

# Convert 2-Unit to Single Family Residence.

## Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans.

223 Center Street, Naperville Illinois 60540

Building Info: 2-Story, Residential Use, Frame Building

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### CITY OF NAPERVILLE ADOPTED CODES

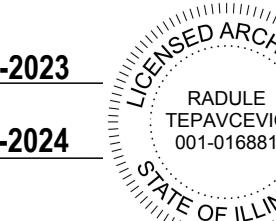
2018 INTERNATIONAL BUILDING CODE	2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL RESIDENTIAL CODE	2018 INTERNATIONAL PROPERTY MAINTENANCE CODE
2012 INTERNATIONAL MECHANICAL CODE	2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FIRE CODE	2021 INTERNATIONAL ENERGY CONSERVATION CODE
2018 LIFE SAFETY CODE	2018 INTERNATIONAL EXISTING BUILDING CODE
ILLINOIS PLUMBING CODE	

### STATEMENT OF COMPLIANCE

THIS IS TO CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF CONFORM TO THE REQUIREMENTS OF THE CITY OF NAPERVILLE ADOPTED BUILDING CODES.

SIGNED: *R.T. Tepavcevic* DATE: 07-04-2023

ILLINOIS: LIC. NO. 001-016881, EXP. DATE: 11-30-2024

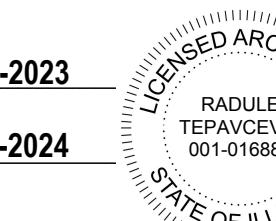


### ENERGY CONSERVATION CODE COMPLIANCE STATEMENT

I CERTIFY THAT I AM A THE REGISTERED DESIGN PROFESSIONAL FOR THIS PROJECT. I ALSO CERTIFY THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF THE ATTACHED PLANS FOR: 223 CENTER STREET, NAPERVILLE, IL 60540 FULLY COMPLY WITH THE REQUIREMENTS OF THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE, ADOPTED INTO THE CITY OF NAPERVILLE ORDINANCE

SIGNED: *R.T. Tepavcevic* DATE: 07-04-2023

ILLINOIS: LIC. NO. 001-016881, EXP. DATE: 11-30-2024



### LIABILITY INSURANCE:

PROVIDE LIABILITY INSURANCE (HOLD HARMLESS AGREEMENT); THE CONTRACTOR SHALL MAINTAIN CONTRACTUAL LIABILITY INSURANCE TO COVER LIABILITY ASSUMED UNDER THE FOLLOWING AGREEMENT: THE CONTRACTOR AND ANY SUBCONTRACTOR SHALL INDEMNIFY AND SAVE HARMLESS OWNER AND ARCHITECT/ENGINEER (A/E), AND THEIR PARTNERS, AGENTS AND EMPLOYEES AGAINST ANY LOSS, DAMAGE OR EXPENSE FOR WHICH THE OWNER AND A/E MAY BECOME LIABLE ON AN ACCOUNT OF BODILY INJURY INCLUDING DEATH OR PROPERTY DAMAGE SUSTAINED BY ANYONE WHICH MAY ARISE OUT OF OR RESULT FROM THE OPERATIONS OF THE CONTRACTOR OR OF THOSE EMPLOYED BY HIS AGENTS OR SERVANTS INCLUDING HIS SUBCONTRACTORS, IN THE EXECUTION OF ANY WORK INCLUDED UNDER THIS CONTRACT, WHETHER OR NOT IT SHALL BE CLAIMED THAT THE INJURY OR DAMAGE WAS CAUSED THROUGH A NEGLIGENT ACT OR OMISSION OF THE OWNER AND A/E THEIR AGENTS, SERVANTS OR EMPLOYEES, OR BY ANY OTHER PERSONS WHOEVER; AND THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, APPEAR, DEFEND, PAY ALL COSTS AND EXPENSES, INCLUDING ATTORNEYS FEES AND ALL JUDGEMENTS IN CONNECTION WITH LIABILITY ASSUMED HERE UNDER, THE FOLLOWING INDEMNIFICATION SHALL ALSO INCLUDE ALL LIABILITY OF THE OWNER, A/E AND OTHER MENTIONED PERSONS ARISING UNDER THE SO CALLED "STRUCTURAL WORK ACT" (CH. 48 SEC. 60-90 ILLINOIS REVISED STATS) EACH AND EVERY CONTRACTOR AND SUBCONTRACTOR WHEN ACCEPTING CONTRACTUAL OBLIGATIONS FOR THIS PROJECT SHALL UNDERSTAND THAT A PREREQUISITE TO ANY OPERATION AT PROJECT WHETHER FILED WITH OWNER OR NOT, THAT THEY HAVE IMPLIED AGREEMENT TO THE ABOVE ITEM, (HOLD HARMLESS AGREEMENT AND ITS SPECIFIC WORDING).

### LIMIT OF WARRANTY OF ARCHITECT'S WORK PRODUCT:

THE A/E AND HIS CONSULTANTS DO NOT WARRANTY OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE WORK BEYOND A REASONABLE DILIGENCE; IF ANY ERRORS, DISCREPANCIES OR OMISSIONS ARE FOUND TO EXIST IN THE WORK PRODUCT, THE A/E SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE A/E OF SUCH CONDITIONS SHALL ABSOLVE THE A/E FROM ANY RESPONSIBILITY OF SUCH FAILURE. ACTION TAKEN WITHOUT KNOWLEDGE AND CONSENT OF THE A/E OR IN CONTRADICTION TO THE WORK PRODUCT OR THE RECOMMENDATIONS OF THE A/E SHALL BECOME THE RESPONSIBILITY OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

### NOTES:

1. THE INFORMATION SHOWN ON THESE DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME TO THE A/E. THIS INFORMATION CANNOT BE GUARANTEED TO SHOW EVERY EXISTING CONDITIONS. THE CONTRACTORS SHALL READ AND STUDY THE TOTAL SET OF PLANS FOR ALL WORK. CONTRACTOR MUST VISIT THE SITE AND DETERMINE ALL FIELD CONDITIONS. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND ALL DISCREPANCIES SHALL BE REPORTED TO A/E PRIOR TO BID SUBMISSIONS.
2. THE INFORMATION SHOWN IN THESE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE SHOP DRAWINGS COORDINATED WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DESIGN FOR REVIEW AND APPROVAL BY THE A/E OF RECORD.

### ADDITIONAL GENERAL NOTES

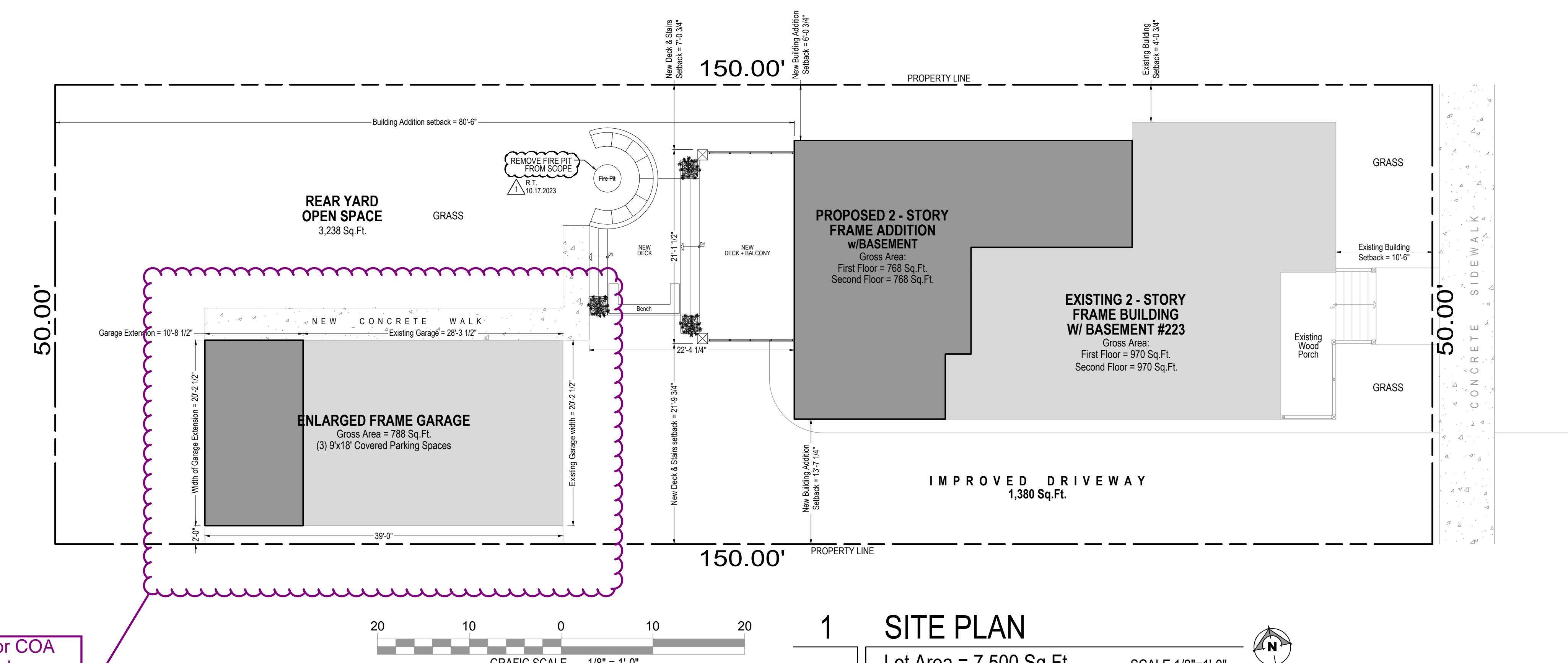
1. THE WORK SHALL NOT CAUSE THE STRUCTURE TO BECOME UNSAFE OR ADVERSELY AFFECT THE PERFORMANCE OF THE BUILDING.
2. STRUCTURAL ELEMENTS THAT ARE UNCOVERED DURING THE COURSE OF THE ALTERATION AND THAT ARE FOUND TO BE UNSOUND OR DANGEROUS SHALL BE MADE TO COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE 2018IRC.
3. IN THE EXISTING HOUSE, A SMOKE DETECTOR MUST BE INSTALLED IN EACH SLEEPING ROOM, OUTSIDE EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM AND ON EACH FLOOR.
4. SMOKE ALARMS IN THE PORTION OF THE RESIDENCE THAT IS NOT IMPACTED BY THE SCOPE OF WORK SHALL BE PERMITTED TO BE BATTERY POWERED AND INTERCONNECTED. SMOKE ALARMS WITHIN THE AREA OF THE SCOPE OF WORK SHALL BE INTERCONNECTED, 110V, HARD WIRED, WITH BATTERY BACKUP. 2018IRC NAPERVILLE R34.
5. IN THE EXISTING HOUSE, A MINIMUM OF ONE CARBON MONOXIDE DETECTOR SHALL BE INSTALLED WITHIN 15 FEET OF ANY SLEEPING AREA WITHIN ANY DWELLING UNIT. CARBON MONOXIDE DETECTORS IN THE PORTION OF THE RESIDENCE THAT IS NOT IMPACTED BY THE SCOPE OF WORK SHALL BE PERMITTED TO BE BATTERY POWERED.
6. ALL ILLINOIS HOMES ARE REQUIRED TO HAVE SMOKE ALARMS WITH A SELF-CONTAINED, NON-REMOVABLE, LONG TERM (10-YEAR LITHIUM) BATTERY. EFFECTIVE JAN. 1ST, 2010.
7. ANY EXISTING NON-HARDWIRED, BATTERY-POWERED SMOKE ALARMS MUST BE REPLACED WITH A 10-YEAR SEALED BATTERY SMOKE ALARM IF ANY OF THE FOLLOWING IS TRUE:
  - THE UNIT IS 10 YEARS OLDER THAN THE DATE OF MANUFACTURE (OR IF THERE IS NO MANUFACTURED DATE ON THE DEVICE).
  - THE UNIT IS NO LONGER IN OPERATION OR FAILS TO RESPOND TO OPERABILITY TESTING.
  - A NEW DEVICE IS BEING INSTALLED.

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R.T. ARCHITECT INC.

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PROJECT ARCHITECT: R.T.  
DRAFTPERSON: CS  
APPROVED: RT  
PREPARED FOR: OWNER  
LOCATION: 223 Center Street  
Naperville, IL 60540  
JOB NUMBER: 2223CS-07042023  
SHEET No.: CS  
R.T.  
Title Sheet

BUILDING INFORMATION		
	EXISTING	PROPOSED
YEAR BUILT	1865	---
STORIES	TWO	TWO
NO. OF BUILDINGS / MATERIAL	ONE / FRAME	ONE / FRAME
FLOOR AREA RATIO	0.33	0.57
LOT COVERAGE	0.20	0.33
RESIDENTIAL UNITS	ONE	ONE
LOT AREA	7,500 SQ.FT.	7,500 SQ.FT.
BUILDING AREA	1,944 SQ.FT.	3,476 SQ.FT.
GARAGE AREA	572 SQ.FT.	788 SQ.FT.



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SHEET No.: SP  
R.T.  
SHEET Name:  
Site Plan



## ABBREVIATIONS

A	G	Q
AC	Acoustical ceiling	GA Gauge
A/C	Air conditioning	GALV Galvanized
ADJ	Adjacent	GC General Contractor
AFF	Above finished floor	GL Glass
ALT	Alternate	GRD Ground
AL	Aluminum	GWB Gypsum Wallboard
ALUM	Aluminum	GYP Gypsum
AP	Access panel	REF Reference
APPROX	Approximately	REINF Reinforced, Reinforcing
		REQD Required
B		HB Hose Bibb
		REV Revise(d), Revision
B/	Bottom, Bottom of	HC Handicapped Accessible
BD	Board	HDWE Hardware
BLDG	Building	HORIZ Horizontal
BLK	Block, Blocking	HP High Point
BM	Beam	HVAC Heating, Ventilation & A/C
BSMT	Basement	SECT Section
C		I Square foot
CAB	Cabinet	IN Inch
C/C	Center-to-center	INSUL Insulated, Insulation
CJ	Control joint	INT Interior
CL	Center line	J Joint
CLG	Ceiling	JT Joint
CLR	Clear	SS Stainless Steel
CMU	Concrete Masonry Unit	ST Standard
COL	Column	LAM Laminate
CONC	Concrete	LAV Lavatory
CONST	Construction	LP Low Point
CONT	Continuous	SUSP Suspended
CORR	Corridor	LT Light
CPT	Carpet	LTG Lighting
CT	Ceramic tile	T Top of
D		MACH Machine
DIA	Diameter	MAS Masonry
DIM	Dimension	MATL Material
DN	Down	MAX Maximum
DR	Door	MECH Mechanical
DTL	Detail	MFR Manufacturer
DWG	Drawing	MIN Minimum
E		UL Underwriters Laboratory
MTL	Metal	UNO Unless noted otherwise
E	East	MULL Mullion
EA	Each	VB Vapor Barrier
ELEC	Electric, Electrical	VCT Vinyl Composition Tile
ELEV	Elevator, Elevation	N Vertical
EQ	Equal	NC Non-combustible
EX	Existing	NIC Not in Contract
EXIST	Existing	NO Number
EXP	Exposed	NOM Nominal
EXT	Exterior	NRC Noise Reduction Coefficient
F		W Width
FD	Floor Drain	WTS Without
FDN	Foundation	WC Water close
FF	Finished Floor	OC On center
FIN	Finish, Finished	OCC Occupancy, Occupant(s)
FL	Floor	OH Opposite Hand
FLR	Floor	OPNG Opening
FTG	Footing	WP Waterproofing, Work point
FUT	Future	OPP Opposite
		WWF Welded Wire Fabric
PLAM	Plastic Laminate	
PLBG	Plumbing	
PLWD	Plywood	
PROP	Property	
PTD	Painted	
PVC	Polyvinyl Chloride	

## WORKING DRAWING NOTES

- CONTRACTOR SHALL VERIFY AND COORDINATE ALL NEW AND EXISTING CONDITIONS AND DIMENSIONS AT JOB SITE FOR COMPARISON WITH DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING AND START OF AND DURING CONSTRUCTION. IF ANY DISCREPANCIES OR OMISSIONS ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED, IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL RELY ON WRITTEN DIMENSIONS GIVEN. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATIONS. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE THE COMMENCEMENT OR RETURN TO WORK.
- ABBREVIATIONS THROUGHOUT THE PLANS ARE THOSE IN COMMON USE. NOTIFY THE ARCHITECT OF ANY ABBREVIATIONS IN QUESTION.
- DIMENSIONS SHOWN ON FLOOR PLANS, SECTIONS, ELEVATIONS, AND DETAILS ARE TO FINISH FACE OF WALL, MASONRY, OR CONCRETE, UNLESS OTHERWISE NOTED.
- IN THE CASE OF A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, SPECIFICATIONS SHALL TAKE PRECEDENCE. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY CONFLICT BEFORE PROCEEDING WITH THE WORK.
- THE SPECIFICATIONS AND ALL CONSULTANT DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF ANY OF THE CONSULTANT'S WORK AND TO BRING ANY DISCREPANCIES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT, IN WRITING FOR CLARIFICATION. IMPROPERLY INSTALLED WORK SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT HIS EXPENSE AND AT NO EXPENSE TO THE ARCHITECT, HIS/HER CONSULTANTS, OR THE OWNER.
- THE ARCHITECT SHALL BE CONSULTED IN ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY BUILDING IS EITHER EXPIRED NCESSARY. PRIOR TO PROCEEDING WITH WORK, REINFORCEMENT AND/OR SUPPORT SATISFACTORY TO ARCHITECT AND STRUCTURAL ENGINEER SHALL BE PROVIDED BY CONTRACTOR PRIOR TO CUTTING INTO STRUCTURAL PORTIONS OF ANY BUILDING.
- LEGAL EXITS SHALL NOT BE BLOCKED AT ANY TIME.
- FINAL CLEAN UP AND DISPOSAL: REMOVE DEBRIS, RUBBISH, AND WASTE MATERIALS FROM THE OWNERS PROPERTY TO A LAWFUL DISPOSAL AREA AND PAY ALL HAULING AND DUMPING COSTS, CONFORM TO PERTAINING FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDERS. UPON COMPLETION OF WORK, ALL CONSTRUCTION AREAS SHALL BE LEFT VACUUM-CLEAN AND FREE FROM DEBRIS, CLEAN ALL DUST, DIRT, STAINS, HANDMARKS, PAINT SPOTS, DROPPINGS AND OTHER BLEMISHES.
- PRIOR TO INSPECTION OF EXISTING FACILITIES, THE CONTRACTOR MUST RECEIVE PERMISSION FOR SITE ACCESS FROM THE OWNER OR THE DESIGNATED REPRESENTATIVE.
- WHEN IT IS NECESSARY TO INTERRUPT ANY EXISTING UTILITY SERVICE TO MAKE CORRECTIONS AND/OR CONNECTION, A MINIMUM OF 48 HOURS ADVANCE NOTICE SHALL BE GIVEN TO THE OWNER. INTERRUPTIONS IN UTILITY SERVICES SHALL BE OF THE SHORTEST POSSIBLE DURATION FOR THE WORK AT HAND AND SHALL BE APPROVED IN ADVANCE BY THE OWNER.
- IN THE EVENT THE UTILITY SERVICE IS INTERRUPTED WITHOUT THE REQUIRED 48 HOUR NOTICE, THEN THE CONTRACTOR SHALL BE FINANCIALLY LIABLE FOR ALL DAMAGES SUFFERED BY THE OWNER DUE TO THE UNAUTHORIZED INTERRUPTION. RECONNECTION SHALL BE MADE IMMEDIATELY.
- IF THE CONTRACTOR ASCERTAINS AT ANY TIME THAT THE REQUIREMENTS OF THIS CONTRACT CONFLICT WITH, OR ARE IN VIOLATION OF, APPLICABLE LAWS, CODES, REGULATIONS, AND ORDINANCES, HE SHALL NOT PROCEED THE WORK IN QUESTION, EXCEPT AT HIS OWN RISK, UNTIL ARCHITECT HAS BEEN NOTIFIED IN WRITING AND WRITTEN DETERMINATION IS MADE BY THE ARCHITECT. WHERE COMPLETED OR PARTIALLY COMPLETED WORK IS DISCOVERED TO BE IN VIOLATION WITH APPLICABLE LAWS, CODES, REGULATIONS AND ORDINANCES, CONTRACTOR SHALL BE REQUIRED TO REMOVE THAT WORK WITH ALL NEW COMPLYING WORK AT NO ADDITIONAL EXPENSE TO THE OWNER, ARCHITECT OR CONSULTANTS.
- ANY WORK INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS/HER EXPENSE AND AT NO ADDITIONAL EXPENSE TO THE OWNER, ARCHITECT OR CONSULTANTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FLOOR-TO-FLOOR ELEVATIONS; THE NEW BUILDING EXPANSION GROUND FLOOR SHALL ALIGN IN ELEVATION WITH RESPECTIVE FLOORS IN EXISTING BUILDING.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR THE SATISFACTORY COMPLETION OF WORK UNLESS DESIGNATED (N.I.C.) OR (O.F.O.I.). ALL EQUIPMENT, WORK AND MATERIALS SHALL COMPLY WITH ALL CURRENT AND LOCAL APPLICABLE CODES AND GOVERNING REGULATIONS, AND CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROTECT ALL FINISH WORK AND SURFACES FROM DAMAGE DURING THE COURSE OF CONSTRUCTION AND SHALL REPLACE AND/OR REPAIR ALL DAMAGED SURFACES CAUSED BY THE CONTRACTOR OR SUBCONTRACTOR PERSONNEL TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
- THE CONTRACTOR SHALL PROVIDE SANITARY FACILITIES FOR WORKER'S USE. EXISTING FACILITIES SHALL AND MAY NOT BE USED.
- THE CONTRACTOR SHALL OBTAIN OSHA PERMITS FOR ANY VERTICAL EXCAVATION OVER 5'-0" DEEP INTO WHICH PERSONS MUST DESCEND.
- CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING ALL PERMITS AND FEES REQUIRED, NOT NORMALLY COVERED BY THE BUILDING PERMITS.
- DRAWINGS OF EXISTING CONDITIONS HAVE BEEN COMPILED FROM EXISTING DATA SUPPLIED BY THE OWNER TO THE ARCHITECT. THE ARCHITECT MAKES NO WARRANTY EITHER EXPRESSED OR IMPLIED, FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING INFORMATION RECORDED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
- THE EXIT DOOR MUST OPEN OVER A LANDING NOT MORE THAN 1'-0" BELOW THE THRESHOLD.
- OVERHEAD DOORS ARE NOT PERMITTED AS EXIT DOORS.
- THE CONSTRUCTION OR DEMOLITION OF ANY BUILDING STRUCTURE, SCAFFOLDING OR FALSEWORK MORE THAN THREE STORIES OR 36'-0" IN HEIGHT REQUIRES A PERMIT FROM THE STATE OF ILLINOIS DIVISION OF INDUSTRIAL SAFETY (OR EQUAL) PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
- APPROVED NUMBERS AND ADDRESSES SHALL BE PROVIDED IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET.

