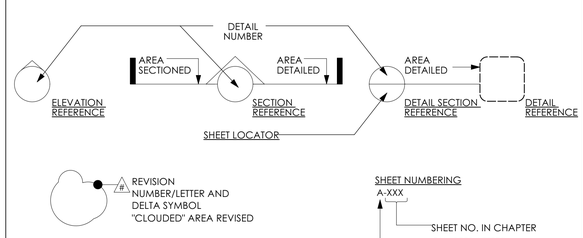
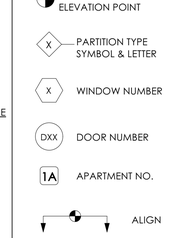
LIST OF ABBREVIATIONS

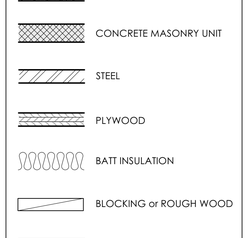
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
ACC	ACCESS
AD	ACCESS DOOR
AP	ACCESS PANEL
ACT	ACOUSTICAL TILE
ADD	ADDENDUM
ADJ	ADJACENT or ADJUSTABLE
AGGR	AGGREGATE
A/C	AIR CONDITIONER
ALUM/AL	ALUMINUM
ACI	AMERICAN CONCRETE INSTITUTE
ADA	AMERICANS W/ DISABILITIES ACT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWG	AMERICAN WIRE GAGE
APPROX	APPROXIMATE
BB	BASEBOARD
BP	BASE PLATE
BM	BEAM
BRG	BEARING
B.M.	BENCH MARK
BTWN	BETWEEN
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
B.O.	BOTTOM OF
CAB	CABINET
C.I.	CAST IRON
C.H.	CEILING HEIGHT
CB	CATCH BASIN
CLG	CEILING
CEM	CEMENT
CL	CENTER LINE
CT	CERAMIC TILE
CO	CLEAN OUT
CLR	CLEAR(ANCE)
CW	COLD WATER
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS or CONTINUE
CONV	CONVECTOR
CG	CORNER GUARD
DP	DAMPROOFING
DEG	DEGREE
DTL	DETAIL
DIAG	DIAGONAL
DFF	DIFFUSER
DM	DIMENSION
DISP	DISPENSER
DBL	DOUBLE
DN	DOWN
DWG	DRAWING
DF	DRINK FOUNTAIN
EA	EACH
ELEC	ELECTRICAL or ELECTRIC
EP	ELECTRIC PANEL
E.W.C	ELECTRIC WATER COOLER
	ELEVATION
ELEV	ELEVATOR
EMER	EMERGENCY
EQ	EQUAL
EQUP	EQUIPMENT
EXH	EXHAUST
EXIST	EXISTING
F.A.I.	FRESH AIR INTAKE
F.O.	FACE OF
F.BR.	FACE OF BRICK
F.O.C	FACE OF CONCRETE
F.O.M	FACE OF MASONRY
F.O.S	FACE OF STUDS
FIN	FINISH
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FHVC	FIRE HOSE VALVE CABINET
F.D.	FLOOR DRAIN or FIRE DAMPER
FE	FIRE EXTINGUISHER
FP	FIRE PROOF
FLUOR	FLUORESCENT
FT	FOOT or FEET
FTG	FOOTING
FDN	FOUNDATION
F.A.I.	FRESH AIR INTAKE
FLR	FLOOR
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GL	GLASS or GLAZING
GB	GRAB BAR
GND	GROUND
GYP	GYPSUM
GWB/ GYP.BD	GYPSUM WALL BOARD
HC	HANDICAPPED
HR	HAND RAIL
HDWR	HARDWARE
HWD	HARDWOOD
HVAC	HEATING VENTILATING AIR CONDITIONING
	HEIGHT
HM	HOLLOW METAL
	HOSE BIBB
H.P.	HIGH POINT
INCAND	INCANDESCENT
INCL	INCLUDE(D), (ING)
	INTERIOR DIAMETER
INSUL	INSULATE(D), (ING), (TION)
INV	INVERT
INV EL	INVERT ELEVATION
JC	JANITOR CLOSET
JT	JOINT
JB	JUNCTION BOX
KO	KNOCK OUT
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LKR	LOCKER
L.P.	LOW POINT
MH	MANHOLE
MFR	MANUFACTURE(R)
MAS	MASONRY
MO	MASONRY OPENING
M.E.	MATCH EXISTING
MAT	MATERIAL
MAX	MAXIMUM
MECH	MECHANIC(AL)
MC	MEDICINE CABINET
MBR	MEMBER
MTL	METAL
MN	MINIMUM
MR	MIRROR
MISC	MISCELLANEOUS
MC	MISCELLANEOUS CHANNEL
MTD	MOUNTED
MOV	MOVABLE
MUL	MULLION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NRC	NOSE REDUCTION COEFFICIENT
NOM	NOMINAL
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OPH	OPPOSITE HAND
OD	OUTSIDE DIAMETER
OZ	OUNCE
OA	OVERALL
OH	OVERHEAD
PNT/PT(D)	PAINT(ED)
PR	PAIR
PNL	PANEL
PTN	PARTITION
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PL	PLATE
PLWD	PLYWOOD
PVC	POLYVINYL CHLORIDE or COATING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QUANT/QTY	QUANTITY
QT	QUARRY TILE
RAD	RADIUS or RADIATOR
REF	REFERENCE
REINF	REINFORCEMENT
REQD	REQUIRED
RET	RETURN
RD	ROOF DRAIN
RO	ROUGH OPENING
SAD	SADDLE
SAN	SANITARY
SCHED	SCHEDULE
SECT	SECTION
SIM	SIMILAR
STC	SOUND TRANSMISSION COEFFICIENT
SPKR	SPEAKER
SPEC	SPECIFICATION
SF	SQUARE FOOT
SST/ST. STL.	STAINLESS STEEL
SD	STORM DRAIN
S.F.T.	STRUCTURAL FACED TILE
SW	SWITCH
TEL	TELEPHONE
TV	TELEVISION
TEMP	TEMPERED
TERR	TERRAZZO
THK	THICK
T.O.	TOP OF
TYP	TYPICAL
U.L.	UNDERWRITERS LABORATORY
UC	UNDERCUT
UNEX	UNEXCAVATED
U.C.C.	UNIFORM CONSTRUCTION CODE
U.O.N.	UNLESS OTHERWISE NOTED
V.I.F.	VERIFY IN FIELD
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
VB	VINYL BASE
VOL	VOLUME
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WP	WATER PROOF
WWF	WELDED WIRE MESH
WT	WEIGHT
WO	WINDOW OPENING
W/	WITH
W/O	WITH OUT
WGL	WIRE GLASS

