#### 2018 INTERNATIONAL ENERGY CONSERVATION CODE COMMENTS:

- OTHER COMPARABLE COMPLIANCE MATERIALS THAT MEET OR EXCEED, AS DETERMINED BY THE AHJ.
- R-VALUES OF THE INSULATION INSTALLED, THE U-FACTORS, AND THE TYPES AND EFFICIENCIES OF HEATING, COOLING AND 4. THE FENESTRATION U-FACTOR OF THE WINDOWS INTENDED FOR USE IN THIS PROJECT SHALL COMPLY WITH TABLE 402.1.
- CLIMATE ZONE 5. (SEC. 4023, 2018 INTERNATIONAL ENERGY CONSERVATION CODE) 5. THE THERMAL ENVELOPE WILL BE SEALED TO LIMIT INFILTRATION. REFER TO SECTION 402.4 OF THI
- CONSERVATION CODE FOR A LIST OF BUILDING ELEMENTS TO BE SEALED. 6. NEW WOOD-BURNING FIREPLACES SHALL HAVE TIGHT-FITTING FLUE DAMPERS AND OUTDOOR COM
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE) 1. WINDOWS AND SLIDING GLASS DOORS LIMITED TO NO MORE THAN 03 CFM PER SQUARE FOOT AIR LEAKAGE. SWINGING DOOR!
- LIMITED TO NO MORE THAN 0.5 CFM PER SQUARE FOOT. (SEC. 402.4.3, 2018 INTERNATIONAL ENERGY CONSERVATION CODE) 8. RECESSED LIGHT FIXTURES INSTALLED IN BUILDING THERMAL ENVELOPE SHALL BE:
- A. IC-RATED AND LABELED (SUITABLE FOR INSULATION CONTACT). B. SEALED WITH A GASKET OR CAULK BETWEEN FIXTURE HOUSING AND CEILING. (SEC. 402,45, 2018 INTERNATIONAL ENERGY CONSERVATION CODE)
- 9. AT LEAST ONE PROGRAMMABLE THERMOSTAT SHALL BE PROVIDED FOR EACH SEPARATE HEATING AND COOLING SYSTEM (SEC 403.1), THERMOSTAT SHALL INITIALLY BE PROGRAMMED MAX, 70°F HEAT AND NOT LOWER THAN 78°F COOLING. (SEC. 403.1.1, 2018 INTERNATIONAL ENERGY CONSERVATION CODE)
- 10. IN AN UNCONDITIONED SPACE, SUPPLY DUCTS IN ATTICS SHALL BE INSULATED TO A MINIMUM R-8. ALL OTHER DUCTS SHALL BE INSULATED TO A MINIMUM R-6. (SEC. 403.3.1, INTERNATIONAL ENERGY CONSERVATION CODE)
- IL ALL DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED AT ALL JOINTS AND SEAMS. DUCT TAPE OR ANY OTHER UNLISTED TAPE IS NOT PERMITTED. (SEC. 403.32, 2018 INTERNATIONAL ENERGY CONSERVATION CODE) DUCT TIGHTNESS TEST IS NOT REQUIRED IF DUCTS AND AIR HANDLERS ARE LOCATED ENTIRELY WITHIN BUILDING THERMAL ENVELOPE (SEC. 403.3.3, 2018 INTERNATIONAL ENERGY CONSERVATION CODE)
- 12. BUILDING FRAMING CAYITIES SHALL NOT BE USED AS SUPPLY DUCTS. (SEC
- 13. MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105 DEGREES FAHRENHEIT (105° F) SHALL BE INSULATED TO A MINIMUM R-3. (SEC. 403.4, 2018 INTERNATIONAL ENERGY CONSERVATION CODE) 14. ALL CIRCULATING SERVICE HOT WATER PIPING SHALL BE INSULATED TO A MINIMUM OF R-3 WITH A READILY ACCESSIBLE
- MANUAL SWITCH THAT CAN TURN OFF THE HOT WATER CIRCULATING PUMP WHEN THE SYSTEM IS NOT IN USE. (SEC. 403.5.I, 2018 INTERNATIONAL ENERGY CONSERVATION CODE) IS. OUTDOOR AIR INTAKES AND EXHAUSTS SHALL HAVE AUTOMATIC OR GRAVITY DAMPERS THAT CLOSE WHEN THE VENTILATION
- SYSTEM IS NOT IN USE. (SEC. 4036, 2018 INTERNATIONAL ENERGY CONSERVATION CODE) 16. A MINIMUM OF 90 PERCENT (90%) OF THE LAMPS IN PERMANENTLY INSTALLED LIGHT FIXTURES SHALL BE HIGH EFFICACY LAMPS. (SEC. 404.1, 2018 INTERNATIONAL ENERGY CONSERVATION CODE)

## ARCHITECTURAL PLANS

# THE BROWN RESIDENCE ADDITION & RENOVATION

PRESC	PRESCRIPTIVE METHOD: INSULATION & FENESTRATION REQUIREMENTS BY COMPONENT										
TABLE 402.12	CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	FENESTRATION SHGC	CEILING R-VALUE	FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE 4 DEPTH	CRAWL SPACE WALL R-VALUE
CODE REQUIREMENTS	5 AND MARINE 4	030	Ø.55	NR	49	20 OR 13+5	13/17	3Ø	10 - FULL HEIGHT 15 - 48" BELOW GRADE	R-10 4 2 FT.	10/15
BUILDING DESIGNED TO	5 AND MARINE 4	030	Ø.55	NR	49	20	NA	3Ø	15	N/A	15

DESIGN CRITERIA

= 60\* PLF OR ACTUAL LOAD

STRUCTURAL FRAMING LUMBER

FLOOR JOISTS, CEILING JOISTS, HEADERS, AND RAFTERS

GRADE <u>12</u> SPECIES <u>HEM FIR</u> (DOMESTIC)/ CANADIAN

SPECIFY MANUFACTURER AND NAME OF SPECIFIC BEAM

MANUFACTURER: TRUS JOIST MAC MILLAN PRODUCT: LVL

SOIL CLASSIFICATION

TYPICAL SOIL CLASSIFICATION ASSUMED TO BE "CL".

CLASS III TYPE SOIL PER TABLE R401.4.1 OF 2012 IRC.

IF INFORMATION IS FOUND TO SHOW A DIFFERENT CLASSIFICATION SYSTEM, NOTIFY ARCHITECT IMMEDIATELY

COMPRESSIVE STRENGTH OF CONCRETE

BASEMENT WALLS, FOUNDATIONS, AND

OTHER CONCRETE NOT EXPOSED TO

BASEMENT SLABS AND INTERIOR

SLABS ON GRADE, EXCEPT GARAGE

BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS AND OTHER

VERTICAL CONCRETE WORK EXPOSED

PORCHES. CARPORT SLABS, AND

AND GARAGE FLOOR SLABS

BATTERY BACK UP.

STEPS EXPOSED TO THE WEATHER

GENERAL NOTES CONTINUED:

THE APPLICABLE REQUIREMENTS OF THE 2018 IRC.

16. STRUCTURAL ELEMENTS THAT ARE UNCOVERED DURING THE

COURSE OF THE ALTERNATION & THAT ARE FOUND TO BE

UNSOUND OR DANGEROUS SHALL BE MADE TO COMPLY W/

A SMOKE DETECTOR MUST BE INSTALLED IN EACH SLEEPING

ROOM, OUTSIDE EACH SLEEPING AREA IN THE IMMEDIATE

SMOKE ALARMS IN THE PORTION OF THE RESIDENCE THAT IS NOT IMPACTED BY THE SCOPE OF WORK SHALL BE

PERMITTED TO BE BATTERY POWERED & INTERCONNECTED.