## MATERIAL NOTES

WOOD
1. SOUTHERN YELLOW PINE, PRESSURE TREATED USING ACQ-C, ACQ-D, CBA-A OR CA-B PRESERVATIVE. GRADE NO. 2 OR BETTER SHALL BE USED FOR COLUMNS AND GRADE NO. 2 OR BETTER SHALL BE USED FOR ALL OTHER MEMBERS.
2. ALL WOOD CONSTRUCTION SHALL CONFORM TO THE ATIC (AMERICAN INSTITUTE OF TIMBER CONSTRUCTION) AND THE APA (AMERICAN PLYWOOD ASSOCIATION) NATIONAL DESIGN SPECIFICATIONS.
3. ALL WOOD CONSTRUCTION EXPOSED TO WEATHER TO BE PRESSURE TREATED.
FASTENERS
FASTENERS SHALL BE AS FOLLOWS:
1. NAILS: STAINLESS STEEL OR HOT-DIPPED GALVANIZED, SIZED AS SPECIFIED IN DETAILS.
2. DECK SCREWS: 2-1/2" TO 3-1/2" LONG, #8 MINIMUM SIZE, STAINLESS STEEL OR HOT-DIPPED GALVANIZED.
3. LAG BOLTS: STAINLESS STEEL OR HOT-DIPPED GALVANIZED, SIZED AS SPECIFIED IN DETAILS. MATERIAL SHALL BE SAE GRADE #2.
4. HEX BOLTS: STAINLESS STEEL OR HOT-DIPPED GALVANIZED, SIZED AS SPECIFIED IN DETAILS. MATERIAL SHALL BE ASTM A307.
CONCRETE
1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301), LATEST EDITION.
2. ALL NORMAL WEIGHT CONCRETE (145 P.C.F.) SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
FOOTINGS - 3500 PSI PEDESTALS - 3500 PSI
3. PROTECTION SHALL BE TAKEN TO PROTECT ALL CONCRETE WORK FROM FROST DAMAGE WITH SPECIAL ATTENTION PAID TO FOOTING AND OTHER ON-GRADE CONSTRUCTION PRIOR TO BACKFILLING AND ENCLOSING THE BUILDING.
4. CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE.
5. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE WITH SPECIFIED STRENGTH LESS THAN 6000 PSI SHALL BE AIR-CURED 4% TO 6%.
6. COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-305. HOT WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-306.
7. EXCAVATION WORK TO BE PERFORMED BY A LICENSED, INSURED & BONDED, EXCAVATION CONTRACTOR, WITH THE CITY OF NAPERVILLE.
REINFORCEMENT BARS
1. REINFORCEMENT BARS SHALL BE ASTM A615, GRADE 60 STEEL.
MASONRY
1. MASONRY UNITS SHALL COMPLY WITH APPLICABLE ASTM STANDARDS, AND MORTAR SHALL BE TYPE M OR S, WITH 1" M-150 PSI.
METAL CONSTRUCTION CONNECTORS
1. SHALL BE STAINLESS STEEL, HOT-DIPPED GALVANIZED OR TRIPLE ZINC GALVANIZED (G-185). SIMPSON STRONG-TIE UNITED STEEL PRODUCTS OR EQUAL, TO BE USED FOR JOIST HANGER, COLUMN BASE, METAL STRAP AND METAL ANGLE CONNECTIONS. NOTE THAT IF HOT-DIPPED GALVANIZED OR TRIPLE ZINC GALVANIZED CONNECTORS ARE USED, ALL THE FASTENERS FOR THAT CONNECTION MUST BE HOT-DIPPED GALVANIZED AS WELL, SINCE THE STAINLESS STEEL COULD DAMAGE THE GALVANIZING.
FLASHING AND SEALANTS
1. FLASHING SHALL BE 26 GA. STAINLESS STEEL (0.015 IN MINIMUM THICKNESS ASTM A167, TYPE 304) OR 16GA ROLLED COPPER (0.021 IN MINIMUM THICKNESS ASTM B370). CARLISLE COATINGS' CCW-705 SELF-ADHERING VAPOR/AIR BARRIER SYSTEM OR EQUAL SHALL BE USED FOR THE VAPOR BARRIER AT THE LEDGER BEAM CONNECTIONS. SEALANT SHALL BE 100% SILICONE RUBBER SEALANT WITH A 50 YEAR DURABILITY GUARANTEE.
STRUCTURAL STEEL
1. ALL STRUCTURAL STEEL SHALL BE ASTM A-36, COATED WITH A RUST PROHIBITED PRIMER WITH A MINIMUM DRY THICKNESS OF 3 MILS.

## TABLE A - METAL CONNECTORS

ITEM	SST MODEL#	USP MODEL#	GAGE	INSTALLATION HARDWARE
SINGLE JOIST HANGER 1	LUS210 Z OR SS	JUS210 TZ, SS	18	4-10d (Joist), 8-10d (Header)
DOUBLE JOIST HANGER 2	LUS210-ZZ OR SS	JUS210-ZZ, SS	18	6-16d (Joist), 8-16d (Header)
SINGLE JOIST HANGER 3	LUS28 Z	JUS28 TZ, SS	18	4-10d (Joist), 8-10d (Header)
DOUBLE JOIST HANGER 4	LUS28-ZZ	JUS28-ZZ	18	4-16d (Joist), 6-16d (Header)
METAL ANGLE 1	L90 Z	AC9 TZ	16	10-10d, 5 each Leg
METAL ANGLE 2	A23 Z	A3 TZ	18	8-10d x 1-1/2", 4 each Leg
METAL ANGLE 3	TA9 Z OR KT	SCA9 TZ	12	5-1/4" dia. x 1-1/2" wood Screw
COLUMN BASE: 6"X6" POST	CBS066-SDS2 HDG	CBS066-SDS2 TZ	12	14-1/4" dia. x 2" wood Screw
COLUMN BASE: 6"X6" POST	ABU62	---	12	12-16d, (2) 1/2" dia. Bolts, 5/8" Anchor
POST BASE: RAILING POST	PBS414 HDG	WAS44 TZ	12	14-16d, (2) 1/2" dia. Bolts
METAL STRAP	MSTA12 Z OR SS	MSTA12 TZ, SS	18	10-10d
POST BASE PLATE	CPB4	CPB44	—	4-10d

NOTES:

1. USE SMALLER LENGTH NAILS WITH SPECIFIED PENNY WEIGHT.

2. 6" MIN POST STRONG TIE: 10-10d, 4-10d x 1-1/2" dia. x 2" wood Screw.

3. STAINLESS STEEL: Z = ZINC GALVANIZED (G-185), TZ = TRIPLE ZINC GALVANIZED (G-185).

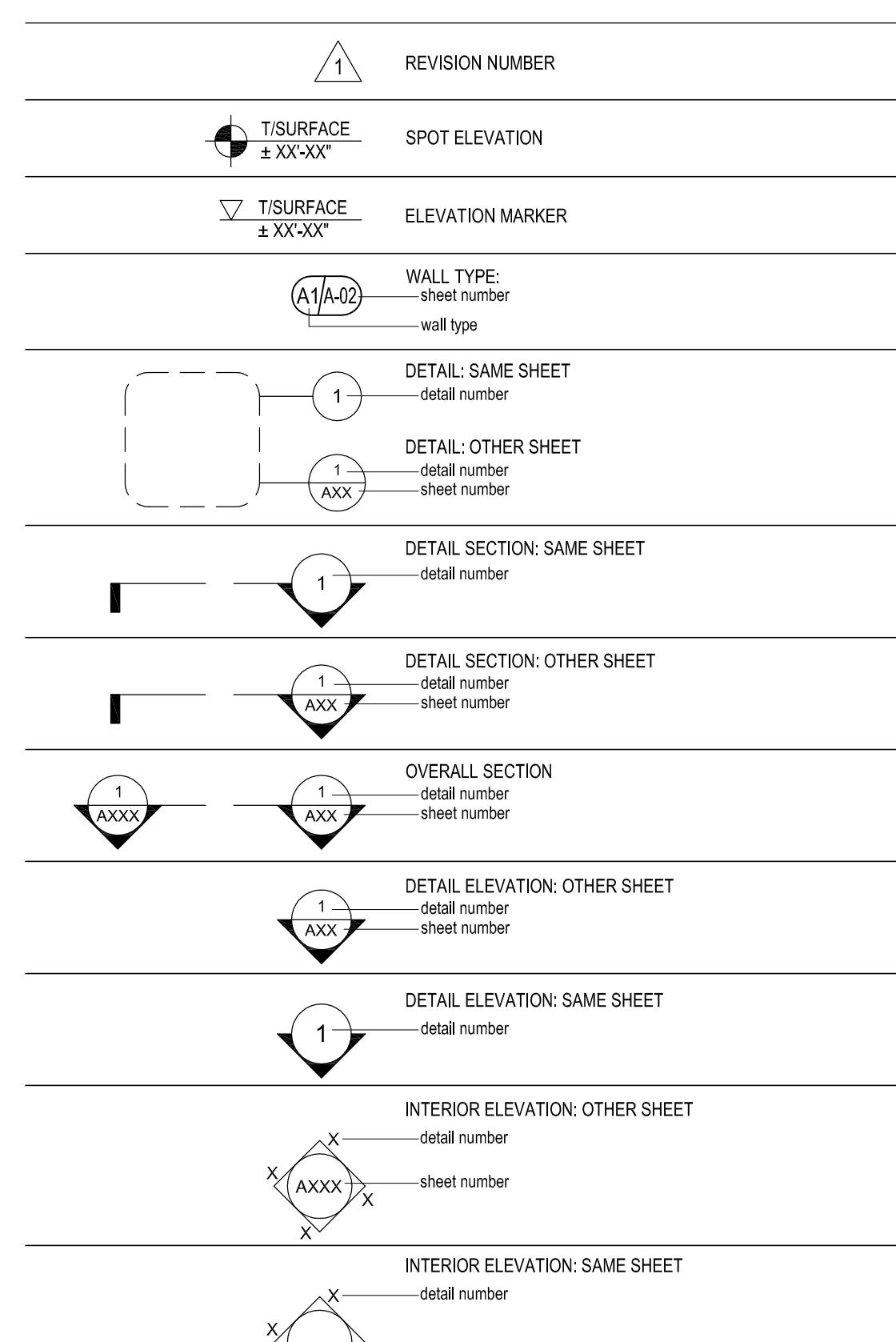
## FLAME SPREAD RATING

MATERIALS USED FOR INTERIOR WALL AND CEILING FINISH SHALL CONFORM AS FOLLOWS:		
STAIRWAYS, PUBLIC LOBBIES & PUBLIC CORRIDORS	CLASS 1	
BUSINESS UNITS	CLASS 2	
RESIDENTIAL UNITS	CLASS 1	
FLAME SPREAD RATING	FLAME SPREAD RATING	SMOKE DEVELOPED
CLASS 1	0 TO 12	200
CLASS 2	26 TO 76	450
CLASS 3	76 TO 200	450

## BUILDING DESIGN LOADS

ROOF LOADS
LIVE LOAD 15 PSF
DEAD LOAD 15 PSF
SNOW LOAD 25 PSF
DRIFT SNOW LOAD 15 PSF
FIRST FLOOR LOADS
LIVE LOADS
RESIDENTIAL 40 PSF
DEAD LOADS 20 PSF
LATERAL LOADS
WIND LOADS 20 PSF

## GENERAL DRAWING SYMBOLS



## DIVISION 1 GENERAL REQUIREMENTS

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES AND ORDINANCES AND ALL AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH WORK AND NOTIFY SUPERINTENDENT AT ONCE OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- PLUMBING SCHEMATIC DRAWING, HVAC DRAWING, SEWER MAIN, ELECTRICAL OUTLETS, SWITCHES, LIGHT LOCATIONS FOR ROUTING ALL PLUMBING, MECHANICAL AND ELECTRICAL WORK IS TO BE COORDINATED BETWEEN THE TRADES AFFECTED BY THE WORK AS PART OF THEIR INSTALLATION LAYOUT. NO PLUMBING, MECHANICAL OR ELECTRICAL INFORMATION IS TO BE SCALED FROM THE DRAWING.
- ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR.
- EXTRAS SHALL BE AUTHORIZED IN WRITTEN CHANGE ORDERS ONLY BY THE A/E OF RECORD. OWNER TO AUTHORIZE CHANGE ORDERS IF CONTRACT BETWEEN OWNER & CONTRACTOR ALLOWS THEM.
- ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER.
- EVERY CONTRACTOR SHALL INCLUDE LABOR, MATERIALS, TOOLS, EQUIPMENT, ETC., FOR THE COMPLETE CONSTRUCTION OF WORK INDICATED AND SPECIFIED BY THE DRAWINGS AND SPECIFICATIONS.
- MATERIALS AS SPECIFIED ON DRAWINGS SHALL BE USED OR EQUAL APPROVED.
- SUBSTITUTION OF MATERIALS SHALL NOT BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE GENERAL CONTRACTOR.
- EACH SUBCONTRACTOR SHALL AMEND AND MAKE GOOD AT HIS/HER OWN COST, ANY DEFECT OR OTHER FAULTS IN THEIR WORK OR MATERIAL.
- EACH CONTRACTOR IS TO CLEAN UP DEBRIS INSIDE AND OUTSIDE THE BUILDING SITE WHICH HAS BEEN CAUSED BY THEIR WORK OR BE BACKCHARGED AT A RATE OF \$45.00 PER HOUR.
- THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT FOR CONSTRUCTION.
- ALL WORK AND USE OF MATERIALS SHALL BE IN ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S TRADE ASSOCIATION AND/OR INSTITUTE STANDARDS AND SPECIFICATIONS.
- OWNER WILL REQUIRE THE SUBCONTRACTORS TO OBTAIN AND MAINTAIN COMMERCIAL GENERAL LIABILITY INSURANCE WITH BROAD FROM PROPERTY DAMAGE COVERAGE AND CONTRACTUAL LIABILITY ENDORSEMENT INSURING THE INDEMNITY REQUIRED OF THE CONTRACTOR. THE INDEMNITIES ENDORSEMENT INCLUDED ON THE CONTRACTORS COMMERCIAL GENERAL LIABILITY POLICY WILL PROVIDE THE FOLLOWING:
  - THE COVERAGE AFFORDED THE ADDITIONAL INSURED WILL BE THE PRIMARY INSURANCE FOR THE ADDITIONAL INSURED WITH RESPECT TO CLAIMS ARISING OUT OF OPERATIONS PERFORMED ON OR ON BEHALF OF THE CONTRACTOR.
  - IF THE ADDITIONAL INSURED HAVE OTHER INSURANCE WHICH IS APPLICABLE TO THE LOSS SUCH OTHER INSURANCE WILL BE ON AN EXCESS OR CONTINGENT BASIS.
  - THE AMOUNT OF THE COMPANY'S LIABILITY UNDER THE INSURANCE POLICY WILL NOT BE REDUCED BY THE EXISTENCE OF SUCH OTHER INSURANCE.
  - IF ADDITIONAL INSURED WILL BE GIVEN NOT LESS THAN 30 DAYS PRIOR WRITTEN NOTICE OF ANY CANCELLATION THEREOF.
  - SUBCONTRACTORS SHALL CARRY THE FOLLOWING MINIMUM INSURANCE COVERAGE:
 

LIABILITY:	\$1,000,000.00
BODILY INJURY:	\$1,000,000.00
PROPERTY DAMAGE:	\$1,000,000.00

## DIVISION 2 SITE WORK

- REMOVE EXISTING CONSTRUCTION AND PERFORM DEMOLITION WORK AS NECESSARY TO PREPARE THE SITE FOR THE NEW WORK AS FURTHER DESCRIBED IN THE CONTRACT DOCUMENTS.
- REMOVE ALL DEMOLISHED MATERIALS FROM SITE IMMEDIATELY.
- MAINTAIN EXIT AND ACCESS WAYS IN A CLEAN, UNOBSTRUCTED, AND PROPERLY ILLUMINATED MANNER AT ALL TIMES.
- PROTECT UNAFFECTED SPACES FROM DUST, NOISE AND DAMAGE. MAINTAIN SITE IN A CLOSED AND SECURE MANNER TO PREVENT THEFT, VANDALISM, AND UNAUTHORIZED ENTRY.

## DIVISION 3 CONCRETE

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301), LATEST EDITION.
- ALL NORMAL WEIGHT CONCRETE (145 P.C.F.) SHALL OBTAINA MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
 

A. FOOTINGS	3500 PSI
B. FOUNDATION WALLS	3500 PSI
- CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE.
- ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE WITH SPECIFIED STRENGTH LESS THAN 6000 PSI SHALL BE AIR ENTRAINED 4% TO 6%.
- COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-306, HOT WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-305.
- BEARING CAPACITY OF SOIL SHALL BE 3000 LB/SF.
- IN CASE OF OVEREXCAVATING FOR FOOTING, ALL EVEREXCAVATION UNDER FOOTING SHALL BE FILLED WITH CONCRETE.

## DIVISION 4 MASONRY

- CLAY, BRICK, AND CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR ENGINEERED BRICK MASONRY" ISSUED BY THE BRICK INSTITUTE OF AMERICA AND "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY" ISSUED BY THE NATIONAL CONCRETE MASONRY ASSOCIATION, LATEST EDITION.
- GIVEN DESIGN DATA ASSUMES THE EXISTENCE OF ADEQUATE FIELD SUPERVISION OF CONSTRUCTION, FULFILLING THE "WITH INSPECTION" CRITERIA OF THE CODES.
- MASONRY MATERIALS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS:
  - HOLLOW-LOAD BEARING UNITS, ASTM C90, COMPRESSIVE STRENGTH SHALL BE OVER 1,600 PSI ON AVERAGE NET AREA OF UNITS.
  - SOLID-LOAD BEARING UNITS, ASTM C145, COMPRESSIVE STRENGTH SHALL BE OVER 1,551 PSI ON AVERAGE GROSS AREA OF UNITS.
  - MORTAR, ASTM C270, TYPE "M" OR "S", ONLY, FOR REINFORCED MASONRY MORTAR SHALL BE ASTM C476, TYPE "S".
  - METAL WIRES USED AS TIES AND ANCHORS SHALL CONFORM TO ASTM A82, ONLY CORROSION-RESISTANT METALS OR METALS WITH SUCH COATING SHALL BE USED.
  - REINFORCEMENT, WHEN INDICATED SHALL BE ASTM A615, GRADE 60.
  - CONCRETE MASONRY STRENGTH, f'm AT 28 DAYS SHALL BE 1,350 PSI MINIMUM.
  - CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE, SHALL NOT BE INCLUDED IN MORTAR OR GROUT MIX.
  - NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE TEMPERATURE IS LESS THAN 40 DEGREES FARENHEIT UNLESS ADEQUATE PROTECTION, APPROVED BY THE ARCHITECT IS USED.

- MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING ERECTION.
- TYPICAL JOINT REINFORCEMENT SHALL BE #9 GA. CONTINUOUS SIDE WIRES WITH #9 GA. CROSS TIES. SPACING 16" O.C. (VERTICALLY).

## DIVISION 5 METALS

- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE".
- STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS (UNLESS OTHERWISE NOTED):
 

STRUCTURAL SHAPES AND PLATES:	A36
STRUCTURAL TUBING:	A-500 GRADE B
- TYPICAL CONNECTIONS FOR STEEL BEAMS SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS, EXCEPT WHERE SHOWN WELDED. SHALL BE BOLTED WITH 3/4" DIA. HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325-N, OR GREATER, UNLESS OTHERWISE NOTED. CONNECTIONS SHALL BE DESIGNED FOR 60% OF THE TOTAL ALLOWABLE UNIFORM LOAD DERIVED FROM THE AISC MANUALS TABLE OF "UNIFORM LOAD CONSTANTS" FOR NON-COMPOSITE BEAMS.
- ALL COPED BEAMS TO BE DESIGNED IN ACCORDANCE WITH APPENDIX "B" OF THE AISC MANUAL "ENGINEERING FOR STEEL CONSTRUCTION". PROVIDE REINFORCING AS REQUIRED. ALL RE-ENTRANT CORNERS TO BE SHAPED, NOTCH-FREE, TO A RADIUS OF AT LEAST 1/2".
- ALL WELDING ELECTRODES SHALL BE E-70XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1-88 "CODE FOR WELDING IN BUILDING CONSTRUCTION", AND SHALL BE MADE BY QUALIFIED "CERTIFIED" WELDERS.
- ALL STRUCTURAL STEEL EXPOSED TO THE ELEMENTS SHALL RECEIVE ONE COAT OF APPROVED SHOP PAINT, IN ADDITION TO FIELD PAINT AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATIONS.
- PROVIDE MINIMUM WELD SIZE PER AISC 1.17.2.

## DIVISION 6 CARPENTRY

- FLEXURAL FRAMING MEMBERS SHALL BE AS FOLLOWS:
 

A. RAFTERS:	SPRUCE-PINE-FIR #2
B. FLOOR JOISTS:	SPRUCE-PINE-FIR #2
C. CEILING JOISTS:	SPRUCE-PINE-FIR #2
- LAMINATED VENEER LUMBER ("MICROLAM") SHALL BE BY TRUSS JOISTS MACMILLIAN OR ARCHITECT APPROVED EQUAL. MINIMUM STRUCTURAL REQUIREMENTS: F<sub>b</sub>=2,600 psi, MODULUS OF ELASTICITY=1,900,000.
- PROVIDE 1" x 4" OR METAL CROSS BRIDGING NOT OVER 6' ON CENTER FOR ALL WOOD JOISTS.
- PROVIDE SOLID BLOCKING OF THE SAME DIMENSION AS THE JOISTS BETWEEN THE JOISTS AT ALL SUPPORTS.
- ALL PLYWOOD SHOWN FOR FLOOR/ROOF DECKS AND AS WALL SHEATHING SHALL BE OF THE THICKNESS SHOWN ON THE DRAWINGS AND SHALL MEET ALL THE REQUIREMENTS OF U.S. PRODUCT STANDARD PS 1, LATEST EDITION, FOR STRUCTURAL 1 GRADE MATERIAL.
- FOR HEADERS WITH SPANS IN EXCESS OF 6 FEET, MIN. END BEARING AT HEADERS SHALL BE 2-2x4 (JACKS) AND 1-2x4 FULL HEIGHT (KING) STUD.
- PROVIDE DOUBLE JOISTS UNDER ALL BEARING PARTITIONS.
- NOTCHING IS PERMITTED TO 1/6 JOISTS DEPTH, EXCEPT NOTCHING IS NOT PERMITTED @ MIDDLE 1/3 OF SPAN.
- HOLES MAY BE BORED THROUGH FRAMING NOT TO EXCEED 2" IN DIAMETER, OR BE CLOSER THAN 2" TO TOP OR BOTTOM OF MEMBER.
- WOOD SILL PLATES ON TOP OF FOUNDATION WALLS SHALL BE PRESSURE TREATED, ON A 1/2" FOAM SILL SEALER WITH CEDAR SHIMS @ 16" O.C. (MAXIMUM) AND ANCHORED WITH BOLTS AS SHOWN IN DRAWINGS.
- ALL BOTTOM PLATES OF BASEMENT PARTITIONS TO BE PRESSURE TREATED.
- ALL WALL PARTITIONS TO HAVE STUDS @ 16" O.C. MAXIMUM SPACING. DOUBLE TOP PLATES @ ALL EXTERIOR BEARING WALL WITH MINIMUM LAP OF 48".
- BALLOON FRAME WALLS @ VOLUME CEILINGS.
- ALL SUBFLOORS TO BE 3/4" TONGUE AND GROOVE PLYWOOD GLUED AND SCREWED @ 6" O.C. @ EDGES AND 12" O.C. @ FIELD.
- ALL EXTERIOR DECK FRAMING SHALL BE PRESSURE TREATED.
- ADHERE TO TJI-MACMILLIAN REQUIREMENTS FOR MINIMUM END BEARING @ LVL's.

## DIVISION 7 INSULATION

- PROVIDE INSULATION IN ACCORDANCE WITH PLANS AND SPECIFICATIONS AND AS NEEDED TO ACHIEVE THE FOLLOWING VALUES FOR COMPLETED ASSEMBLIES ACCORDING TO 2018 IECC:
 

A. FENESTRATION:	U-FACTOR = 0.30
B. SKYLIGHT:	U-FACTOR = 0.55
C. CEILING:	R-VALUE = 49
D. EXTERIOR FRAME WALL:	R-VALUE = 20 or 13+5 (Cavity + Continuous)
E. MASS WALL:	R-VALUE = 13/17
F. FLOOR:	R-VALUE = 30
G. CRAWL SPACE WALL:	R-VALUE = 15/19
- INSTALL INSULATION MATERIALS IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS. FILL CAVITIES COMPLETELY AND TAPE JOINTS BETWEEN BOARDS.
- FILL GAPS BETWEEN JAMBS AND FRAMING WITH NON-FORMALDEHYDE FOAM FILLER.
- INSULATE DUCTS AND PLUMBING PIPES SUBJECT TO SWEATING

## DIVISION 8 WINDOWS & DOORS

### INTERIOR DOORS

- PROVIDE BLOCKING @ HINGES AND JAMB REINFORCING AS RECOMMENDED BY DOOR FRAME MANUFACTURER.
- BI-FOLD DOORS SHALL BE IN ALIGNMENT WITH ONE ANOTHER AND PARALLEL TO THE TRACK WHEN CLOSED. PROVIDE SPACERS AS REQUIRED. BI-FOLD DOORS SHALL BE 1 3/8", 2 PANEL FOR PAINT WITH HEAVY-DUTY TRACK, TRACK TO BE CONCEALED BY 1/4 ROUND WOOD TRIM. BI-FOLD DOOR JAMBS TO BE TRIMMED OUT WITH 1x POPLAR JAMBS AND DOOR CASING AS NOTED ABOVE.
- ALL INTERIOR SWING DOORS SHALL BE 1-3/4" SOLID CORE, 2-PANEL DOORS FOR PAINT FINISH.
- INTERIOR DOORS SHALL BE TRIMMED WITH 1x POPLAR JAMBS AND DOOR CASING AND PLINTH BLOCKS AS SPECIFIED ABOVE.
- PROVIDE THRESHOLDS FOR EXTERIOR DOOR, NEOPRENE WEATHER STRIPPING, TYPICAL AT HEADS, JAMBS AND SILLS.

### DOOR HARDWARE

- PROVIDE HARDWARE COMPATIBLE WITH DOOR THICKNESS, WEIGHT AND MATERIAL.
- ALL DOORS SHALL HAVE 1-1/2" PAIR HINGES FOR SIZES UP TO 3x7".
- LATCH BOLTS SHALL HAVE 5/8" THROW AT ALL LATCH SETS AND LOCKSETS.
- EXTERIOR DOOR HARDWARE SHALL BE LEVER TYPE, STANDARD GRADE, CYLINDER LATCH BY BALDWIN (OR OWNER APPROVED EQUAL).
- INTERIOR DOOR HARDWARE SHALL BE LEVER TYPE, RESIDENTIAL GRADE, CYLINDER LATCH BY SCHLAGE (OR EQUAL).

