIS PROJECT. THEREFORE, THE ARCHITECT SHALL BE HELD HARMLESS FOR ANY AND ALL REASONS AS IT RELATES TO:
   - 10.1. CONSTRUCTION ACTIVITIES, MEANS, METHODS, TECHNIQUES, SEQUENCE PROCEDURES OR SAFETY PRECAUTIONS IN CONNECTION WITH THE CONSTRUCTION OF THIS PROJECT. THESE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
   - 10.2. RESPONSIBILITY OR LIABILITY FOR ANY PROBLEMS, DELAYS OR COSTS ARISING FROM NEGLIGENCE OR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS BY THE CONTRACTOR, SUB-CONTRACTORS, SUPPLIERS OR ANY OTHER TRADES PERSON IN CONNECTION WITH THIS PROJECT
   - 10.3. ANY PRODUCTS NOT PROPERLY FITTING AS IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, SUB-CONTRACTORS, SUPPLIERS OR ANY OTHER TRADESMAN TO VERIFY ACTUAL FIELD CONDITIONS PRIOR TO ANY ORDERING AND THE COORDINATION OF PRODUCTS AND MATERIALS AND THEIR ULTIMATE PROPER INSTALLATION.
11. THE ARCHITECT SHALL NOT HAVE THE AUTHORITY NOR THE RESPONSIBILITY TO STOP THE WORK.
12. CONTRACTOR TO COORDINATE BETWEEN MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS PRIOR TO START OF ANY ROUGH MECHANICAL, ELECTRICAL, AND PLUMBING WORK AND MAP OUT AND COORDINATE ALL WORK BETWEEN THE TRADES SUCH THAT ALL WORK CAN BE COMPLETED WITHOUT THE FRAMED WALLS AND FLOORS AND NO VERTICAL CHASES NEED TO BE CREATED AND NO SOFFITS NEED TO BE DROPPED BELOW THE CEILING. ANY CONFLICTS SHOULD BE BROUGHT TO THE ARCHITECTS ATTENTION AT THIS TIME AND PRIOR TO STARTING ANY ROUGH WORK. NO PLUMBING, MECHANICAL, OR ELECTRICAL INFORMATION IS TO BE SCALED FROM THE DRAWINGS.
13. ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY MEASURES REQUIRED IN CONNECTION WITH THE PROJECT.
15. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE LICENSED AND INSURED WITHIN THE JURISDICTION IN WHICH THE WORK IS TO BE DONE.
16. ALL COMPONENTS OF THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BEST PRACTICES OF THE PARTICULAR TRADE. BEFORE STARTING ANY WORK, EACH CONTRACTOR SHALL EXAMINE THE WORK PERFORMED BY OTHERS TO WHICH HIS WORK ADJOINS OR IS APPLIED AND WILL REPORT IN WRITING TO THE ARCHITECT ANY CONDITIONS THAT WILL PREVENT SATISFACTORY ACCOMPLISHMENT OF HIS CONTRACT. FAILURE TO NOTIFY THE ARCHITECT AND OWNER OF DEFICIENCIES OR FAULTS SHALL CONSTITUTE ACCEPTANCE THEREOF AND WAIVER OF ANY CLAIMS FOR IT UNSUITABILITY.
17. ALL MATERIALS SHALL BE USED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. THIS INCLUDES VERIFYING ALL ROUGH OPENINGS, CLEARANCES, ATTACHMENT LOCATIONS, MECHANICAL/ELECTRICAL/PLUMBING REQUIREMENTS, FINISHING, ETC. PRIOR TO FRAMING AND AGAIN PRIOR TO INSTALL TO ASSURE PRODUCTS ARE INSTALLED PROPERLY.
18. THE CONTRACTOR SHALL DEFEND AND HOLD HARMLESS THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS, THEIR RESPECTIVE SUB CONSULTANTS, OFFICERS, DIRECTORS, MEMBERS, EMPLOYEES AND AGENTS FROM AND AGAINST ANY AND ALL DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, TO THE EXTENT ARISING OUT OF THE NEGLIGENT PERFORMANCE OF THE WORK BY THE CONTRACTOR, THE CONTRACTOR'S SUBCONTRACTOR, OR ANYONE FOR WHOM THE CONTRACTOR IS LEGALLY LIABLE. THE INDEMNIFICATION OBLIGATION UNDER THIS PARAGRAPH SHALL NOT BE LIMITED BY A LIMITATION ON THE AMOUNT OR TYPE OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR OR A SUBCONTRACTOR UNDER WORKERS' OR WORKMEN'S COMPENSATION ACTS, DISABILITY BENEFIT ACTS OR OTHER EMPLOYEE BENEFIT ACTS. THE CONTRACTOR SHALL NOT BE REQUIRED TO INDEMNIFY ANY PARTY FOR THAT PARTY'S OWN NEGLIGENCE.

SECTION 2 – EXCAVATION/SITE CLEARING

1. SITE EXCAVATION SHALL BE IN ACCORDANCE WITH CIVIL DRAWINGS THAT WERE REVIEWED AND APPROVED BY THE LOCAL AUTHORITY. CONTRACTOR TO REPORT ALL DEVIATIONS FROM DOCUMENTS TO THE ARCHITECT BEFORE BEGINNING ANY FURTHER WORK.

SECTION 3 – CONCRETE

1. ALL CONCRETE TO BE MIXED & PLACED IN ACCORDANCE WITH A.C.I. STANDARDS, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ASTM C150.
2. SOIL BEARING CAPACITY ASSUMED TO BE 3,000 PSF.
   - 2.1. SOILS REPORT PROVIDED BY OWNERS.
3. COMPRESSIVE STRENGTH OF CONCRETE:
   - 3.1. ALL CONCRETE SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI EXCEPT,
   - 3.2. EXTERIOR PORCHES, STEPS & WALKS EXPOSED TO THE WEATHER AND GARAGE FLOOR SLABS SHALL ATTAIN A MINIMUM OF 3500 PSI.
   - 3.3. ALL CONCRETE EXPOSED TO THE WEATHER, INCLUDING DURING CONSTRUCTION, SHALL HAVE A MINIMUM OF 5% AND A MAXIMUM OF 7% AIR ENTRAINED.
   - 3.4. PLEASE NOTE THAT IRC TABLE R402.2 ALLOWS SOME CONCRETE TO BE 2500 PSI, BUT THIS ARCHITECT PREFERS A MINIMUM REQUIREMENT FOR CONCRETE IS AS NOTED ABOVE.
4. ALL CONCRETE WORK SHALL BE POURED CONTINUOUSLY WHENEVER POSSIBLE.
5. PROVIDE CONCRETE CONTROL JOINTS ROUGHLY OUT FROM ALL INTERIOR STEEL COLUMNS & AS REQUIRED IN ALL LARGE POUR BASEMENT, GARAGE & DRIVEWAY SLABS, APPROX. 20 FT EACH WAY.
6. NO CONCRETE SHALL BE POURED WHEN THERE IS EXCESSIVE OR STANDING WATER OR WHEN THE TEMPERATURE IS OR IS EXPECTED TO BE LESS THAN 40 DEGREES F (WITHOUT CHEMICAL ACCELERATES). DO NOT USE ANY ADDITIVES WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. ALL FORMS, GROUND & OTHER MATERIALS WITH WHICH CONCRETE WILL COME INTO CONTACT SHALL BE FREE OF FROST BEFORE POURING. PROTECT THE CONCRETE & SOIL FROM FREEZING & HEAT SHALL BE PROVIDED IF NEEDED.
7. ALL CONCRETE SHALL CURE A MINIMUM OF SEVEN DAYS BEFORE A LOAD MAY BE PLACED ON IT OR BACKFILL OCCUR.
8. DO NOT BACKFILL FOUNDATION WALLS UNTIL CONCRETE HAS CURED FOR AT LEAST 7 DAYS. PROVIDE BRACING AS REQUIRED TO FOUNDATION WALLS DURING BACKFILL.
9. AT ALL STOPS, FORCHES FINISH SLABS SHALL BE SLOPED 1/8" WITH COMPACTED FILL PER BUILDER'S SPECIFIED BACKFILL MATERIAL AND AS ALLOWED PER LOCAL AUTHORITY.
10. PROVIDE AND INSTALL PERIMETER DRAIN TILE.
    - 10.1. THE DRAIN TILE SHALL BE INSTALLED ON THE EXTERIOR OF ALL BASEMENT FOOTINGS AND AROUND THE OUTSIDE PERIMETER OF CRAWL SPACES. PROVIDE MANUFACTURER'S SPLICES, CORNERS AND TEES AS REQUIRED. THE DRAIN TILE SHALL BE 4"PERFORATED FLEXIBLE PVC PIPE IN SLEEVE, BEDDED ON 2"MACADED GRAVEL PLACED ON THE SIDE OF THE FOOTING, COVERED WITH 12"WASHED GRAVEL TO A POINT NOT LESS THAN 3"ABOVE THE TOP OF THE FOOTING.
    - 10.2. PROVIDE WINDOW WELL DRAINS, WHICH SHALL BE 4" PVC IN SLEEVE CONNECTED TO THE FOOTING DRAIN BY MEANS OF A PVC TEE. THE TOP END OF THE DRAIN PIPE SHALL BE LOCATED A MINIMUM OF 12"BELOW THE BOTTOM OF THE WINDOW FRAME AND SHALL BE PROVIDED WITH A PVC GRATE. A WELL SHALL BE PROVIDED WITH A COARSE STONE TO A LEVEL ADEQUATE TO COVER THE GRATE.
11. REINFORCE THE FOUNDATION WALLS AS NOTED ON THE DRAWINGS. REBAR SHALL HAVE A MINIMUM OF 2" CONCRETE COVER. REINFORCE THE FOOTINGS WITH (2) REBARS EXTENDING 18"EACH WAY AT CORNERS AND WHEREVER THE FOOTING SPANS OVER TRENCHES. ALL REBAR SHALL BE PER ASTM A615-GRADE 60 AND WELD WIRE REINFORCING SHALL BE PER ASTM A185.
12. ALL COPPER PIPING WITHIN ANY CONCRETE SLAB SHALL BE WRAPPED WITH A CODE APPROVED MATERIAL.
13. FINISH CONCRETE AS FOLLOWS: VERTICAL EXPOSED FOUNDATION WALLS BY REMOVING FINS AND FILL ALL HOLES, EXTERIOR WALKS AND STOOPS WITH BROOM FINISH; AND INTERIOR SLABS WITH TROWEL FINISH. PROVIDE CONTROL JOISTS AS REQUIRED.

SECTION 4 – MASONRY

1. ALL MASONRY CONSTRUCTION SHALL BE IN CONFERMANCE WITH THE "MASONRY TECHNICAL NOTES" BY THE "MASONRY ADVISORY COUNCIL", INCLUDING ITS HOT AND COLD WEATHER PROCEDURES.
2. THE OWNER SHALL SELECT BRICK, STONE, AND MORTAR PRIOR TO STARTING FINAL CONTRACTOR SUPPLIED SAMPLES. THE CONTRACTOR TO PROVIDE A UNIT COST OF EACH AT TIME OF BID.
3. ALL MASONRY MATERIAL SHALL BE THOROUGHLY WET BEFORE LAID. MAINTAIN FRESHLY PLACED MASONRY AT MINIMUM TEMPERATURE OF 50 DEGREES F AFTER PLACING.
4. MASONRY VENEER SHALL BE JOINED TO FRAME CONSTRUCTION WITH US 0.22 GAUGE CORROSION RESISTANT "T" CORRUGATED METAL TIES SPACED A MAXIMUM OF 24"-HORIZONALLY AND 16" VERTICALLY. TIES SHALL BE FIRMLY ATTACHED THROUGH SHEATHING TO FRAME CONSTRUCTION BEHIND. A MINIMUM OF 1" AIR SPACE SHALL BE PROVIDED BETWEEN THE BRICK VENEER AND THE SHEATHING ON THE WOOD FRAMING.
5. PROVIDE CORROSION RESISTANT FLASHING AND INSTALLED AT ALL SHELF ANGLES, LINTELS, LEDGES, OTHER OBSTRUCTIONS TO THE DOWNWARD FLOW OF WATER IN THE WALL, AND WHERE SHOWN ON DRAWINGS AND AS NECESSARY TO PROVIDE A WEATHERPROOF RESULT.
6. WEEP HOLES SHALL BE PROVIDED AT THE MINIMUM OF 2'-0"O.C. AT THE BASE OF THE VENEER WALL FLASHING. PROVIDE PLASTIC TUBING, COTTON ROPE, OR POLYESTER ROPE WICK AT EACH WEEP HOLE WITH A MINIMUM LENGTH OF 24". TRIM WICK FLUSH WITH OUTSIDE FACE OF WALL AFTER MORTAR HAS SET.
7. WASH AND CLEAN ALL BRICK AND STONE WITH A NON-ACIDIC CLEANING.
8. GROUT SOLID AROUND ANYTHING THAT PROJECTS INTO MASONRY, INCLUDING AROUND ALL METAL FLUES, LIGHTING FIXTURES, ELECTRICAL RECEPTACLES, HOSE BIBBS, PIPES, ETC. TO CREATE A WATERPROOF BARRIER.
9. MASONRY FIREPLACE (IF ANY):
   - 9.1. ALL FIRE BRICK SHALL CONFORM TO ASTM C64, AND SHALL BE LAID UP WITH MEDIUM-DUTY FIRECLAY MORTAR CONFORMING TO ASTM C105.
   - 9.2. FIREPLACE FLUE LINER SHALL BE OF HARD BURNED TERRA COTTA, SIZE AND SHAPE AS REQUIRED PER PER PROPER SHOW OR AS SHOWN ON DRAWINGS.
   - 9.3. FIREPLACE DAMPER SHALL BE "HIGH FORCE"TYPE, WITH POWER CONTROL, SIZE AS REQUIRED. ASH DUMP AND CLEANOUT DOOR SHALL BE APPROXIMATELY 8"x8"CAST IRON, VERIFY SIZE AND IF NEEDED WITH OWNER PRIOR TO START.
   - 9.4. UNLESS NOTED OTHERWISE, ALL CHIMNEYS SHALL BE TOPPED WITH A CONCRETE CAP AS SHOWN ON THE ELEVATIONS. PROVIDE A MINIMUM 4" SLOPE FROM THE FLUE TILE TO THE EDGE OF THE CHIMNEY. THE CAP TO BE HELD TIGHT TO FLUE TILES ALL AROUND. ALL FLUE TILES SHALL RECEIVE A BEAD OF SILICON SEALANT AND PROJECT A MINIMUM OF 4" ABOVE CAP.
10. THE MASONRY FIREPLACE HAS BEEN DESIGNED ACCORDING TO STANDARD PRACTICE; HOWEVER, IT IS THE RESPONSIBILITY OF THE MASON TO ENSURE THAT THE FIREPLACE WILL DRAW PROPERLY. SHOULD THE MASON HAVE ANY MISGIVINGS ABOUT THE DESIGN OF THE FIREPLACE AND CHIMNEY, HE IS TO NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION.

SECTION 5 – STEEL

1. ALL STRUCTURAL STEEL SHALL BE SHOP PRIMED WITH FABRICATOR'S STANDARD LEAD-FREE AND CHROMATE-FREE, NON-ASPHALTIC, RUST-INHIBITING PRIMER.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS OF ASTM AS FOLLOWS: W-SHAPES PER ASTM A992, CHANNELS, ANGLES, M-SHAPES, S-SHAPES, PLATES AND BARS PER ASTM A36, COLD FORMED HOLLOW STRUCTURAL SECTIONS PER ASTM A500, PIPE COLUMNS PER ASTM A53, TYPE E OR S, GRADE B, Fy=36 KSI, AND HIGH-STRENGTH BOLTS, NUT, AND WASHERS PER ASTM A325 WITH ¾" DIAMETER MINIMUM, UNLESS NOTED OTHERWISE.
3. ALL STEEL SHALL BE FABRICATED, DETAILED, AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION AND WITH THE AISC CODE OF STANDARD PRACTICE.
4. ALL UNFILLED PIPES SHALL HAVE MINIMUM ¾"CAP PLATES WITH WEATHER TIGHT WELDS ALL AROUND TO PREVENT ENTRY OF WATER.
5. PROVIDE ¾" DIAMETER DRAIN HOLE ABOVE BASE PLATE IN UNFILLED PIPES TO ALL WATER TO EXIST.
6. ALL COLUMNS TO BE SET UPON NON-SHRINK GROUT WITH MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS, USING SETTING PLATES, ¾" THICK AND SIZE AS BASE PLATE.
7. GROUT SOLID ALL BEAMS IN BEAM POCKETS AT CONCRETE FOUNDATION WALLS WITH NONMETALLIC, SHRINK RESISTANT GROUT PER ASTM C1107.