SMOKE ALARMS WITHIN THE AREA OF THE SCOPE OF WORK

. IN THE EXISTING HOUSE A MINIMUM OF (1) CARBON MONOXIDE

MONOXIDE DETECTORS IN THE PORTION OF THE RESIDENCE

THAT IS NOT IMPACTED BY THE SCOPE OF WORK SHALL BE

ALL ILLINOIS HOMES ARE REQUIRED TO HAVE SMOKE ALARMS

DETECTOR SHALL BE INSTALLED WITHIN 15 FEET OF ANY

SLEEPING AREA WITHIN ANY DWELLING UNIT. CARBON

W/ A SELF-CONTAINED, NON-REMOVABLE, LONG TERM

ALARMS MUST BE REPLACED W A 10-YEAR SEALED

- THE UNIT IS NO LONGER IN OPERATION OR FAILS TO

- A NEW DEVICE IS BEING INSTALLED.

- THE UNIT IS 10 YEARS OLDER THAN THE DATE OF

. ANY EXISTING NON-HARDWIRED, BATTERY-POWERED SMOKE

BATTERY SMOKE ALARM IF ANY OF THE FOLLOWING IS TRUE.

PERMITTED TO BE BATTERY POWERED

RESPONS TO OPERABILITY TESTING.

(10-YEAR LITHIUM) BATTERY.

YICINITY OF THE BEDROOMS AND ON EVERY FLOOR.

SHALL BE INTERCONNECTED, 100Y, HARD WIRED, WITH

THE WEATHER

FLOOR SLABS

TO THE WEATHER

Fb: <u>2600</u> E: <u>2000000</u>

PRODUCT W/ THE CURRENT FO AND E VALUES PER

= 30° LL / 10° DL

= 40° LL / 10° DL

= 60\* LL / 10\* DL

CATHEDRAL = 30° LL / 15° DL

N GRADE BASE VALUE

EXT DECK

ROOF SLOPES

ALL SLOPES

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA:										
GROUND SNOW LOAD	WIND SPEED (MPH)	SEISMIC DESIGN CATEGORY	WEATHERING	FROST LINE DEPTH	TERMITE	WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
3Ø	90/3 SECOND WIND GUST	В	9EVERE	42"	MODERATE	-14=	YES	REFER TO LOCAL ORDINANCES	1635	48.TF

FLOOR JOIST SCHEDULE								
JOIST & SPACING: MAXIMUM SPAN L/480 40° LL / 10° DL								
2x8 ● 16" O.C. 10'-9" 2x10 ● 16" O.C. 13'-9" 2x12 ● 16" O.C. 16'-9"								
- ALL FLOOR JOISTS SHALL BE 12 DOMESTIC HEM-FIR - PROVIDE CROSS BRIDGING ● MAX 8'-0" O.C.								
CEILING JOIST SCHEDULE								
JOIST & SPACING L/360	MAXIMUM SPAN 20° LL / 10° DL							
2×4 ● 16" O.C. 8'-4" 2×6 ● 16" O.C. 12'-8" 2×8 ● 16" O.C. 16'-0" 2×10 ● 16" O.C. 19'-7"								
- ALL CEILING JOISTS SHALL B	E 12 DOMESTIC HEM-FIR							

ROOF RAFTER	SCHEDULE
RAFTER 4 SPACING	MAXIMUM SPAN
L/240	30° LL / 10° DL
2x6 • 16" O.C.	-9"
2x6 • 16" O.C. *	-5" *
2x8 • 16" O.C. *	4'-  "
2x10 • 16" O.C. *	4'-  " *
2x10 • 16" O.C. *	8'-2" *
2x10 • 16" O.C. *	8'-2" *
2x12 • 16" O.C. *	2 '-1" *

ATTACHED TO RAFTERS								
ALL RAFTERS SHALL BE 12 DOMESTIC HEM-FIR								
CODES:								

\* WITH REDUCED ALLOWABLE SPAN FOR CEILING

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE FOLLOW CODES: 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL FIRE CODE (IFC) 2018 INTERNATIONAL FUEL-GAS CODE (IFGC) 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2011 NATIONAL ELECTRIC CODE (NEC) 2014 ILLINOIS STATE PLUMBING CODE (CURRENT)

#### GENERAL NOTES:

- I. ALL SUBCONTRACTORS SHALL VERIFY THAT THEY HAVE CURRENT PLANS PRIOR TO COMMENCEMENT OF ANY WORK. 2. VERIFY ALL DIMENSIONS AND SITE CONDITIONS IN THE FIELD  $^{f 1}$ PRIOR TO COMMENCEMENT OF ANY WORK.
- 3. ALL SUBCONTRACTORS ARE LIABLE FOR THE SAFETY OF THEIR EMPLOYEES AND EQUIPMENT WHILE ON THE JOB SITE. 4. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO ALL
- APPLICABLE CODES & PRACTICES ADOPTED BY THE CITY OF NAPERVILLE, ILLINOIS. 5. ALL DIMENSIONS ARE FOR ROUGH FRAMING, WALLS ARE DIMENSIONED AT 3 1/2" UNLESS OTHERWISE NOTED.
- 6. PROVIDE DOUBLE FRAMING AT ALL OPENINGS AND DOUBLE JOISTS UNDER ALL PARTITIONS PARALLEL TO JOISTS. 1. PROVIDE DOUBLE JOIST UNDER ALL POINT LOADS UNLESS
- NOTED OTHERWISE ON DRAWINGS 8. (2) 2X12 HEADER IS TYPICAL FOR DOOR/WINDOW OPENINGS, UNLESS OTHERWISE NOTED.
- 9. GLUE AND NAIL ALL MICROLAM HEADERS. 10. ALL OPERABLE WINDOWS SHALL HAVE SCREENS. II. PROVIDE DRAFTSTOPPING PER THE APPLICABLE SECTION OF
- THE ADOPTED CODE BY REFERENCE. 12. PROVIDE FIREBLOCKING PER THE APPLICABLE SECTION O THE ADOPTED CODE BY REFERENCE.
- 13. ALL INSULATION WILL COMPLY W/ TABLE 402.1.1 OF THE 2012 INTERNATIONAL ENERGY CONSERVATION CODE. 14. ALL WINDOW SIZES SPECIFIED ON PLANS REPRESENT MARVIN