## DIVISION 9 FINISHES

### FINISHES GENERAL NOTES

- ALL FINISHES SHALL BE CLASS 1, 0-25 FLAME SPREAD RATING.
- CLEAN AND PREPARE PRIME SURFACES IN COMPLIANCE WITH THE FINISH MATERIAL'S MANUFACTURER'S INSTRUCTIONS.
- PROVIDE A MINIMUM OF ONE PRIME COAT AND ONE FINISH COAT FOR ALL PAINTED SURFACES.
- DO NOT PAINT OVER LABELS, FACTORY FINISH METAL TRIM, DOOR HARDWARE, ELECTRICAL FIXTURES, EQUIPMENT, SPRINKLER HEADS, OR MILLWORK ASSEMBLIES.
- PROVIDE TOUCH-UP PAINTING TO MATCH EXISTING PAINT COLORS AND TEXTURES WHERE INFILL OR PATCH AND REPAIR WORK IS REQUIRED AT EXISTING CONSTRUCTION.
- ALL DRYWALL SURFACES SHALL BE PAINTED EXCEPT WHERE CERAMIC TILE IS SPECIFIED.
- PROVIDE CORNER AND J-BEADS AT ALL TERMINATIONS AND CORNERS OF GYPSUM BOARD.
- ALL DIMENSIONS TO FACE OF DRYWALL.
- GENERAL CONTRACTOR SHALL COORDINATE STAIR CONSTRUCTION WITH FINAL FLOOR FINISH SELECTIONS TO OBTAIN PROPER HEIGHTS.
- PROVIDE CEMENTITIOUS BACKER BOARD AT ALL TILE LOCATIONS AND WET SURFACES.
- PROVIDE THRESHOLDS AS REQUIRED OR AS NOTED AT ALL FLOOR MATERIAL TRANSITIONS. PROVIDE BLOCKING AS REQUIRED BY DRAWINGS. COORDINATE WITH OTHER TRADES FOR SIZE AND LOCATION.

### GYPSUM BOARD

- PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH ALL CODE AND GOVERNING ORDINANCES.
- ALL DRYWALL SHALL BE MINIMUM 5/8" THICK UNO.
- COMPLY WITH THE RECOMMENDATIONS OF THE GYPSUM CONSTRUCTION HANDBOOK PUBLISHED BY THE USG CORPORATION, LATEST EDITION, FOR METHODS AND INSTALLATION OF METAL FRAMING AND GYPSUM DRYWALL SYSTEMS
- PROVIDE METAL CORNER REINFORCEMENT TRIM AT ALL OUTSIDE CORNER CONDITIONS. TRIM SHALL BE USG-DURA-BED OR EQUAL.
- PROVIDE CONTINUOUS BED OF SOUND SEALANT AT TOP AND BOTTOM OF ALL SOUND RATED INSULATED PARTITIONS AND AT PARTITION PENETRATIONS, INCLUDING ELECTRICAL OPENINGS.
- COORDINATE WITH OTHER TRADES FOR INSTALLATION OF WOOD BLOCKING.
- PROVIDE GYPSUM BOARD EDGE TRIM, USG-801-A AT EXPOSED EDGES OF ALL NON-FULL HEIGHT GYPSUM DRYWALL PARTITIONS EXCEPT WHERE TOP OF WALL HAS DRYWALL FINISH.
- FINISH DRYWALL JOINTS AND CONCEAL ALL FASTENERS USING USG 'PERF-A-TAPE' SYSTEM OR EQUAL. APPLY FINISHING COMPOUND, SAND AND REPEAT AS NEEDED TO COMPLETELY CONCEAL ALL JOINTS AND FASTENERS.
- PROVIDE ADDITIONAL SUPPORTS, BRACKETS, TIES, AND FRAMING AS RECOMMENDED OR REQUIRED FOR PROPER INSTALLATION AND RIGID ASSEMBLY.
- CLEAN ALL SURFACES AND LEAVE READY FOR PAINT. REMOVE ALL EXCESS MATERIALS AND DEBRIS FROM SITE.
- ALL DRYWALL USED ON WALLS IN THE TOILET ROOMS SHALL BE WATER RESISTANT RATED.
- DRYWALL SUPPORT SYSTEMS AND FRAMING SHALL BE OF SUFFICIENT CAPACITY AND RIGIDITY TO SUPPORT THE ASSEMBLY WITH A MAXIMUM DEFLEXION OF L/240 WHERE 'L' REPRESENTS THE LENGTH OF THE SPAN. DEFLECTION LIMIT INCLUDES LIVE LOADS AND DEAD LOADS SIMULTANEOUSLY IMPOSED.

### PAINTING

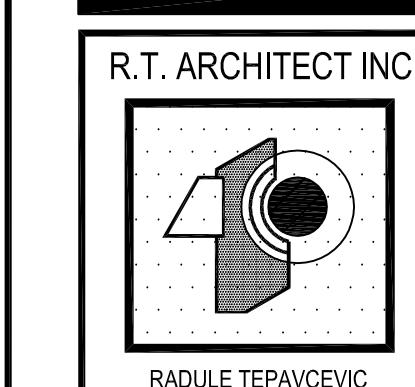
- PREPARE SUBSTRATES AS REQUIRED TO RECEIVE PAINT. PATCH ALL NAIL HOLES, REPAIR DEFECTS.
- PRIME ALL EXPOSED GYPSUM BOARD SURFACES. SPRAYED SURFACES SHALL BE ROLLED OUT WITH A MEDIUM NAP ROLLER.
- INTERIOR MILLWORK TO BE FOR PAINT SHALL BE PRIMED WITH OIL BASED PRIMER. FINISH PAINT SHALL BE TWO COATS HIGH GLOSS ALKYD ENAMEL. (SAND BETWEEN COATINGS).
- CEILINGS (SLOPED & FLAT) SHALL BE PAINTED WITH TWO COATS CEILING FLAT LATEX PAINT-WHITE.
- WALLS SHALL BE PAINTED WITH TWO COATS EGHELL ENAMEL.

### CERAMIC TILE

CERAMIC TILE FOR FLOORS SHALL BE 12"x 12" x 3/8" FLOOR TILE UNLESS OTHERWISE NOTED. ORDER SELECTION SHALL PREVAIL. INSPECT SUBSTRATE PRIOR TO INSTALLATION REPAIR ANY AND ALL DEFECTS. LEVEL NEW CONCRETE SLAB WITH APPROPRIATE LEVELING MATERIAL. SET TILES WITH LATEX THINSET BEDDING COMPOUND. WALL TILES SHALL BE INSTALLED ONLY ON CEMENTITIOUS BACKER BOARD UNITS (durock) THAT IS LEVEL AND FREE OF DEBRIS. WITH APPROPRIATE LATEX THINSET SETTING MATERIAL. GROUT SHALL BE UNSANDED TYPE FOR GROUT JOINTS LESS THAN 1/8" AND SANDED FOR JOINTS 1/8" AND LARGER. LAYOUT TILE SUCH THAT TILE IS NOT LESS THAN 1/2 THE WIDTH OF THE TILE.

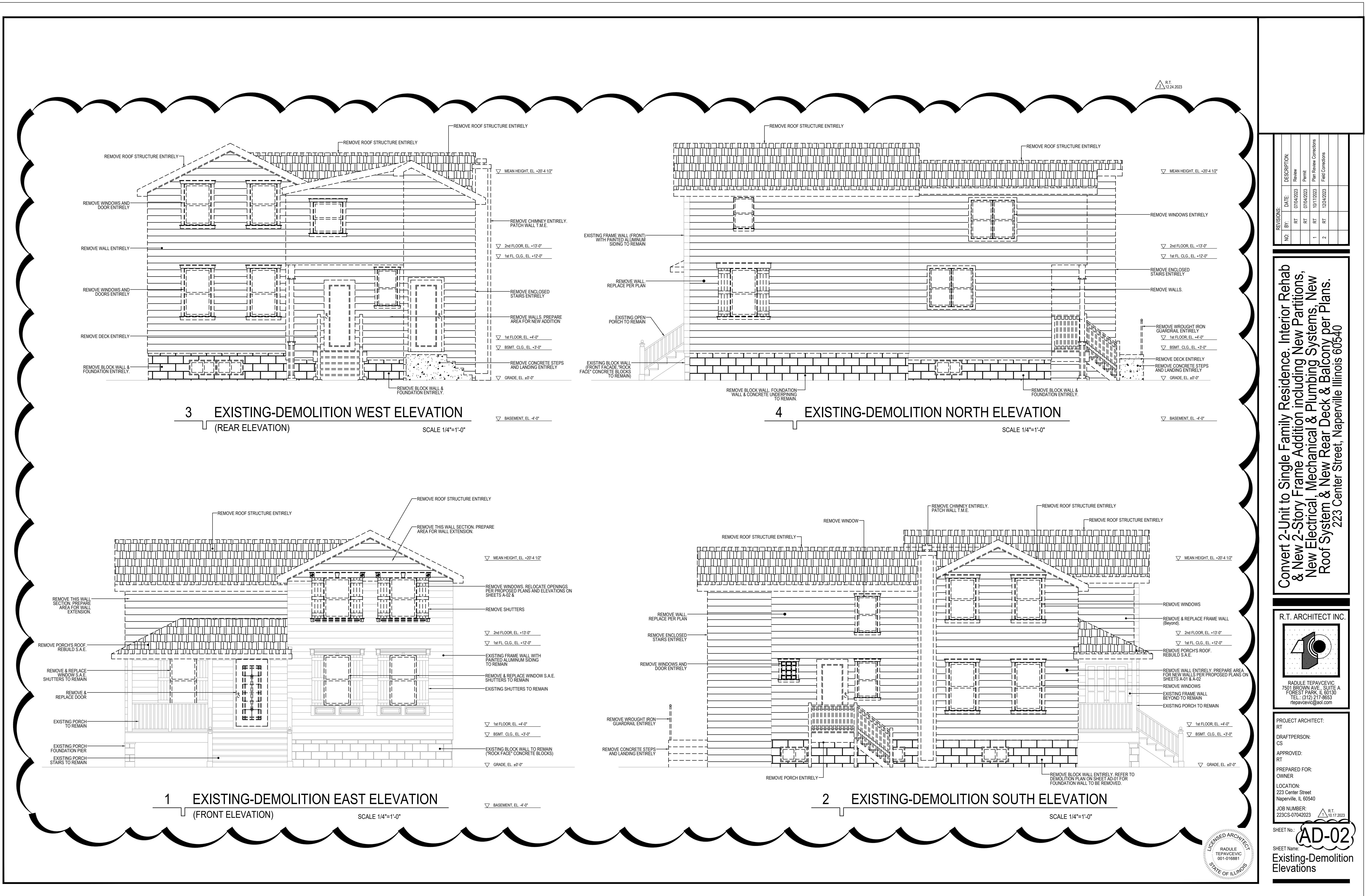
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	RT	07/04/2023	Review
	RT	07/04/2023	Permit

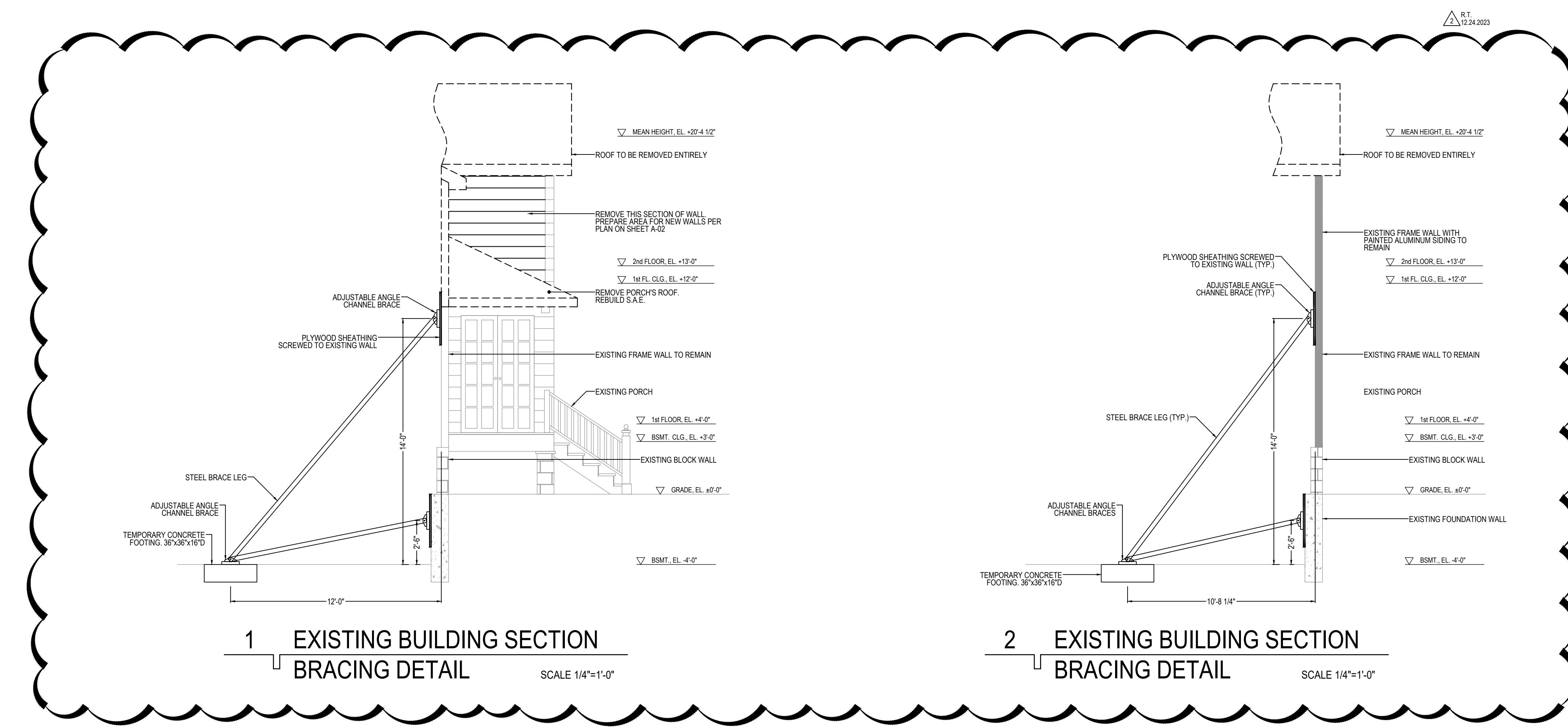
Convert 2-Unit to Single Family Residence, Interior Rehab & New 2-Story Frame Addition including New Partitions, New Mechanical, Plumbing Systems, New Roof System & New Electrical, Mechanical, & Plumbing Systems, New Rear Deck & Balcony per Plans.  
223 Center Street, Naperville, Illinois 60540



PROJECT ARCHITECT:  
RT  
DRAFTSPERSON:  
CS  
APPROVED:  
RT  
PREPARED FOR:  
OWNER  
LOCATION:  
223 Center Street  
Naperville, IL 60540  
JOB NUMBER:  
223CS-07042023  
SHEET No.:  
G-02  
SHEET Name:  
Specifications







Convert 2-Unit to Single Family Residence. Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans. 223 Center Street, Naperville Illinois 60540

The logo for R.T. Architect Inc. is a black and white graphic. It features a stylized number '1' on the left, composed of a vertical line and a diagonal line. To the right of the '1' is a circle with a smaller circle inside, creating an 'O' shape. The entire graphic is set against a background of a 5x5 grid of small dots. The logo is enclosed within a thick black rectangular border.

PROJECT ARCHITECT:  
RT

DRAFTPERSON:  
CS

APPROVED:  
RT

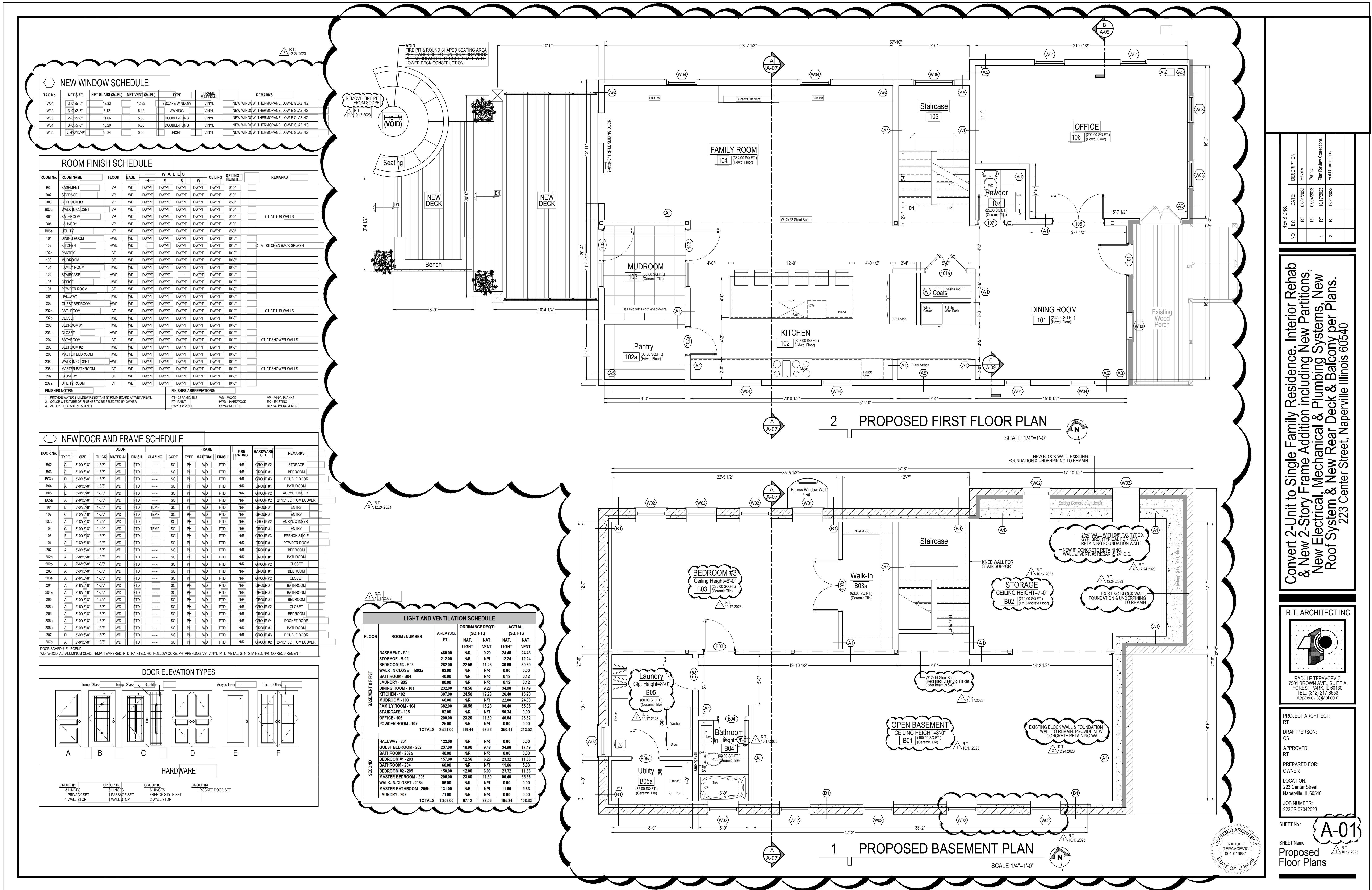
PREPARED FOR:  
OWNER

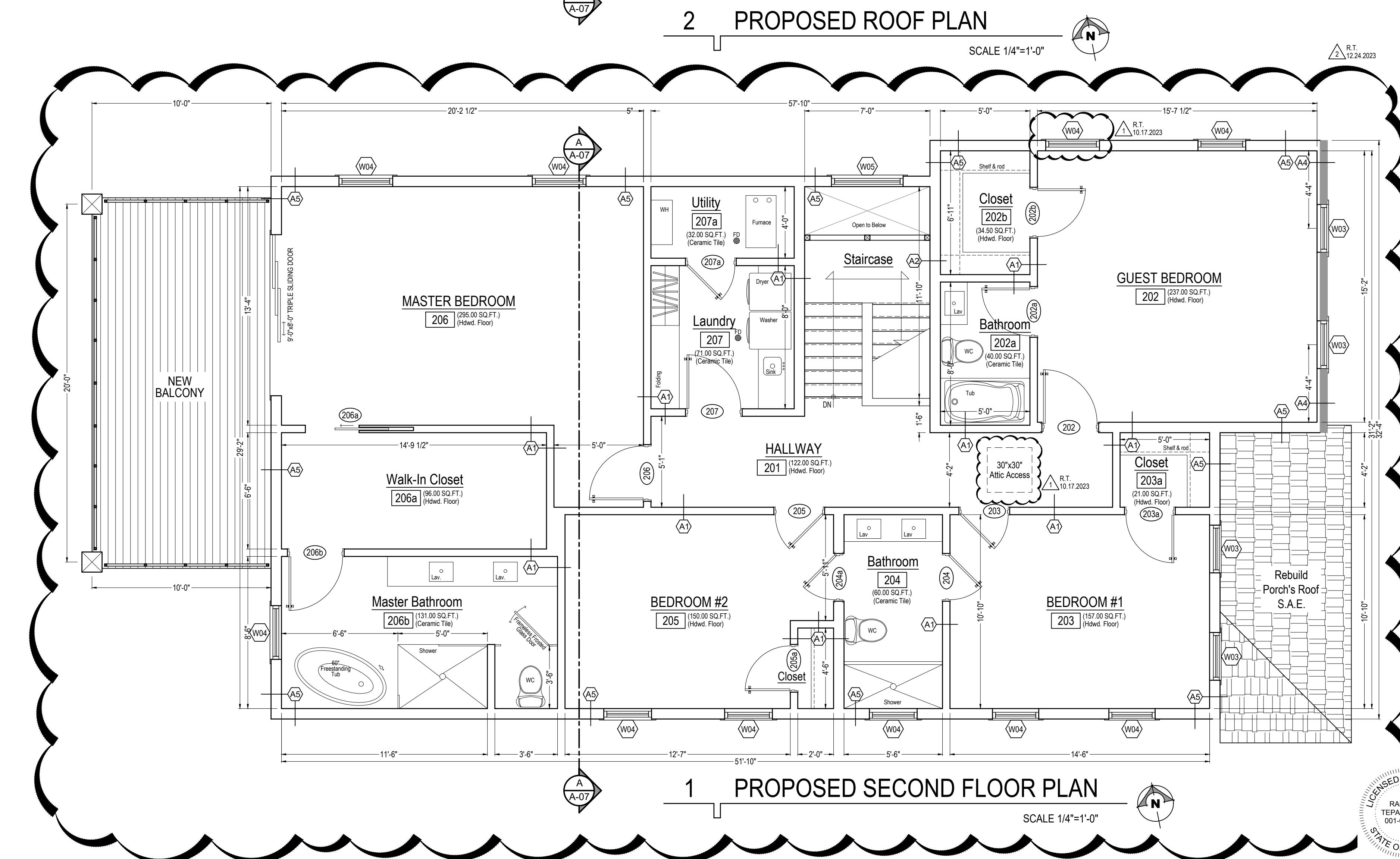
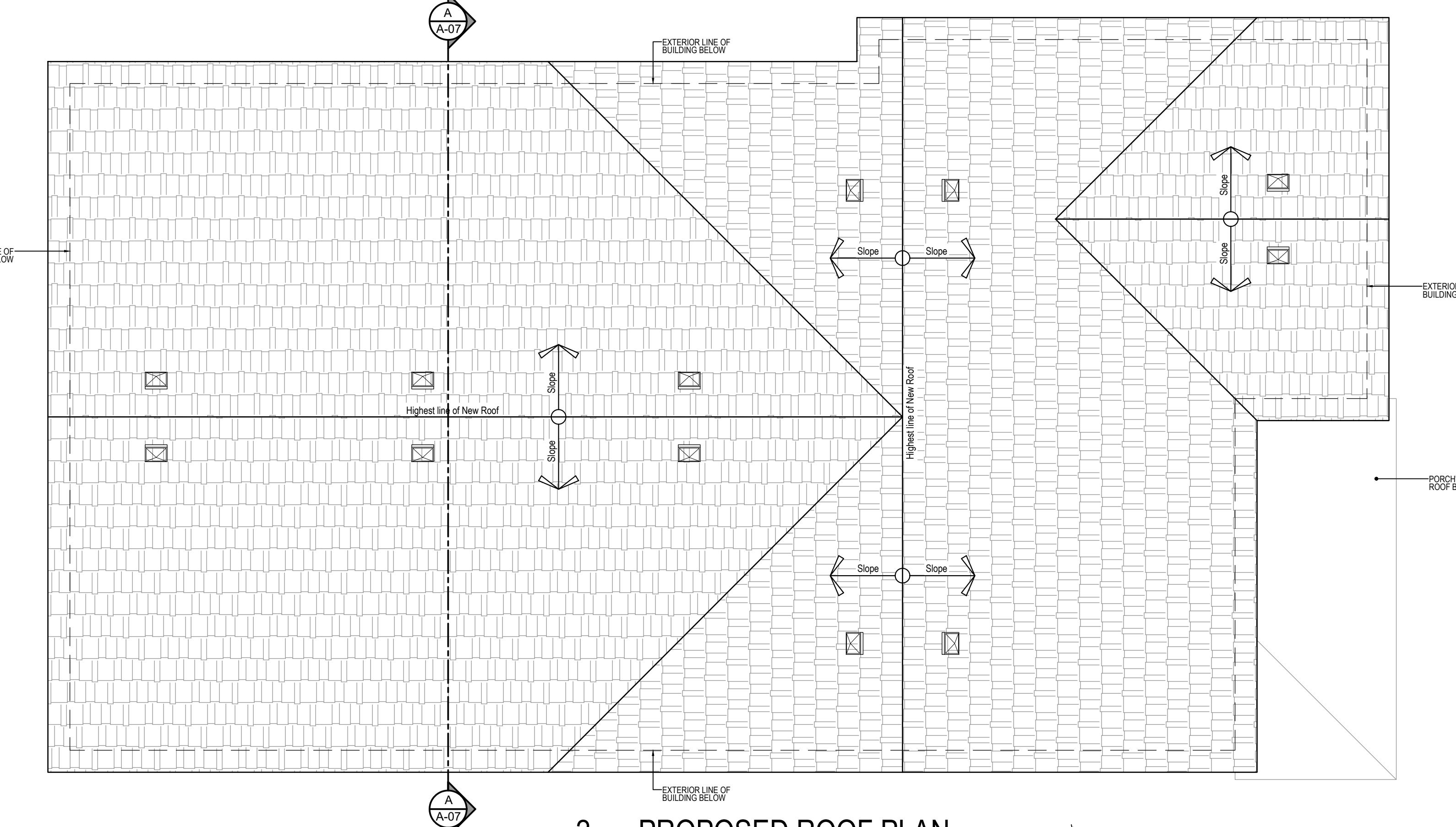
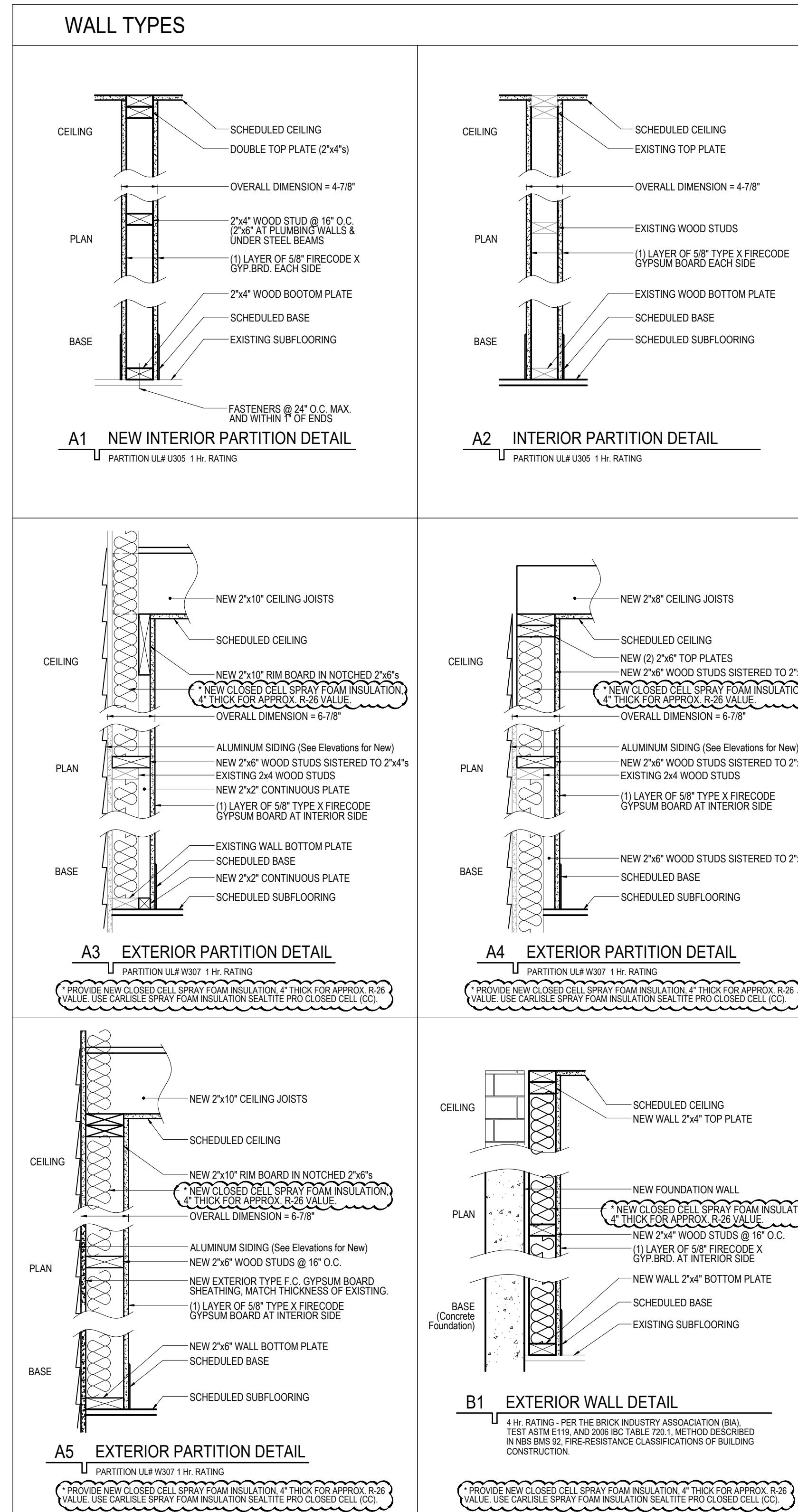
LOCATION:  
223 Center Street  
Naperville, IL 60540