SECTION 6 – CARPENTRY

1. SEE DESIGN CRITERIA FOR LUMBER DESIGN VALUES.
2. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
3. MODULAR (2'-0") TRUSSES TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. WHERE TWO OR MORE MEMBERS ARE USED TOGETHER, NAIL OR BOLT THEM TOGETHER PER MANUFACTURER'S INSTRUCTIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS AS TO BEARING LENGTHS REQUIRED.
4. PROVIDE BRIDGING EQUALLY SPACED BETWEEN BEARING POINTS AND AT 8'-0" O.C. MAX FOR DIMENSIONAL LUMBER FLOORS.
5. PROVIDE APPROVED BRIDGING AS REQUIRED BY ENGINEERED JOIST MANUFACTURER (IF ANY). REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAILS.
6. PROVIDE (2)2x4 STIFF BACKS @ 8' OC OR ALL CEILING JOISTS SPANNING UNSUPPORTED MORE THAN 10' ANY PLYWOOD OR OSB DAMAGED, DELAMINATED OR BUCKLING DUE TO WEATHER OR ABUSE SHALL BE SANDED DOWN OR REPLACED IF UNABLE TO SAND SMOOTH.
7. PROVIDE TREATED 2x6 WOOD SILL PLATES ON TOP OF FOUNDATIONS HELD IN PLACE WITH ANCHOR BOLTS AS DETAILED AND SITTING ON ¼"MINIMUM THICKNESS CLOSED CELL NEOPRENE FOAM SILL SEALER. IF THERE IS A SPACE BETWEEN THE SILL PLATE AND THE TOP OF FOUNDATION OF GREATER THAN ¼", THEN INSTALL PORTLAND NON-SHRINK GROUT AT ALL VOIDS AND LET CURE PRIOR TO CONSTRUCTION.
8. ALL FRAMED WALLS (BOTH LOAD BEARING AND NON-LOAD BEARING) SHALL HAVE DOUBLE TOP PLATES WITH LAPPED JOIST OF AT LEAST 24".
9. SET ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, CUT AND FITTED. LOCATE NAILERS, BLOCKING, AND SUBMIT SUPPORTS TO COMPLY WITH REQUIREMENT FOR ATTACHING OTHER CONSTRUCTION, INCLUDING BLOCKING FOR STAIR RAILS, CABINETRY, CLOSET RODS, SHOWERS, SHOWER WALLS, TUBS, MIRRORS, BATHROOM ACCESSORIES, ETC. THE LOCATION OF BATHROOM ACCESSORIES, MIRRORS, & CLOSET RODS SHALL BE VERIFIED WITH BUILDER.
10. VERIFY ALL ROUGH OPENINGS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO FRAMING.
11. SECURELY ATTACH ROUGH CARPENTRY TO SUBSTRATES, COMPLYING WITH THE IRC. WHERE FASTENERS ARE EXPOSED TO WEATHER, IN CONTACT WITH THE GROUND, OR IN HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS THAT ARE HOT-DIP ZINC COATED. ALL METAL FRAMING ANCHORS SHALL HOT-DIP ZINC COATED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
12. ALL HIP AND VALLEY ROOF RAFTERS SHOULD BE CONTINUOUS MEMBERS.
13. ALL 45-DEGREES INTERIOR AND EXTERIOR CORNERS TO HAVE CONTINUOUS RIPPED WOOD BLOCKING FOR DRYWALL & CORNER BEAD NAILER. ALL EXPOSED HIPS AND VALLEYS TO HAVE RIPPED 2x CORNER FOR DRYWALL NAIL.
14. PROVIDE TOP OF BEARING (MIN) AT ALL JOIST ENDS OR PROVIDE APPROVED JOIST HANGERS.
15. ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS AND SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH ½" GYPSUM BOARD.
16. ALL WOOD BEAMS, JOISTS, STUDS, AND OTHER COMBUSTIBLE MATERIAL SHALL HAVE A CLEARANCE OF NOT LESS THAN 2" FROM THE FRONT AND SIDE FACES OF MASONRY FIREPLACES AND NOT LESS THAN 4" FROM THE BACK FACE.
17. ALL PLUMBING & HVAC WALLS TO BE DOUBLE 2x4 @ 16" O.C. OR 2x6 @ 16" O.C. WALLS AND NO HVAC OR PLUMBING SHALL BE LOCATED IN ANY EXTERIOR WALL.
18. COORDINATE INSTALLATION OF ALL FLOOR JOISTS WITH PLUMBING FIXTURES SUCH THAT WHEN INSTALLED, THERE IS NO FLOOR OR CEILING CLEARANCE ALLOWED THAT CUTTING OR NOTCHING OF JOIST WILL NOT BE REQUIRED.
19. DOUBLE ALL JOISTS UNDER BATHTUBS, WHIRLPOOLS, & ALL BEARING WALLS PARALLEL TO THE FLOOR JOISTS (AND WHERE NOTED)

SECTION 7 – FIRE BLOCKING

1. FIRE BLOCKING PER SECTION IRC R302.11) SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS, BOTH VERTICALLY AND HORIZONTALLY, AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES AND BETWEEN A TOP STORY AND THE ATTIC-ROOF SPACE.
2. IN CONCEALED SPACES OF STUD WALLS, PARTITIONS, AND FURRED SPACES, AT CEILING AND FLOOR LEVELS, AND AT INTERVALS NOT TO EXCEED 10'.
3. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, AND COVE CEILINGS
4. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
   - 4.1. ENCLOSED SPACES UNDER STAIRS THAT IS ACCESSED BY A DOOR OR ACCESS PANEL SHALL HAVE THE WALLS, UNDER-STAIR SURFACE AND DOOR PROTECTED ON THE ENCLOSED SIDE WITH ½" GYPSUM BOARD. (PER IRC R302.7)
5. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES, AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION.
6. FIRE BLOCKING MATERIAL SHALL CONSIST OF 2x LUMBER, (2) LAYERS OF 1x LUMBER WITH BROKEN LAP JOINTS, (1) LAYER OF ¾" (MIN) WOOD STRUCTURAL PANELS WITH JOINTS BACKED WITH SAME, (1) LAYER OF ½" (MIN) PARTICLE BOARD WITH JOINTS BACKED WITH SAME, ½" (MIN) GYPSUM BOARD, ¾" CEMENT-BASED MILLBOARD, BATTS/BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE, OR CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UP 263, FOR THE SPECIFIC APPLICATION.

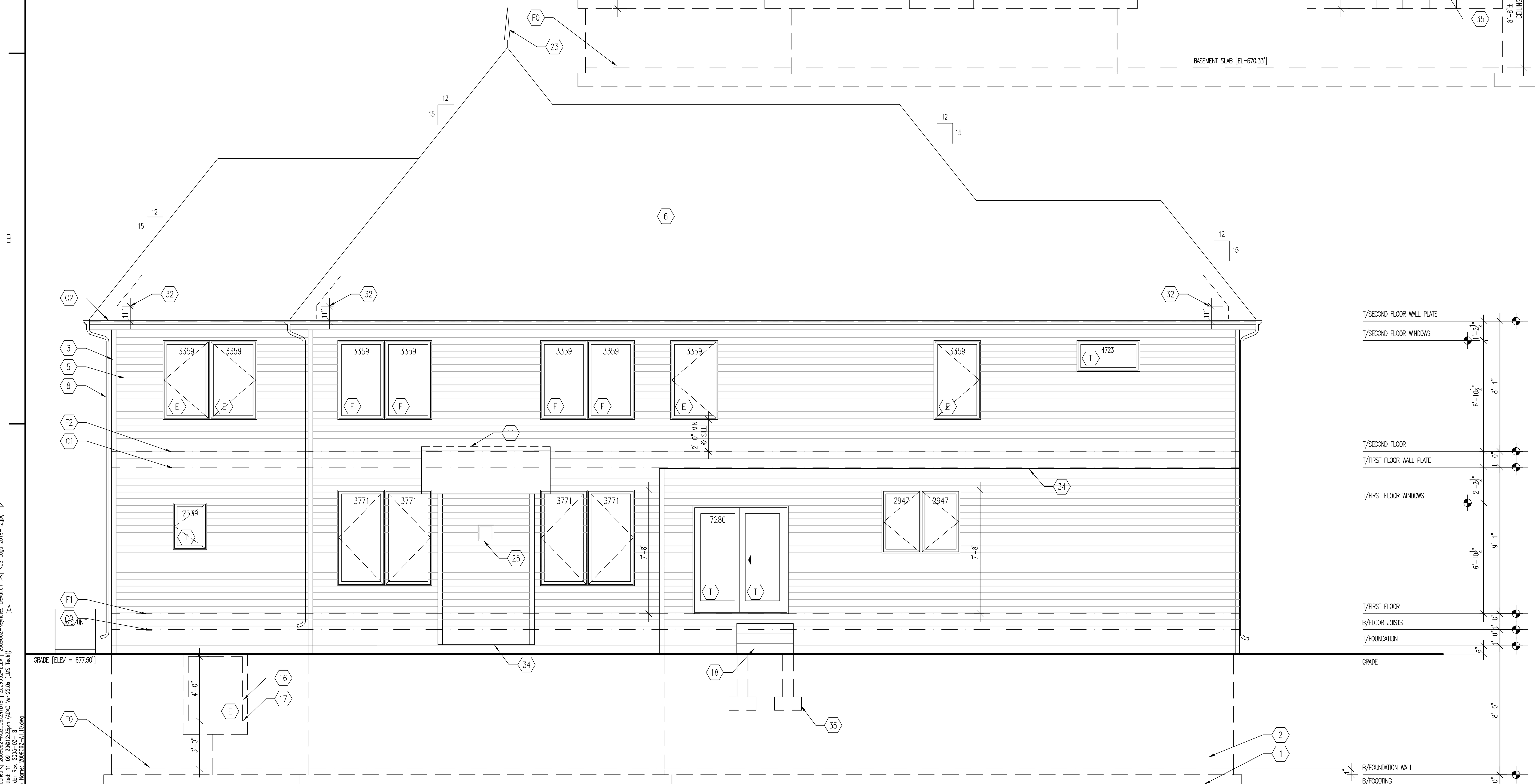
SECTION 8 – MOISTURE/THERMAL CONTROL

1. SEE SECTION 14 – I.E.C.C. #2 PLANS AND SHALL SECTIONS FOR INSULATION REQUIREMENTS.
2. ALL INSULATION SHALL BE PER BUILDER'S SPECIFICATIONS AND AT A MINIMUM, AS ALLOWED BY CODE.
3. PROVIDE A VAPOR BARRIER ON THE WARM SIDE OF THE CONSTRUCTION, UNLESS NOTED OTHERWISE.
4. ALL GAPS AND SPACES AROUND EXTERIOR DOOR AND WINDOW FRAMES AND ALL HOLES PENETRATING INTO UNHEATED SPACES SHALL RECEIVE SAME INSULATION AS SURROUNDING AREA.
5. PROVIDE VENT CHUTES AT ROOF EAVES TO MAINTAIN AIR SPACE AT EAVE OR ALONG ENTIRE ROOF RAFTER AT LOCATIONS WHERE CEILING DOES NOT HAVE ATTIC SPACE ABOVE.
6. PROVIDE "HYSIX" (OR APPROVED EQUAL) BUILDING WRAP. APPLY BUILDING WRAP IMMEDIATELY AFTER SHEATHING IS INSTALLED. SEAL ALL SEAMS, EDGES, FASTENERS, AND PENETRATIONS WITH MANUFACTURER'S APPROVED TAPE. EXTEND BUILDING WRAP INTO JAMBS OF OPENINGS AND SEAL CORNERS WITH TAPE.
7. INSTALL FLASHING AS REQUIRED MAKE BUILDING WEATHER-TIGHT, INCLUDING ALL ROOF PENETRATIONS, ROOF-WALL INTERSECTIONS, WALL OPENINGS, ETC., MAKING SURE ALL FLASHING LAPS, JOINTS, AND SEAMS ARE PERMANENTLY WATER-TIGHT AND WEATHER-PROOF. USE SEALANTS WHERE POSSIBLE. SEPARATE NON-COMPATIBLE METALS OR CORROSIVE SUBSTRATES WITH A COATING OF ASPHALT MASTIC OR OTHER PERMANENT SEPARATION.
8. CAULK AND SEAL ALL JOINTS AS NECESSARY. WEATHER-STRIP EXTERIOR DOORS, WINDOWS, EXHAUST FANS, ETC. WHERE ANCHORS, ETC., PENETRATE FLASHING, FILL WITH SEALER TO ENSURE A WATERTIGHT CONDITION.
9. PROVIDE ALUMINUM GUTTERS AND DOWNSPOUTS, DRAIN TO GRADE. SEE BUILDER'S SPECIFICATIONS.
10. INSTALL ICE AND WATER SHIELD AT EAVES, VALLEYS AND AROUND CHIMNEY TO PREVENT ICE DAMS, ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
11. SEE TYPICAL WALL SECTION OR ROOF PLAN FOR TYPICAL SHINGLES

SECTION 9 – DOORS & WINDOWS

1. INSTALL WINDOWS AND DOORS PER MANUFACTURER'S REQUIREMENTS.
2. ALL WINDOWS AND DOORS PER BUILDER'S SPECIFICATIONS.
3. ALL WINDOWS SHALL BE DOUBLE-GLAZED INSULATED GLASS PER BUILDER'S SPECIFICATIONS. SEE SECTION 14 – I.E.C.C. #2.2 & #2.3 THE MAXIMUM THERMAL TRANSMITTANCE U-FACTOR.
4. PROVIDE TEMPERED SAFETY GLASS:
   - 4.1. FOR ANY WINDOW AND GLAZED DOOR WITHIN A 24" ARC OF A DOOR JAMB IN THE CLOSED POSITION AND BOTTOM EDGE OF GLAZING IS LESS THAN 60" AFF.
   - 4.2. FOR ANY WINDOW THAT MEETS ALL THE FOLLOWING; THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SF; THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" AFF; THE TOPE EDGE OF THE GLAZING IS MORE THAN 36" AFF; & A WALKING SURFACE IS WITHIN 36" HORIZONALLY AND IN A STRAIGHT LINE.
   - 4.3. FOR ANY WINDOW WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THEN 36" ABOVE THE ADJACENT WALKING SURFACE AND WITHIN 60" OF THE STAIRS, LANDINGS AND RAMPS.
   - 4.4. FOR ANY WINDOW AT A BATHTUB OR SHOWER WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY FROM WALKING SURFACE AND WITHIN 60" MEASURED HORIZONTALLY FROM THE EDGE OF THE BATHTUB OR SHOWER EDGE.
   - 4.5. ALL GLASS DOORS (DOOR SIDE) LOCATED WITHIN A 24" ARC OF A DOOR JAMB IN THE CLOSED POSITION AND LESS THAN 60" MEASURED VERTICALLY FROM WALKING SURFACE AND WITHIN 60" MEASURED HORIZONTALLY FROM THE EDGE OF THE DOOR IN THE CLOSED POSITION.
   - 4.6. ALL RECEPTACLES PLACED ABOVE COUNTERTOPS SHALL BE INSTALLED WITH THE LONG DIMENSION OF THE PLATE HORIZONTAL, UNLESS OTHERWISE NOTED.
   - 4.7. ANY DISHWASHER SHALL BE GFI PROTECTED.
   - 4.8. ALL GFI OUTLETS SHALL BE L.E.D. TYPE.
   - 4.9. ALL BATHROOM OUTLETS, SWITCHES, LIGHT FIXTURES, & FANS SHALL BE GFI PROTECTED.
   - 4.10. ALL LIGHT FIXTURES OVER TUBS & SHOWERS SHALL BE WATER & VAPOR PROOF AND RATED FOR WET LOCATIONS.
   - 4.11. ALL CEILING LIGHT BOXES SHALL BE CAPABLE OF SUPPORTING CEILING FANS.
   - 4.12. PROVIDE ALL APPROPRIATE CONNECTIONS AND POWER FOR THE CONNECTION OF THE APPLIANCES, MECHANICAL EQUIPMENT, AND PLUMBING EQUIPMENT. COORDINATE WITH THE OTHER SUBCONTRACTORS. SEE BUILDER SPECIFICATIONS FOR LIST OF APPLIANCES TO BE HOOKED UP.
   - 4.13. ALL CLOSET LIGHTS SHALL BE MOUNTED ON THE CEILING ABOVE THE DOOR AND IS A MINIMUM OF 18" AWAY FROM ALL SHELVING.
   - 4.14. ALL DEVICES AND COVER PLATES TO BE PROVIDED PER BUILDER'S SPECIFICATIONS.
   - 4.15. ALL INTERIOR RECESSED INCANDESCENT ("CAN") DOWNLIGHTS SHALL BE RATED FOR USE WITH DIRECT CONTACT TO INSULATION WITH THERMAL BARRIERS AND BAFFLES.
   - 4.16. ¾" METAL CONDUIT SHALL BE RUN FROM WATER METER TO EXTERIOR FOR BUILDING FOR THE WATER COMPANY'S REMOTE READER. VERIFY EXACT LOCATION IN THE FIELD WITH THE LOCAL BUILDING AUTHORITY FOR READER LOCATION.
   - 4.17. PROVIDE DOOR BELL WITH ONE BUTTON AT FRONT DOOR.
   - 4.18. SEE SECTION 13 – SMOKE & CO DETECTORS FOR ADDITIONAL NOTES.
   - 4.19. SEE SECTION 14 – E.C.C. FOR ADDITIONAL NOTES.
   - 4.20. SEE SECTION SECTION 17 – FINISHES, #1 & #2

C1 FRONT ELEVATION
1/4" = 1'-0"



A1 REAR ELEVATION
1/4" = 1'-0"

2009062-A1.10.DWG

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BUILDER

King's Court Builders
the confidence builder

Seal
LICENSED ARCHITECT
MICHAEL A. BUHR
001-015688
STATE OF ILLINOIS

11-09-2020 | 11-30-2022
DATED | EXPIRES

ISSUANCE

DATE	
11-09-2020	PERMIT-BID

Strauch Residence
4279 Lacebark Lane
Lot 166 Ashwood Park South, Naperville, IL
for
Kings Court Builders
P.O. Box 5070 Naperville, IL. 60567-5070

EXTERIOR ELEVATIONS-FRONT & REAR

DRAWN BY:
EAO

CHECKED BY:
MAB

PROJECT NUMBER:
2009062

SHEET NUMBER:
A1.10

OF 8 SHEETS

EXTERIOR ELEVATION KEYNOTE LEGEND:

1 FOUNDATION FOOTING
2 FOUNDATION WALL
3 CONTINUOUS CORNER BOARDS
4 1x8 HARDIE BOARD FREIZE
5 HORIZONTAL SIDING
6 ASPHALT SHINGLES
7 STONE SILL
8 ALUMINUM GUTTERS AND DOWNSPOUTS
9 CONCRETE STEPS TO GRADE (NO RAILING REQUIRED)
10 STONE
11 CONCEALED METAL FLASHING @ ROOF & WALL INTERSECTIONS (TYP ALL)
12 DECORATIVE GABLE VENT W/ 1x6 TRIM
13 1x2 ON 1x8 ROOF RAKE
14 ADJUST SIDEWALK AS REQUIRED TO MAINTAIN 3 RISERS (7¾" MAX RISER) FROM PORCH
15 CONCRETE PORCH
16 BASEMENT WINDOW & WELL AREA
17 EGRESS LADDER REQUIRED
18 LANDING & STEPS TO GRADE (NO RAILING REQUIRED)
19 4x8 HARDIE BOARD STUCCO PANELS
20 BRICK
21 BRICK SOLDIER COURSE
22 BRICK HEADER COURSE
23 FINIAL PER BUILDERS SPEC
24 EXPOSED FLASHING @ MASONRY WALL & ROOF INTERSECTIONS
25 DIRECT VENT FIREPLACE EXHAUST
26 ROOF SADDLE
27 1x8 FASCIA
28 BRICK ARCHED SOLDIER COURSE W/ 6" RISE FROM SPRING LINE
29 STONE ARCHED SOLDIER COURSE W/ 6" RISE FROM SPRING LINE
30 BRICK STACK COURSE
31 STONE STACK COURSE
32 MODIFIED ROOF BEARING
33 DEPRESSED FOUNDATION @ OVERHEAD DOORS
34 PROVIDE SOFFIT MATERIAL (NON-VENTED) AT UNDERSIDE OF CANTILEVER W/R30 INSULATION
35 CONCRETE WING WALL TO SUPPORT LANDING STAIRS
36 INTERIOR WALL LINE BEHIND
37 ROOF LINE BEHIND