ELEVATE DOUBLE HUNG UNIT SIZES. VERIFY WITH WINDOW

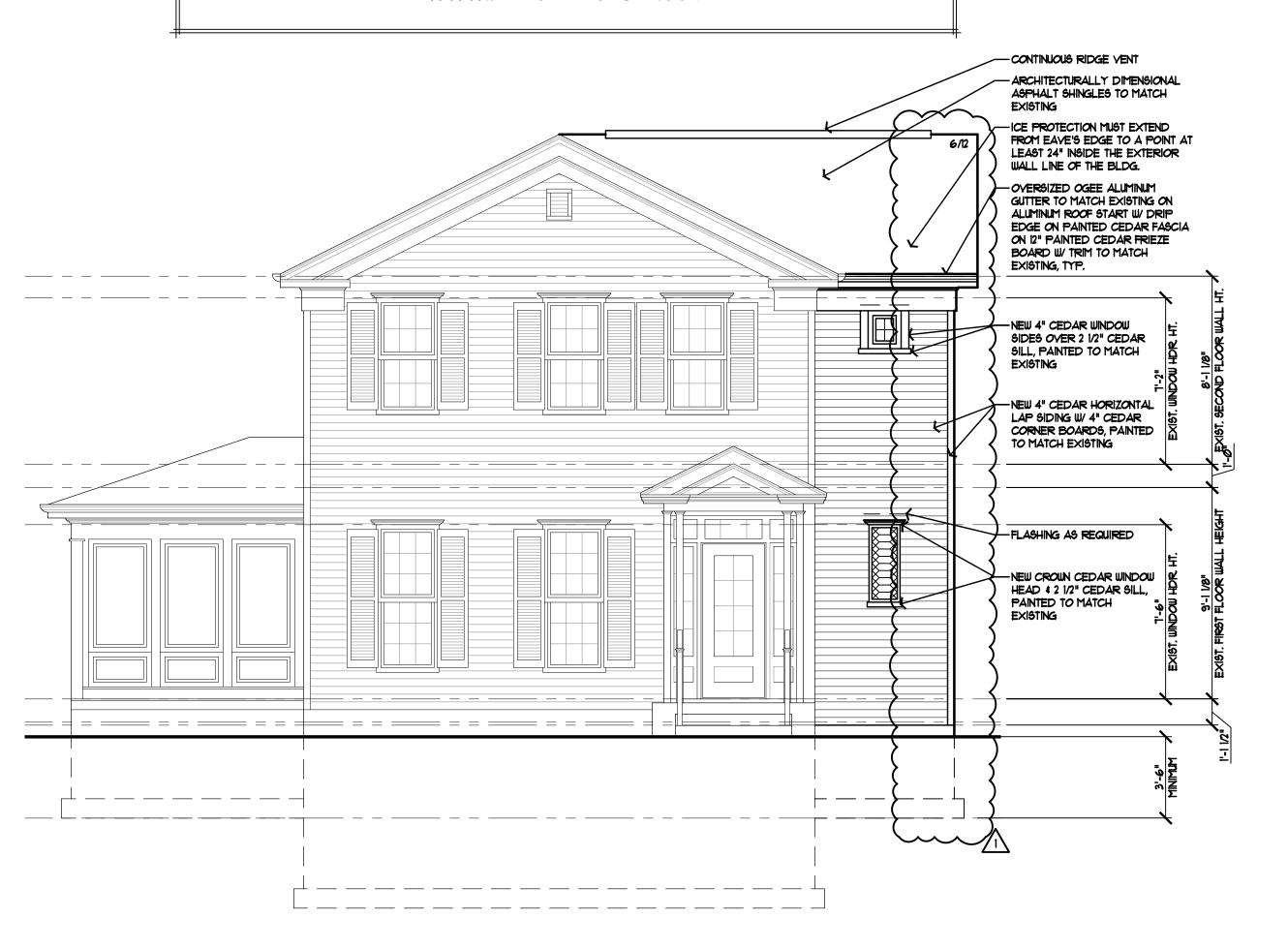
- MANUFACTURER EXACT WINDOW UNITS FOR ALL WINDOWS WITH RESPECT TO CONFORMITY WITH ALL APPLICABLE MUNICIPALITY CODE REQUIREMENTS. 15. EGRESS WINDOWS TO HAVE A MIN. 20" CLEAR OPENING WIDTH
- 24" CLEAR OPENING HEIGHT, AND 5.7 SQ. FT. CLEAR OPENING AREA WITH THE BOTTOM OF THE OPENING NOT MORE THAN 44" ABOVE THE FINISHED FLOOR

### 8 SOUTH COLUMBIA STREET NAPERVILLE, ILLINOIS

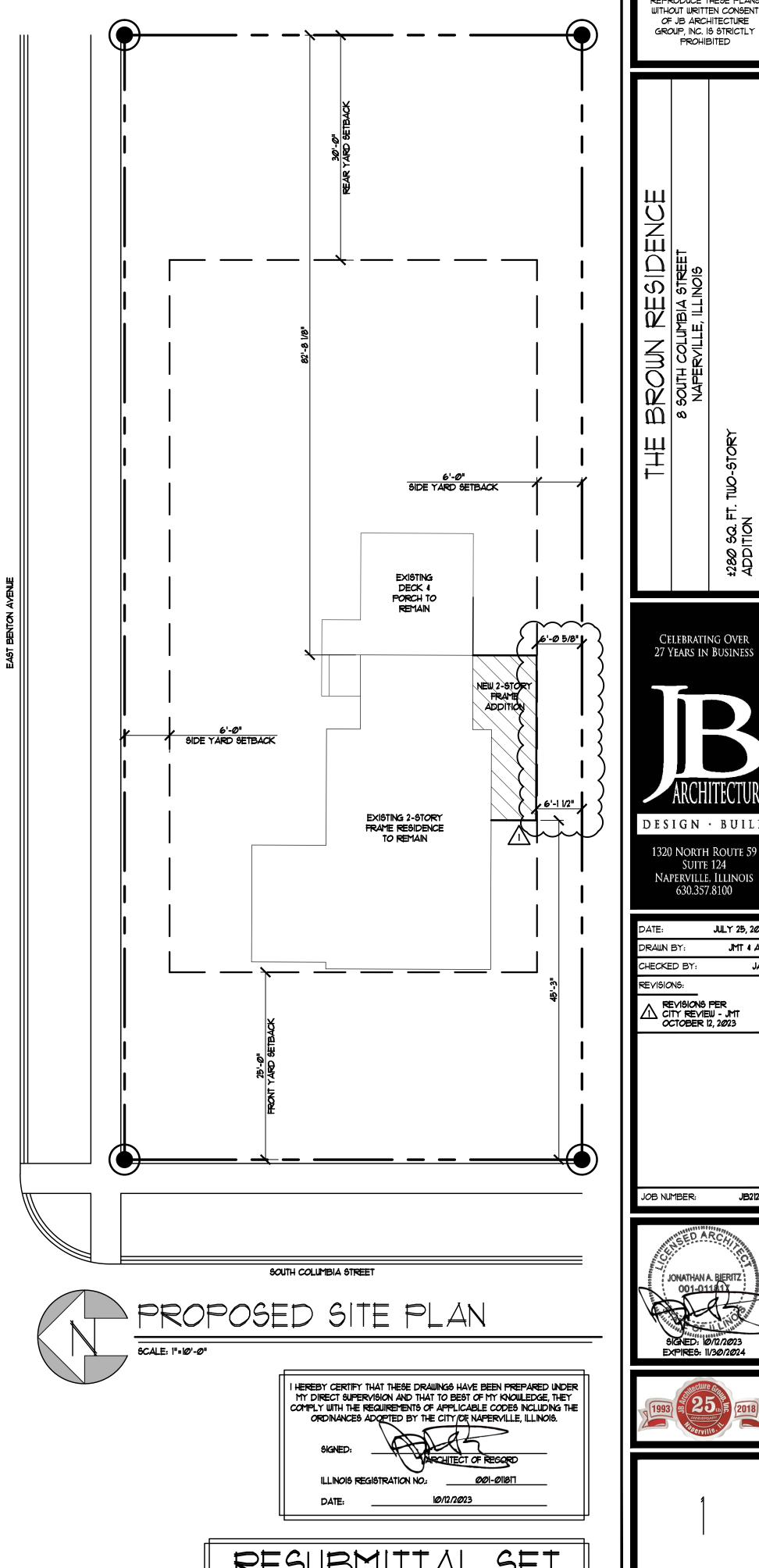
### ARCHITECT: JB ARCHITECTURE GROUP, INC.

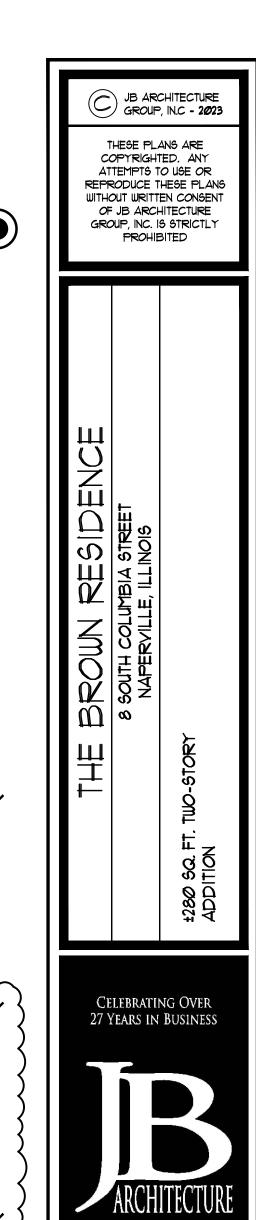
PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000692 1320 NORTH ROUTE 59, SUITE 124, NAPERVILLE, ILLINOIS 60563 630.357.8100 JONATHAN A. BIERITZ, AIA