JOB NUMBER:  
223CS-07042023

SHEET No.: **AD-03**

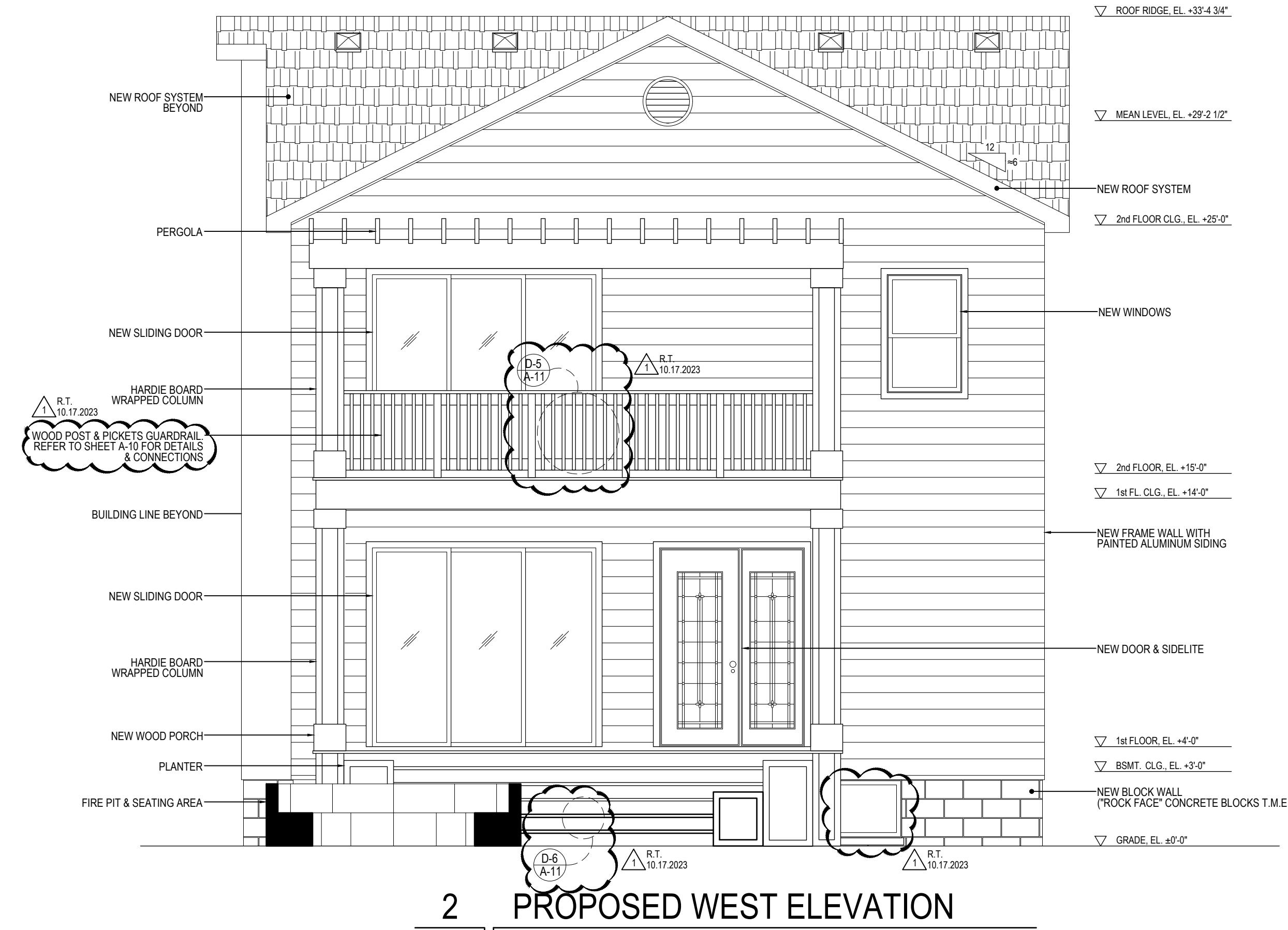
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Convert 2-Unit to Single Family Residence, Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical, Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans.  
223 Center Street, Naperville, Illinois 60540

REVISIONS:	NO.:	BY:	DATE:	DESCRIPTION:
			07/04/2023	Review
			RT	Permit
	1	RT	10/17/2023	Plan Review Corrections
	2	RT	12/24/2023	Field Corrections



2 PROPOSED WEST ELEVATION

(REAR ELEVATION)

SCALE 1/4"=1'-0"



1 PROPOSED EAST ELEVATION

(FRONT ELEVATION)

SCALE 1/4"=1'-0"

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223 Center Street, Naperville Illinois 60540

R.T. ARCHITECT INC.  
RADULE TEPAVEVIC  
750 BROWN PINE PARK A  
FORREST PARK, IL 60130  
TEL: (312) 217-8653  
rtepavcevic@aol.com

PROJECT ARCHITECT: RT  
DRAFTPERSON: CS  
APPROVED: RT  
PREPARED FOR: OWNER  
LOCATION: 223 Center Street  
Naperville, IL 60540  
JOB NUMBER: 222CS-07042023  
SHEET No.: A-03

LICENSED ARCHITECT  
RADULE  
TEPAVEVIC  
001-016881  
STATE OF ILLINOIS  
SHEET Name:  
Proposed  
Elevations  
R.T.  
10.17.2023



2 PROPOSED NORTH ELEVATION

SCALE 1/4"=1'-0"



1 PROPOSED SOUTH ELEVATION

SCALE 1/4"=1'-0"

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RADULE TEPAVEVIC  
750 BROWN PINE PARK A  
FORREST PARK, IL 60540  
TEL: (312) 217-8653  
rtepavcivic@aol.com

PROJECT ARCHITECT: RT  
DRAFTPERSON: CS  
APPROVED: RT  
PREPARED FOR: OWNER  
LOCATION: 223 Center Street  
Naperville, IL 60540  
JOB NUMBER: 222CS-07042023

SHEET No.: A-04  
SHEET Name: Proposed Elevations  
R.T. 10.17.2023



# A FOUNDATION SECTION

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## REAR BUILDING ADDITION

GRADE, EL. ±0'-0"

NEW LIQUID COLD-APPLIED ELASTOMERIC WATERPROOFING MEMBRANE

NEW 10" CONCRETE FOUNDATION

NEW #5 HORIZONTAL REBAR @ 18"

BACKFILL

NEW #5 VERTICAL REBAR @ 32" O.C.

5" CONCRETE SLAB OVER 4" OF COMPACTED AGGREGATE

(3) NEW #5 REBAR @ 12" O.C.

NEW #5 @ 30" O.C.

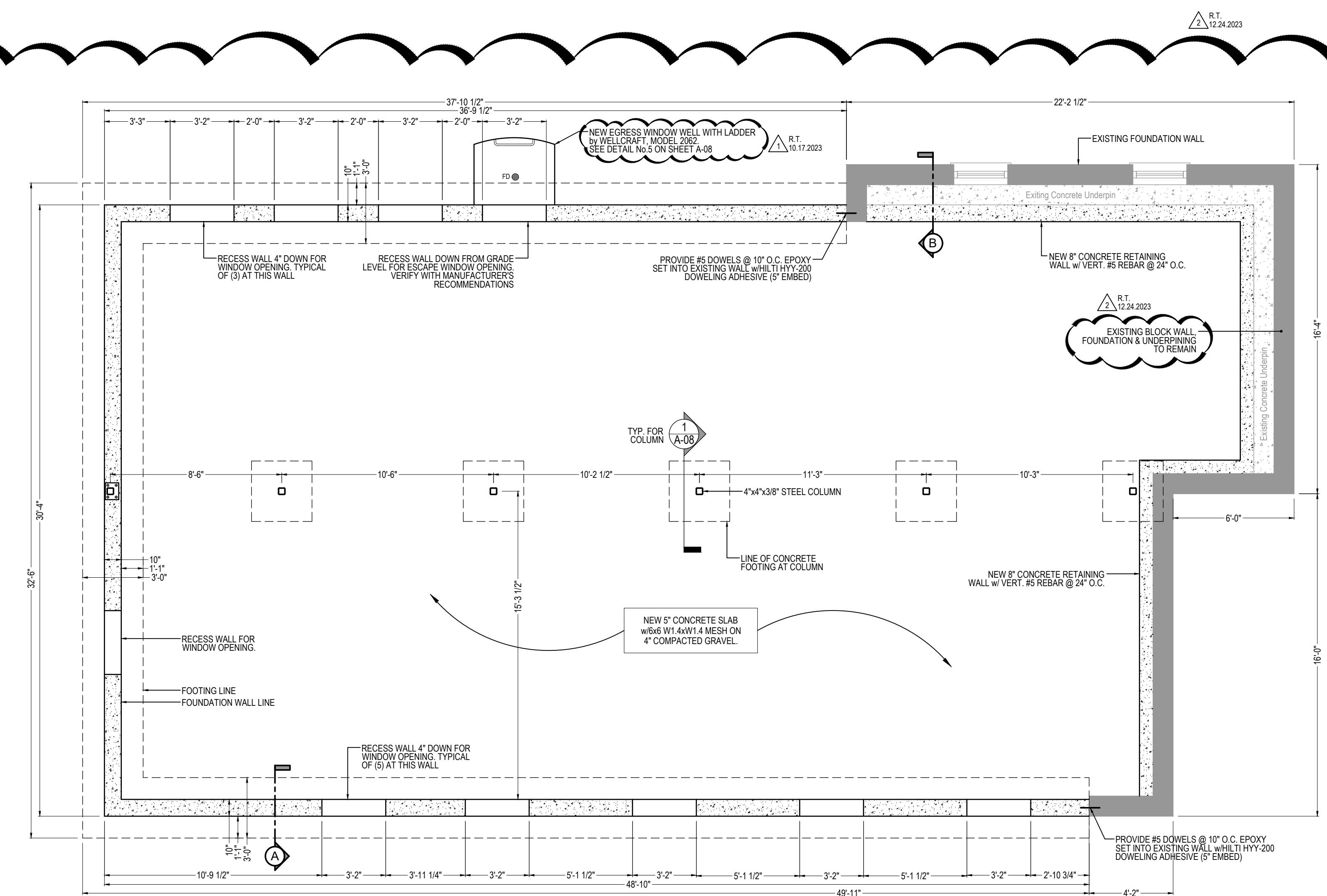
3'-0"

NEW 36"x12" CONTINUOUS CONCRETE

BASEMENT, EL. -5'-2"

DRAIN TILE

# B FOUNDATION SECTION @ EXISTING WALL



# 8 PROPOSED FOUNDATION PLAN

---

## REAR BUILDING ADDITION

Convert 2-Unit to Single Family Residence. Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans. 223 Center Street, Naperville Illinois 60540

PROJECT ARCHITECT:  
RT

DRAFTPERSON:  
CS

APPROVED:  
RT

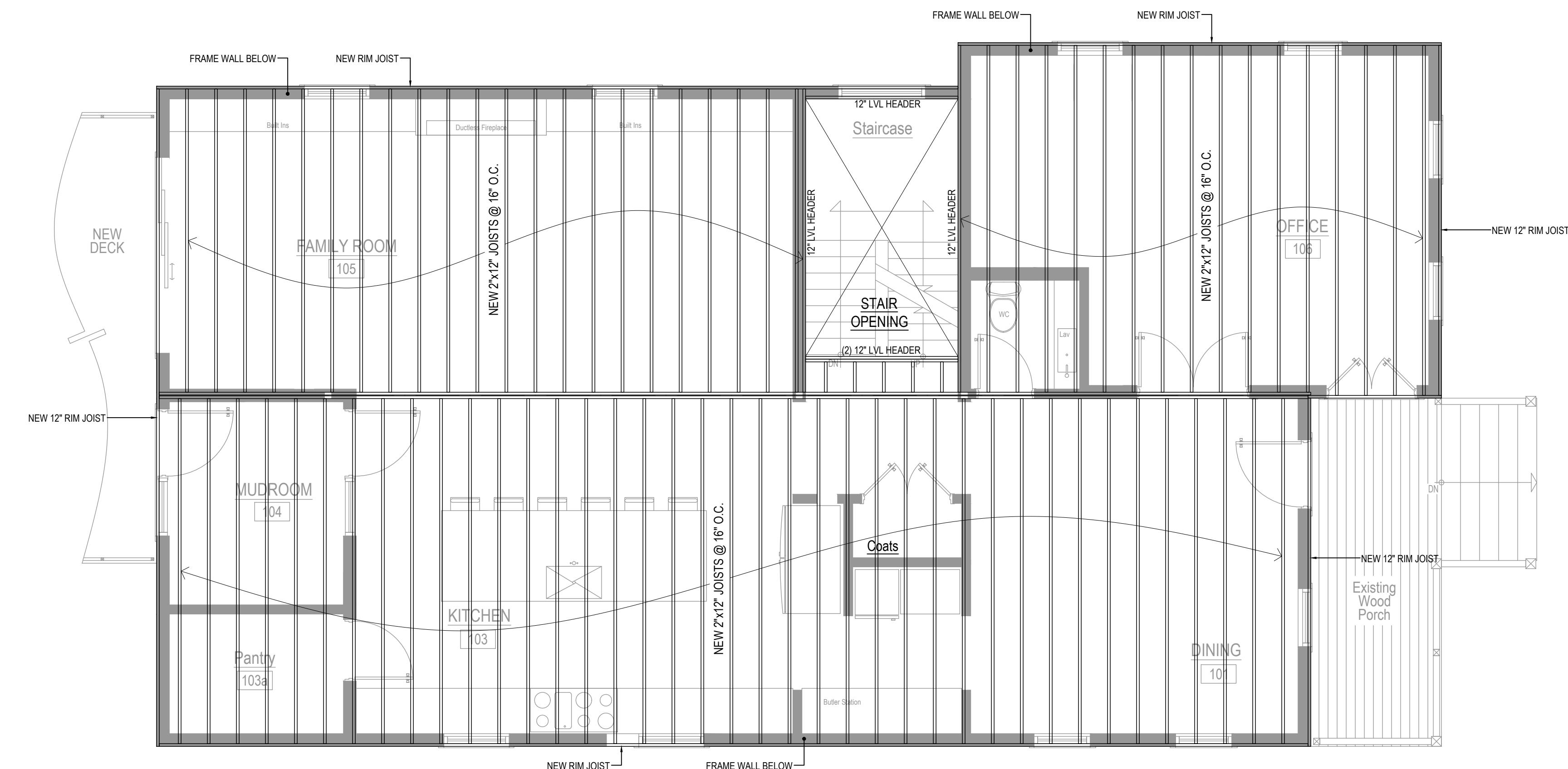
PREPARED FOR:  
OWNER

LOCATION:  
223 Center Street  
Naperville, IL 60540

JOB NUMBER:  
223CS-07042023

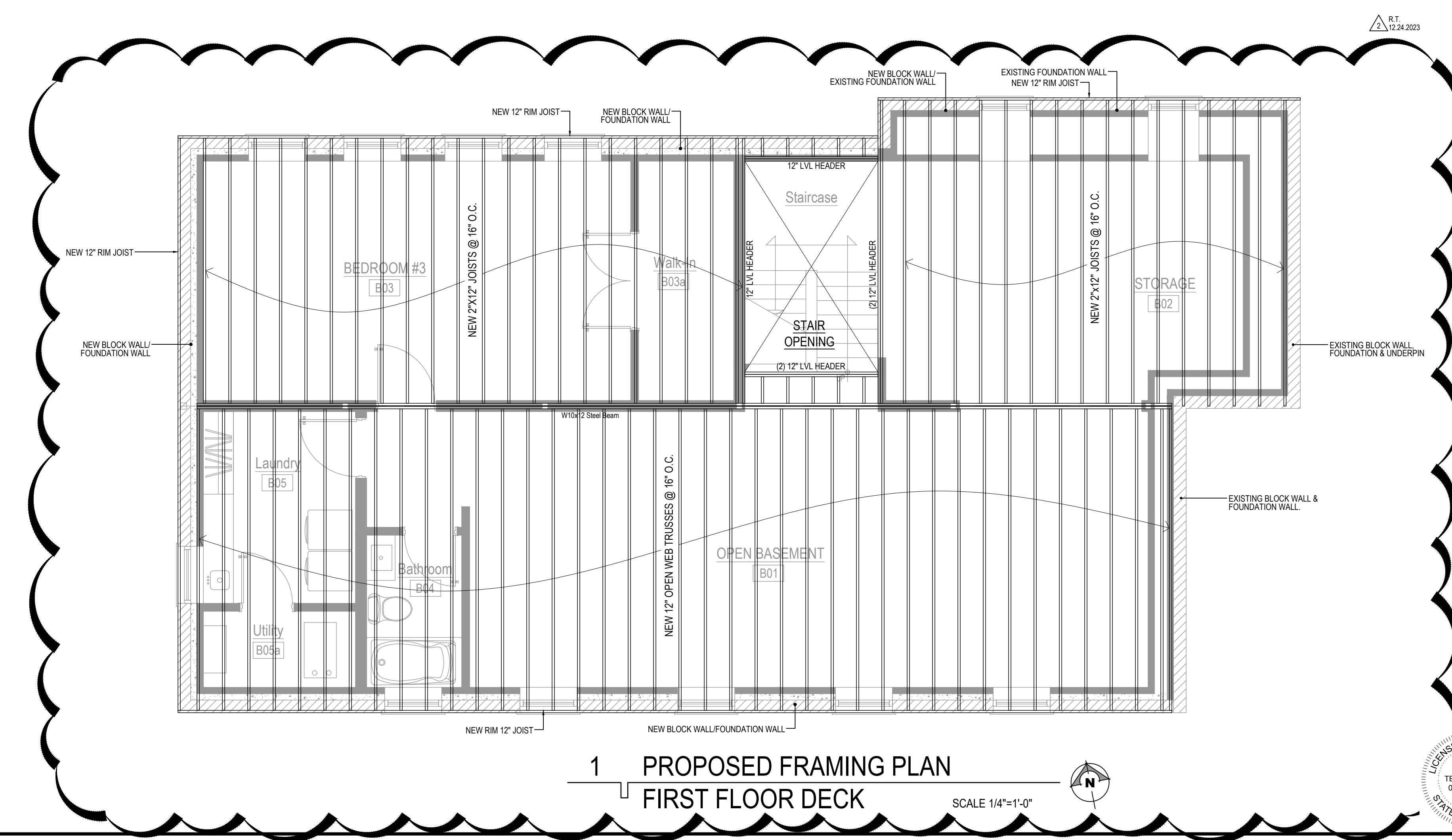
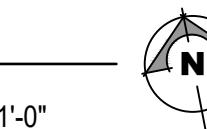
SHEET No.: **A-05**

SHEET Name: **Addition's Foundation Plan**



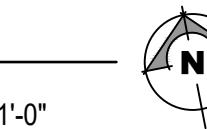
2 PROPOSED FRAMING PLAN  
SECOND FLOOR DECK

SCALE 1/4"=1'-0"

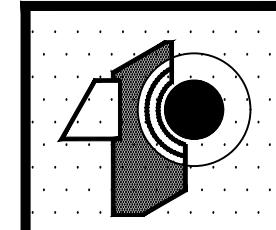


1 PROPOSED FRAMING PLAN  
FIRST FLOOR DECK

SCALE 1/4"=1'-0"

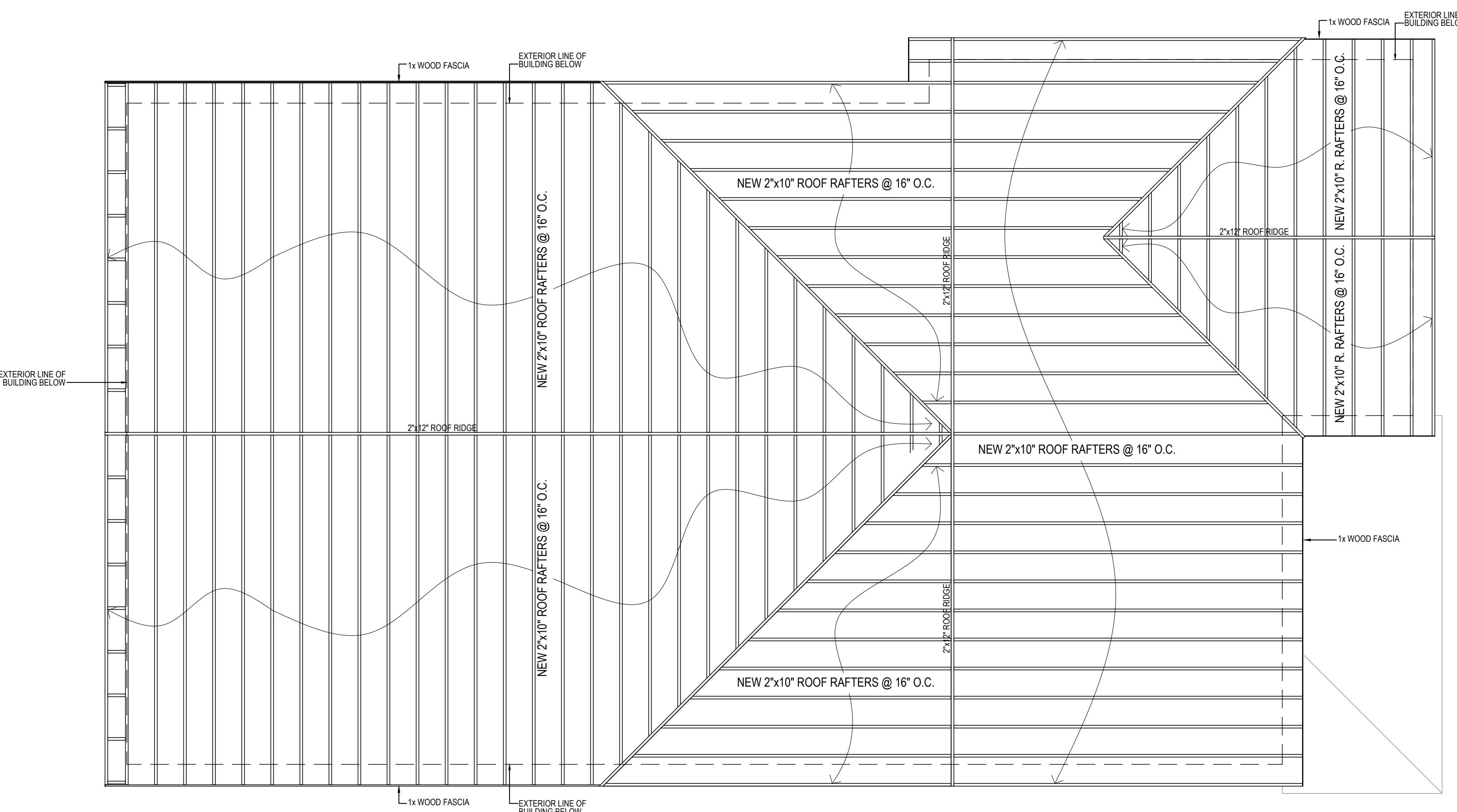


Convert 2-Unit to Single Family Residence, Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans.  
223 Center Street, Naperville Illinois 60540

R.T. ARCHITECT INC.  
  