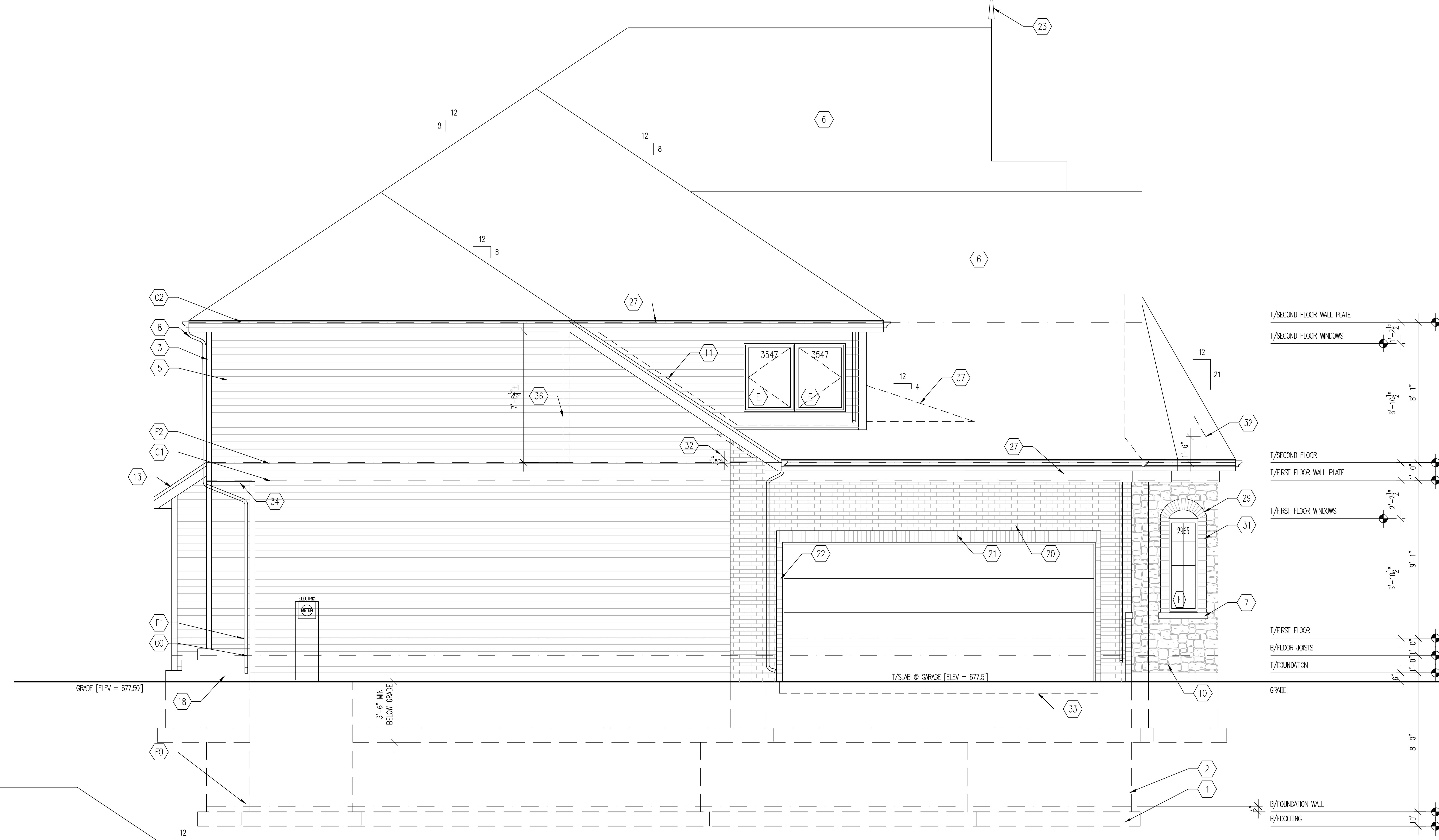
E EGRESS
F FIXED
T TEMPERED
U UP-CHARGE TO BASE BID

F0 BASEMENT FLOOR LINE
F1 FIRST FLOOR LINE
F2 SECOND FLOOR LINE
F3 STAIR LANDING

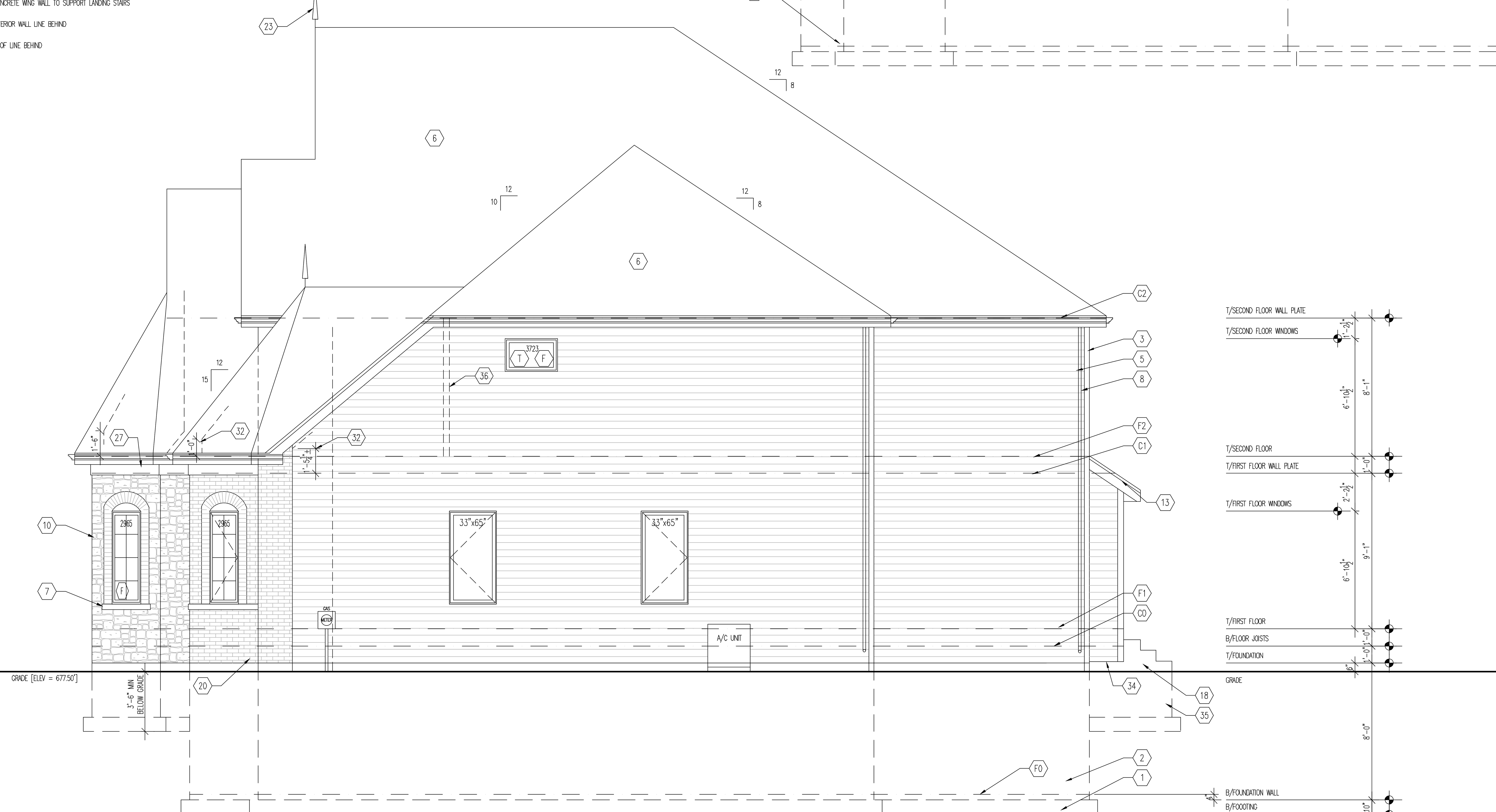
C0 BASEMENT CEILING LINE
C1 FIRST FLOOR CEILING LINE
C2 SECOND FLOOR CEILING LINE

EGRESS WINDOW NOTE:
EGRESS WINDOWS SHALL HAVE AT LEAST 5.7 S.F. OF CLEAR OPENING (EXCEPT GRADE LEVEL WINDOWS WHICH CAN HAVE 5.0 S.F) AND HAVE A MINIMUM CLEAR WIDTH OF 20" AND A MINIMUM CLEAR HEIGHT OF 24" AND THE TOP OF THE SILL CAN NOT BE ANY MORE THAN 44" ABOVE THE FLOOR. (SEE WINDOW SILL NOTE).

WINDOW SILL NOTE:
WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE THE FINISHED GRADE, THE LOWEST PART OF THE CLEAR OPENING SHALL BE AT LEAST 24" A.F.F. – ADJUST WINDOW HEIGHT AS REQUIRED.



C1 LEFT SIDE ELEVATION
1/4" = 1'-0"



A1 RIGHT SIDE ELEVATION
1/4" = 1'-0"

2009062-A1.20.DWG

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EXTERIOR ELEVATIONS-LEFT & RIGHT SIDE

DRAWN BY: EAO
CHECKED BY: MAB

PROJECT NUMBER: 2009062

SHEET NUMBER:
A1.20
OF 8 SHEETS

DESIGN CRITERIA NOTES:

1. DESIGN LOADS – MINIMUM UNIFORMED DISTRIBUTED LIVE LOADS (IRC TABLE R301.5)

AREA	LIVE LOAD (PSF)	DEAD LOAD (PSF)
FIRST FLOOR	40	10
SECOND FLOOR	40	10
SLEEPING AREAS	30	10
STAIRS	40	10
UNINHABITABLE ATTICS W/O STORAGE	10	10
UNINHABITABLE ATTICS W/LIMITED STORAGE	20	10
HABITABLE ATTICS/ATTICS WITH FIXED STAIR	30	10
EXTERIOR BALCONIES & DECKS	40	10
FIRE ESCAPES	40	10
GUARDRAILS & HANDRAILS	200	
GUARD IN-FILL COMPONENTS	50	
PASSENGER VEHICLE GARAGES	50	

2. ALLOWABLE DEFLECTIONS (IRC TABLE R301.7)

AREA	ALLOWABLE DEFLECTION
FLOOR JOISTS	L/360
CEILING JOISTS	L/240
ROOF RAFTERS (NO CEILING ATTACHED)	L/180
LINTELS SUPPORTING MASONRY	L/600

3. LUMBER DESIGN SPECIFICATIONS

SIZE	LENGTHS	SPECIES	GRADE	Fb	E x10^6
2x4	ALL	SPF	#2 OR BETTER	875	1.1
2x6	ALL	SPF	#2 OR BETTER	875	1.1
2x8	ALL	SPF	#2 OR BETTER	875	1.1
2x10	<20'	SPF	#2 OR BETTER	875	1.1
2X10	20' TO 32'	DOUG-FIR/HEM-FIR	#2 OR BETTER	875	1.3
2X12	<20'	SPF	#2 OR BETTER	875	1.1
2X12	20' TO 32'	DOUG-FIR/HEM-FIR	#2 OR BETTER	875	1.3
LVL BEAMS	ALL	BOISE-CASCADE	OR EQUAL	3,100	2.0
LVL POSTS	ALL	BOISE-CASCADE	OR EQUAL	2,750	1.8

4. FLOOR JOIST SPANS – 40 PSF LIVE / 10 PSF DEAD (FT-IN)

SPACING	SPECIES & GRADE	2x6	2x8	2x10	2x12
	DOUG-FIR #2	10-9	14-2	17-9	20-7
12"	HEM-FIR #2	10-0	13-2	16-10	20-4
	SPF #2	10-3	13-6	17-3	20-7
	DOUG-FIR #2	9-9	12-7	15-5	17-10
16"	HEM-FIR #2	9-1	12-0	15-2	17-7
	SPF #2	9-1	12-3	15-5	17-10

5. FLOOR JOIST SPANS – 30 PSF LIVE / 10 PSF DEAD (FT-IN)

SPACING	SPECIES & GRADE	2X6	2X8	2X10	2X12
	DOUG-FIR #2	11-10	15-7	19-10	23-0
12"	HEM-FIR #2	11-0	14-6	18-6	22-6
	SPF #2	11-3	14-11	19-0	23-0
	DOUG-FIR #2	10-9	12-1	19-11	19-11
16"	HEM-FIR #2	10-0	13-2	19-8	19-8
	SPF #2	10-3	13-6	19-11	19-11

6. CEILING JOIST SPANS – 20 PSF LIVE / 10 PSF DEAD (FT-IN)

SPACING	SPECIES & GRADE	2X4	2X6	2X8	2X10
	DOUG-FIR #2	9-10	15-0	19-1	23-3
12"	HEM-FIR #2	9-2	14-5	18-6	22-7
	SPF #2	9-5	14-9	18-9	22-11
	DOUG-FIR #2	8-11	13-0	16-6	20-2
16"	HEM-FIR #2	8-4	12-8	16-0	19-7
	SPF #2	8-7	12-10	16-3	19-10

7. ROOF RAFTERS SPANS – 30 PSF LIVE / 10 PSF DEAD (FT-IN)

SPACING	SPECIES & GRADE	2X4	2X6	2X8	2X10	2X12
	DOUG-FIR #2	8-7	13-6	17-8	21-7	25-1
12"	HEM-FIR #2	9-0	12-7	16-7	21-0	24-4
	SPF #2	8-3	12-11	17-0	21-4	24-8
	DOUG-FIR #2	7-10	12-1	15-4	18-9	21-8
16"	HEM-FIR #2	7-3	11-5	14-11	18-2	21-1
	SPF #2	7-6	11-9	15-1	18-5	21-5

8. TREATED DECK JOIST SPANS – 40 PSF LIVE / 10 PSF DEAD (FT-IN)

SPACING	SPECIES & GRADE	2X6	2X8	2X10	2X12
12"	SOUTHERN PINE	10-3	13-6	16-2	19-1
16"	SOUTHERN PINE	9-4	11-10	14-0	16-6

8. MORE
9.

GENERAL PLAN NOTES:

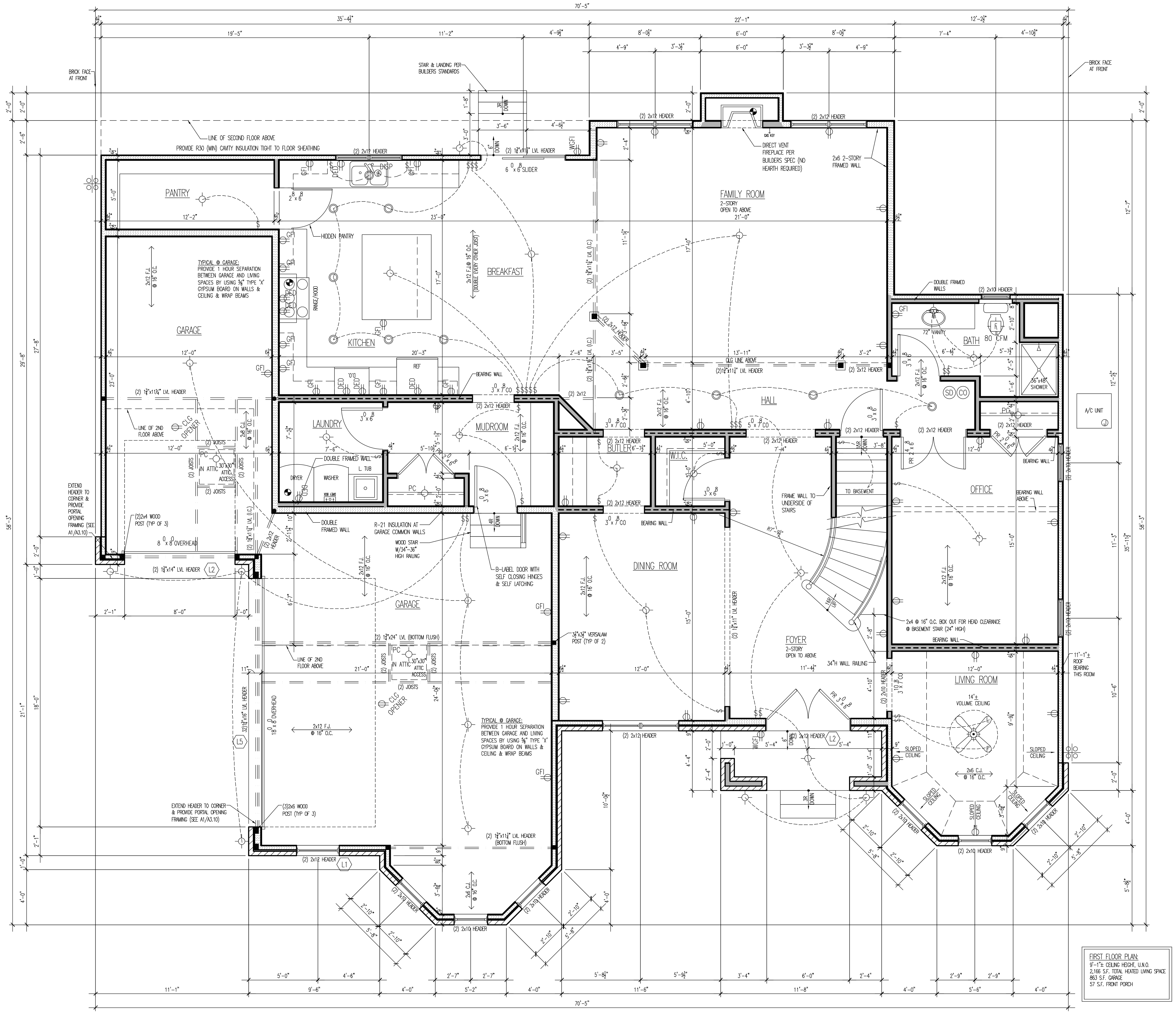
1. REFER TO ALL NOTES ON SHEET A0.10 FOR ADDITIONAL INFORMATION, INCLUDING:
   - 1.1. SECTION 1 FOR GENERAL REQUIREMENTS
   - 1.2. SECTION 2 & 3 FOR EXCAVATION NOTES AND CONCRETE NOTES
   - 1.3. SECTION 4 FOR MASONRY NOTES
   - 1.4. SECTION 5 FOR STEEL NOTES
   - 1.5. SECTION 6, 7, 8, & 9 FOR CARPENTRY, FIRE BLOCKING, MOISTURE CONTROL & DOOR-WINDOW NOTES.
   - 1.6. SECTION 10, 11, 12 & 13 FOR MECHANICAL, PLUMBING, ELECTRICAL & SMOKE/CO DETECTOR NOTES.
   - 1.7. SECTION 14 FOR IECC NOTES
   - 1.8. SECTION 15, 16 & 17 FOR ATTIC/CRAWL ACCESS, MISCELLANEOUS & FINISH NOTES.
   - 1.9. SECTION 18 FOR NAPERVILLE SPECIFIC NOTES.
2. SEE TYPICAL WALL SECTION(S) ON SHEET A3.10.
3. AN AUTOMATIC RESIDENTIAL SPRINKLER SYSTEM SHALL NOT BE REQUIRED FOR NEW CONSTRUCTION WHEN BOTH THE FOLLOWING APPLY: (1) THE UNDERSIDE OF ALL INTERIOR STAIRS ARE PROTECTED WITH AT LEAST ½" GYPSUM BOARD OR EQUAL. & (2) EACH ONE- & TWO-FAMILY DWELLING UNIT SHALL HAVE AT LEAST 2 MEANS OF EGRESS
4. PROVIDE PASSIVE RADON SYSTEM – SEE FOUNDATION PLAN.
5. ~~ALL JOIST/RAFTERS NOTED AS BCI ARE ENGINEERED I-JOIST BY BOISE-CASCADE AND ALL SIZING AND SPACING IS BASED ON MANUFACTURER'S RECOMMENDATIONS WITH A DEFLECTION OF L/480. PLEASE NOTE THAT A SERIES DESIGNATION IS ALSO PROVIDED AND THERE MAY BE MORE THAN ONE SERIES SPECIFIED. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. IF NO SERIES IS SPECIFIED, IT IS ASSUMED TO BE 6500S SERIES BCI.~~
6. FOR TYPICAL HEADERS, SEE DETAIL C4/A3.10.
7. FOR TYPICAL STAIRS, SEE DETAIL C1/A3.10.
8. FOR TYPICAL FRAMING, SEE DETAIL C4/A3.10
9. FOR ADVANCE FRAMING, SEE DETAIL C3/A3.10.
10. FOR NOTCHING OR DRILLING OF WALLS & JOISTS, SEE D3/A3.10, D4/A3.10 & D5/A3.10.
11. UNDER A BEARING WALL PARALLEL WITH THE FLOOR JOISTS PROVIDE DOUBLE JOISTS OR AS NOTED ON THE DRAWINGS. SEE DETAIL C5/A3.10.
12. SEE THIS SHEET FOR ALLOWABLE SPANS FOR JOISTS/RAFTER. ALL LUMBER IS ASSUMED TO BE SPECIES SPF #2 OR BETTER, UNLESS NOTED OTHERWISE.
13. JOIST HANGERS
   - 13.1. FOR SINGLE JOISTS TIED TO SIDE OF IN CONSTRUCTION BEAM OR DO NOT HAVE AT LEAST 1½" BEARING, USE SIMPSON STRONG-TIE JOIST HANGERS #LUS210 (18 GA) OR EQUAL, TYP., U.N.O.
   - 13.2. FOR DOUBLE JOISTS TIED TO SIDE OF IN CONSTRUCTION BEAM OR DO NOT HAVE AT LEAST 1½" BEARING, USE SIMPSON STRONG-TIE LUS210-2 (18 GA) OR EQUAL, TYP., U.N.O.
   - 13.3. FOR TRIPLE JOISTS TIED TO SIDE OF IN CONSTRUCTION BEAM, USE SIMPSON STRONG-TIE HGUS210-3 (12 GA) OR EQUAL, TYP., U.N.O.
14. BEAM BOLT NOTE (IF ANY): ½" DIA CARRIAGE BOLT (W/NUT, LOCK WASHER, WASHER) @ 16" O.C. x BEAM WIDTH + 2" STAGGERED TOP & BOTTOM W/BOLT @ TOP & BOTTOM @ EACH BEARING END (HOLD IN 2" @ EACH EDGE)
15. ADJUST JOIST SPACING AS REQUIRED FOR PLUMBING FIXTURES ABOVE
16. WALL BRACING METHOD NOTES:
   - 16.1. CONTINUOUS SHEATHING METHOD (CS-WSP) PER 2015 IRC.
   - 16.2. BWL IS ABBREVIATION FOR BRACED WALL LINE.
   - 16.3. BWP IS ABBREVIATION FOR BRACED WALL PANEL.
   - 16.4. FOR BWL 1, 3, 4, A, B & C AT LEAST 5.5 LF OF BRACED WALL PROVIDED.
   - 16.5. FOR BWL 2 USE GYPSUM BOARD METHOD AND AT LEAST 11.5 LF OF BRACED WALL PROVIDED.
   - 16.6. BRACED WALL PANEL (BWP) SHALL BEGIN WITHIN 10' OF EACH END BRACED WALL LINE AND DISTANCE BETWEEN ADJACENT EDGES ALONG A BRACED WALL LINE SHALL BE NO GREATER THAN 20'
   - 16.7. BWP DIMENSION SHOWN WITH LENGTH OF BWP IN THAT LOCATION.
   - 16.8. BWP OF WOOD STRUCTURAL PANELS SHALL BE 7/16" MINIMUM WOOD STRUCTURAL PANELS NAILED TO 16" O.C. WOOD STUDS WITH 8D COMMON NAILS AT 6" O.C. AT EDGE AND 12" O.C. AT THE FIELD AREA.
   - 16.9. GB-BWP OF INTERIOR GYPSUM BOARD SHALL BE ½" MINIIMUM GYPSUM BOARD PANELS SCREWED TO 16" O.C. WOOD STUDS WITH 13 GAGE, 1⅝" LONG, 19/64" HEAD, 0.098: DIAMETER DRYWALL SCREWS AT 7" O.C. AT EDGES AND AT FIELD AREAS.
17.

BRICK OR STONE LINTELS

TAG	SPAN	LINTEL SIZE
L1	6'0" OR LESS	3" x 3" x ¼" STEEL ANGLE
L2	8'0" OR LESS	4" x 3" x ¼" STEEL ANGLE
L3	10'0" OR LESS	5" x 3½" x 5/16" STEEL ANGLE
L4	14'0" OR LESS	6" x 3 ½" x 5/16" STEEL ANGLE
L5	18'0" OR LESS	2-6" x 3 ½" x 5/16" STEEL ANGLE (RUN STEEL ANGLE IN 2 ROWS)

GENERAL LINTEL NOTES:
1. LONG LEG OF LINTEL SHALL ALWAYS BE RUN VERTICALLY, U.N.O.
2. LINTELS SHALL HAVE A BEARING LENGTH OF 8" MINIMUM.
3. LINTELS SHALL HAVE A SHOP COATED RUST-INHIBITIVE PAINT

LINTEL SCHEDULE 2019-04



FIRST FLOOR PLAN:
9'-1"± CEILING HEIGHT, U.N.O.
2,166 S.F. TOTAL HEATED LIVING SPACE
863 S.F. GARAGE
57 S.F. FRONT PORCH

A3 FIRST FLOOR PLAN
1/4" = 1'-0"

2009062-A2.10.DWG

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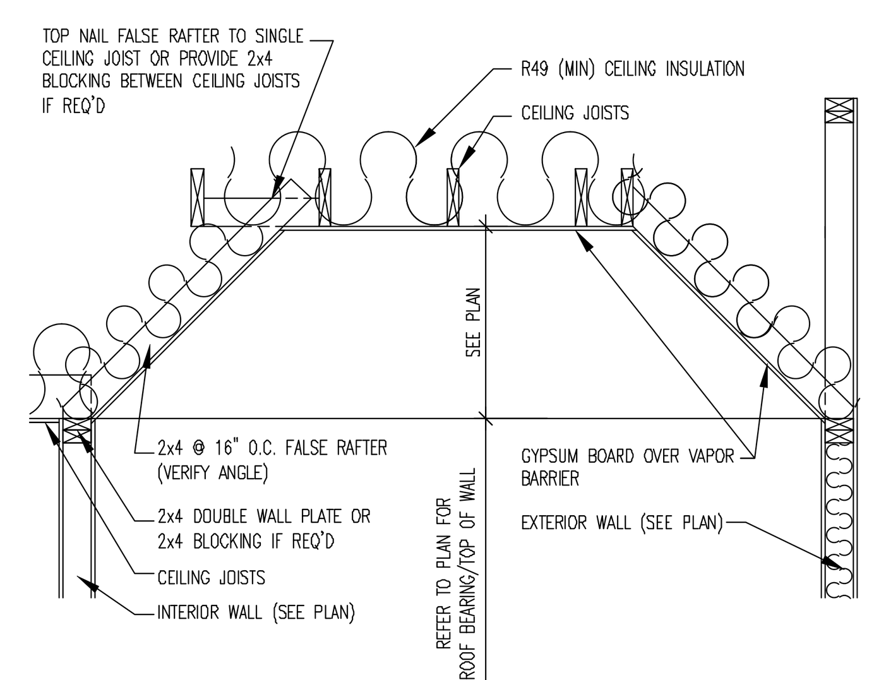
FIRST FLOOR PLAN

DRAWN BY: EAO
CHECKED BY: MAB

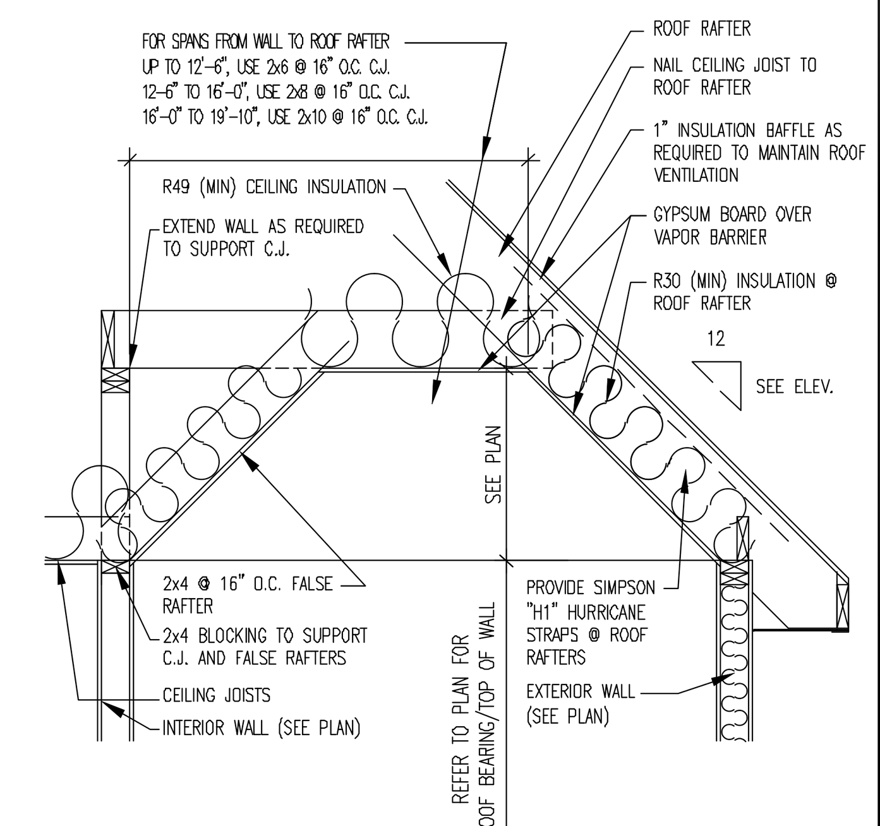
PROJECT NUMBER: 2009062

SHEET NUMBER: A2.10

OF 8 SHEETS

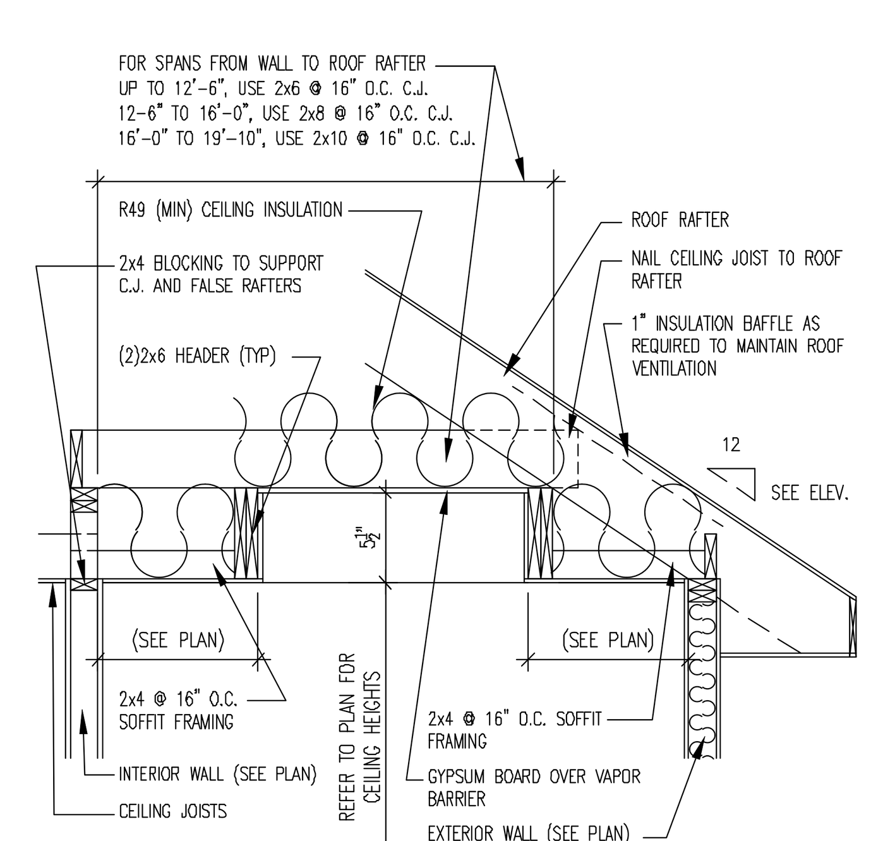


D1 CEILING DETAIL
1/2" = 1'-0"



C1 CEILING DETAIL
1/2" = 1'-0"

B1 CEILING DETAIL
1/2" = 1'-0"



A1 CEILING DETAIL
1/2" = 1'-0"

GENERAL PLAN NOTES:

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   - 1.8. SECTION 15, 16 & 17 FOR ATTIC/CRAWL ACCESS, MISCELLANEOUS & FINISH NOTES.
   - 1.9. SECTION 18 FOR NAPERVILLE SPECIFIC NOTES.
2. SEE GENERAL PLAN NOTES ON FIRST FLOOR SHEET FOR ADDITIONAL INFORMATION.

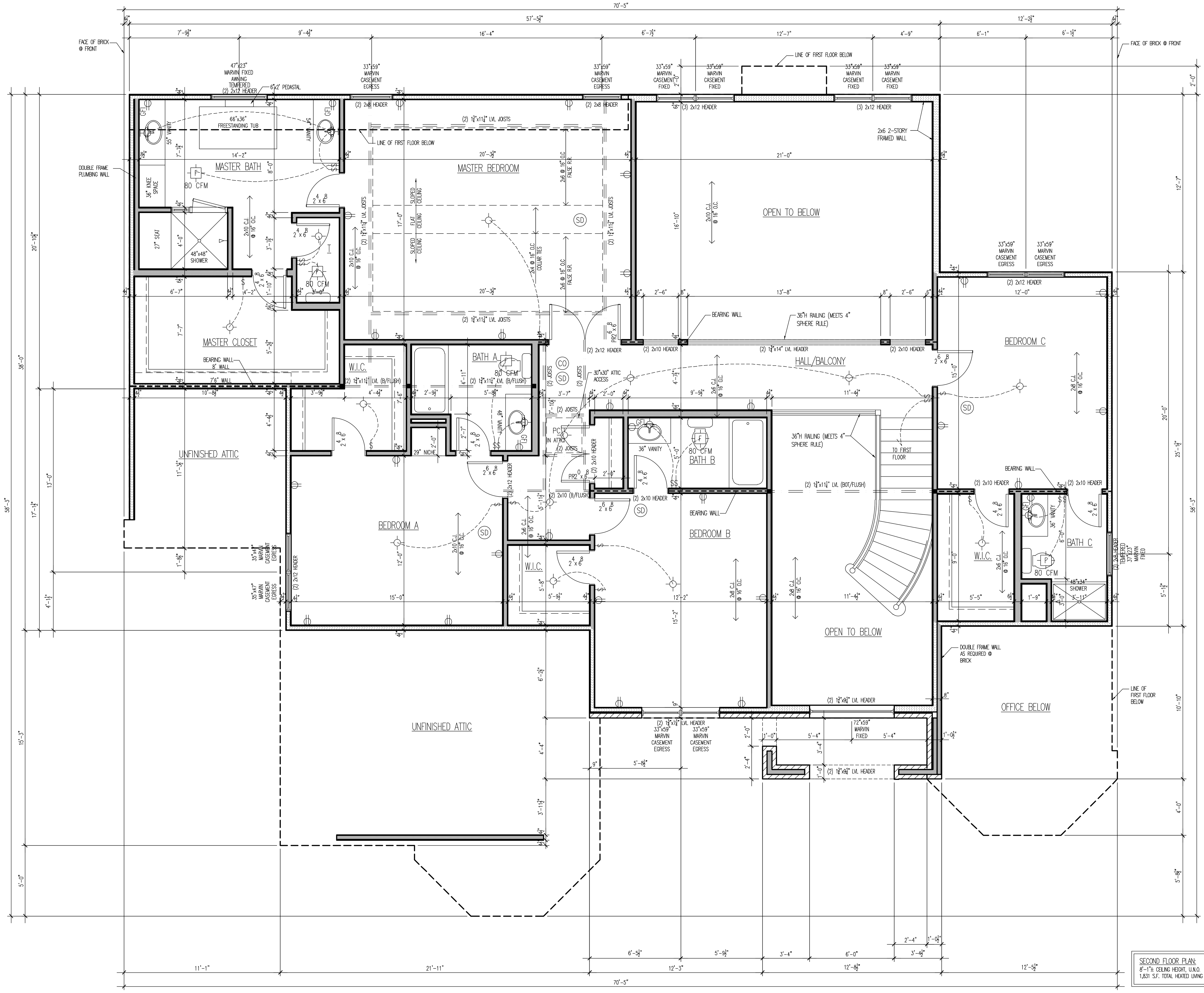
LIGHT/VENT SCHEDULE

8% NATURAL LIGHT
4% NATURAL VENT

ROOM NAME	AREA(s.f.)	LIGHT		VENT	
		REQ'D	ACT	REQ'D	ACT
FIRST FLOOR:					
LIVING ROOM	152	12.2	48.6	6.1	25.9
DINING ROOM	195	15.6	37.1	7.8	25.9
STUDY	176	14.1	23.0	7.1	24.2
FAMILY ROOM	340	27.2	147.4	13.6	28.1
KITCHEN/BREAK/SUN RM	603	48.3	103.3	24.2	107.7
SECOND FLOOR:					
MASTER BEDROOM	346	27.7	17.9**	13.9	18.9
BEDROOM A	176	14.1	23.0	7.1	24.2
BEDROOM B	165	13.2	23.0	6.6	24.2
BEDROOM C	215	17.2	13.2**	8.6	14.1

* PROVIDE AN APPROVED MECHANICAL VENTILATION SYSTEM CAPABLE OF PRODUCING 0.35 AIR CHANGES PER HOUR IN THIS ROOM OR A WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM CAPABLE OF SUPPLYING OUTDOOR VENTILATION AIR OF 15 CFM PER OCCUPANT COMPUTED ON THE BASIS OF 2 OCCUPANTS FOR THE FIRST BEDROOM AND 1 OCCUPANT FOR EACH ADDITIONAL BEDROOM.