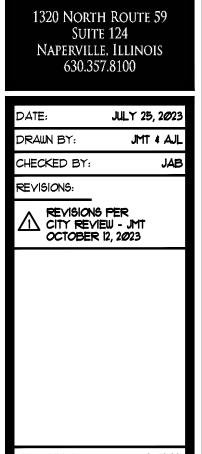
WWW.JBARCHITECTURE.COM

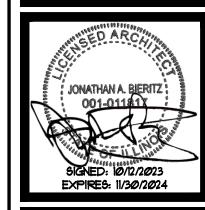


PROPOSED FRONT ELEVATION



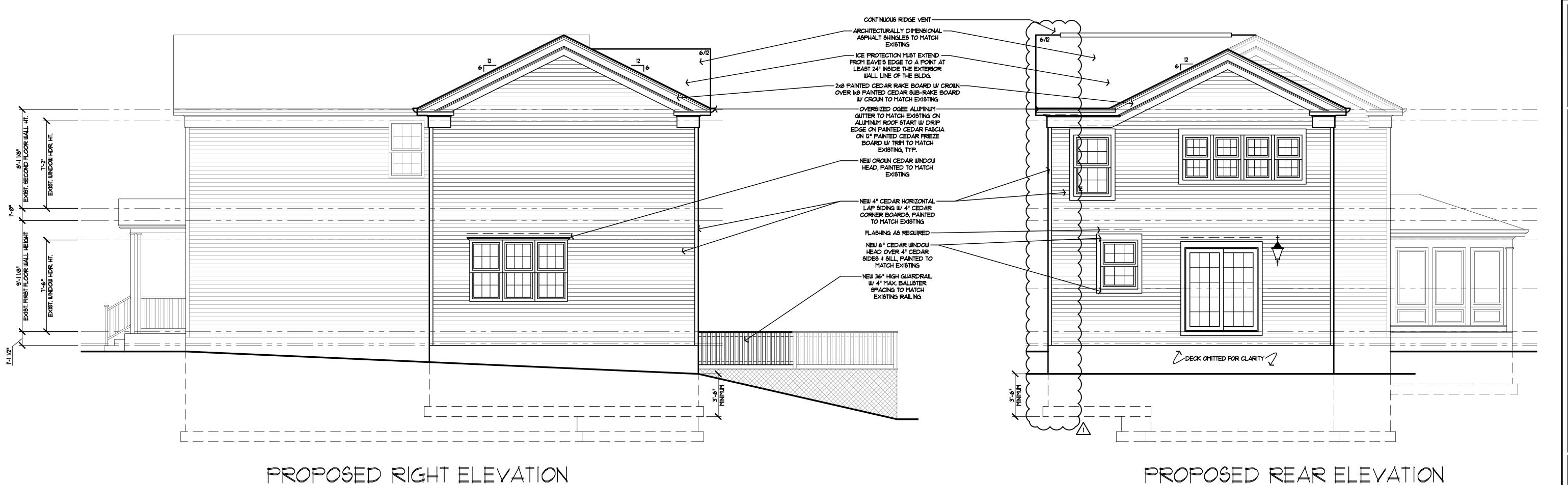




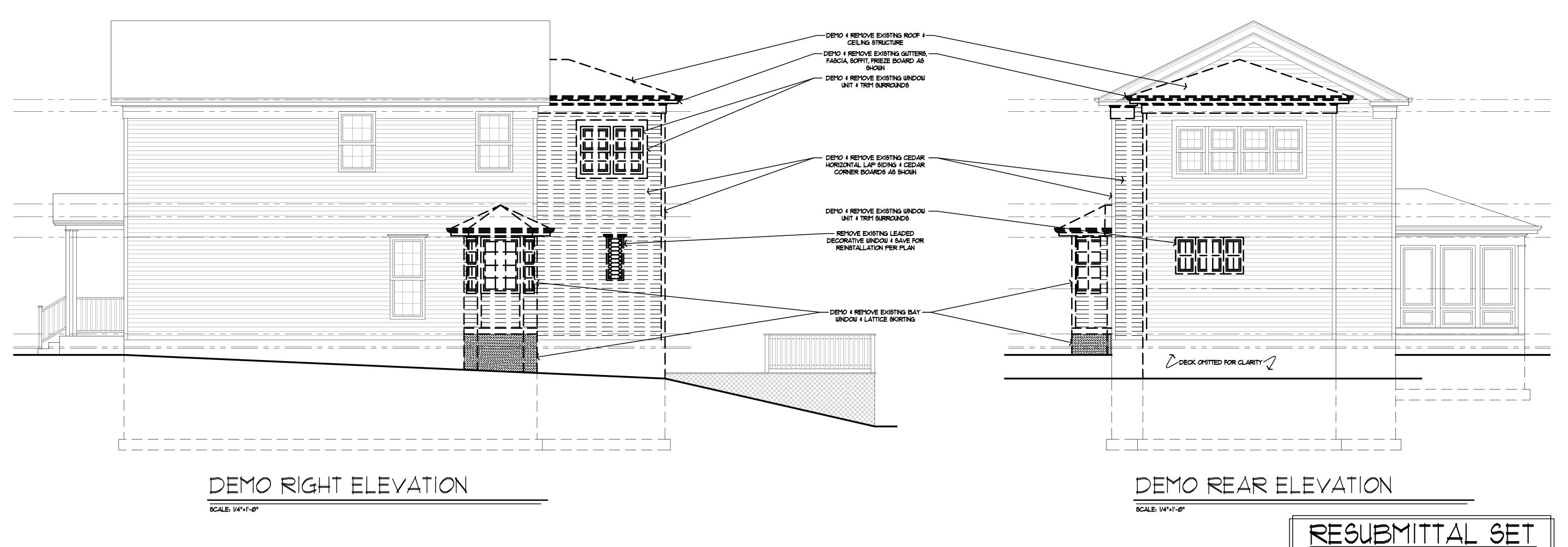




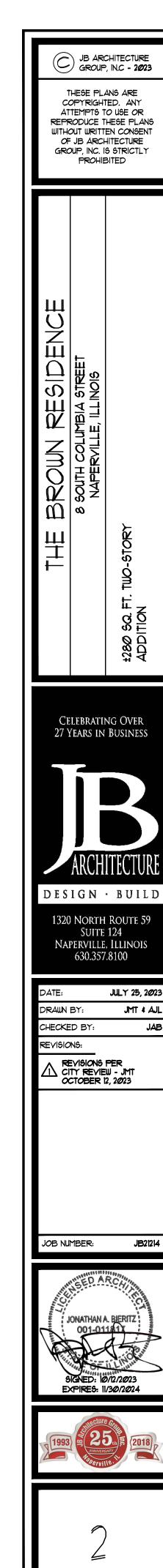
*O*F 4 OCTOBER 12, 2023



SCALE: 1/4"=1'-@"

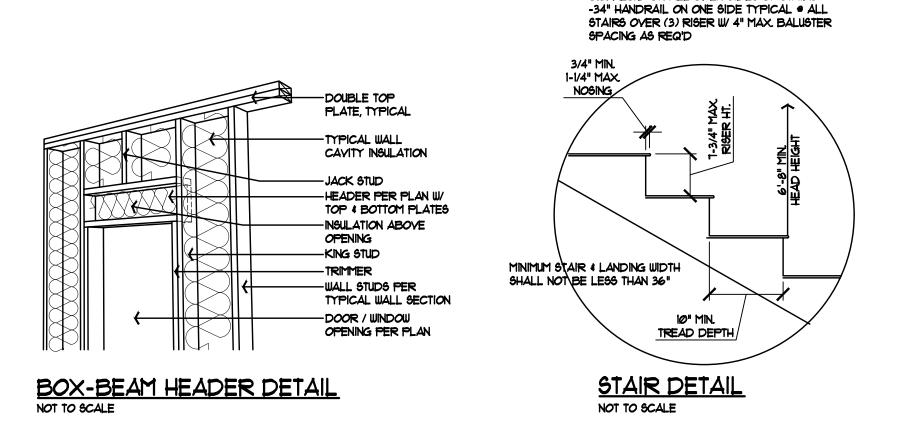


SCALE: 1/4"=1'-@"