 RADULE TEPAVEVIC  
 750 FOREST PARK, A  
 FOREST PARK, IL 60130  
 TEL: (312) 217-8653  
 rtepavcic@aol.com

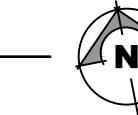
PROJECT ARCHITECT: RT  
 DRAFTPERSON: CS  
 APPROVED: RT  
 PREPARED FOR: OWNER  
 LOCATION: 223 Center Street  
 Naperville, IL 60540  
 JOB NUMBER: 222CS-07042023  
 SHEET No.: A-06

LICENSED ARCHITECT  
 RADULE  
 TEPAVEVIC  
 STATE OF ILLINOIS  
 001-016881  
 SHEET Name:  
 Proposed  
 Framing Plans



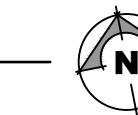
2 PROPOSED ROOF FRAMING PLAN

SCALE 1/4"=1'-0"



1 PROPOSED FRAMING PLAN  
SECOND FLOOR CEILING

SCALE 1/4"=1'-0"



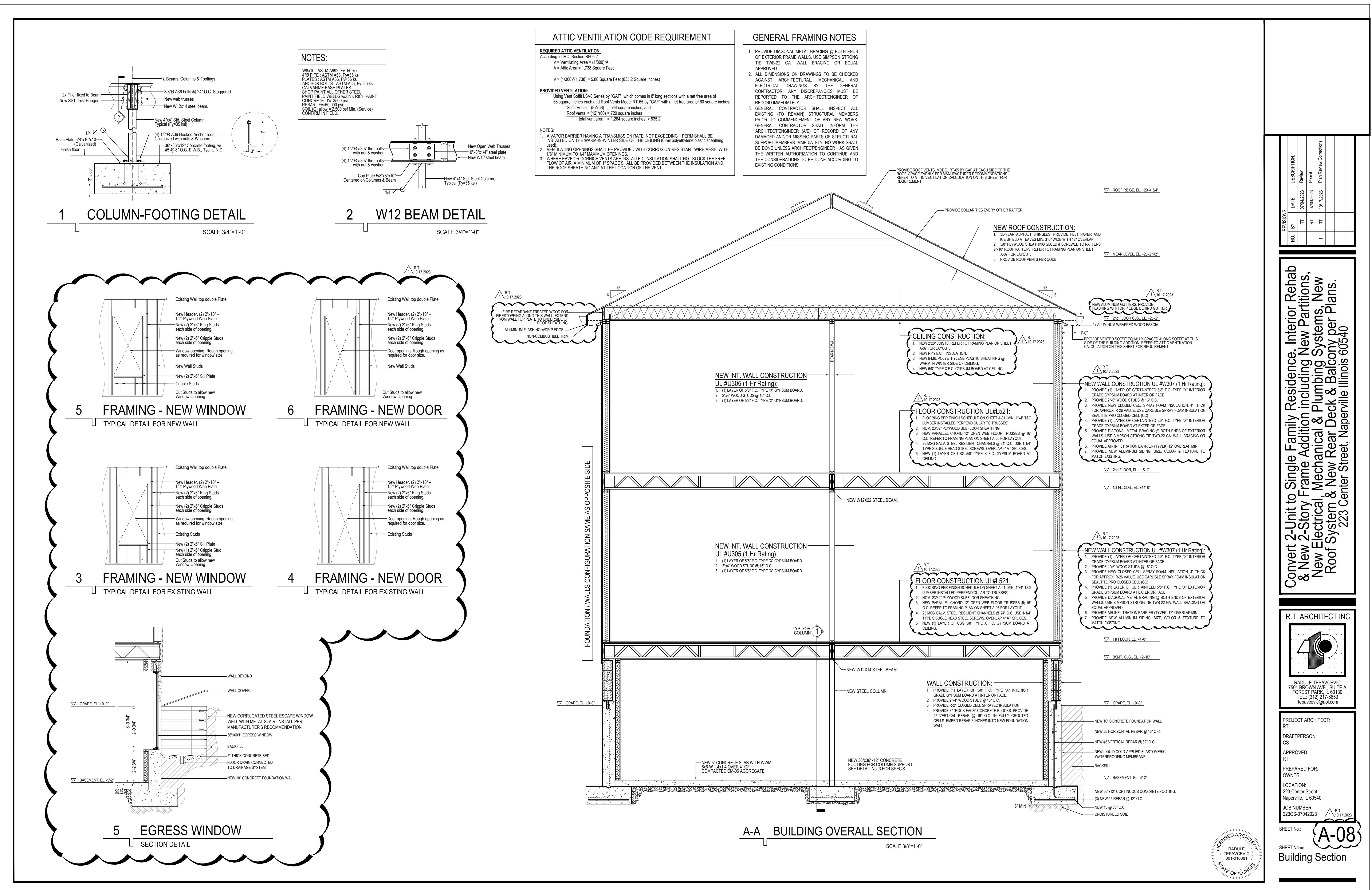
Convert 2-Unit to Single Family Residence, Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans.  
223 Center Street, Naperville Illinois 60540

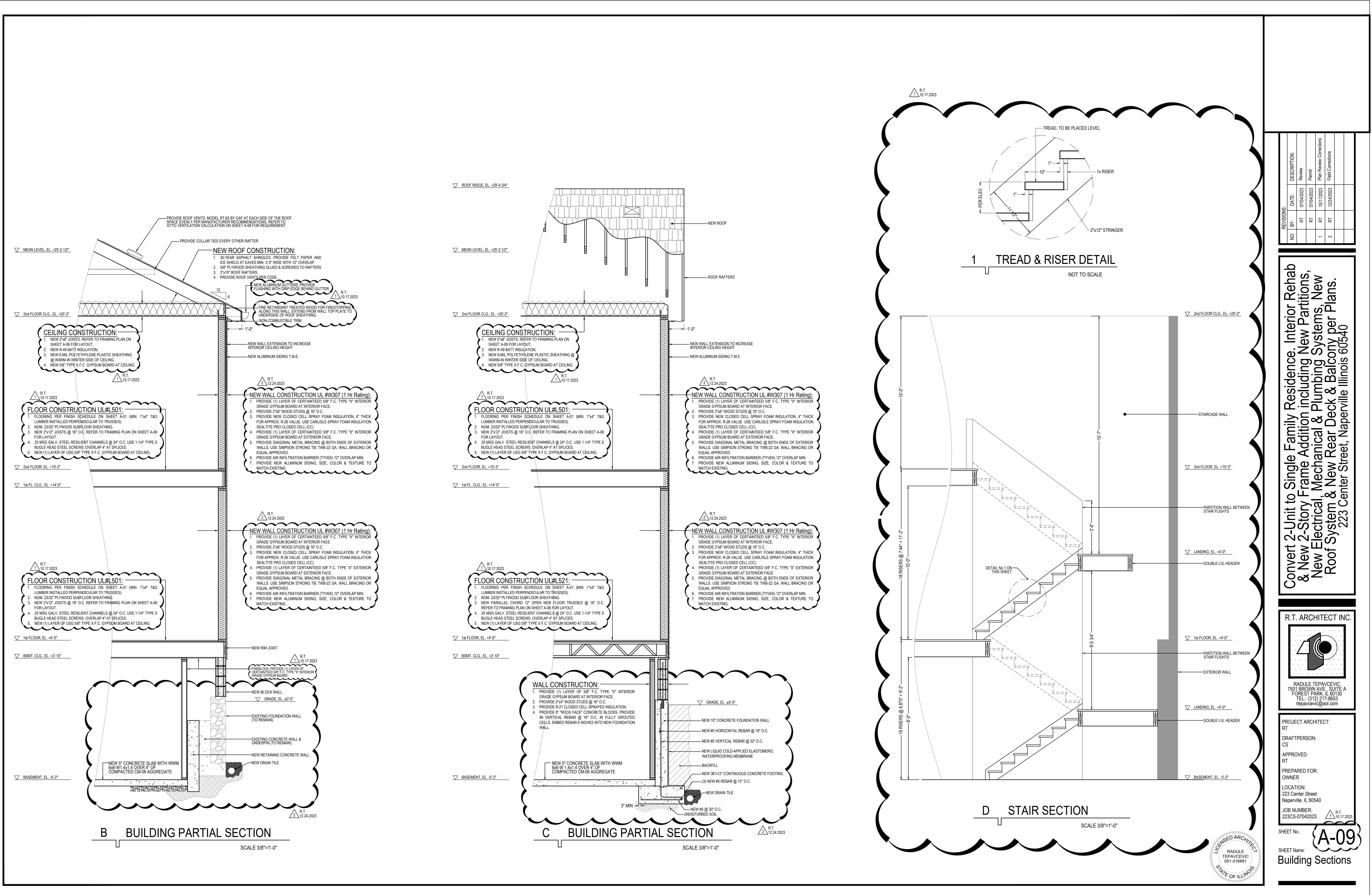
R.T. ARCHITECT INC.  
RADULE TEPAVCEVIC  
750 BROWN PINE PARK, A  
FORREST PARK, IL 60510  
TEL: (312) 217-8653  
rtepavcevic@aol.com

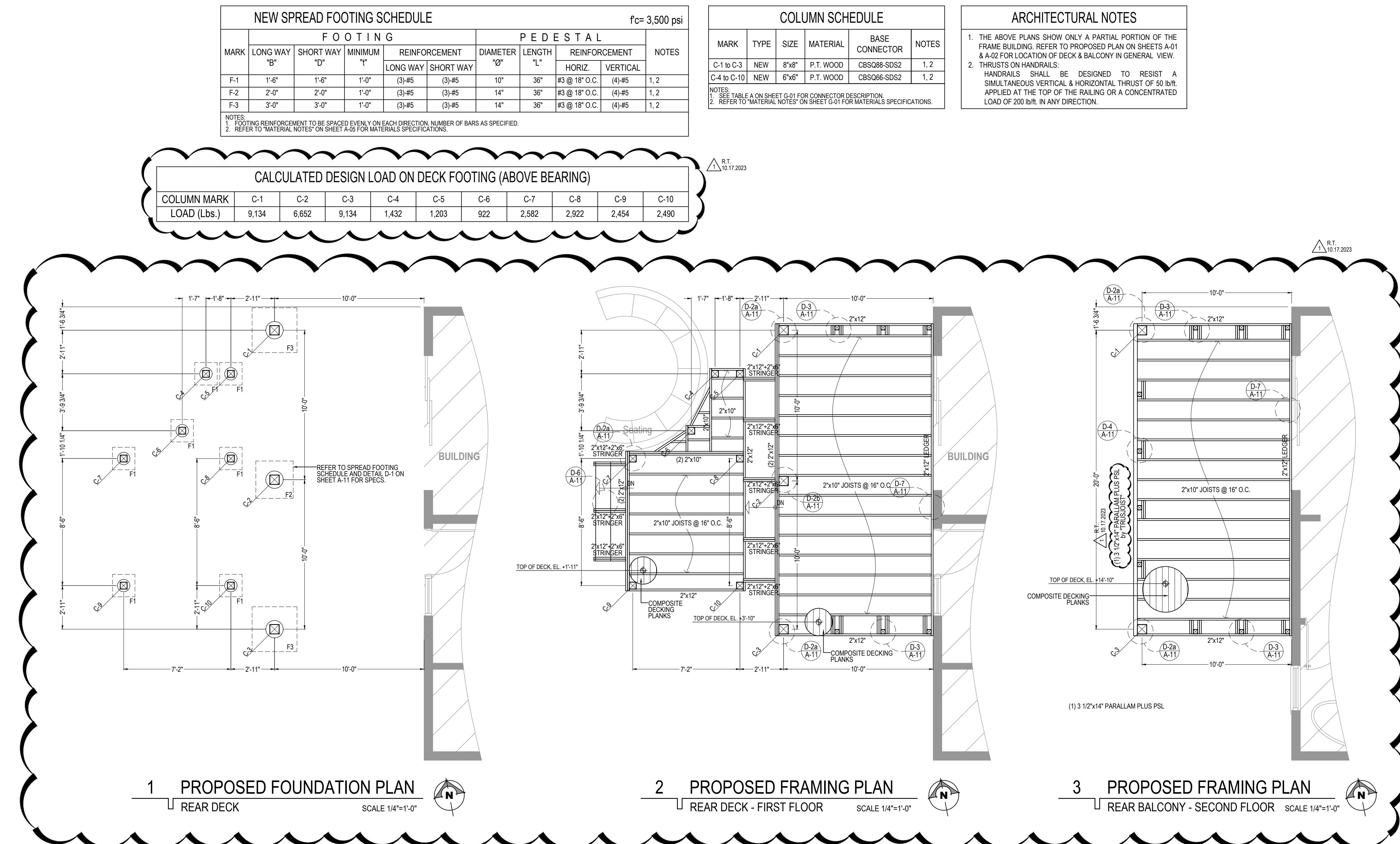
PROJECT ARCHITECT: R.T.  
DRAFTPERSON: CS  
APPROVED: RT  
PREPARED FOR: OWNER  
LOCATION: 223 Center Street  
Naperville, IL 60540  
JOB NUMBER: 2223CS-07042023  
SHEET NO.: A-07  
R.T.  
10.17.2023

LICENSED ARCHITECT  
RADULE  
TEPAVCEVIC  
001-016881  
STATE OF ILLINOIS  
SHEET Name:  
Proposed  
Framing Plans

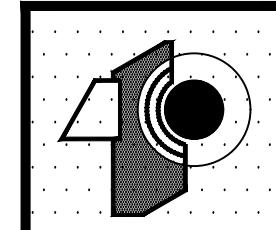
REVISIONS:	NO.:	BY:	DATE:	DESCRIPTION:
	RT	RT	07/04/2023	Review
	RT	RT	07/04/2023	Permit
	1	RT	10/17/2023	Plan Review Corrections







Convert 2-Unit to Single Family Residence, Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans.  
223 Center Street, Naperville Illinois 60540

R.T. ARCHITECT INC.  
  
RADULE TEPAVECEVIC  
750 BROWN PINE PARK A  
FORREST PARK, IL 60510  
TEL: (312) 217-8653  
tepavecevic@aol.com

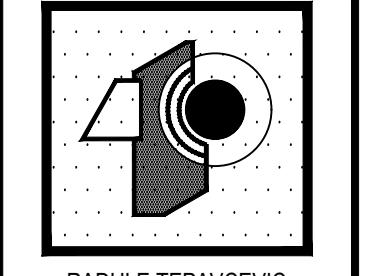
PROJECT ARCHITECT:  
R.T.  
DRAFTPERSON:  
CS  
APPROVED:  
R.T.  
PREPARED FOR:  
OWNER  
LOCATION:  
223 Center Street  
Naperville, IL 60540  
JOB NUMBER:  
222CS-07042023  
SHEET NO.:  
A-10



SHEET NAME:  
Porch & Balcony Plans

REVISIONS:	NO.:	DATE:	DESCRIPTION:
	RT	07/04/2023	Review
	RT	07/04/2023	Permit
1	RT	10/17/2023	Plan Review Corrections

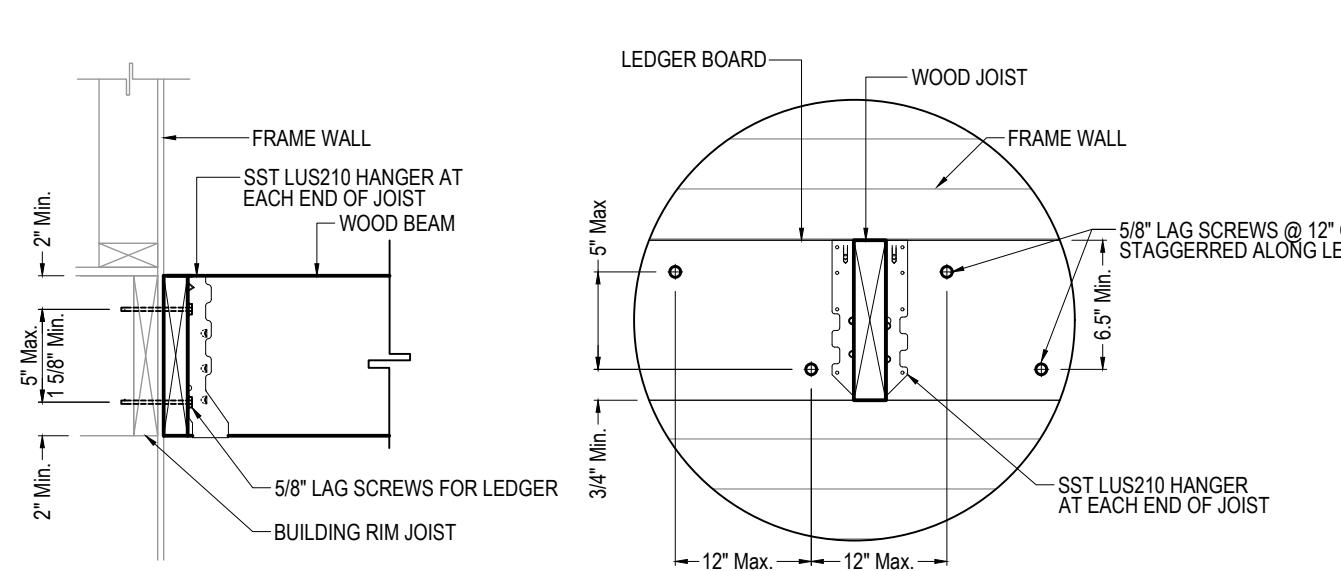
Convert 2-Unit to Single Family Residence, Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans.  
223 Center Street, Naperville Illinois 60540

R.T. ARCHITECT INC.  
  
 RADULE TEPAVCEVIC  
 750 FOREST PARK, A  
 FOREST PARK, IL 60130  
 TEL: (312) 217-8653  
 rtepavcevic@aol.com

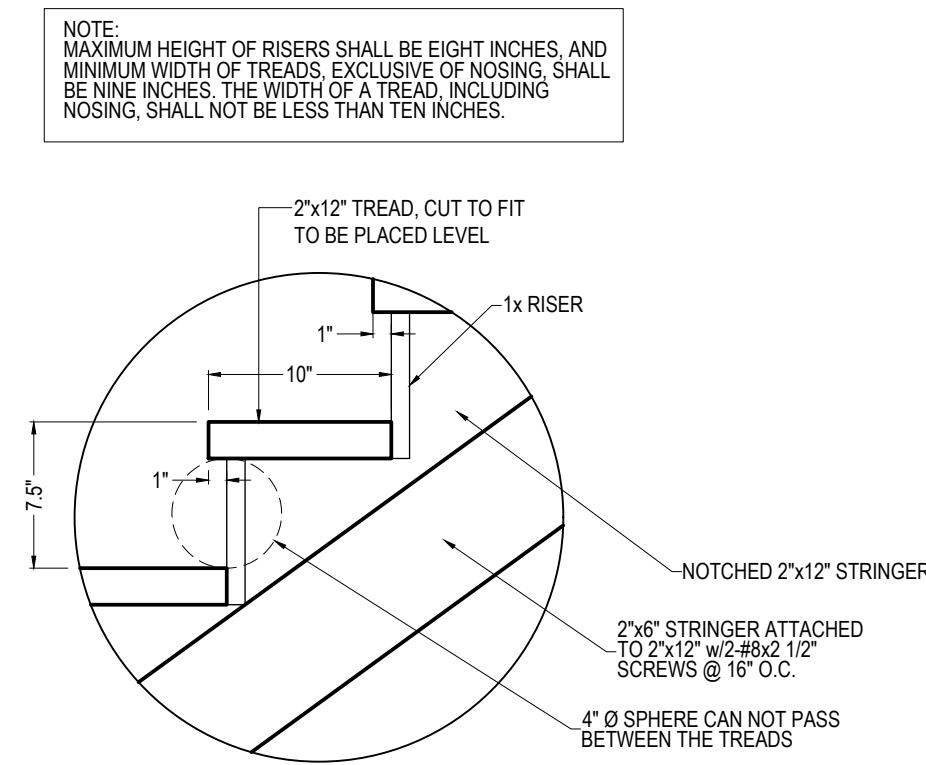
PROJECT ARCHITECT:  
 RT  
 DRAFTPERSON:  
 CS  
 APPROVED:  
 RT  
 PREPARED FOR:  
 OWNER  
 LOCATION:  
 223 Center Street  
 Naperville, IL 60540  
 JOB NUMBER:  
 222CS-07042023  
 SHEET NO.: A-11  
 SHEET NAME:  
 Porch Connection Details

LICENSED ARCHITECT  
 RADULE  
 TEPAVCEVIC  
 001-016881  
 STATE OF ILLINOIS  

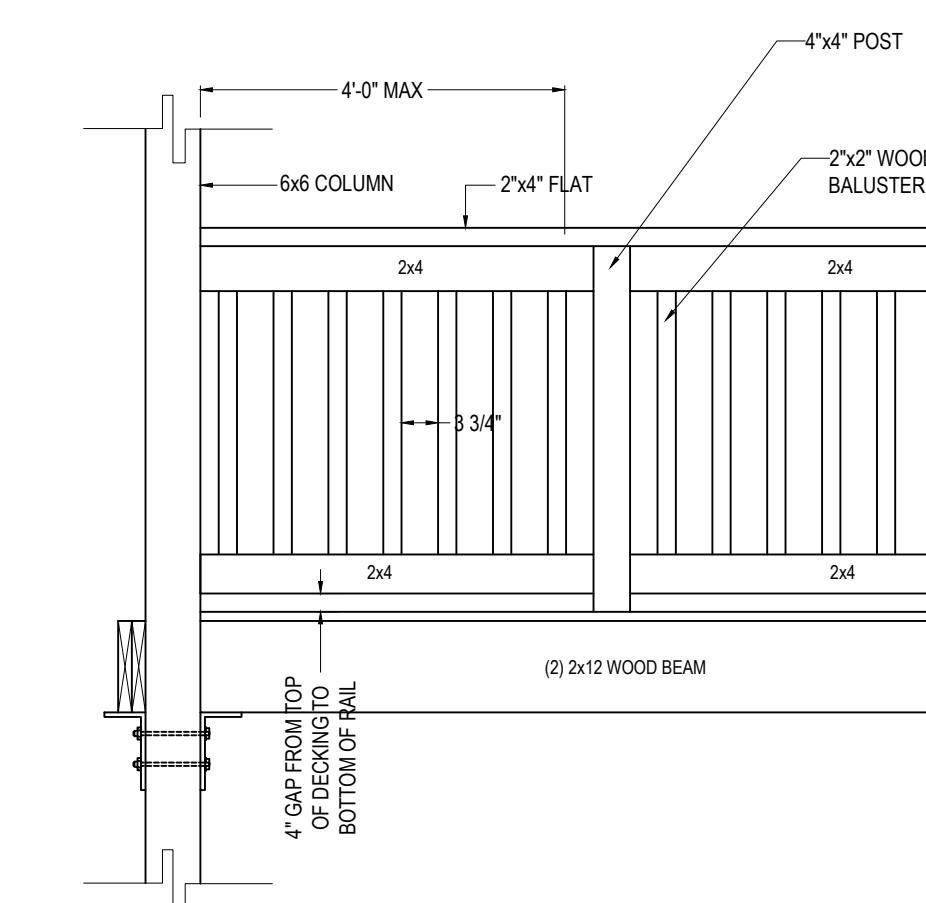

PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS				
MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS				
LEDGER	2 INCHES	TOP EDGE	BOTTOM EDGE	ENDS
BAND JOIST	3/4 INCH		2 INCHES	2 INCHES
			1-5/8 INCHES	1-5/8 INCHES