** PROVIDE ARTIFICIAL LIGHTING CAPABLE OF PRODUCING AN AVERAGE OF 6 FOOTCANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30" ABOVE THE FLOOR LEVEL.



A3 SECOND FLOOR PLAN
1/4" = 1'-0"

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SECOND FLOOR PLAN

DRAWN BY:
EAO
CHECKED BY:
MAB

PROJECT NUMBER:
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SHEET NUMBER:
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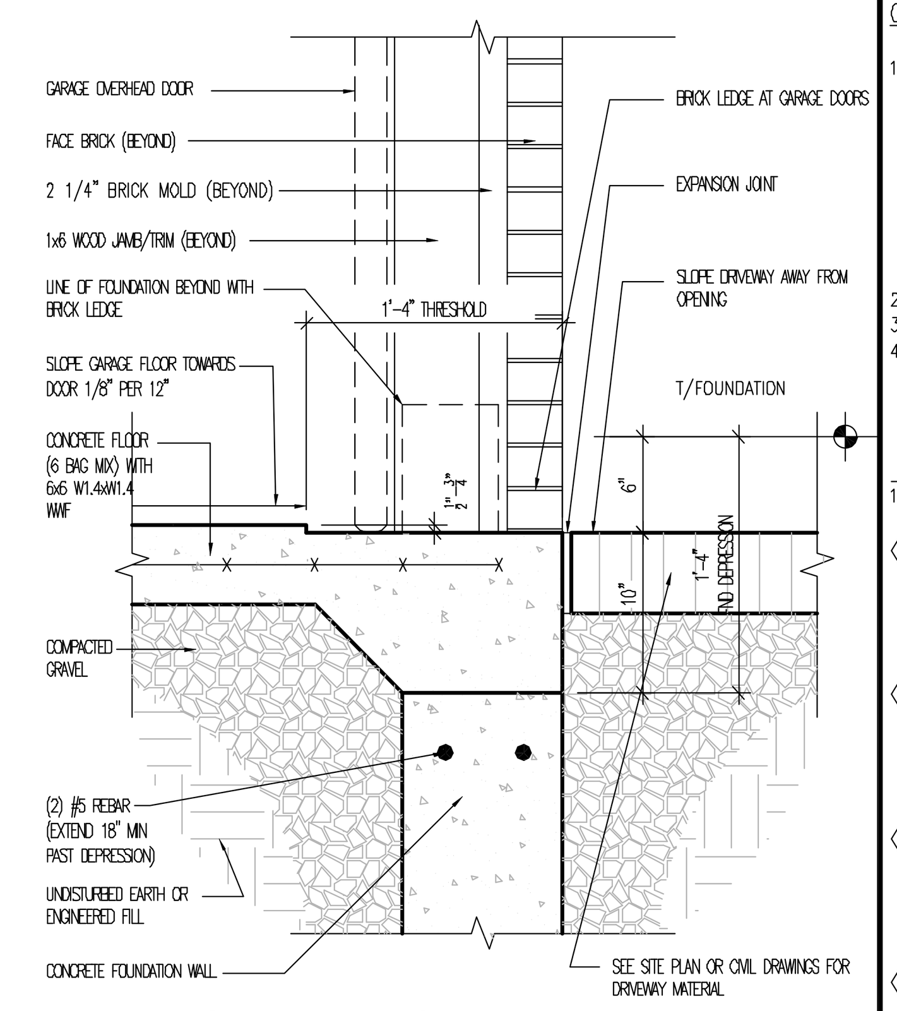
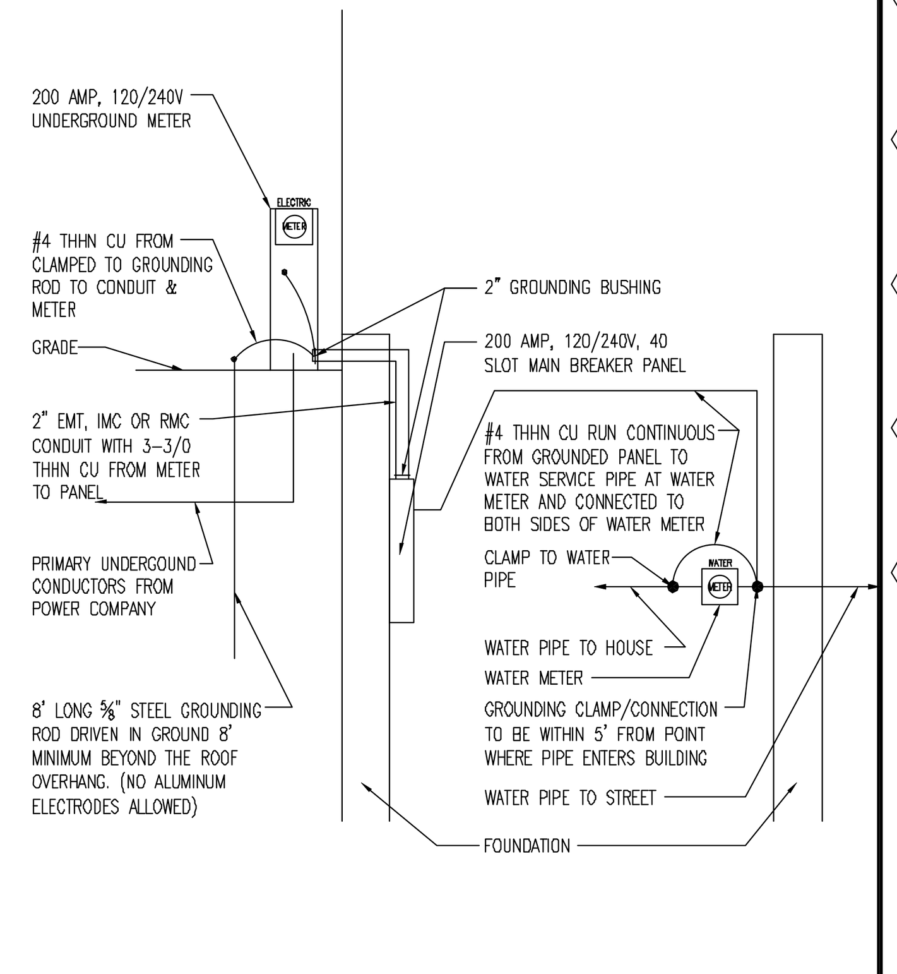
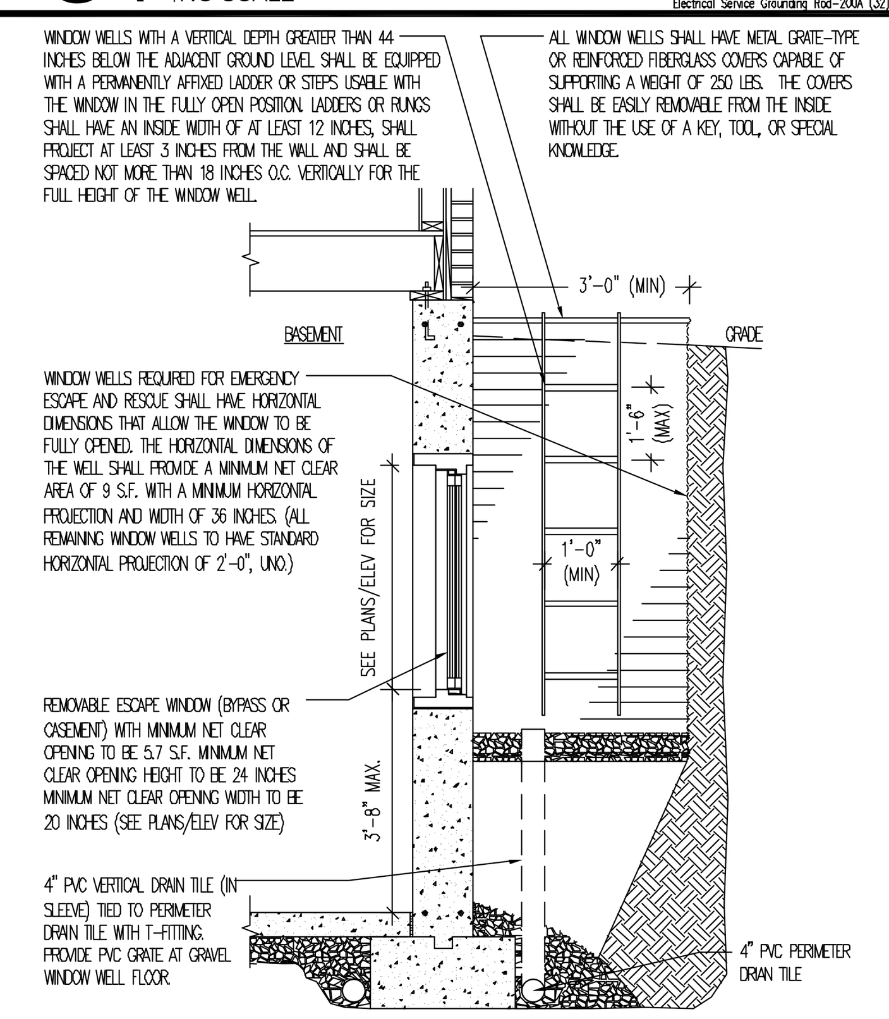
OF 8 SHEETS



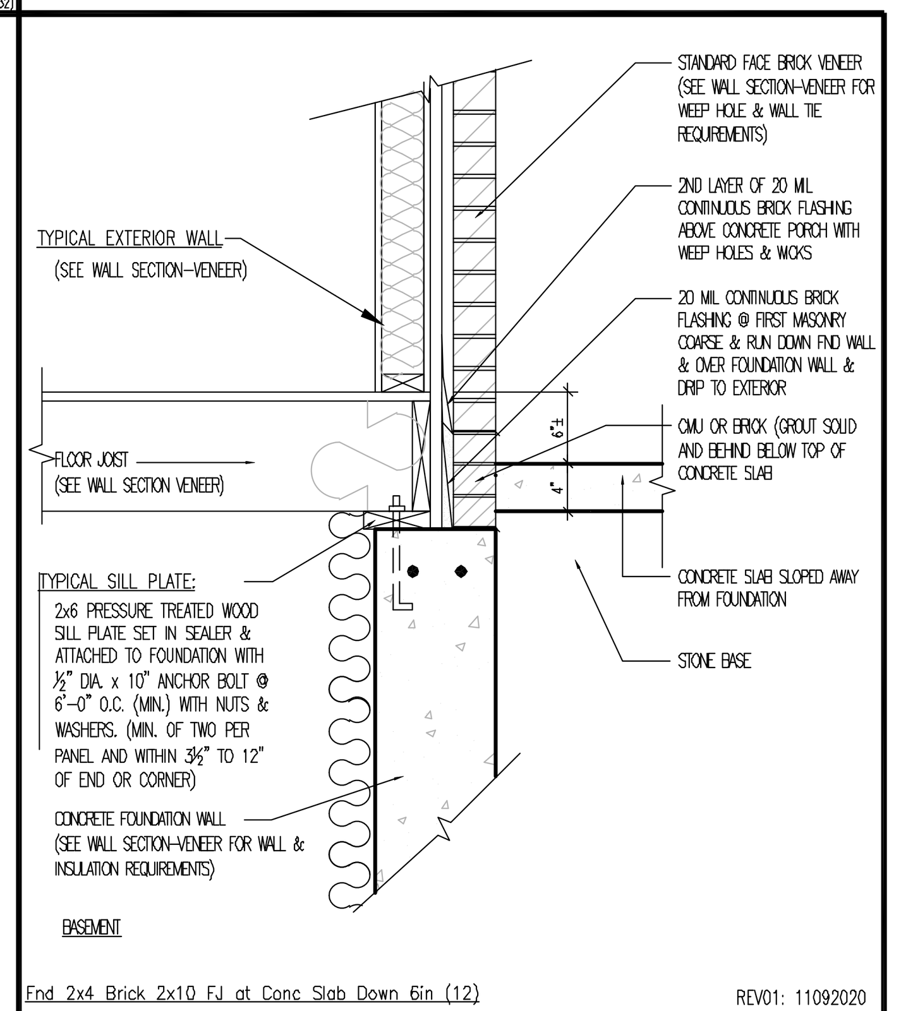
D1 FOUNDATION DETAIL
1" = 1'-0"



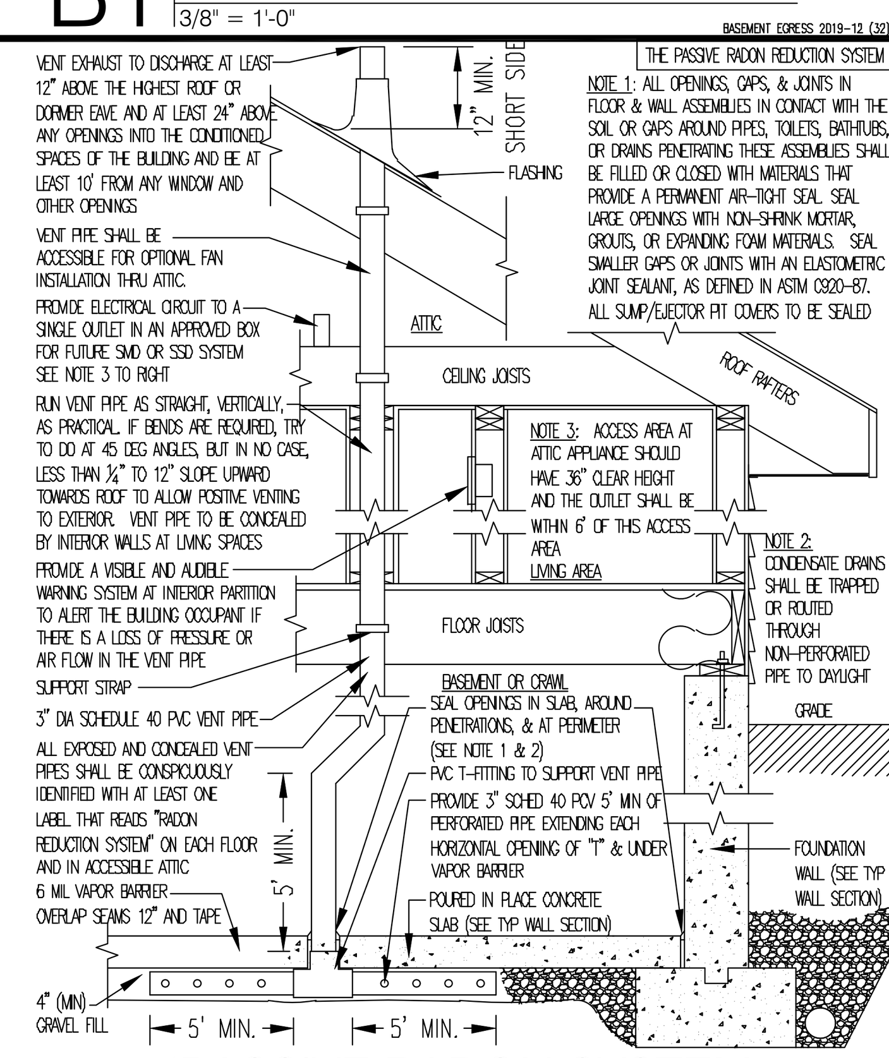
C1 ELECTRIC GROUNDING
NO SCALE



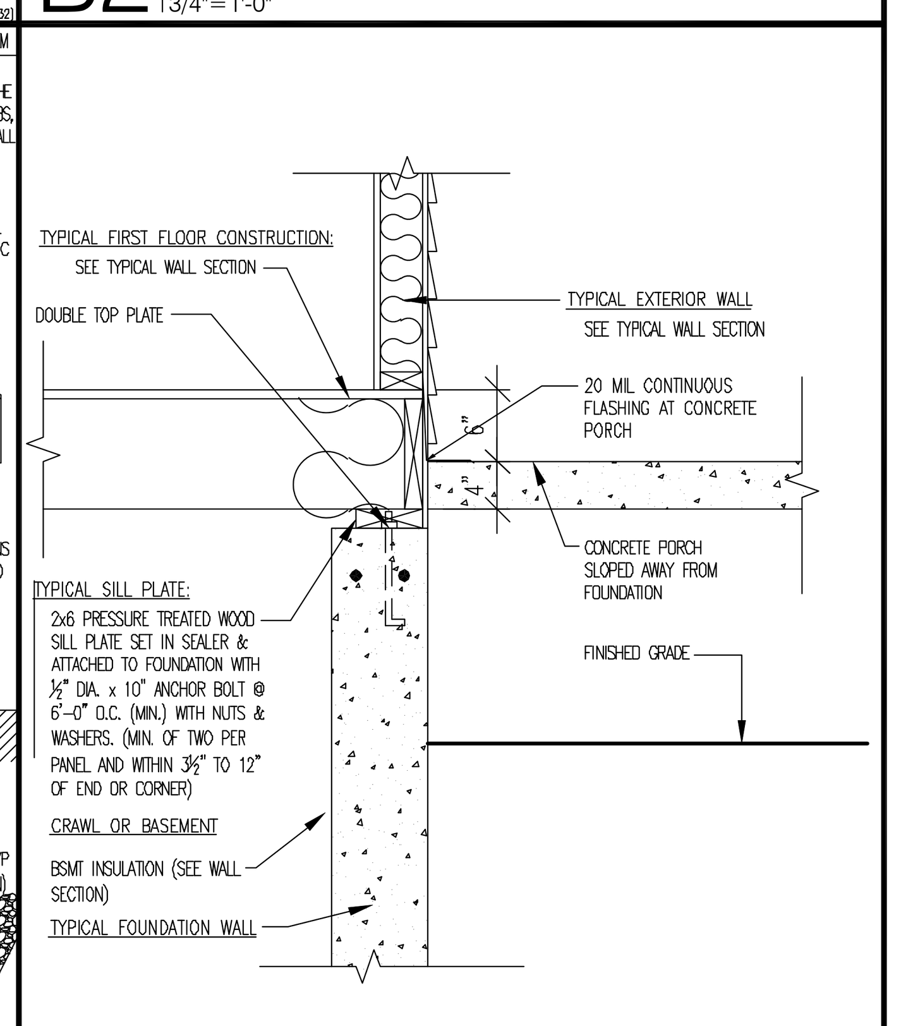
B1 BASEMENT EGRESS
3/8" = 1'-0"