2 OF 4

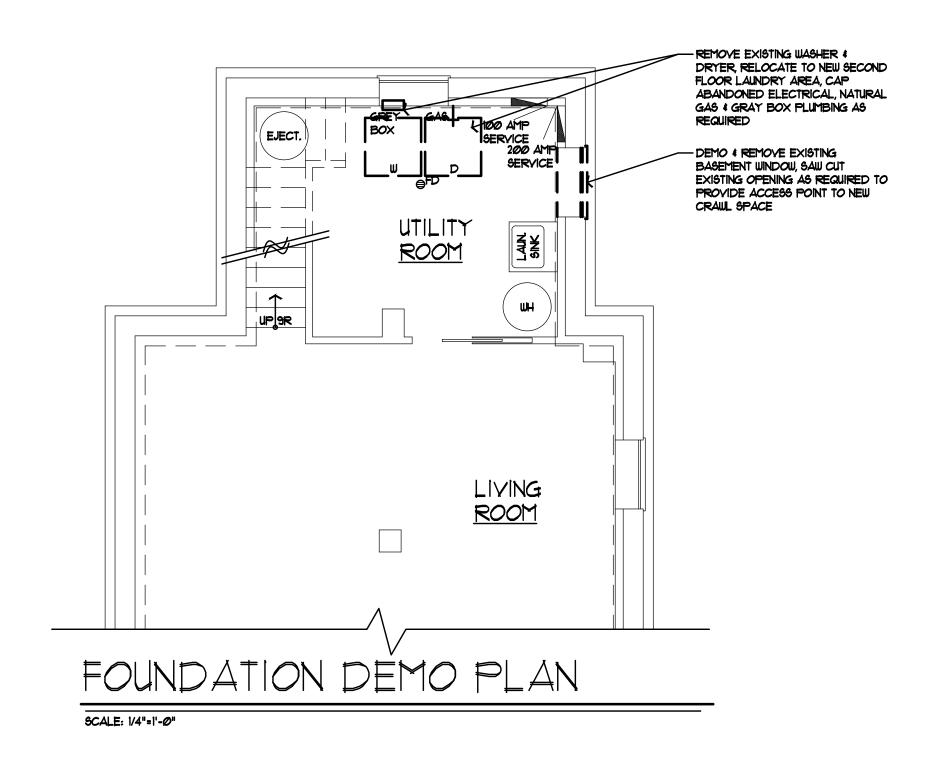
OCTOBER 12, 2023

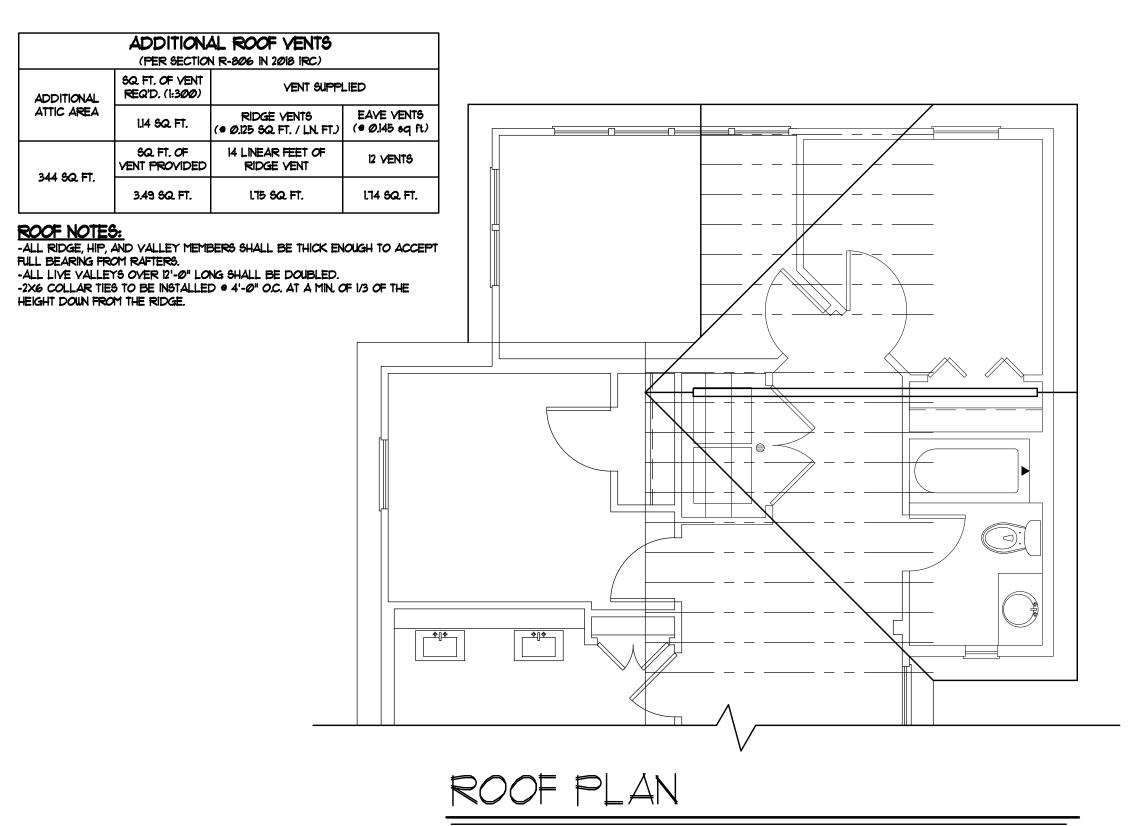


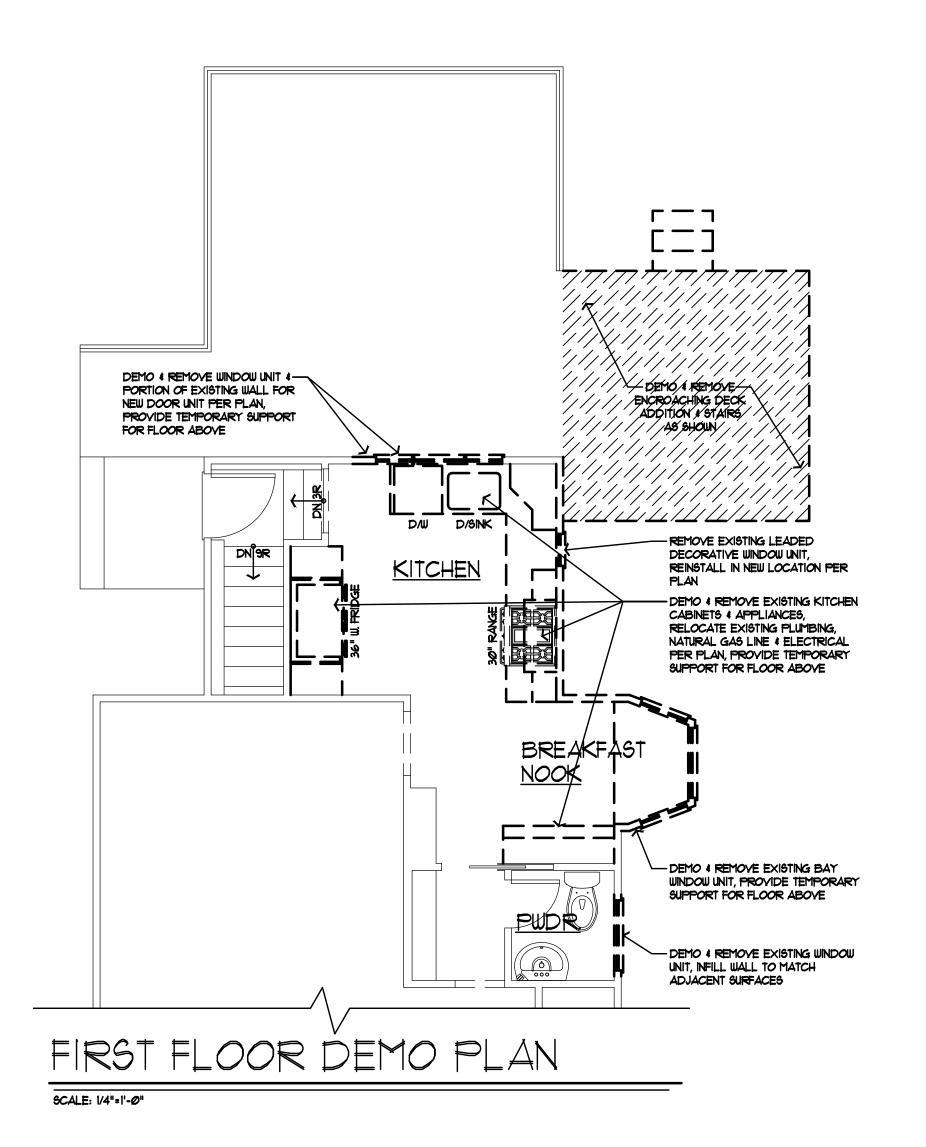
STAIR NOTES:

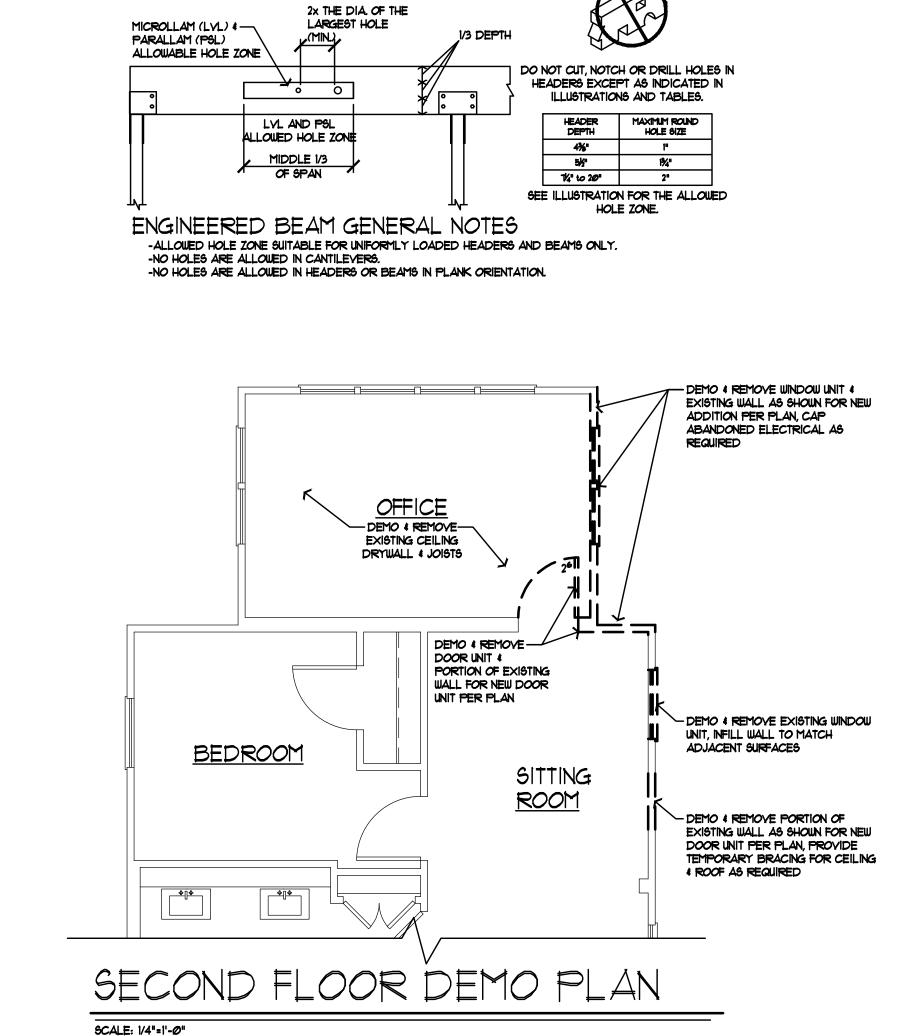
-36" GUARDRAIL W/ MAX. 4" BALUSTER SPACING

O.C. REQ'D ON ALL OPEN SIDES OF STAIRS



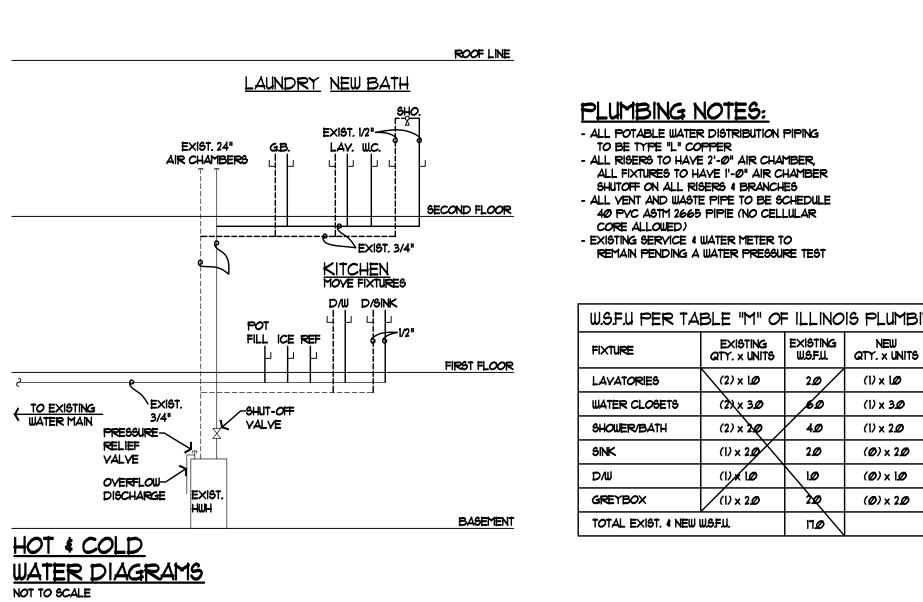


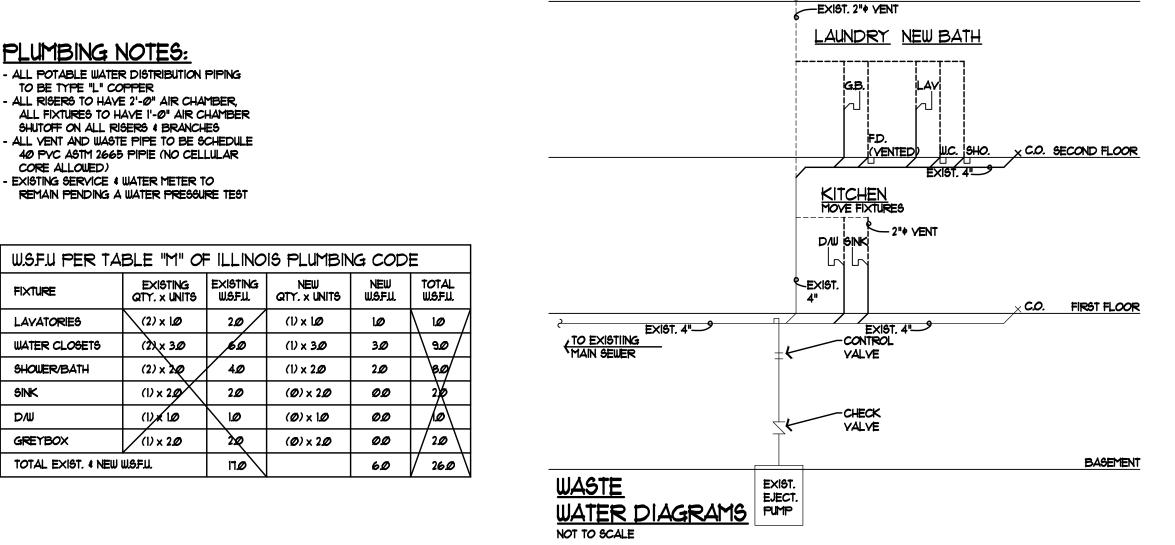




MICROLLAM AND PARALLAM

HEADERS AND BEAMS

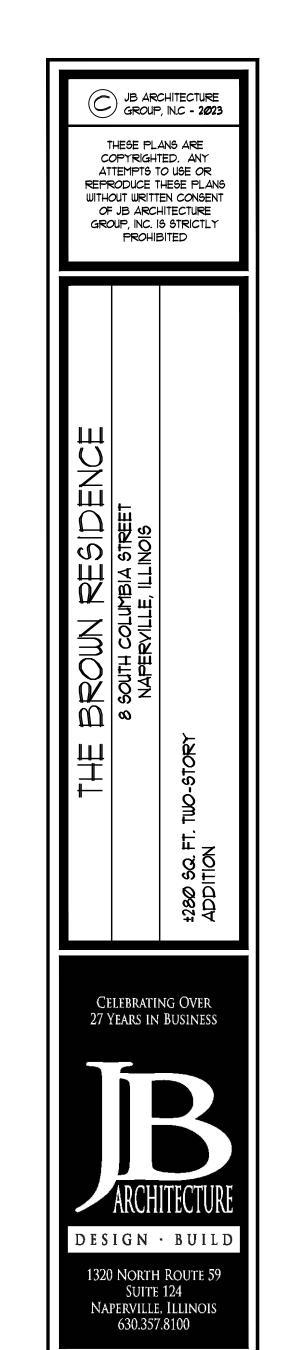




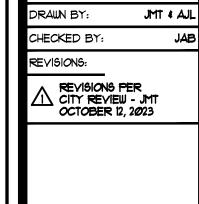
EXIST. 4" TO 5" —— VENT THROUGH ROOF W/

INCREASER 4