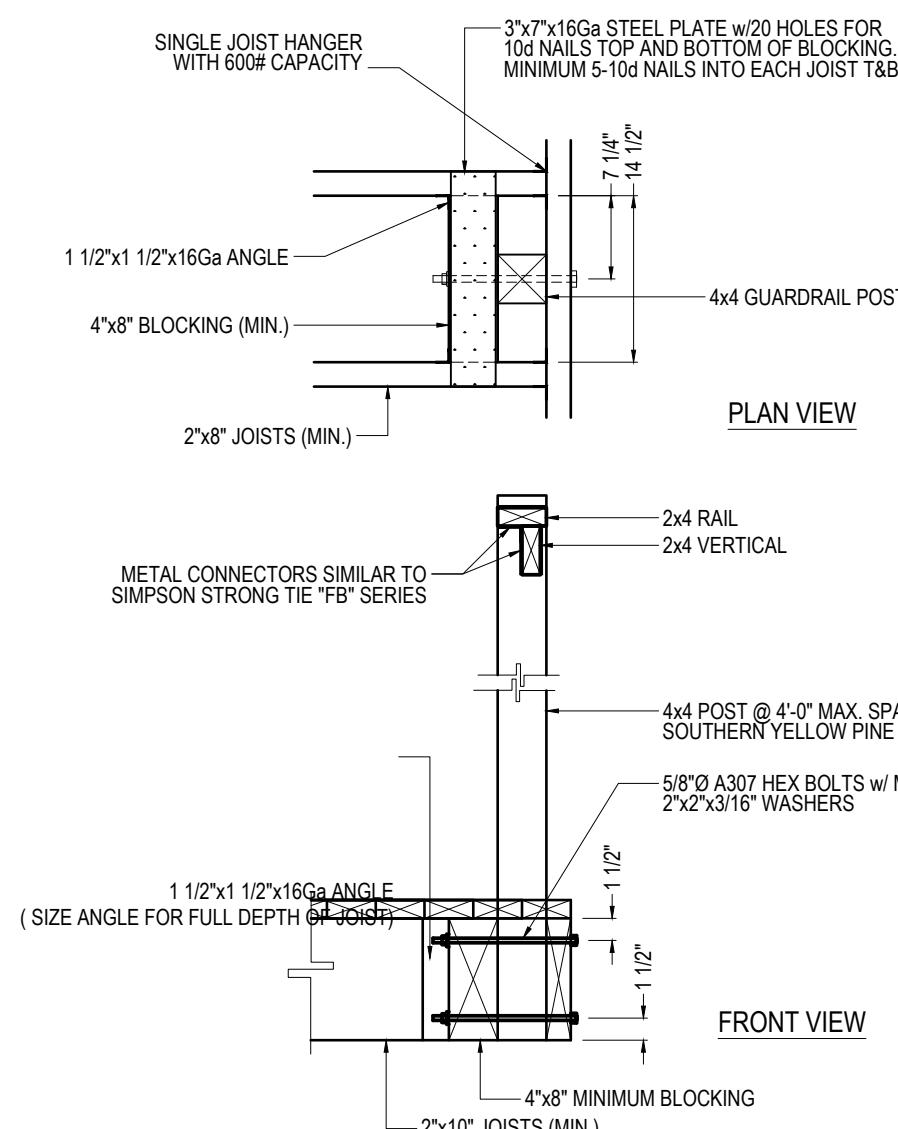
D-7 LEDGER CONNECTION DETAIL  
 TO FRAME WALL  
 NOT TO SCALE



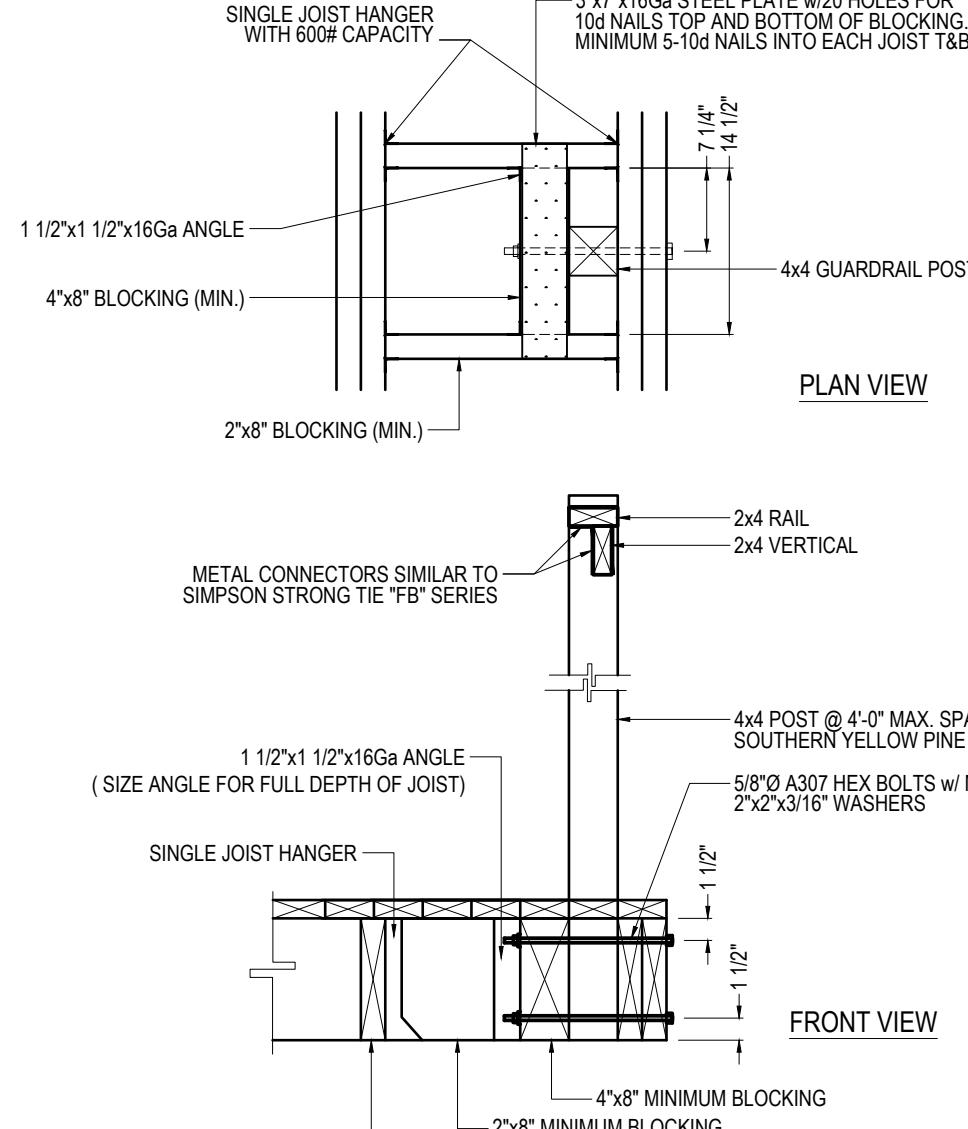
D-6 TREAD & RISER DETAIL  
 NOT TO SCALE



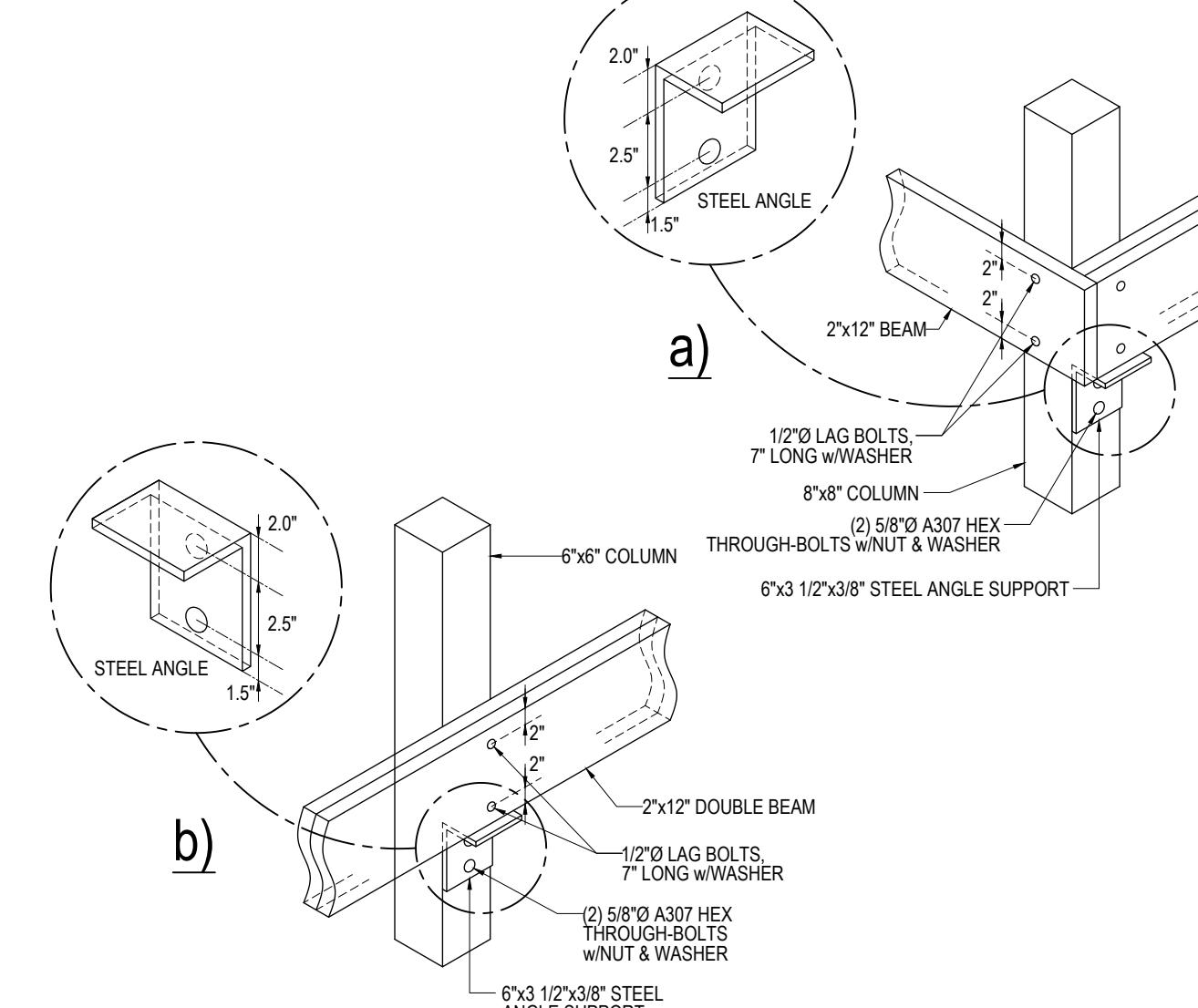
D-5 GUARDRAIL ELEVATION  
 PARTIAL DETAIL  
 NOT TO SCALE



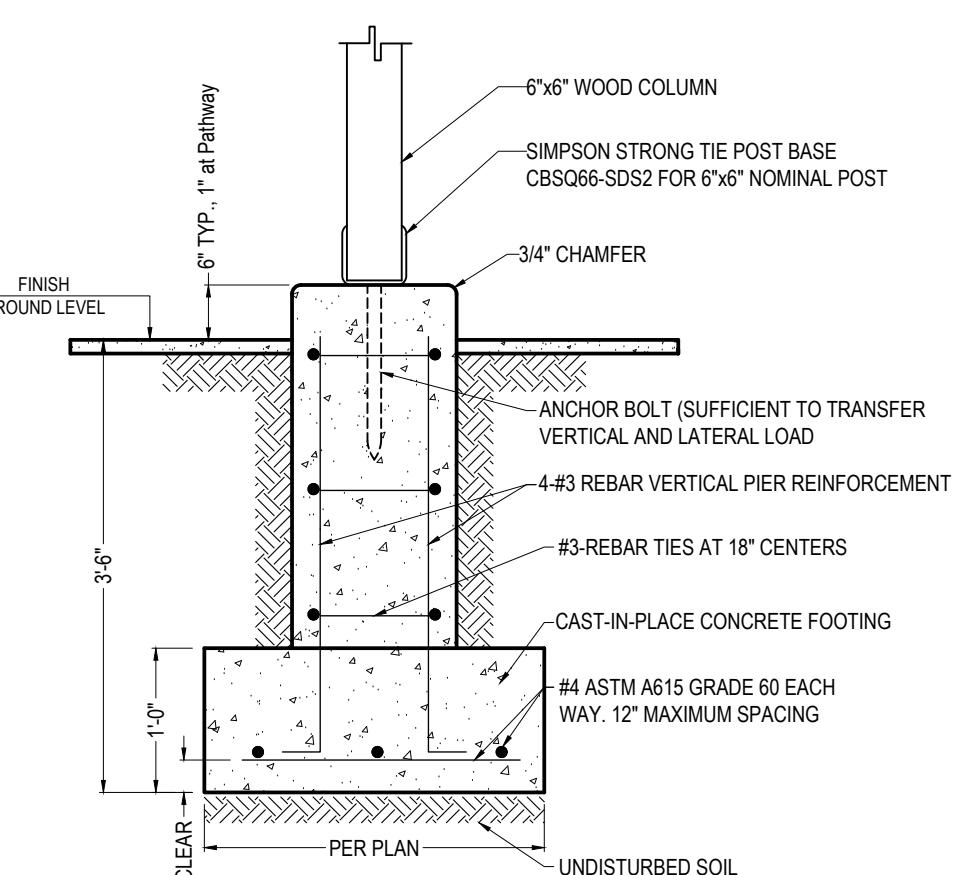
D-4 GUARDRAIL POST DETAIL  
 w/ JOISTS NORMAL TO EDGE  
 NOT TO SCALE



D-3 GUARDRAIL POST DETAIL  
 w/ JOISTS PARALLEL TO EDGE  
 NOT TO SCALE



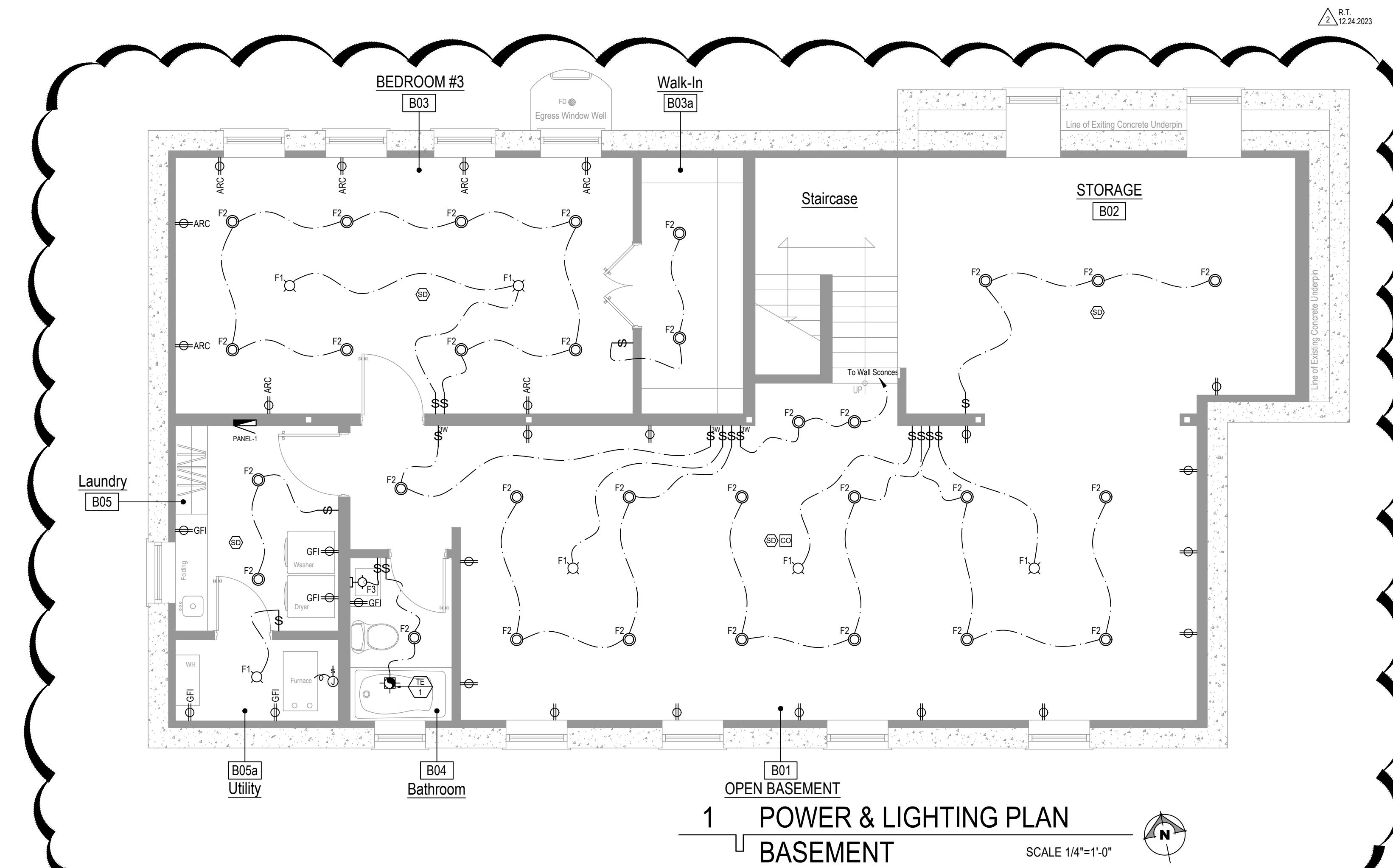
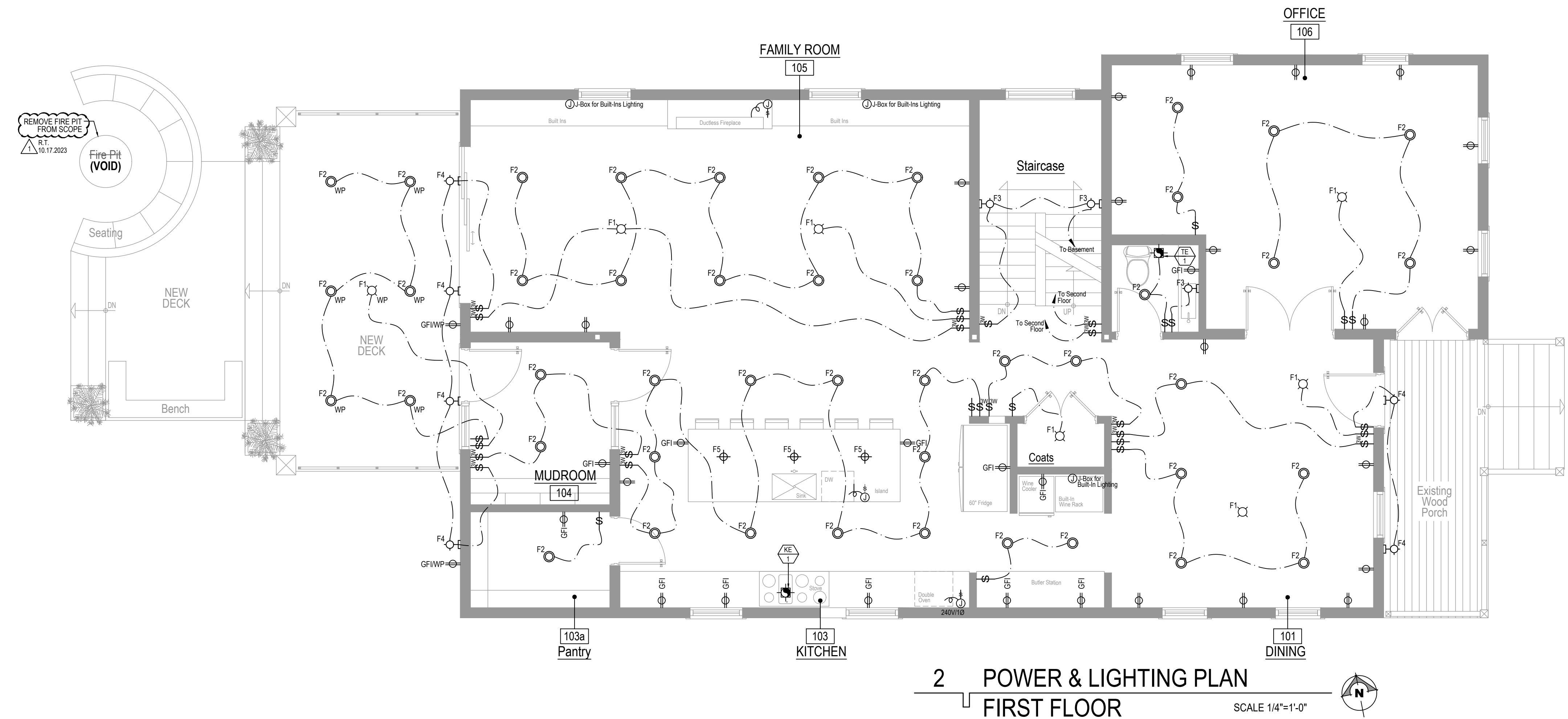
D-2 COLUMN DETAILS  
 NOT TO SCALE



D-1 POST SPREAD FOOTING  
 FOR 6x6" COLUMNS  
 NOT TO SCALE

NOTE: ALL STRUCTURAL STEEL TO BE COATED WITH A RUST PROHIBITED PRIMER (3 MIL DRY THICKNESS MIN.)