B2 PORCH DETAIL
3/4"=1'-0"



A1 PASSIVE RADON SYSTEM
NO SCALE



A2 PORCH DETAIL
3/4"=1'-0"

GENERAL FOUNDATION PLAN NOTES:

1. ALL CONTRACTORS TO REFER TO ALL NOTES ON SHEET A0.10 FOR ADDITIONAL INFORMATION.
   - 1.1. SECTION 1 FOR GENERAL REQUIREMENTS
   - 1.2. SECTION 2 & 3 FOR EXCAVATION NOTES AND CONCRETE NOTES
   - 1.3. SECTION 4 FOR MASONRY NOTES
   - 1.4. SECTION 5 FOR STEEL NOTES
   - 1.5. SECTION 6, 7, 8, & 9 FOR CARPENTRY, FIRE BLOCKING, MOISTURE CONTROL & DOOR-WINDOW NOTES.
   - 1.6. SECTION 10, 11, 12 & 13 FOR MECHANICAL, PLUMBING, ELECTRICAL & SMOKE/CO DETECTOR NOTES.
   - 1.7. SECTION 14 FOR IECC NOTES
   - 1.8. SECTION 15, 16 & 17 FOR ATTIC/CRAWL ACCESS, MISCELLANEOUS & FINISH NOTES.
   - 1.9. SECTION 18 FOR NAPERVILLE SPECIFIC NOTES.
2. FOR BASEMENT EGRESS WINDOWS – SEE DETAIL B1/A2.30.
3. PROVIDE PASSIVE RADON SYSTEM – SEE DETAIL A1/A2.30
4. ALL STRUCTURAL STEEL COLUMNS TO BE 3 1/2" DIA. CONCRETE FILLED PIPE COLUMNS WITH STEEL BEARING PLATES TOP AND BOTTOM. TOP PLATES TO BE BOLT CONNECTED TO BEAM ABOVE AND BOTTOM PLATE TO BE "REDHEAD" ANCHORED INTO CONCRETE FOOTING. BASEMENT FLOOR SLAB TO PROVIDE FINAL ANCHORING.

FOUNDATION KEYNOTES:

1. SOIL BEARING CAPACITY ASSUMED TO BE 3,000 PSF.

C1 3½" DIA CONCRETE FILLED COLUMN ON STEEL LEVELING PLATES ON 36"x36"x12" CONCRETE FOOTING WITH (4) #4 REBAR (EQUALLY SPACED) EACH WAY (SEE DETAIL A4/A3.10)
ACTUAL LOADS = 17.6 KIPS MAX. CAPACITY = 27.0 KIPS

C2 3½" DIA CONCRETE FILLED COLUMN ON STEEL LEVELING PLATES ON 36"x36"x12" CONCRETE FOOTING WITH (4) #4 REBAR (EQUALLY SPACED) EACH WAY (SEE DETAIL A4/A3.10)
ACTUAL LOADS = 8.8 KIPS MAX. CAPACITY = 27.0 KIPS

C3 3½" DIA CONCRETE FILLED COLUMN ON STEEL LEVELING PLATES ON 36"x36"x12" CONCRETE FOOTING WITH (4) #4 REBAR (EQUALLY SPACED) EACH WAY (SEE DETAIL A4/A3.10)
ACTUAL LOADS = 6.2 KIPS MAX. CAPACITY = 27.0 KIPS

C4 3½" DIA CONCRETE FILLED COLUMN ON STEEL LEVELING PLATES ON 36"x36"x12" CONCRETE FOOTING WITH (4) #4 REBAR (EQUALLY SPACED) EACH WAY (SEE DETAIL A4/A3.10)
ACTUAL LOADS = 12.4 KIPS MAX. CAPACITY = 27.0 KIPS

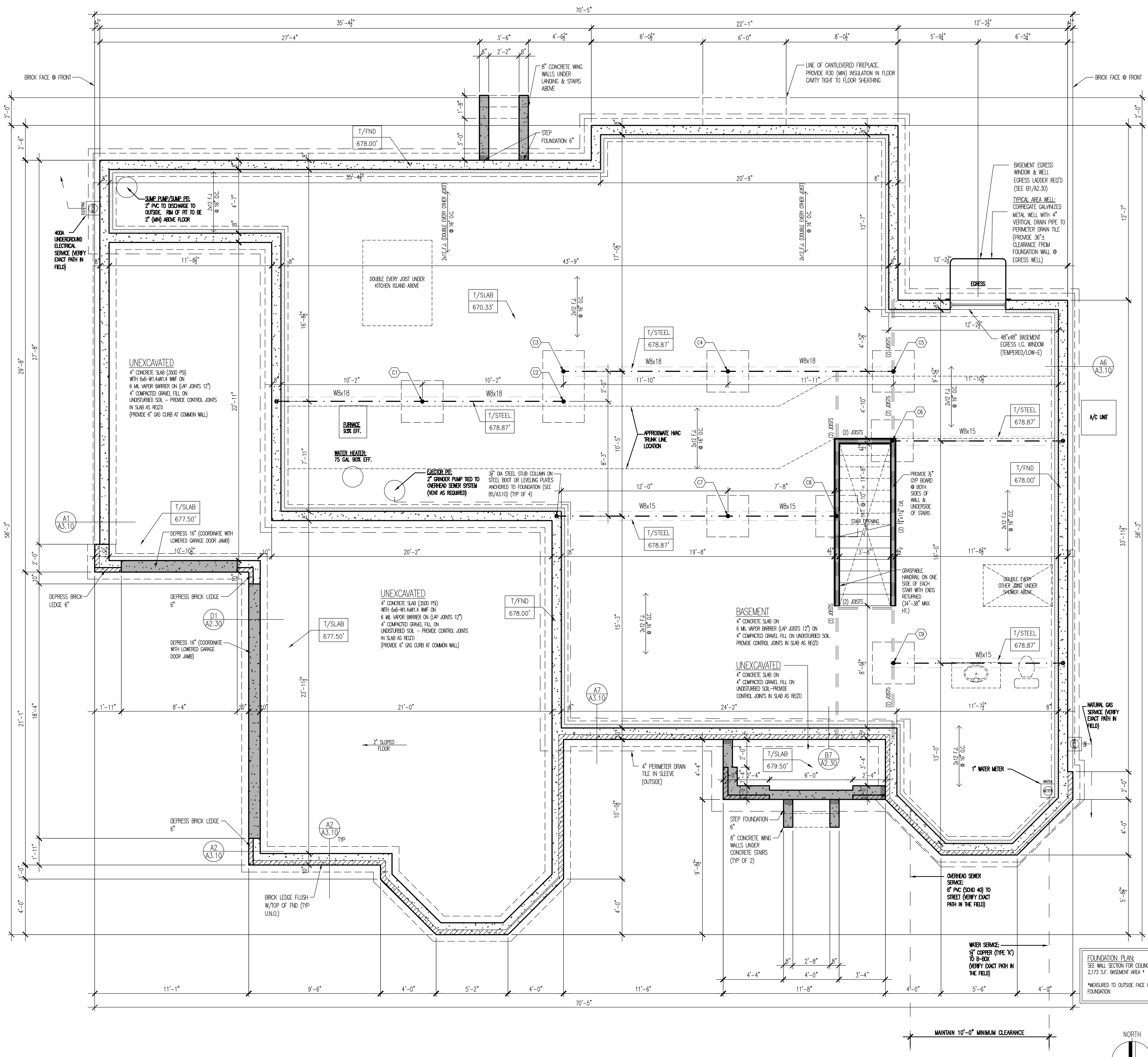
C5 3½" DIA CONCRETE FILLED COLUMN ON STEEL LEVELING PLATES ON 36"x36"x12" CONCRETE FOOTING WITH (4) #4 REBAR (EQUALLY SPACED) EACH WAY (SEE DETAIL A4/A3.10)
ACTUAL LOADS = 6.4 KIPS MAX. CAPACITY = 27.0 KIPS

C6 3½" DIA CONCRETE FILLED COLUMN ON STEEL LEVELING PLATES ON 36"x36"x12" CONCRETE FOOTING WITH (4) #4 REBAR (EQUALLY SPACED) EACH WAY (SEE DETAIL A4/A3.10)
ACTUAL LOADS = 6.2 KIPS MAX. CAPACITY = 27.0 KIPS

C7 3½" DIA CONCRETE FILLED COLUMN ON STEEL LEVELING PLATES ON 36"x36"x12" CONCRETE FOOTING WITH (4) #4 REBAR (EQUALLY SPACED) EACH WAY (SEE DETAIL A4/A3.10)
ACTUAL LOADS = 9.6 KIPS MAX. CAPACITY = 27.0 KIPS

C8 3½" DIA CONCRETE FILLED COLUMN ON STEEL LEVELING PLATES ON 36"x36"x12" CONCRETE FOOTING WITH (4) #4 REBAR (EQUALLY SPACED) EACH WAY (SEE DETAIL A4/A3.10)
ACTUAL LOADS = 3.8 KIPS MAX. CAPACITY = 27.0 KIPS

C9 3½" DIA CONCRETE FILLED COLUMN ON STEEL LEVELING PLATES ON 36"x36"x12" CONCRETE FOOTING WITH (4) #4 REBAR (EQUALLY SPACED) EACH WAY (SEE DETAIL A4/A3.10)
ACTUAL LOADS = 6.4 KIPS MAX. CAPACITY = 27.0 KIPS



A3 FOUNDATION PLAN
1/4" = 1'-0"

2009062-A2.30.DWG

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BUILDER
King's Court Builders
the confidence builder

Seal
LICENSED ARCHITECT
MICHAEL A. BUHR
001-015688
STATE OF ILLINOIS

11-09-2020 | 11-30-2022
DATED | EXPIRES

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for
Kings Court Builders
P.O. Box 5070 Naperville, IL. 60567-5070

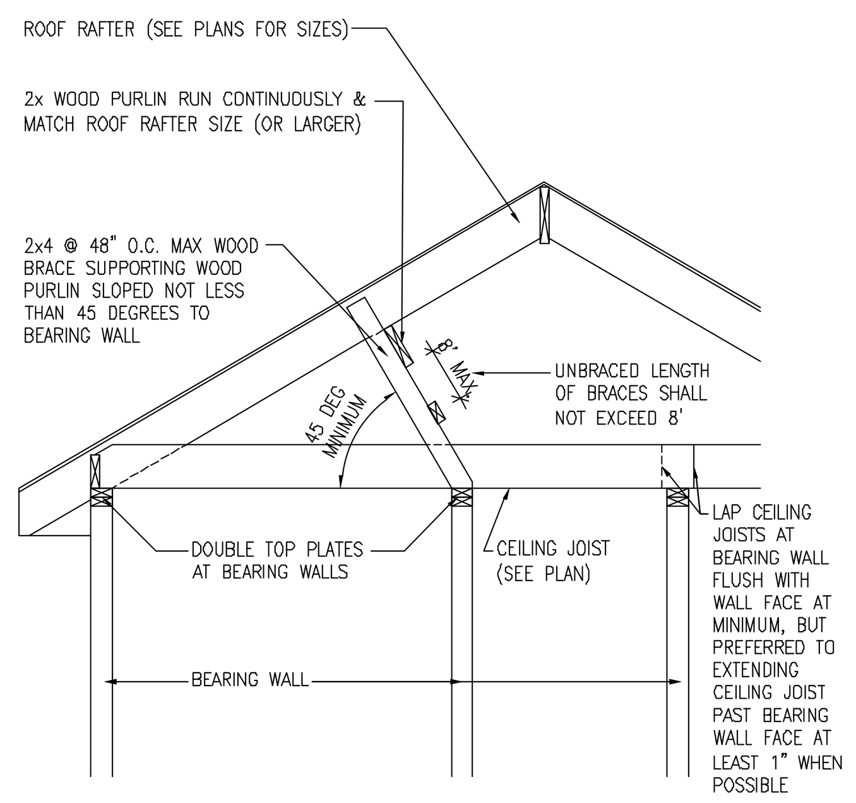
FOUNDATION PLAN

DRAWN BY: EAO
CHECKED BY: MAB

PROJECT NUMBER: 2009062

SHEET NUMBER: A2.30
OF 8 SHEETS

GENERAL ROOF PLAN NOTES:
1. REFER TO ALL NOTES ON SHEET A0.10 FOR ADDITIONAL INFORMATION.
   1.1. SECTION 1 FOR GENERAL REQUIREMENTS
   1.2. SECTION 2 & 3 FOR EXCAVATION NOTES AND CONCRETE NOTES
   1.3. SECTION 4 FOR MASONRY NOTES
   1.4. SECTION 5 FOR STEEL NOTES
   1.5. SECTION 6, 7, 8, & 9 FOR CARPENTRY, FIRE BLOCKING, MOISTURE CONTROL & DOOR-WINDOW NOTES.
   1.6. SECTION 10, 11, 12 & 13 FOR MECHANICAL, PLUMBING, ELECTRICAL & SMOKE/CO DETECTOR NOTES.
   1.7. SECTION 14 FOR IECC NOTES
   1.8. SECTION 15, 16 & 17 FOR ATTIC/CRAWL ACCESS, MISCELLANEOUS & FINISH NOTES.
   1.9. SECTION 18 FOR NAPERVILLE SPECIFIC NOTES.
2. ICE & WATER SHIELD NOTE: PROVIDE ICE & WATER SHIELD AT EAVES ALL TO POINT THAT IS 24" FROM INSIDE OF HEATED WALL LINE, AT ALL VALLEYS RUN 18" EACH WAY AND AT ALL LOW SLOPED ROOFS (LESS THAN 4:12) AND AT ALL WALL ROOF INTERSECTIONS UNDER FLASHING (RUN 18" EACH WAY)
3. ATTIC VENTILATION NOTE: INSULATION SHALL NOT BLOCK THE FREE FLOW OF AIR FROM THE EAVE INTO THE ATTIC. FOR AIR IMPERMEABLE INSULATIONS IN VENTED ATTICS, A BAFFLE MUST BE INSTALLED BETWEEN EACH RAFTER ALONG THE SIDE AND OVER THE INSULATION
4. FRAMING NOTE: ROOF CONTAINS DIFFERENT SIZE RAFTERS, CONTRACTOR CAN ADJUST BEARING HEIGHT BY ADDED WOOD PLATES OR INCREASING RAFTER HEEL CUT OR COMBINATION OF BOTH TO KEEP EAVE FACE IN LINE. CONTRACTOR HAS OPTION TO UPSIZE ALL RAFTERS TO THE SAME SIZE
5. PURLIN NOTE: PURLIN SHALL MATCH ROOF RAFTER SIZE IT SUPPORTS & SHALL BE CONTINOUS AND SUPPORTED BY 2x4@48" OC BRACES ANGLED DOWN NO LESS THAN 45' FROM HORIZONTAL TO BEARING WALLS. PROVIDE 2x6 HORIZONTAL BRACING ON 2x4@8'-0" OC MAX. SEE PURLIN DETAIL THIS SHEET.
6. SIMPSON H2.5 HURRICANE TIE-DOWNS AT 48" O.C. MIN TO BE PROVIDED PER IRC. H2.5 CLIPS TO BE PROVIDED AT ALL CATHEDRAL RAFTERS, TRAY CEILING RAFTERS, BARREL VAULT RAFTERS, AS WELL AS ANY RAFTERS ATTACHED WITH LOOKOUTS.
7. PROVIDE FLASHING AT ALL WALL AND ROOF INTERSECTIONS WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS.
8. ROOF VENTS TO BE LOCATED ON BACK SLOPE OF ROOF. NUMBER AND LOCATIONS SHALL BE BASED ON 1/300 TOTAL AREA OF VENTS PER IRC.



D1 PURLIN DETAIL
N.T.S.