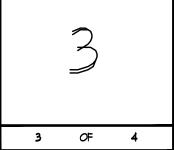


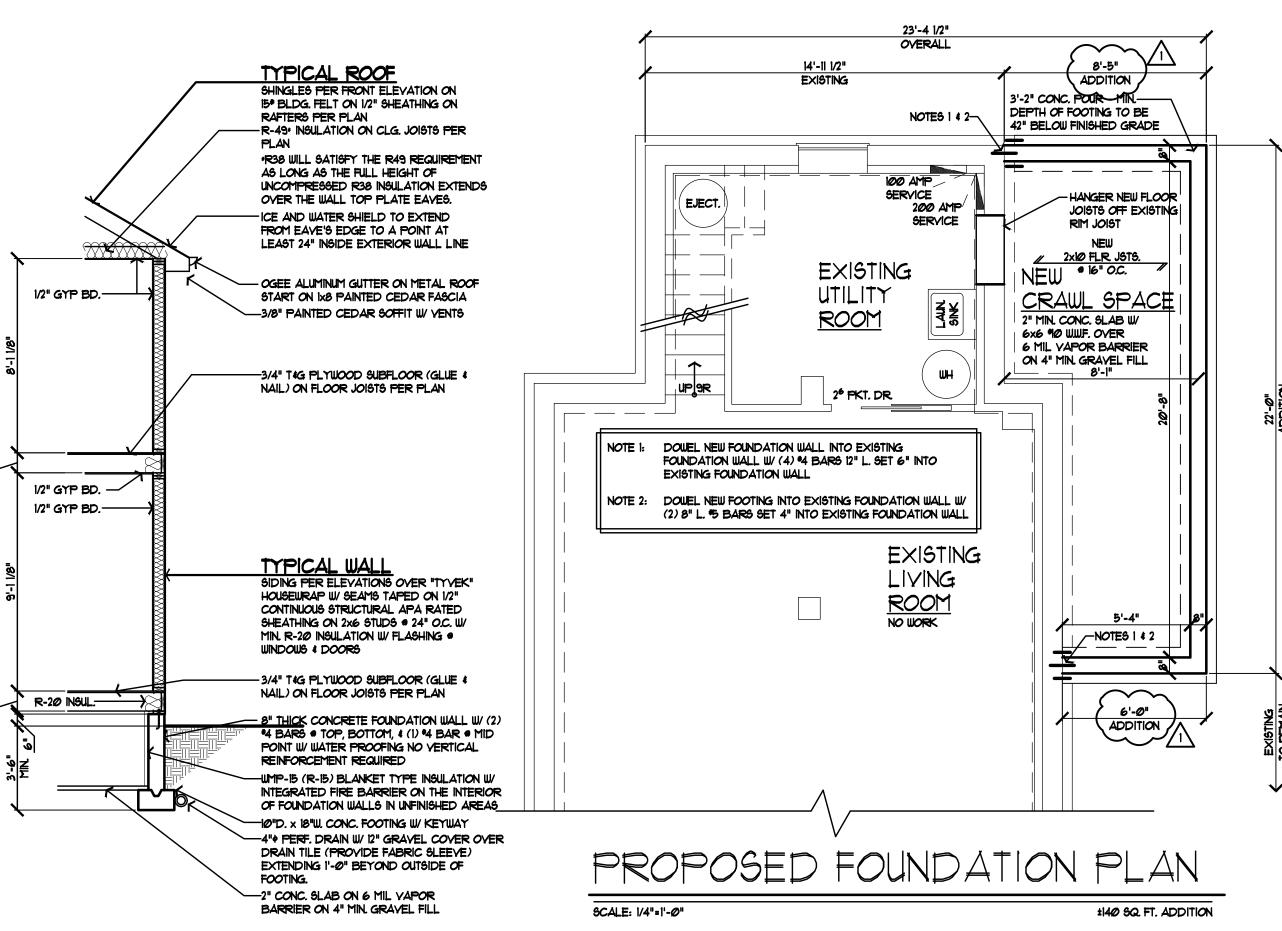
ROOF LINE







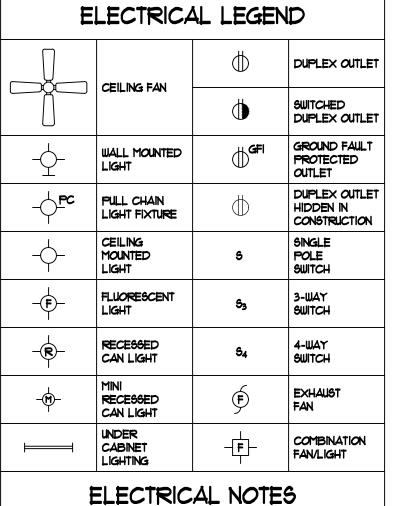




SCALE: 1/4"=1'-0"

LIGHT AND VENTILATION SCHEDULE									
BOOM NAME	AREA	LIGHT (8%)		VENT (4%)		MECH. CFM			
ROOM NAME	(5Q. FT.)	REQ.	ACT.	REQ.	ACT.	REQ.	ACT.		
KITCHEN	307.16	24.57	67,69	12.28	34.72	-	-		
NEW BEDROOM	90.84	7.26	10.59	3,63	5.79	-	-		
NEW BATHROOM	4821	-	1.03	-	=	-	80 CFM		