A-11  
 SHEET NAME:  
 Porch Connection Details



Convert 2-Unit to Single Family Residence. Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans.  
223 Center Street, Naperville Illinois 60540

PROJECT ARCHITECT:  
RT

DRAFTPERSON:  
CS

APPROVED:  
RT

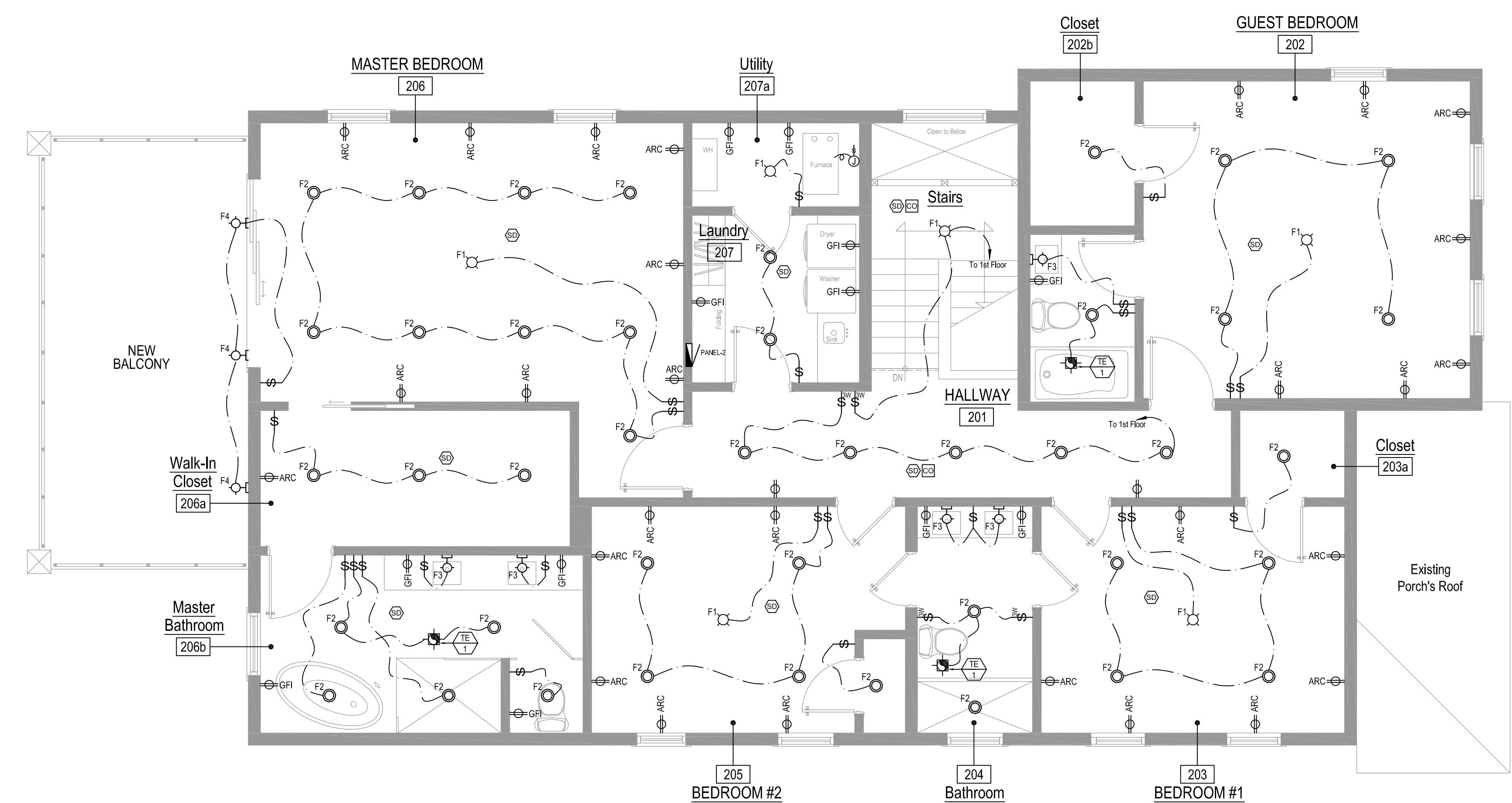
PREPARED FOR:  
OWNER

LOCATION:  
223 Center Street  
Naperville, IL 60540

JOB NUMBER:  
223CS-07042023

SHEET No.: **E-0**

SHEET Name: **Power & Lighting Plans**



# 1 POWER & LIGHTING PLAN

## SECOND FLOOR

SCALE 1/4

Convert 2-Unit to Single Family Residence. Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans. 223 Center Street, Naperville Illinois 60540

The logo for R.T. Architect Inc. is a square frame containing a stylized eye. The eye has a large, dark, circular iris and a smaller, lighter circular pupil. The surrounding area is filled with a pattern of fine, intersecting lines forming a grid. The entire logo is enclosed in a thick black border.

PROJECT ARCHITECT:  
RT

DRAFTPERSON:  
CS

APPROVED:  
RT

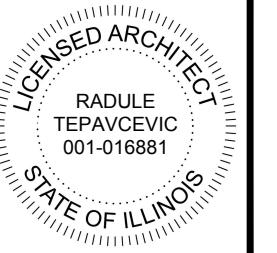
PREPARED FOR:  
OWNER

LOCATION:  
223 Center Street  
Naperville, IL 60540

JOB NUMBER:  
223CS-07042023

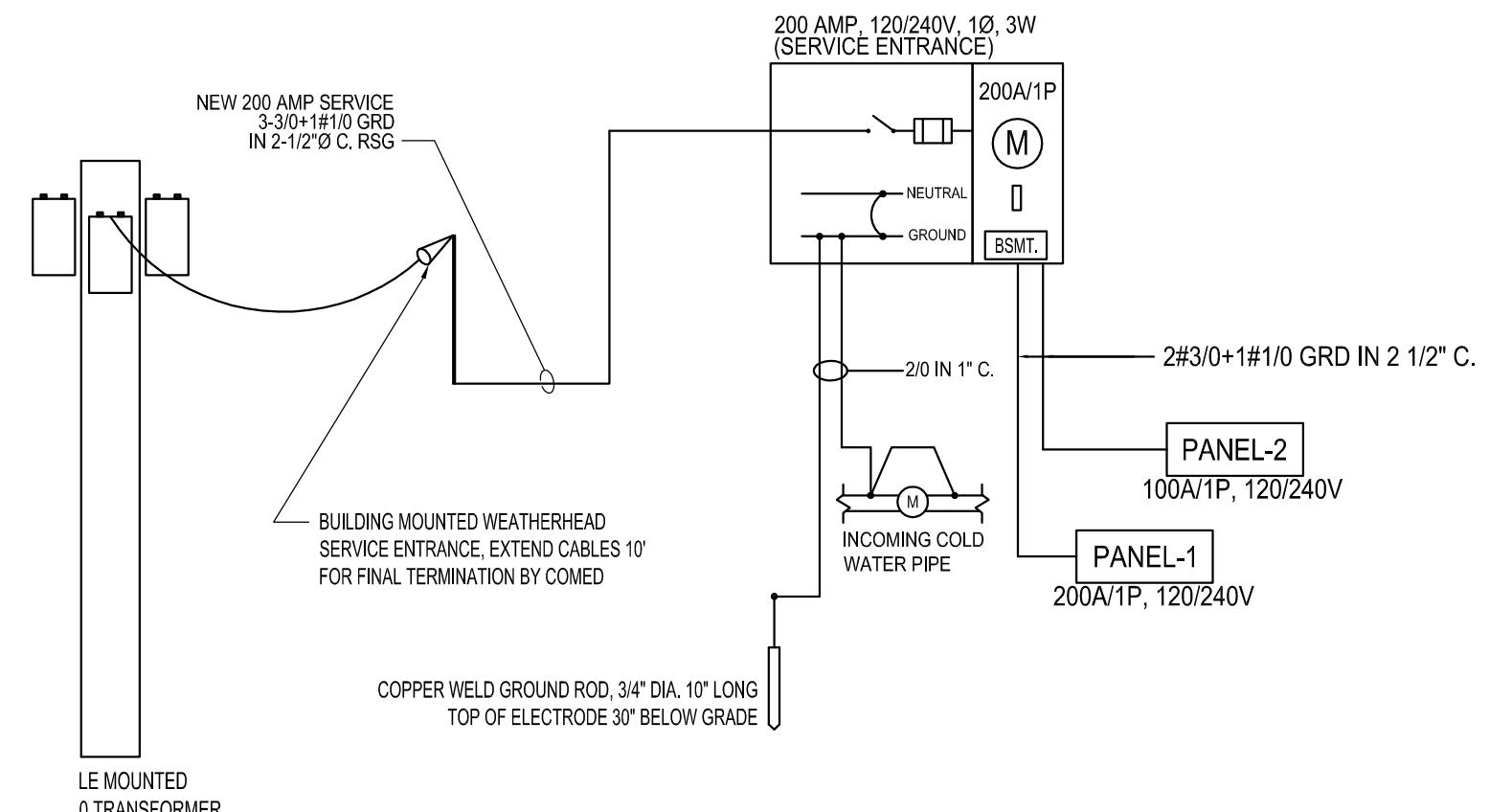
SHEET No.: **E-02**

SHEET Name: **Power & Lighting Plans**



E-02

ELECTRICAL NOTES	
1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY A LICENSED ELECTRICIAN IN THE CITY OF NAPERVILLE. ALL ELECTRICAL WORK MUST COMPLY WITH THE CITY OF NAPERVILLE ADOPTED ELECTRICAL CODE. 2. ALL MATERIALS SHALL BE U.L. LISTED, AND APPROVED FOR THE PURPOSE INTENDED. 3. OBTAIN AND PAY ALL FEES, TAXES, AND PERMITS REQUIRED FOR ELECTRICAL WORK. PREPARE AND SUBMIT TO THE CITY OF NAPERVILLE ANY AND ALL DATA, DRAWINGS, AND DETAILS WHICH MAY BE REQUIRED FOR APPROVAL PRIOR TO INSTALLATION OF SAME. 4. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND RELATED APPURTENANCES REQUIRED FOR ALL WORK INCLUDED AS PART OF THE ELECTRICAL INSTALLATION FOR THIS PROJECT. 5. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS AND DELAYS. 6. FURNISH AND INSTALL ALL AUXILIARY SUPPORTS AND MATERIAL NECESSARY TO INSTALL EQUIPMENT, MATERIAL, LIGHTING FIXTURES, DEVICES, CONDUIT AND WIRING. 7. ALL SYSTEMS WHICH ARE INCLUDED AS PART OF THE ELECTRICAL INSTALLATION FOR THIS PROJECT SHALL BE COMPLETED IN ALL DETAILS, INCLUDING ALL COMPONENTS REQUIRED FOR PROPER AND SATISFACTORY OPERATION. 8. ALL WIRE SHALL BE INSTALLED IN CONDUIT. MINIMUM SIZE OF CONDUIT SHALL BE 1/2" I.D. LARGER SIZES SHALL BE USED WHERE REQUIRED BY ADOPTED ELECTRICAL CODE. 9. ELECTRICAL METALIC TUBING (EMT) MAY BE USED WITHIN CODE LIMITATIONS ON INTERIORS ONLY. 10. CONDUITS SHALL BE CONCEALED IN ALL "FINISHED" AREAS. IN "UNFINISHED" AREAS CONDUITS MAY BE RUN EXPOSED, PARALLEL WITH OR PERPENDICULAR TO BUILDING LINES. 11. FURNISH AND INSTALL ALL OUTLET BOXES RAISED COVERS, COVER PLATES, AND SUPPORTS AS REQUIRED. 12. FURNISH AND INSTALL BREAKERS FOR ALL EQUIPMENT, INCLUDING EQUIPMENT FURNISHED BY OWNER AND OTHERS. 13. ALL ELECTRICAL OUTLETS NEAR WATER MUST BE GFCI. 14. ALL CLOSETS SHALL BE: A. RECESSED LIGHTS WITH 6" CLEARANCE BETWEEN FIXTURE AND NEAREST POINT OF STORAGE SPACE. C. FLUORESCENT LIGHTS WITH 6" CLEARANCE BETWEEN FIXTURE AND NEAREST POINT OF STORAGE SPACE. D. AND NEAREST POINT OF STORAGE SPACE. E. INCANDESCENT LIGHTS WITH 12" CLEARANCE BETWEEN FIXTURE AND NEAREST POINT OF STORAGE SPACE.	2. NEW 200 AMP SERVICE 3-3/4" DIA. GRD IN 2-1/2" C. RSG 3. 200 AMP, 120/240V, 1Ø, 3W (SERVICE ENTRANCE) 4. 200A/1P 5. M 6. BSMT. 7. 20 IN 1" C. 8. 2#30+1#10 GRD IN 2 1/2" C. 9. INCOMING COLD WATER PIPE 10. 100A/1P, 120/240V 11. 200A/1P, 120/240V 12. COPPER WELD GROUND ROD, 3/4" DIA, 10' LONG 13. TOP OF ELECTRODE 30' BELOW GRADE 14. LE MOUNTED 0 TRANSFORMER



1 ELECTRICAL SINGLE LINE DIAGRAM

### CALCULATION FOR ELECTRICAL SERVICE

**LIGHTING\***  
Basement 1,272 Sq.Ft. x 3 (W per Sq.Ft.) = 3,816 W  
1st Floor 1,543 Sq.Ft. x 3 (W per Sq.Ft.) = 4,629 W  
2nd Floor 1,510 Sq.Ft. x 3 (W per Sq.Ft.) = 4,530 W

**POWER\***  
Basement 1,272 Sq.Ft. x 4 (W per Sq.Ft.) = 5,088 W  
1st Floor 1,543 Sq.Ft. x 4 (W per Sq.Ft.) = 6,172 W  
2nd Floor 1,510 Sq.Ft. x 4 (W per Sq.Ft.) = 6,040 W

**MOTOR LOAD @ 100% = ..... 18,000 W**

**25% MOTOR LOAD = ..... 4,500 W**

**TOTAL LOAD = 52,775 W**

**(52,775 W/240V)\*0.80 = 176 AMPS**  
SELECTED 200 AMPS

\*FROM MECHANICAL AND ELECTRICAL SYSTEMS IN BUILDINGS BY RICHARD R. LEWIS AND ALD. TABLE 13-3 PG. 419

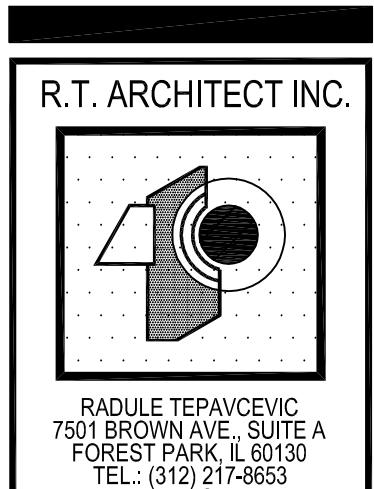
ELECTRICAL SYMBOL LIST	
SYMBOL	DESCRIPTION
\$	NEW SINGLE POLE LIGHT SWITCH 4'-0" ABOVE FINISH FLOOR (TYP.)
SD	NEW CEILING MOUNTED HARDWIRED SMOKE DETECTOR w/BATTERY BACK UP
CO	NEW CEILING-MTD HARDWIRED CARBON MONOXIDE DETECTOR w/BATTERY BACK UP
EX	NEW EXHAUST FAN - SINGLE PHASE
120V	NEW 120V. 1Ø. WALL-MOUNTED DUPLEX GROUND OUTLET 18' ABOVE FLOOR (TYP.)
GFI	NEW 120V. 1Ø/WALL-MOUNTED DUPLEX GROUND FAULTED INTERRUPTOR OUTLET
ARC	NEW 120V. 1Ø/WALL-MOUNTED DUPLEX ARC-FAULTED INTERRUPTOR OUTLET
F1	NEW CEILING MOUNTED LIGHT FIXTURE. "PC" TAG FOR PHOTOVOLTAIC SENSOR ACTIVATED FIXTURES.
F2	NEW RECESSED CAN LIGHT
F3	NEW WALL MOUNTED LIGHT FIXTURE
F4	NEW WALL MOUNTED WEATHERPROOF LIGHT FIXTURE "MS" TAG FOR MOTION SENSOR ACTIVATED FIXTURES.
F5	NEW CEILING MOUNTED PENDANT LIGHT FIXTURE
EP	NEW ELECTRICAL PANEL
EM	NEW ELECTRICAL METER
EL	EMERGENCY LIGHT w/ BATTERY BACK-UP
ES	EXIT SIGN w/ BATTERY BACK-UP

### PANELBOARD SCHEDULE, PANEL-1

PANEL MTG.	WALL MOUNTED	VOLTAGE	120/240 V	PANEL DIMENSIONS
MAIN FUSE	200 AMP BREAKER	LOCATION	BASEMENT	HEIGHT AS REQ'D.
		PHASE	1Ø (SW)	WIDTH
LUGS	FEEDER SIZE	SEE ONE LINE DIAGRAM	DEPTH	
NO. OF CCTS.	30	SERVED FROM	METER	CONN. LOAD 38.95 KW
GR. BAR	YES	DESIGNED LOAD	48.00 KW	
ISO. GR.	NO			
CCT. NO.	CCT. AMP.	A WATTS	B WATTS	CCT. NO.
1 15	GEN. LIGHTING (BSMT.)	2112	GEN. LIGHTING (BSMT.)	15 2
3 15	GEN. LIGHTING (BSMT.)	2112	GEN. LIGHTING (BSMT.)	15 4
5 15	GEN. LIGHTING (1st FL.)	2112	GEN. LIGHTING (1st FL.)	15 6
7 15	GEN. LIGHTING (1st FL.)	2112	GEN. LIGHTING (1st FL.)	15 8
9 15	GEN. LIGHTING (1st FL.)	2112	GEN. LIGHTING (1st FL.)	15 10
11 20	RECEPTACLE (BSMT.)	2480	RECEPTACLE (BSMT.)	20 12
13 20	RECEPTACLE (1st FL.)	2480	RECEPTACLE (1st FL.)	20 14
15 20	RECEPTACLE (1st FL.)	2480	RECEPTACLE (1st FL.)	20 16
17 20	RECEPTACLE (1st FL.)	2480	RECEPTACLE (1st FL.)	20 18
19 20	RECEPTACLE (1st FL.)	2480	RECEPTACLE (1st FL.)	20 20
21 20	BSMT. EQUIPMENT	220	1ST FLOOR EQUIPMENT	20 22
23 40	DOUBLE OVEN	2770	DECK LIGHTING	15 24
25 40	DOUBLE OVEN	4000	A/C UNIT (G.U.)	20 26
27 40	FURNACE (FUR.)	4500		20 28
29				30
		TOTAL WATTS / PHASE	20,016	18,604
		TOTAL CONN. LOAD	38.95 KW	
		DEMAND FACTOR	0.81	
		SPARE LOAD FACTOR	0.19	
		REMARKS:		

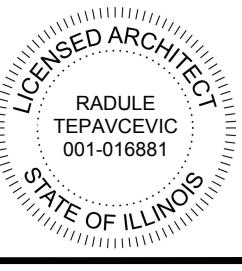
### PANELBOARD SCHEDULE, PANEL-2

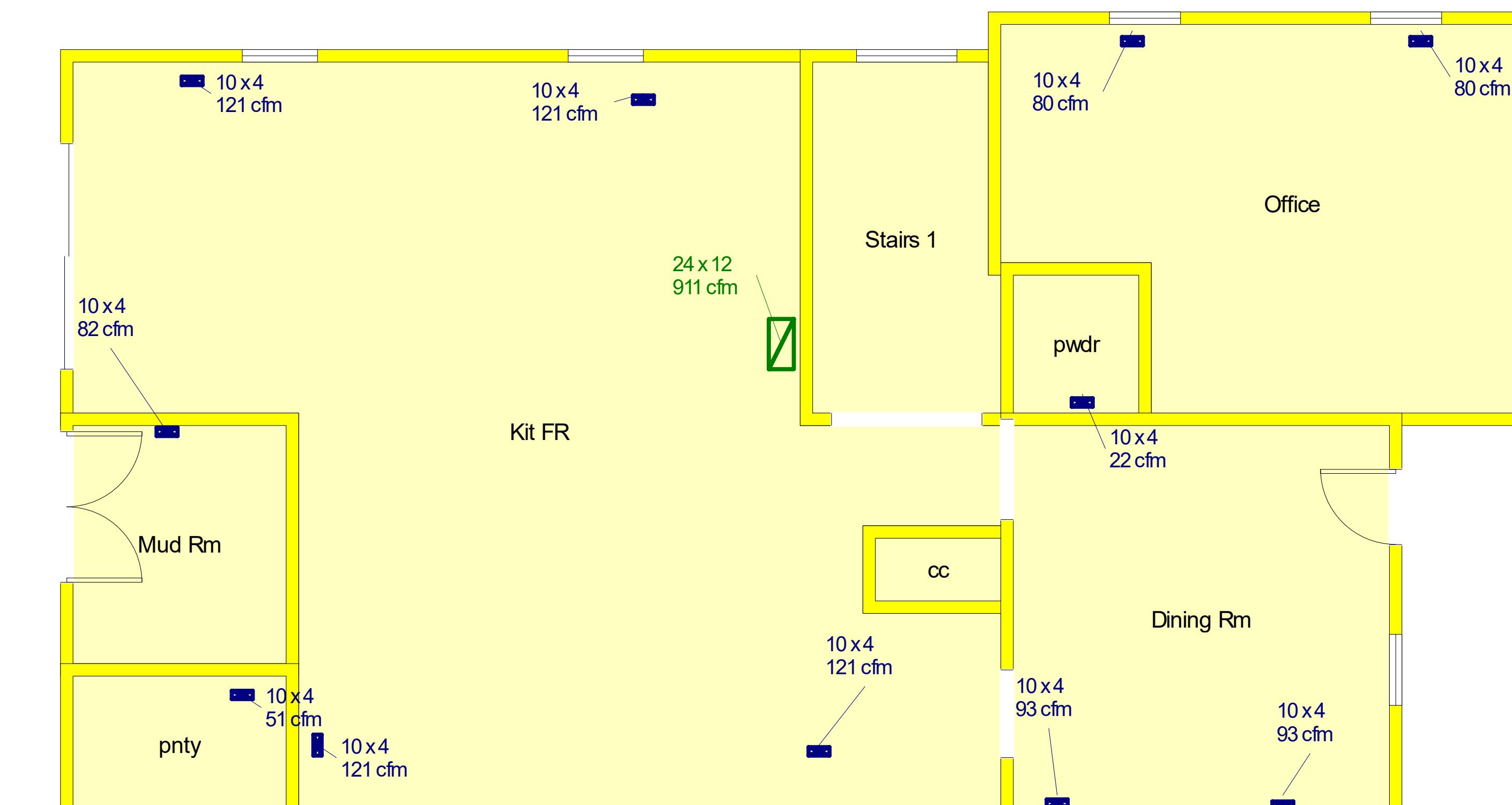
PANEL MTG.	WALL MOUNTED	VOLTAGE	120/240 V	PANEL DIMENSIONS
MAIN FUSE	100 AMP BREAKER	LOCATION	SECOND FLOOR	HEIGHT AS REQ'D.
		PHASE	1Ø (SW)	WIDTH
LUGS	FEEDER SIZE	SEE ONE LINE DIAGRAM	DEPTH	
NO. OF CCTS.	20	SERVED FROM	METER	CONN. LOAD 23.43 KW
GR. BAR	YES	DESIGNED LOAD	24.00 KW	
ISO. GR.	NO			
CCT. NO.	CCT. AMP.	A WATTS	B WATTS	CCT. NO.
1 15	GEN. LIGHTING (2nd FL.)	1943	GEN. LIGHTING (2nd FL.)	15 2
3 15	GEN. LIGHTING (2nd FL.)	1943	GEN. LIGHTING (2nd FL.)	15 4
5 15	GEN. LIGHTING (2nd FL.)	1943	GEN. LIGHTING (2nd FL.)	15 6
7 15	GEN. LIGHTING (2nd FL.)	1943	GEN. LIGHTING (2nd FL.)	15 8
9 20	RECEPTACLE (2nd FL.)	2100	RECEPTACLE (2nd FL.)	20 10
11 20	RECEPTACLE (2nd FL.)	2100	RECEPTACLE (2nd FL.)	20 12
13 20	RECEPTACLE (2nd FL.)	2100	RECEPTACLE (2nd FL.)	20 14
15 20	2nd FL. EQUIPMENT	2200	A/C UNIT	65 18
17 40	FURNACE	3500		20 20
19 40	FURNACE	3500		20 22
21 40	FURNACE	3500		20 24
23 40	FURNACE	3500		20 26
25 40	FURNACE	3500		20 28
27 40	FURNACE	3500		20 30
29		TOTAL WATTS / PHASE	11,586	11,843
		TOTAL CONN. LOAD	23.43 KW	
		DEMAND FACTOR	0.98	
		SPARE LOAD FACTOR	0.02	
		REMARKS:		



PROJECT ARCHITECT:  
RT  
DRAFTSPERSON:  
CS  
APPROVED:  
RT  
PREPARED FOR:  
OWNER  
LOCATION:  
223 Center Street  
Naperville, IL 60130  
JOB NUMBER:  
223CS-07042023  
SHEET No.:  
E-03

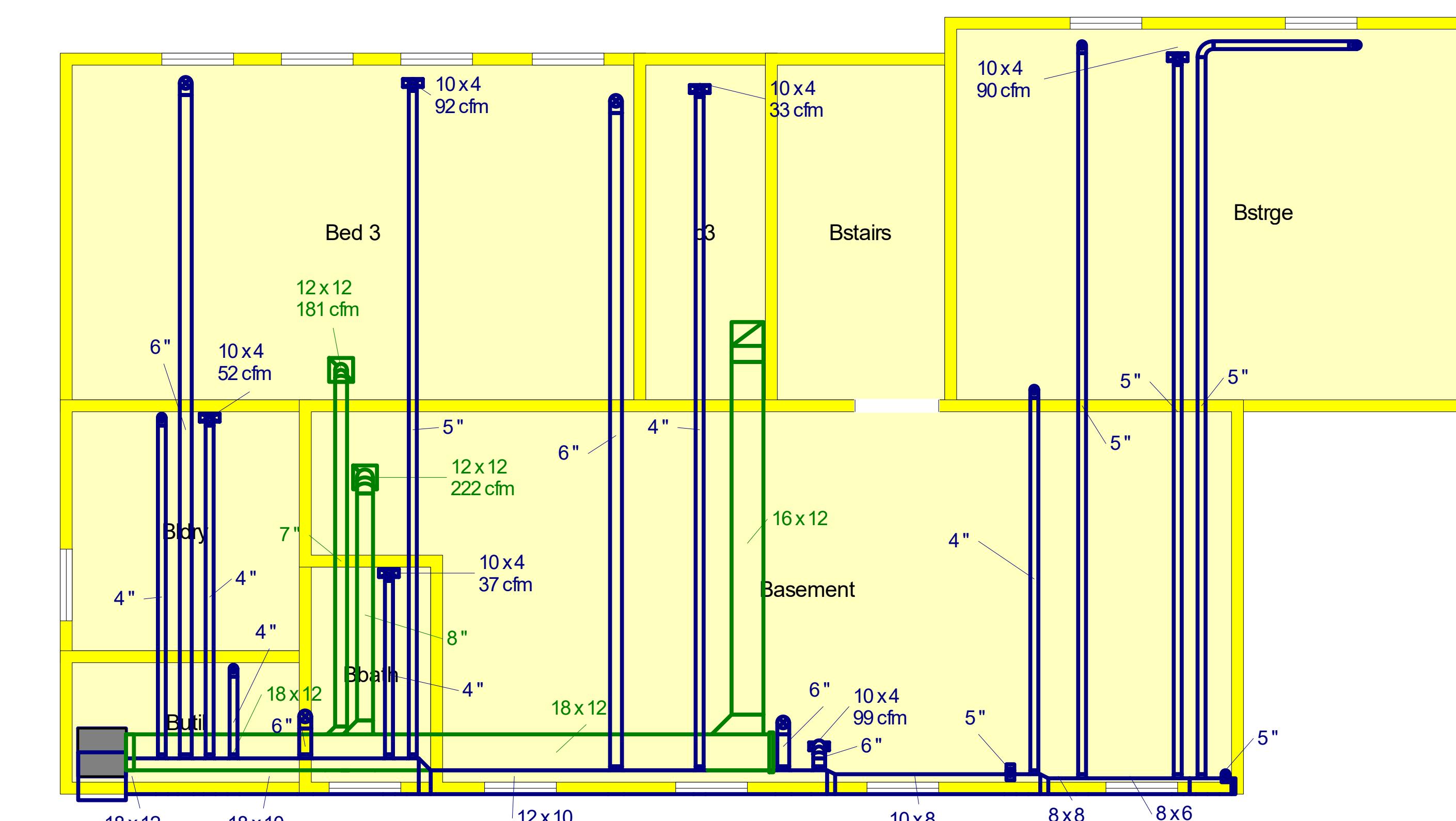
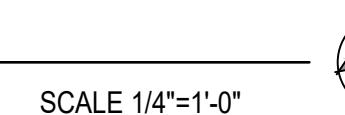
SHEET Name:  
Riser Diagram, Load  
Calc's & Schedules &  
Panelboards





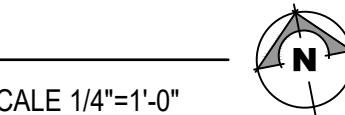
# 2 MECHANICAL PLAN FIRST FLOOR

## ANSWER



# 1 MECHANICAL PLAN BASEMENT

5



Convert 2-Unit to Single Family Residence. Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans. 223 Center Street, Naperville Illinois 60540

The logo for R.T. Architect Inc. is a graphic design. It features a stylized building facade with a large, dark, textured section on the left and a white section on the right. A circular window with a dark frame is positioned on the white section. Below the window is a dark, rounded rectangular shape representing a door. The entire logo is set against a background of a 2x2 grid of small, light-colored dots.