FRAMING-PURLIN DETAIL (32)

ROOF VENTILATION CALCULATIONS				
ROOF AREA DESCRIPTION:		MAIN ROOF		
TOTAL AREA OF ROOF:		3,489 SF		
TOTAL REQUIRED FREE AREA @ 1:300 (= AREA/300):		11.63 SF		
RIDGE - FREE AREA REQUIRED (REQ'D FREE AREA/2):		5.82 SF		
RIDGE - ACTUAL FREE AREA (SEE CALCS BELOW):		5.90 SF		
CONT. RIDGE VENT (L.F. OF RIDGE):		0 LF		
CONT. RIDGE VENT FREE AREA:	(LF x 12.5 Sq.In./LF)/144	0 SF		
ROOF VENT (NUMBER @ RIDGE):		17		
ROOF VENT FREE AREA:	(# x 50 Sq.In./EA)/144	5.90 SF		
LARGE ROOF VENT (NUMBER @ RIDGE):		0		
LARGE ROOF VENT FREE AREA:	(LF x 144 Sq.In./LF)/144	0 SF		
EAVE - FREE AREA REQUIRED (REQ'D FREE AREA/2):		5.82 SF		
EAVE - ACTUAL FREE AREA (SEE CALCS BELOW):		10.44 SF		
PERFORATED PANEL (L.F. OF EAVE):		167' LF		
PERFORATED PANEL FREE AREA:	(LF x 9 Sq.In./LF)/144	10.44 SF		
CONTINUOUS VENT (L.F. OF EAVE):		0.0 LF		
CONTINUOUS VENT FREE AREA:	(LF x 9.0 Sq.In./LF)/144	0.0 SF		
DOES VENTILATION MEET OR EXCEED MIN REQ'TS:		YES		

PERFORATED PANELS @ EAVE ASSUMES: 9 SQ IN / L.F.
CONTINUOUS VENT @ EAVE ASSUMES 9 SQ. IN. / L.F.
CONT. RIDGE VENT @ RIDGE ASSUMES 12.5 SQ. IN. / L.F.
ROOF VENT @ RIDGE ASSUMES 50 SQ. IN. / EACH
LARGE ROOF VENT @ RIDGE ASSUMES 144 SQ. IN. / EACH

------ COPPER HOT WATER PIPE
——— COPPER COLD WATER PIPE

SEE PLUMBING SECTION ON SHEET A0.10 FOR ADDITION INFORMATION

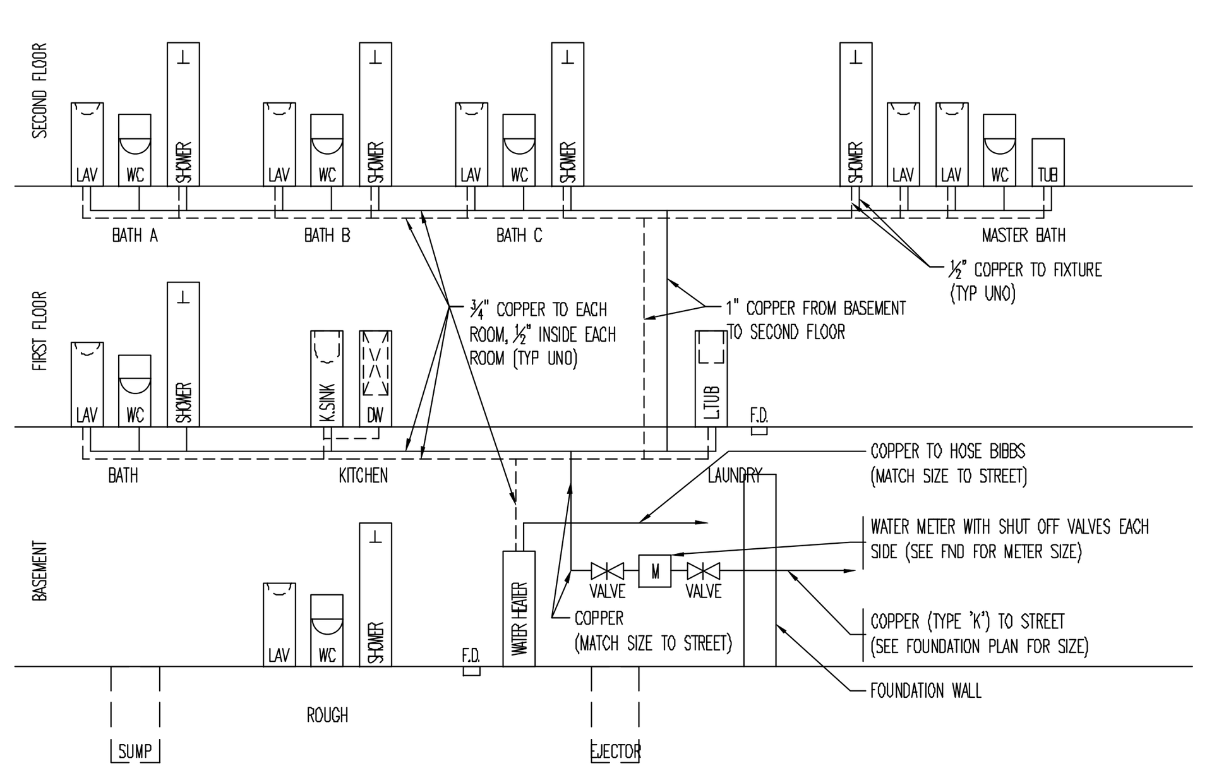
PLUMBING FIXTURE COUNTS:

QTY EXIST	QTY NEW	FIXTURE TYPE	UNIT	TOTAL
	0	WATER CLOSET (FLUSH VALVE)	10	
	6	WATER CLOSET (FLUSH TANK)	3	18
	7	LAVATORY - FAUCET	1	7
	3	BATHTUB - FAUCET	2	6
	4	SHOWER - MIXING VALVE	2	8
	1	KITCHEN SINK - FAUCET	2	2
	1	LAUNDRY TRAYS - FAUCET	3	3
	1	DISHWASHER - AUTOMATIC	1	1
	1	LAUNDRY MACHINE - AUTOMATIC	2	2
	22	TOTALS	-	47

	PIPE SIZE	METER SIZE	
REQUIRED SIZE	1¼"	1"	
SIZE PROVIDED	1½"	1"	<- USE THIS

ALLOWABLE FIXTURE UNITES FOR PIPE SIZE & METER SIZE

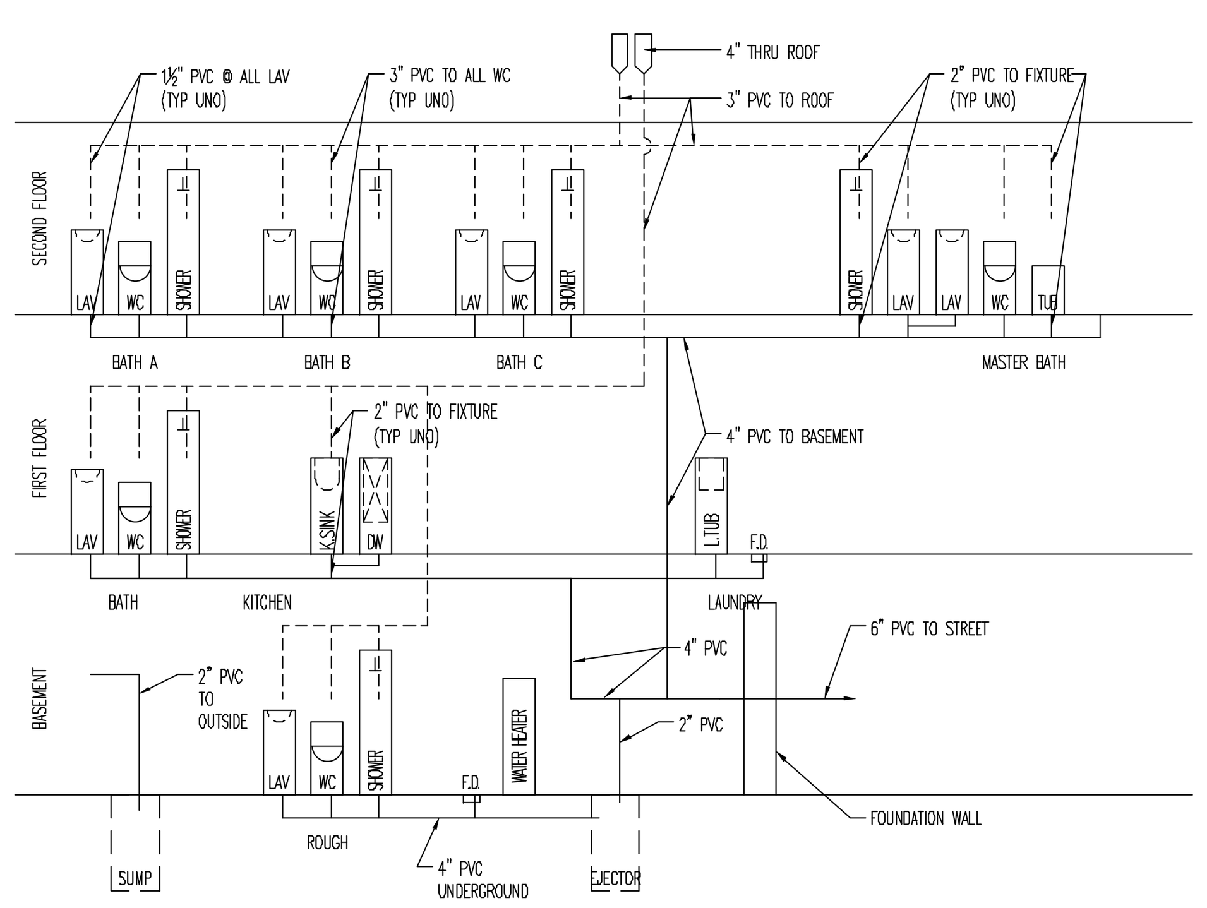
WSFU	PIPE SIZE	METER SIZE
16 WSFU	¾"	¾"
25 WSFU	1"	¾"
30 WSFU	1"	1"
50 WSFU	1¼"	1"
90 WSFU	1½"	1½"
100 WSFU	1½"	2"
225 WSFU	2"	2"



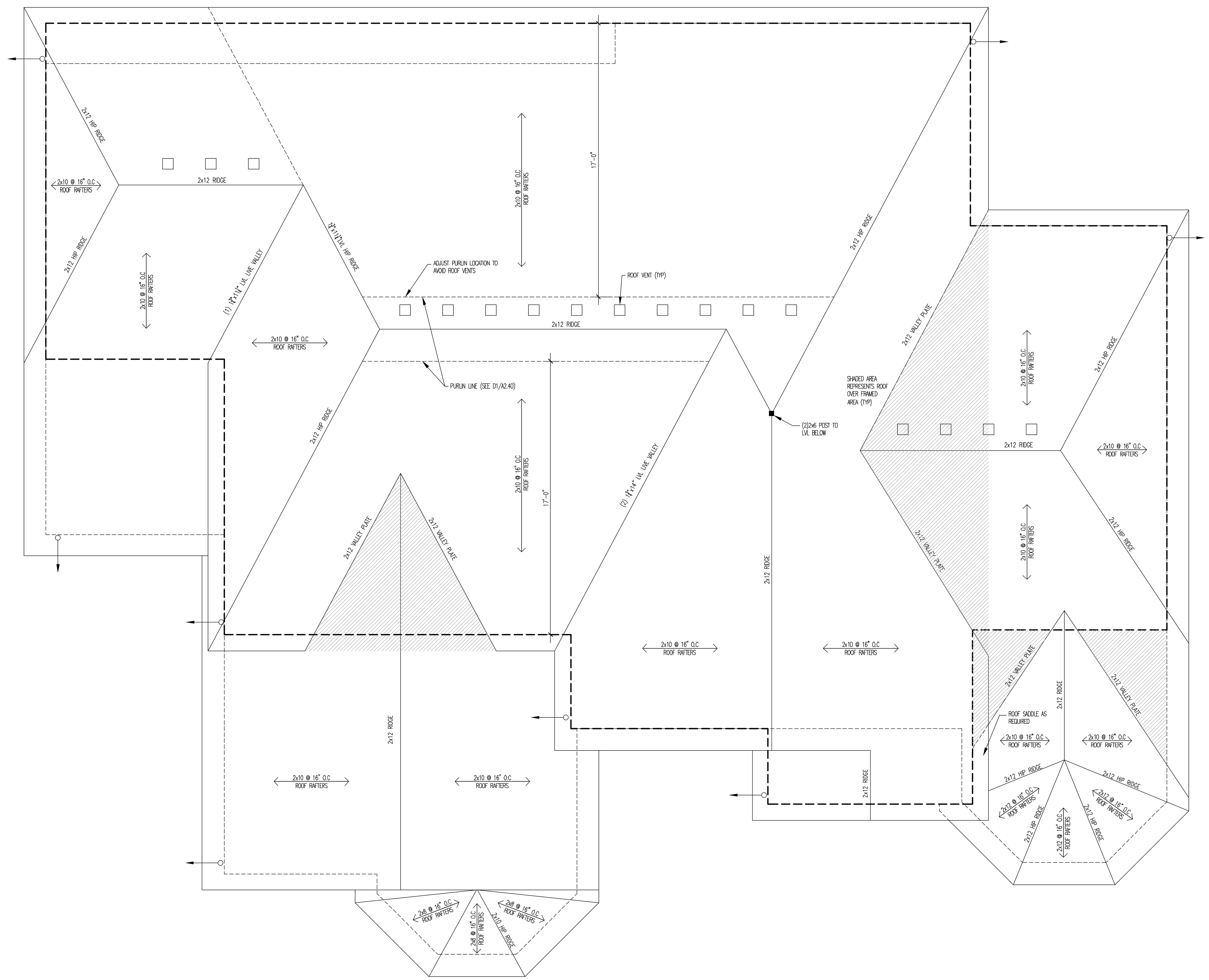
B1 RISER DIAGRAM - WATER & PLUMBING FIXTURE UNITS
NO SCALE

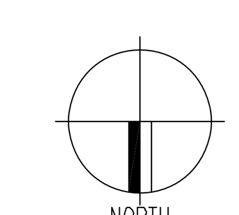
------ PVC (SCH3 40) VENT PIPE
——— PVC (SCH3 40) WASTE PIPE

SEE PLUMBING SECTION ON SHEET A0.10 FOR ADDITION INFORMATION



A1 RISER DIAGRAM - WASTE
3/4" = 1'-0"





A3 ROOF PLAN
1/4" = 1'-0"

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ISSUANCE

DATE	
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for
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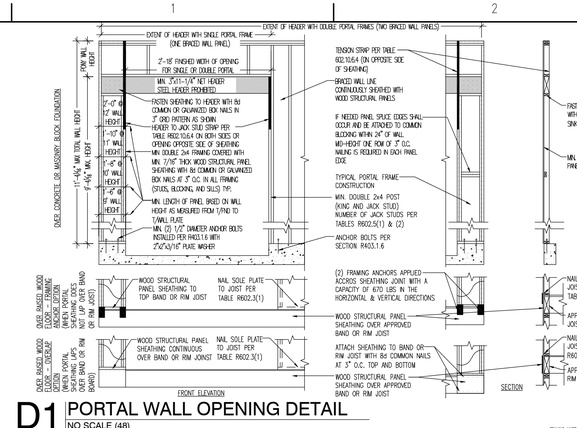
ROOF PLAN

DRAWN BY: EAO
CHECKED BY: MAB

PROJECT NUMBER: 2009062

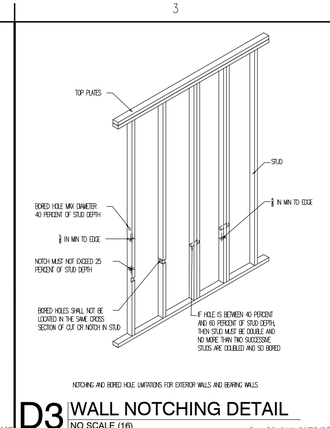
SHEET NUMBER: A2.40

OF 8 SHEETS



D1 PORTAL WALL OPENING DETAIL
NO SCALE (48)

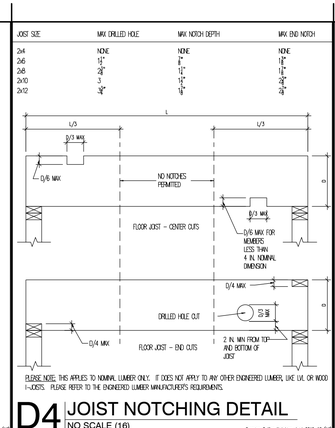
FRAMING-WIRTOW WALL PORTAL OPENING 2019-12 (1d)



NOTCHING AND BORED HOLE LIMITATIONS FOR EXTERIOR WALLS AND BEARING WALLS

D3 WALL NOTCHING DETAIL
NO SCALE (16)

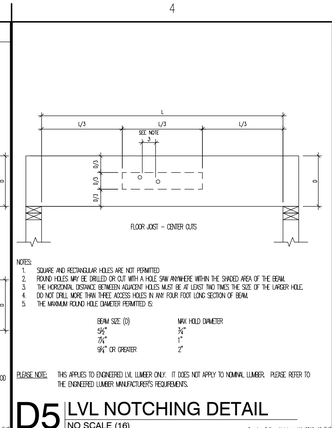
Framing-Drilling Notching-Wall 2019-12 (1d)



PLEASE NOTE: THIS APPLIES TO NUMMI LUMBER ONLY. IT DOES NOT APPLY TO ANY OTHER ENGINEERED LUMBER, LIKE LVL OR WOOD I-JOISTS. PLEASE REFER TO THE ENGINEERED LUMBER MANUFACTURER'S REQUIREMENTS.

D4 JOIST NOTCHING DETAIL
NO SCALE (16)

Framing-Drilling Notching-Joist 2019-12 (1d)



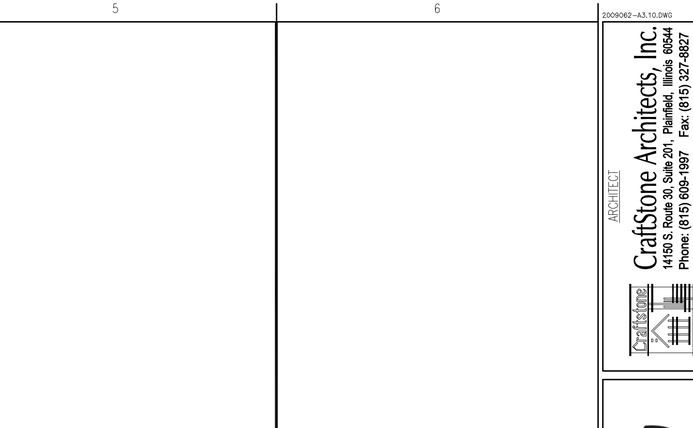
NOTES:
1. SQUARE AND RECTANGULAR HOLES ARE NOT PERMITTED
2. ROUND HOLES MAY BE DRILLED OR CUT WITH A HOLE SAW ANYWHERE WITHIN THE SHADED AREA OF THE BEAM.
3. THE HORIZONAL DISTANCE BETWEEN ADJACENT HOLES MUST BE AT LEAST TWO TIMES THE SIZE OF THE LARGER HOLE.
4. DO NOT DRILL MORE THAN THREE ACCESS HOLES IN ANY FOUR FOOT LONG SECTION OF BEAM.
5. THE MAXIMUM ROUND HOLE DIAMETER PERMITTED IS:

BEAM SIZE (D)	MAX HOLE DIAMETER
5 1/2"	3/4"
7 1/4"	1"
9 1/4" OR GREATER	2"

PLEASE NOTE: THIS APPLIES TO ENGINEERED LVL LUMBER ONLY. IT DOES NOT APPLY TO NORMAL LUMBER. PLEASE REFER TO THE ENGINEERED LUMBER MANUFACTURER'S REQUIREMENTS.