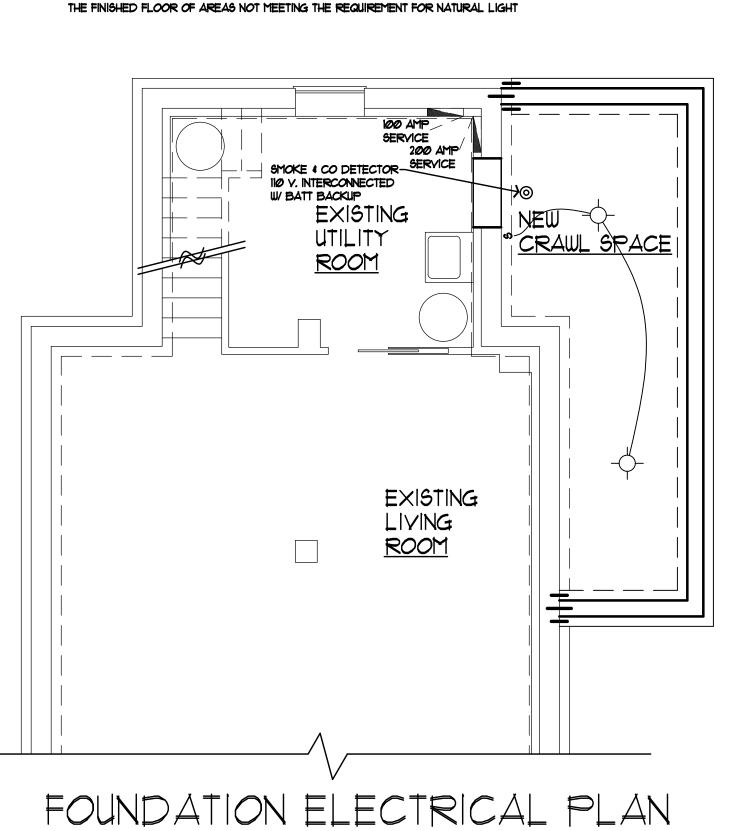
-HVAC SYSTEM SHALL PROVIDE 35 AIR CHANGES PER HOUR FOR AREAS NOT MEETING. THE REQUIREMENT FOR NATURAL VENTILATION -ARTIFICIAL LIGHTING SHALL PROVIDE AN AVERAGE ILLUMINATION OF 6 FOOT CANDLES OVER THE AREA AT A HEIGHT OF 30" ABOVE

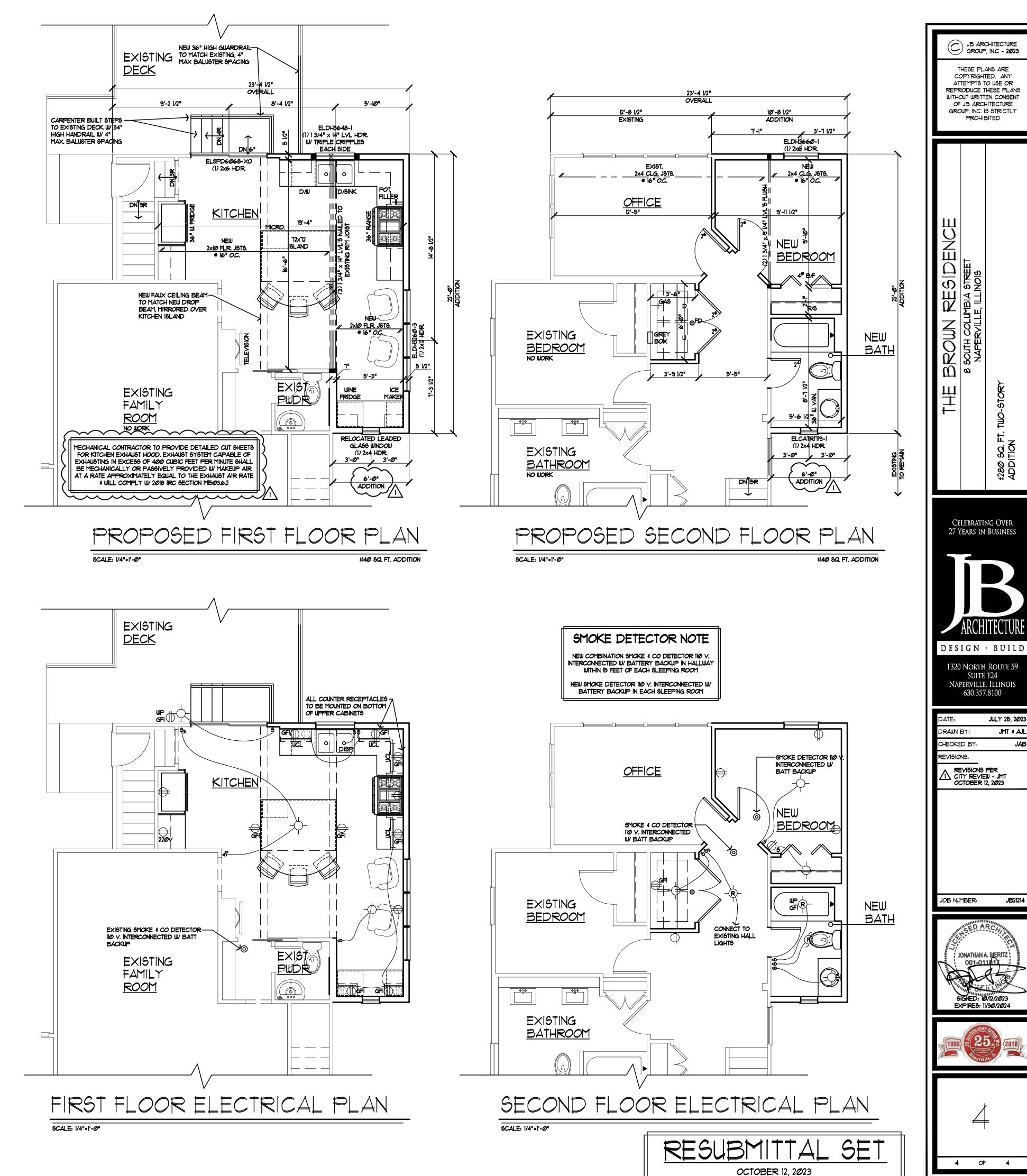


TYPICAL CRAWL SPACE SECTION

- 1. ALL SWITCHES SHALL BE LOCATED AT A HEIGHT NOT TO EXCEED 48" AFF. MEASURED FROM FINISHED FLOOR TO CENTER OF
- 2. ALL RECEPTACLES SHALL BE LOCATED AT A HEIGHT OF NOT LESS THAN 15" AFF. MEASURED FROM FINISHED FLOOR TO CENTER OF RECEPTACLE.
- 3. ALL 125 VOLT, 15- AND 20- AMPERE RECEPTACLES SHALL BE TAMPER-RESISTANT RECEPTACLES. 4. ALL 125 YOLT, SINGLE PHASE, 15- AND 20- AMPERE RECEPTACLES IN BEDROOMS, FAMILY, DINING, LIVING, PARLORS, LIBRARIES, DENS, SUNROOMS, RECREATION, CLOSETS, HALLWAYS,
- OR SIMILAR ROOMS TO BE ARC-FAULT CIRCUIT INTERRUPTED AS
- 5. A 125 VOLT, SINGLE PHASE, 15- AND 20- AMPERE RECEPTACLE OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR SERVICING OF THE FURNACE ON THE SECOND FLOOR.
  6. LUMINARIES IN CLOTHES CLOSETS SHALL BE INSTALLED AND
- COMPLY W 2011 NEC 410.

  1. FOYERS MORE THAN 60 SF., NOT PART OF A HALLWAY, ANY WALL SPACE OF 36" OR MORE REQUIRE AN OUTLET. 8. ALL 125 VOLT, 15- AND 20- AMPERE OUTLETS IN GARAGE MUST
- BE GFI PROTECTED. 9. ALL 125 YOLT, 15- AND 20- AMPERE OUTLETS WITHIN 6 FT. OF
- SINKS (EXCEPT KITCHENS) MUST BE GFI PROTECTED. 10. ALL 125 YOLT, 15- AND 20- AMPERE OUTLETS IN UNFINISHED BASEMENT MUST BE GFI PROTECTED.





JULY 25, 202 JMT # AJL