PROJECT ARCHITECT:  
RT

DRAFTPERSON:  
CS

APPROVED:  
RT

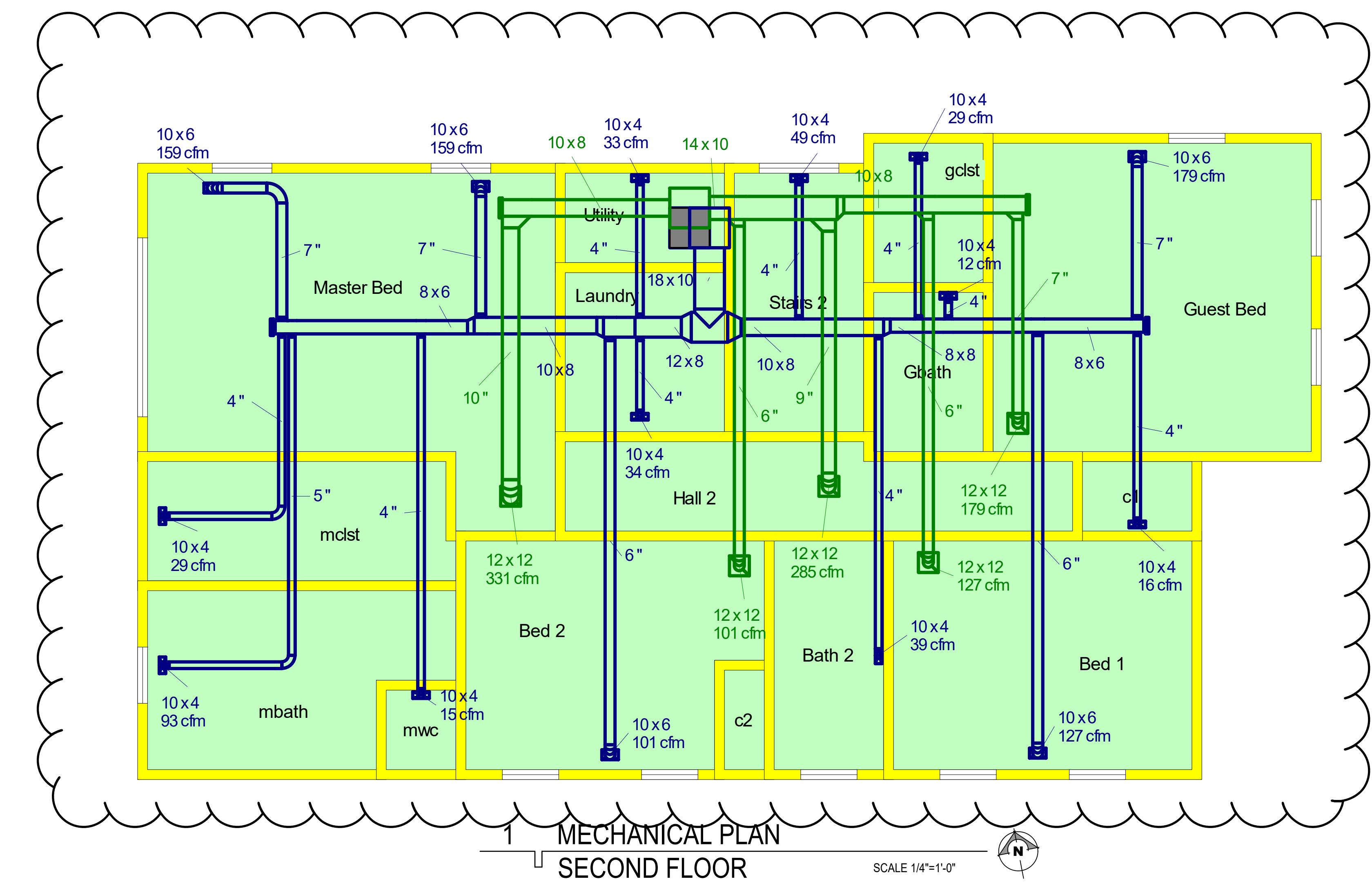
PREPARED FOR:  
OWNER

LOCATION:  
223 Center Street  
Naperville, IL 60540

JOB NUMBER:  
223CS-07042023

SHEET No.: **M-0**

SHEET Name: **Mechanical Plans**



Convert 2-Unit to Single Family Residence. Interior Rehab & New 2-Story Frame Addition including New Partitions, New Electrical, Mechanical & Plumbing Systems, New Roof System & New Rear Deck & Balcony per Plans. 223 Center Street, Naperville Illinois 60540

PROJECT ARCHITECT:  
RT

DRAFTPERSON:  
CS

APPROVED:  
RT

PREPARED FOR:  
OWNER

LOCATION:  
223 Center Street  
Naperville, IL 60540

JOB NUMBER:  
223CS-07042023

SHEET No.: **M-02**

SHEET Name: **Mechanical Plans**

MECHANICAL EQUIPMENT SCHEDULE																		
TAG	SERVICE	MANUF.	MODEL #	UNIT DATA			HEATING DATA			CONNECTIONS		BLOWER PERFORMANCE						
				EFF.	TONS	UNIT WEIGHT	HEAT SOURCE	V / Ø / Hz	AIR FLOW (CFM)	HEATING HIGH (Kw)	HEATING RANGE HIGH (F)	TEMP. RISE	FLUE CONN.	GAS PIPE SIZE (in)	AIR VOLUME (CFM)	TONS ADD-ON COOLING	FAN DIA (in)	MOTOR HP
FUR-1	BSMT & 1ST	HEIL	N9SESN0801716A	96%	4.45	146 LB.	NAT. GAS	120/160	935-1665	80,000	78,000	40-70	3" PVC	1/2	935-1665	4.45	11x8	3/4
FUR-2	SECOND FL.	HEIL	N9SESN0601412A	95%	2.5-3	129 LB.	NAT. GAS	120/160	345-1120	60,000	58,000	45-75	3" PVC	1/2	345-1120	2.5-3	11x7	1/2

1. ALL FURNACES TO BE PROVIDED WITH PLENUM MOUNTED HUMIDIFIER, APRIL AIR MDL. #550, WITH ALL NECESSARY WATER & DRAIN PIPING, INTERLOCK TO HEATING CYCLE.  
2. ALL FURNACE UNITS TO BE PROVIDED WITH ROOM THERMOSTAT AND SUBBASE WITH ALL CONTROL WIRING.  
3. ALL EXHAUST FANS TO BE PROVIDED WITH INTEGRATED DAMPER.

REFRIGERATION SCHEDULE															
TAG	SERVICE	COMP. TON	COMP. HP	REFRIG.	WT. REFRIG.	REMOTE	SELF. CONT.	LOCATION	AIR COOLED	WATER COOLED	SPECIAL	PER ATTACHED MANUAL J, SEE SHEET M-04 FOR SUMMARY			
												CU-1	BSMT. & 1ST FL.	CU-2	2ND FL.

EXHAUST FAN SCHEDULE														
TAG	SYSTEM	LOCATION	MANUFAC.	MODEL #	TYPE	PERFORMANCE				ELECTRICAL DATA				
						CFM	SONES	DUCT SIZE (in)	DISCHARGE DIRECTION	HP or WATTS	V / Ø / Hz	AMPS		
TE-1	BATH EXHAUST	CEILING	BROAN	LoSone #100	RECESSED	110	0.90	3	SIDE	87 W	120/160	1.1		
KE-1	RANGE HOOD	KITCHEN	Per Owner	---	---	350 max.	0.3-3.0	4" B	UP	---	120/160	---		

MECHANICAL SYMBOL LIST														
SYMBOL	DESCRIPTION													
	NEW 10"x6" CLG-MTD. SUPPLY DIFFUSER WITH ADJUSTABLE LOUVERED SCREEN													
	NEW 10"x6" FLOOR-MTD. SUPPLY DIFFUSER WITH ADJUSTABLE LOUVERED SCREEN													
	NEW CEILING-MTD. RETURN GRILL, SIZE AS SPECIFIED													
	NEW WALL-MTD. RETURN GRILL, SIZE AS SPECIFIED													
	NEW FURNACE, REFER TO EQUIP. SCHEDULE FOR SPECS.													
	NEW CEILING MOUNTED HARDWIRED SMOKE DETECTOR W/BATTERY BACK UP													
	NEW CEILING-MTD HARDWIRED CARBON MONOXIDE DETECTOR W/BATTERY BACK UP													
	NEW EXHAUST FAN													
	NEW SUPPLY DUCT, SIZE AS SPECIFIED, REFER TO SHEET METAL NOTES													
	NEW RETURN DUCT, SIZE AS SPECIFIED, REFER TO SHEET METAL NOTES													
	NEW VOLUME DAMPER													
	NEW SUPPLY DIFFUSER WITH VOLUME DAMPER													

#### MECHANICAL GENERAL NOTES

- ALL NEW MECHANICAL WORK SHALL COMPLY WITH STATE AND VILLAGE BUILDING CODES, LATEST EDITION, AND SHALL BE LEFT IN PERFECT OPERATING CONDITIONS.
- PROVIDE GAS SERVICE WITH SHUT-OFF VALVE TO ALL GAS FIRED EQUIPMENT. ALL GAS PIPING SHALL BE BLACK STEEL SCHEDULE 40 WITH MALLEABLE FITTINGS.
- PROVIDE VOLUME DAMPERS AT ALL DUCTWORK SUPPLY LINES.
- ALL GAS LINES MUST BE PRESSURE TESTED.
- THE CONTRACTOR SHALL COORDINATE WORK WITH APPLICABLE OSHA STANDARDS.
- THE CONTRACTOR SHALL COORDINATE WORK WITH GENERAL CONTRACTOR AND ALL OTHER TRADES TO AVOID INTERFERENCE DURING CONSTRUCTION.
- ALL CONTROL WIRING SHALL BE BY THIS CONTRACTOR.
- ALL REFRIGERANT PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX.
- PROVIDE CARBON MONOXIDE DETECTORS AS SPECIFIED ON DRAWINGS.
- DUCTWORK PENETRATIONS THRU WALLS / CEILING BETWEEN CONFINED SPACES MUST BE SEALED TO PREVENT FIRE SPREADING.
- Mechanical drawings are schematic for permit process only, verify with mechanical contractor.
- ALL EQUIPMENT MUST BE AS SPECIFIED OR EQUAL IN ITS PERFORMANCE, CAPACITY AND APPROVED BY THE VILLAGE.
- COMBUSTION AIR DUCTS SHALL BE OF GALVANIZED STEEL, SERVE A SINGLE APPLIANCE ENCLOSURE AND MUST CONFORM WITH THE VILLAGE CODE.
- ANY CHANGE OR DEVIATION IN THE MECHANICAL SPECIFICATIONS MUST BE SUBMITTED IN WRITING TO THE ENGINEER/ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
- DOWNDRAFT EXHAUST DUCTS NOT PERMITTED.

#### SHEET METAL NOTES

- ALL DUCTWORK MUST BE GALVANIZED IRON, GAUGES PER ASHRAE GUIDE, UNLESS OTHERWISE NOTED. ALL SQUARE ELBOWS TO HAVE DOUBLE THICKNESS TYPE TURNING VANES. UNLESS OTHERWISE NOTED, ALL ROUND ELBOWS SHALL HAVE INSIDE RADIUS EQUAL TO 75% OF DUCT WIDTH. MANUAL VOLUME DAMPERS TO HAVE LOCKING QUADRANT.
- ALL DUST, GRILLES, AND REGISTERS: EACH REGISTER SHALL BE FURNISHED WITH AN OPENING-BLADE VOLUME DAMPER WITH ADJUSTABLE AIR RETURN LOUVER.
- ALL DUCTWORK IN UNHEATED AREAS SHALL BE ADEQUATELY PROTECTED AGAINST THE ELEMENTS.

#### VENT NOTES

- VENTS SHALL TERMINATE NOT LESS THAN 2 FEET ABOVE THE HIGHEST POINT OF THE ROOF PENETRATION AND NOT LESS THAN 2 FEET HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10 FEET.
- HORIZONTAL TERMINATIONS FOR VENTS ARE PERMITTED ON CATEGORY IV APPLIANCES ONLY AND SHALL BE LOCATED PER APPLICABLE CODE.

#### COMBUSTION AIR DUCTS

COMBUSTION AIR DUCTS SHALL:

- BE OF GALVANIZED STEEL, COMPLYING WITH CHAPTER 6 OR OF EQUIVALENT CORROSION-RESISTANT MATERIAL APPROVED FOR THIS APPLICATION.
- HAVE A MINIMUM CROSS-SECTIONAL DIMENSION OF 3 INCHES.
- TERMINATE IN AN UNOBSTRUCTED SPACE ALLOWING FREE MOVEMENT OF COMBUSTION AIR TO THE APPLIANCES.
- TERMINATE IN THE SAME CROSS-SECTIONAL AREAS AS THE FREE AREA OF THE OPENINGS TO WHICH THEY CONNECT.
- SERVE A SINGLE APPLIANCE ENCLOSURE.
- NOT SLOPE DOWNWARD TOWARD THE SOURCE OF COMBUSTION AIR.

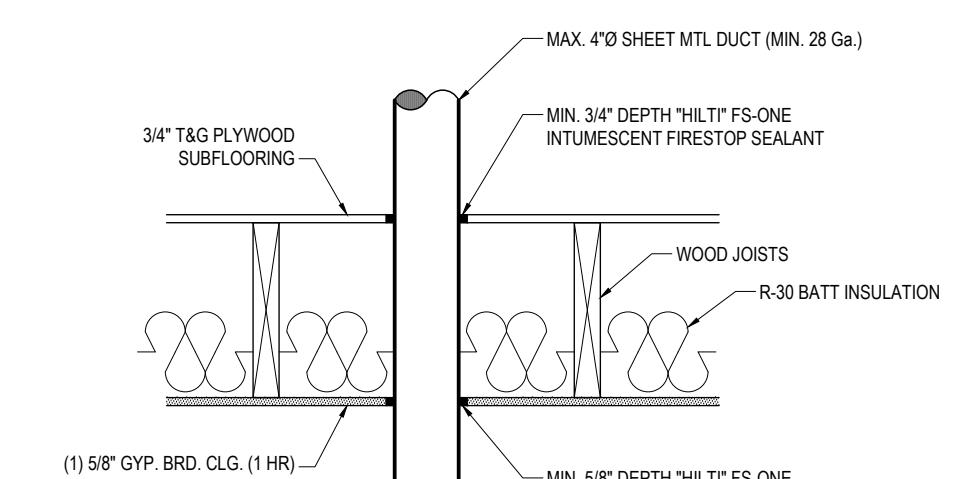
#### REFRIGERATION NOTES

REFRIGERATION PIPING:

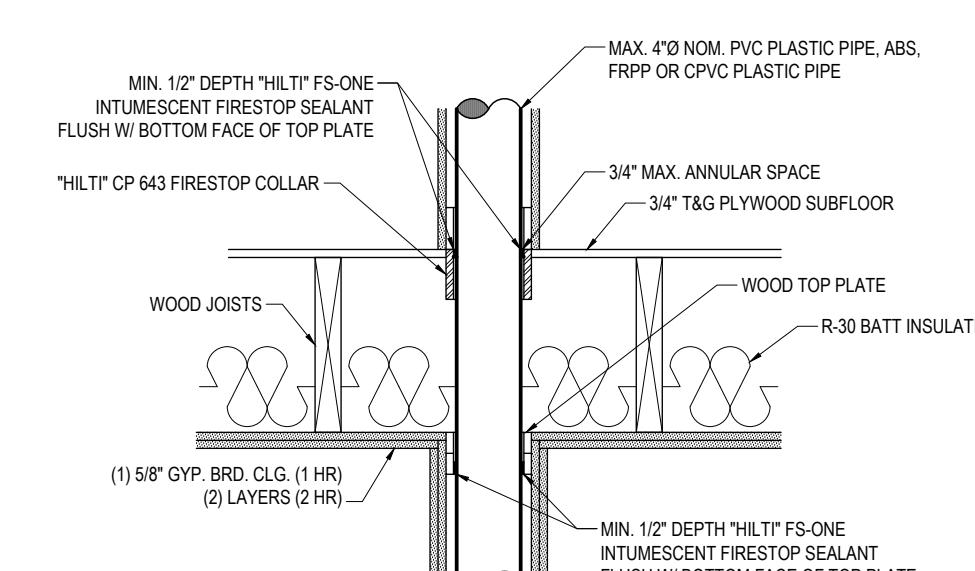
- COPPER TUBING MAY BE TYPE ACR OR TYPE "K" UNLESS THE PRESSURE EXCEEDS THE RATED CAPACITY OF ACR TUBING.
- ALL JOINTS & CONNECTIONS TO BE BRAZED.
- REMOVE EXPANSION VALVES, DEVICES, AND CONNECTIONS FROM THE AIR STREAM.
- INSTALL PRESSURE RELIEF VALVE ON HIGH PRESSURE SIDE OF SYSTEM, UPSTREAM OF ANY INTERVENING VALVES.

#### CONDENSATE PIPING NOTES

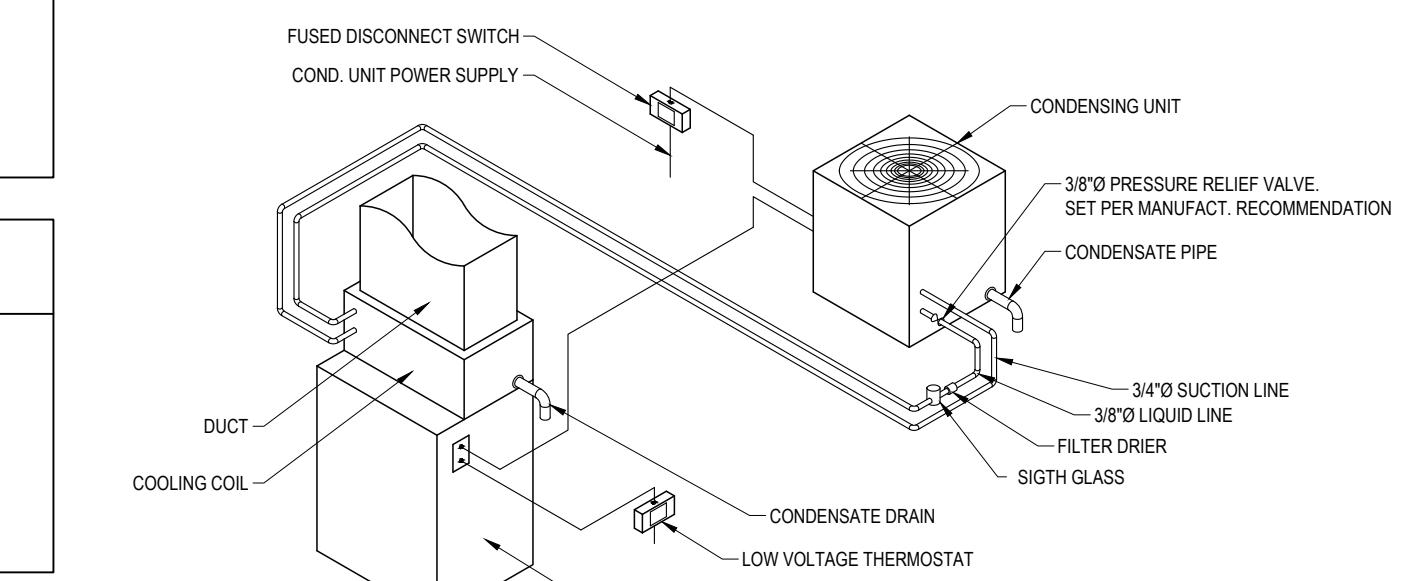
- FUEL-BURNING, EVAPORATIVE & COOLING DEVICES THAT PRODUCE CONDENSATE MUST BE DRAINED. CONDENSATE SHALL BE COLLECTED AND DISCHARGED TO AN APPROVED PLACE OF DISPOSAL. CONDENSATE PIPING SHALL BE TYPE M COPPER OR SCHEDULE 40 PVC AND SHALL NOT BE SMALLER THAN THE DRAIN CONNECTION ON THE APPLIANCE SUCH PIPE SHALL MAINTAIN A MIN. HORIZONTAL SLOPE IN THE DIRECTION OF DISCHARGE OF NOT LESS THAN ONE-EIGHT UNIT VERTICAL IN 12 UNITS HORIZONTAL.
- OVERFLOW DRAINS SHOULD DISCHARGE IN A CONSPICUOUS LOCATION.



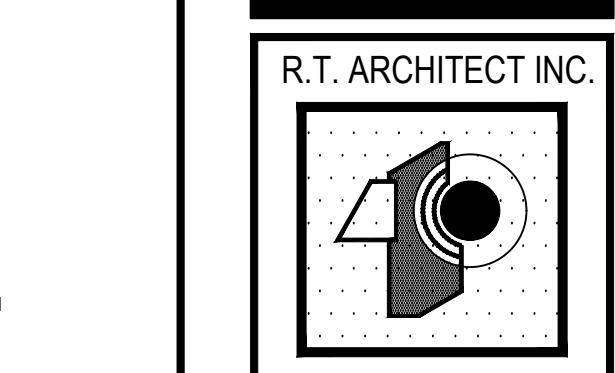
2 METAL DUCT THRU-PENETRATION  
FIRE STOP SYSTEM # FC-7013, 1 HR. RATING NTS



3 PLASTIC PIPE THRU-PENETRATION  
FIRE STOP SYSTEM # FC-2025, 1 & 2 HR. RATING NTS

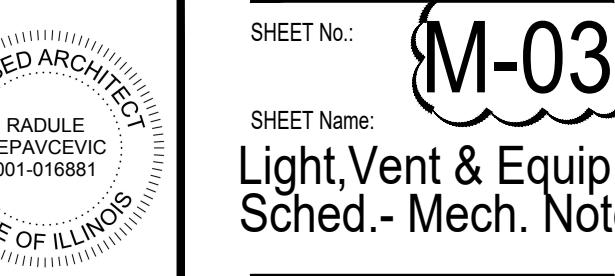


2 SPLIT SYSTEM DIAGRAM  
NTS



R.T. ARCHITECT INC.  
RADULE TEPAVCEVIC  
750 BROWN PINE PARK, A  
FORREST PARK, IL 60130  
TEL: (312) 217-8653  
rtepavcevic@aol.com

PROJECT ARCHITECT: RT  
DRAFTSPERSON: CS  
APPROVED: RT  
PREPARED FOR: OWNER  
LOCATION: 223 Center Street  
Naperville, IL 60540  
JOB NUMBER: 223CS-07042023  
SHEET No.: M-03  
SHEET NAME: Light, Vent & Equip. Sched.- Mech. Notes



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