D5 LVL NOTCHING DETAIL
NO SCALE (16)

Framing-Drilling Notching-LVL 2019-12 (1d)


12"
SEE ELEVATION
24"
Detail
TYPICAL ROOF CONSTRUCTION:
2x12 HIP/RIDGE RAFTER (BLOCK RAFTERS SOLID WITH 2x) 2x4 CEILING TIES @ 48" O.C.
30 YEAR (250#) MIN) SELF SEALING ASPHALT "ARCHITECTURAL" SHINGLES ON 15# ROOFING FELT
3/4" EXTERIOR GRADE ("CDX") OSB ROOF SHEATHING
2x10 WOOD RAFTERS @ 16" O.C. (UNO)
2x8 WOOD CEILING JOISTS @ 16" O.C. (UNO)
1/2" GYPSUM BOARD SCREWED TO JOISTS
R38 (MIN.) INSULATION W/VAPOR BARRIER AT CVP. BD.
PROVIDE ICE & WATER GUARD FROM EAVE'S EDGE TO A POINT 24" INSIDE THE EXTERIOR WALL LINE.
2x INSULATION BLOCKING TO BAFFLE
DOUBLE TOP PLATE (LAP PLATE 2' MIN.)
PROVIDE (2)2x4 STIFF BACKS @ JOISTS EQUALLY SPACED BETWEEN BEARING POINTS & AT 8'-0" O.C. MAX.
1'-4" OR PER ELEV.
TYPICAL ROOF EAVE CONSTRUCTION:
1" INSULATION BAFFLE @ INSULATION
1x6 HARDIE BOARD FASCIA ON 2x6 SUB-FASCIA WITH HARDIE BOARD SOFFIT PANELS (VENTED) ALUMINUM GUTTER WITH ALUMINUM DRIP EDGE FLASHING INSTALLED UNDER ICE & WATER SHIELD AT EAVES
8'-1" (SEE ELEVATIONS)
PROVIDE BRIDGING @ JOISTS EQUALLY SPACED BETWEEN BEARING POINTS & AT 8'-0" O.C. MAX.
TYPICAL SECOND FLOOR CONSTRUCTION:
3/4" T&G ADHERED GLUED, NAILED & SCREWED TO JOISTS (PROVIDE 3/4" UNDERLAYMENT @ TILE FLOORS)
2x12 @ 16" O.C. FLOOR JOISTS (LUNO) ON PLAN)
2x12 RIM JOIST WITH R30 CAVITY INSULATION
1/2" GYPSUM BOARD SCREWED TO JOISTS
TYPICAL INSULATION:
INSULATION MATERIALS INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, CRAWL SPACES AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
TYPICAL HEADER:
(2) 2x12 WITH 1/2" CONTINUOUS PLYWOOD
TYPICAL INTERIOR WALL CONSTRUCTION:
1/2" GYPSUM BOARD (BOTH SIDES) ON 2x4 WOOD STUDS @ 16" O.C.
9'-1" (SEE ELEVATIONS)
TYPICAL EXTERIOR WOOD FRAMED WALL CONSTRUCTION:
SIDING WITH METAL LATHE (SEE ELEVATIONS & BUILDER'S SPECIFICATIONS) OVER TYVEK (OR EQUAL) BUILDING WRAP OVER 7/16" OSB WALL SHEATHING ON 2x4 WOOD STUDS @ 16" O.C. WITH R15 CAVITY INSULATION & VAPOR BARRIER AT WARM SIDE
SINGLE BOTTOM PLATE
1/2" GYPSUM BOARD SCREWED TO STUDS
TYPICAL FIRST FLOOR CONSTRUCTION:
3/4" T&G ADHERED GLUED, NAILED & SCREWED TO JOISTS (PROVIDE 3/4" UNDERLAYMENT @ TILE FLOORS)
2x12 @ 16" O.C. FLOOR JOISTS (LUNO) ON PLAN)
2x12 RIM JOIST WITH R30 CAVITY INSULATION
TYPICAL CRIPPLE WALL CONSTRUCTION:
SIDING, BUILDING WRAP & SHEATHING (SAME AS ABOVE) 2x6 WOOD STUDS @ 16" O.C. WITH R21 CAVITY INSULATION & VAPOR BARRIER (INSULATION FACED TO BE EXPOSED IN UNFINISHED AREAS)
FINISHED GRADE – 4" (MIN) TOP SOIL COMPACTED BACKFILL
TYPICAL SILL PLATE:
2x6 TREATED WOOD MUD SILL PLATE SET IN SEALER & ATTACHED TO FOUNDATION WITH 1/2" DIA. x 10" ANCHOR BOLT @ 6'-0" O.C. (MIN.) WITH NUTS & WASHERS. (MIN. OF TWO PER PANEL AND 3/4" TO 12" OFF END CORNER)
TYPICAL BASEMENT INSULATION (U.N.O.):
R11 BASEMENT INSULATION BLANKETS (FAED TO BE EXPOSED TO FULL HT OF WALL (HOLD 6"± OFF FLOOR SLAB) AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
TYPICAL FOUNDATION WALL:
POURED CONCRETE WALL (SOLID PSI) WITH
- (2)#4 REBAR HORIZ. (TOP & BOT) WITHIN 12" OF TOP & BOT. OF WALL &
- (1)#4 REBAR HORIZ @ 9"±POINTS OF WALL & (1) #6 REBAR VERTICALLY @ 4'3" O.C. (UNO.)
- PLACE REBAR NEAR INSIDE FACE OF WALL & PROVIDE 2" MIN CONCRETE COVER WITH GREY WALL WATER-PROOFING / DAMP-PROOFING ON THE EXTERIOR SIDE OF WALL (TYPICAL TO GRADE)
TYPICAL BASEMENT FLOOR (U.N.O.):
4" POURED CONCRETE SLAB ON 6 MIL VAPOR BARRIER (LAP JOISTS 12" MIN) ON 4" (MIN.) COMPACTED GRAVEL FILL ON UNDISTURED SOIL (CAULK/SEAL ALL JOINTS IN FLOOR SLAB)
TYPICAL PERIMETER DRAIN TILE (U.N.O.):
4" DIA. PERFORATED DRAIN TILE IN SLEEVE (OUTSIDE ONLY) (CONNECTED TO SUMP PIT) IN 1" WASH STONE BED (6" CLEAR)
TYPICAL FOOTING:
POURED CONCRETE FOOTING WITH 2x4 KEYWAY ON UNDISTURBED SOIL OR ENGINEERED FILL
11'-8"
TOP OF FOOTING
8'-0" (SEE BASEMENT CEILING HEIGHT)
BASEMENT
DOUBLE TOP PLATE (LAP PLATE 2' MIN)
SEE ELEVATIONS
9'-1" (SEE ELEVATIONS)
7'-3"
10"
1'-0"
1'-0"

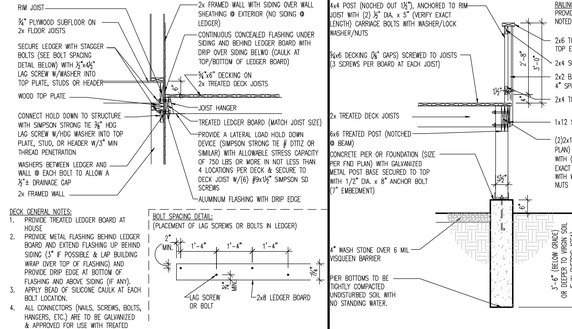
A6 WALL SECTION - SIDING
1/2" = 1'-0"

Sect-2SL/1st_B.Glyde 2x5_Ref 3x4_Siding 2020-01 (1d)

12"
SEE ELEVATION
24"
Detail
TYPICAL ROOF CONSTRUCTION:
2x12 HIP/RIDGE RAFTER (BLOCK RAFTERS SOLID WITH 2x) 2x4 CEILING TIES @ 48" O.C.
30 YEAR (250#) MIN) SELF SEALING ASPHALT "ARCHITECTURAL" SHINGLES ON 15# ROOFING FELT
3/4" EXTERIOR GRADE ("CDX") OSB ROOF SHEATHING
2x10 WOOD RAFTERS @ 16" O.C. (UNO)
2x8 WOOD CEILING JOISTS @ 16" O.C. (UNO)
1/2" GYPSUM BOARD SCREWED TO JOISTS
R38 (MIN.) INSULATION W/VAPOR BARRIER AT CVP. BD.
PROVIDE ICE & WATER GUARD FROM EAVE'S EDGE TO A POINT 24" INSIDE THE EXTERIOR WALL LINE.
2x INSULATION BLOCKING TO BAFFLE
DOUBLE TOP PLATE (LAP PLATE 2' MIN.)
PROVIDE (2)2x4 STIFF BACKS @ JOISTS EQUALLY SPACED BETWEEN BEARING POINTS & AT 8'-0" O.C. MAX.
1'-0" OR PER ELEV.
TYPICAL ROOF EAVE CONSTRUCTION:
1" INSULATION BAFFLE @ INSULATION
1x6 HARDIE BOARD FASCIA ON 2x6 SUB-FASCIA WITH HARDIE BOARD SOFFIT PANELS (VENTED) ALUMINUM GUTTER WITH ALUMINUM DRIP EDGE FLASHING INSTALLED UNDER ICE & WATER SHIELD AT EAVES
TYPICAL FLASHING & WEEP HOLE REQUIREMENTS:
PROVIDE CONTINUOUS CORROSION-RESISTIVE FLASHING AT TOP OF ALL EXTERIOR WINDOWS, DOOR, AND OTHER OPENINGS, AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME WALLS, UNDER AND AT ENDS OF MASONRY, WOOD, OR METAL COPINGS AND SILLS, CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM, WHERE PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION, AT WALL AND ROOF INTERSECTIONS. WEEP HOLES ARE TO BE PROVIDED DIRECTLY ABOVE FLASHING WITH A MIN DIAMETER OF 1/16" AND SPACED @ A MAXIMUM OF 33" O.C. WITH COTTON ROPE WICK RUN UP THE WALL 12" MIN. THROUGH WEEP HOLE, EXTENDED PAST THE FACE OF THE MASONRY AND EXPOSED TO EXTERIOR.
9'-1" (SEE ELEVATIONS)
PROVIDE BRIDGING @ JOISTS EQUALLY SPACED BETWEEN BEARING POINTS & AT 8'-0" O.C. MAX.
TYPICAL SECOND FLOOR CONSTRUCTION:
3/4" T&G ADHERED GLUED, NAILED & SCREWED TO JOISTS (PROVIDE 3/4" UNDERLAYMENT @ TILE FLOORS)
2x12 @ 16" O.C. FLOOR JOISTS (LUNO) ON PLAN)
2x12 RIM JOIST WITH R19 CAVITY INSULATION
1/2" GYPSUM BOARD SCREWED TO JOISTS
TYPICAL INSULATION:
INSULATION MATERIALS INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, CRAWL SPACES AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
TYPICAL HEADER:
(2) 2x12 WITH 1/2" CONTINUOUS PLYWOOD
TYPICAL INTERIOR WALL CONSTRUCTION:
1/2" GYPSUM BOARD (BOTH SIDES) ON 2x4 WOOD STUDS @ 16" O.C.
TYPICAL EXTERIOR WOOD FRAMED WALL CONSTRUCTION:
STANDARD FACE BRICK VENEER (SEE ELEVATIONS & BUILDER'S SPECIFICATIONS) PROVIDE WEEP HOLES @ A MAXIMUM OF 32" O.C., WALL TIES SECURED TO WALL STUDS @ 24" O.C. VERTICALLY & 16" HORIZONTALLY & MIN. 2.67 SF. OF BRICK PER TIE
1" (MIN) AIR SPACE ON TYVEK (OR EQUAL) BUILDING WRAP OVER 7/16" OSB WALL SHEATHING ON 2x4 WOOD STUDS @ 16" O.C. WITH R15 CAVITY INSULATION & VAPOR BARRIER AT WARM SIDE
SINGLE BOTTOM PLATE
1/2" GYPSUM BOARD SCREWED TO STUDS
20 MIL CONTINUOUS BRICK FLASHING @ FIRST MASONRY COURSE & UNDER SILLS)
TYPICAL FIRST FLOOR CONSTRUCTION:
3/4" T&G ADHERED GLUED, NAILED & SCREWED TO JOISTS (PROVIDE 3/4" UNDERLAYMENT @ TILE FLOORS)
2x12 @ 16" O.C. FLOOR JOISTS (LUNO) ON PLAN)
2x12 RIM JOIST WITH R30 CAVITY INSULATION
TYPICAL CRIPPLE WALL CONSTRUCTION:
BRICK VENEER, BUILDING WRAP, INSULATION, & SHEATHING (SAME AS ABOVE) 2x6 WOOD STUDS @ 16" O.C. WITH R19 CAVITY INSULATION & VAPOR BARRIER (INSULATION FACED TO BE EXPOSED IN UNFINISHED AREAS)
FINISHED GRADE – 4" (MIN) TOP SOIL COMPACTED BACKFILL
TYPICAL SILL PLATE:
2x6 TREATED WOOD MUD SILL PLATE SET IN SEALER & ATTACHED TO FOUNDATION WITH 1/2" DIA. x 10" ANCHOR BOLT @ 6'-0" O.C. (MIN.) WITH NUTS & WASHERS. (MIN. OF TWO PER PANEL AND 3/4" TO 12" OFF END CORNER)
TYPICAL BASEMENT INSULATION (U.N.O.):
R11 BASEMENT INSULATION BLANKETS (FAED TO BE EXPOSED TO FULL HT OF WALL (HOLD 6"± OFF FLOOR SLAB) AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
TYPICAL FOUNDATION WALL:
POURED CONCRETE WALL (SOLID PSI) WITH
- (2)#4 REBAR HORIZ. (TOP & BOT) WITHIN 12" OF TOP & BOT. OF WALL &
- (1)#4 REBAR HORIZ @ MID-SPAN OF WALL &
- NO VERTICAL REBAR
- PLACE REBAR NEAR INSIDE FACE OF WALL & PROVIDE 2" MIN CONCRETE COVER WITH GREYWALL WATER PROOFING / DAMP-PROOFING ON THE EXTERIOR SIDE OF WALL (TYPICAL TO GRADE)
TYPICAL BASEMENT FLOOR (U.N.O.):
4" POURED CONCRETE SLAB ON 6 MIL VAPOR BARRIER (LAP JOISTS 12" MIN) ON 4" (MIN.) COMPACTED GRAVEL FILL ON UNDISTURED SOIL (CAULK/SEAL ALL JOINTS IN FLOOR SLAB)
TYPICAL PERIMETER DRAIN TILE (U.N.O.):
4" DIA. PERFORATED DRAIN TILE IN SLEEVE (INSIDE & OUTSIDE) (CONNECTED TO SUMP PIT) IN 1" WASH STONE BED (6" CLEAR)
TYPICAL FOOTING:
POURED CONCRETE FOOTING WITH 2x4 KEYWAY ON UNDISTURED SOIL OR ENGINEERED FILL
11'-8"
TOP OF FOOTING
8'-0" (SEE BASEMENT CEILING HEIGHT)
BASEMENT
DOUBLE TOP PLATE (LAP PLATE 2' MIN)
SEE ELEVATIONS
9'-1" (SEE ELEVATIONS)
7'-3"
10"
1'-0"
1'-0"

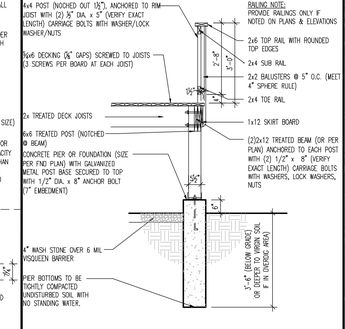
A7 WALL SECTION - MASONRY
1/2" = 1'-0"

Sect-2SL/1st_B.Glyde 2x5_Ref 3x4_Siding 2020-01 (1d)



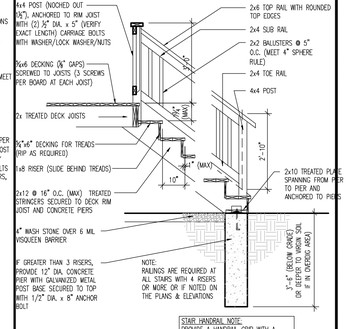
B1 DECK LEDGER DETAIL
3/8" = 1'-0"

DECK-STEP-DOWN_2x10 (1d)



B2 DECK BEAM DETAIL
3/8" = 1'-0"

DECK-STEP-DOWN_2x10 (1d)



B3 DECK STAIR DETAIL
3/8" = 1'-0"

DECK-STEP-DOWN_2x10 (1d)

A1 GARAGE WALL SECTION
3/4" = 1'-0"

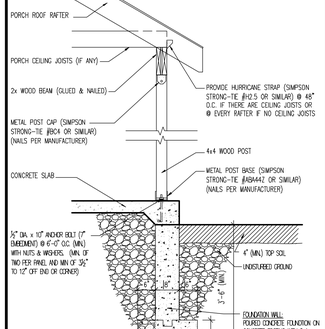
Garage End-2x6Frame 8in Fnd no rebar w_4in slab (1d)

A2 GARAGE WALL SECTION
3/4" = 1'-0"

Garage End-2x6Frame 8in Fnd no rebar w_4in slab (1d)

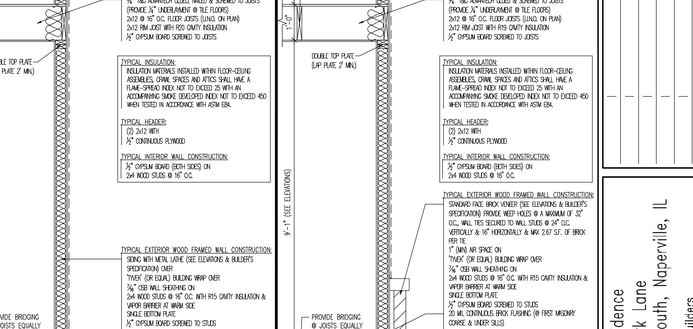
A3 STEEL COLUMN @ FOOTING
3/4" = 1'-0"

Framing-Corner Details 2019-12 (1d)



A4 STEEL COLUMN @ FND
NO SCALE (12)

STL BEAM-COL-FOOTING (1d)



B5 PORCH SECTION
1/2" = 1'-0"

Porch Section 2019-12 (1d)

12"
SEE ELEVATION
24"
Detail
TYPICAL ROOF CONSTRUCTION:
2x12 HIP/RIDGE RAFTER (BLOCK RAFTERS SOLID WITH 2x) 2x4 CEILING TIES @ 48" O.C.
30 YEAR (250#) MIN) SELF SEALING ASPHALT "ARCHITECTURAL" SHINGLES ON 15# ROOFING FELT
3/4" EXTERIOR GRADE ("CDX") OSB ROOF SHEATHING
2x10 WOOD RAFTERS @ 16" O.C. (UNO)
2x8 WOOD CEILING JOISTS @ 16" O.C. (UNO)
1/2" GYPSUM BOARD SCREWED TO JOISTS
R38 (MIN.) INSULATION W/VAPOR BARRIER AT CVP. BD.
PROVIDE ICE & WATER GUARD FROM EAVE'S EDGE TO A POINT 24" INSIDE THE EXTERIOR WALL LINE.
2x INSULATION BLOCKING TO BAFFLE
DOUBLE TOP PLATE (LAP PLATE 2' MIN.)
PROVIDE (2)2x4 STIFF BACKS @ JOISTS EQUALLY S