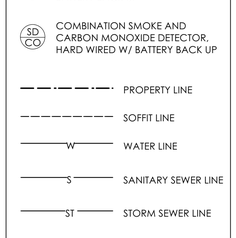
NEW
SINGLE FAMILY RESIDENCE:
1A PLUNKETT PL
WESTPORT, CT 06880

SYMBOL KEY









DRAWING INDEX
(TOTAL 36 PAGES)

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ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

TITLE PAGE

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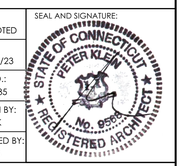

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1 OF 36

GENERAL NOTES

ALL WORK SHALL CONFORM TO THE 2022 CONNECTICUT STATE BUILDING CODE AND, TOWN OF WESTPORT MUNINCIPAL CODE & ALL RULES AND REGULATIONS OF ALL DEPARTMENTS HAVING JURISDICTION.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS AND STANDARDS AND ALL LOCAL REQUIREMENTS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO FOLLOW ALL SAFE EXCAVATION PRACTICES AND CALL "DIG-SAFELY" AT LEAST 3 WORKING DAYS IN ADVANCE TO MARK UP ANY UNDERGROUND UTILITIES. NO EXCAVATION WORK OR DIGGING OF ANY KIND SHALL START OTHERWISE.

ALL WORK SHALL BE PERFORMED IN A WORKMAN-LIKE MANNER BY QUALIFIED JOURNEYMEN OR MASTERS OF EACH TRADE.

ALL MATERIAL HANDLING AND INSTALLATION SHALL BE STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE, AND PAY FOR ALL TESTS, INSPECTIONS, ETC. AS REQUIRED BY THE BUILDING DEPARTMENT AND ANY OTHER DEPARTMENTS HAVING JURISDICTIONS.

GENERAL CONTRACTOR SHALL VISIT THE SITE AND MAKE HIMSELF FAMILIAR WITH THE WORK AND THE LOCAL CONDITIONS PRIOR TO SUBMITTING A PRICE TO THE OWNER.

ALL SURFACES ADJACENT TO THE WORK AREA, WHICH IS DAMAGED DURING CONSTRUCTION BY THE FORCES OF THE GENERAL CONTRACTOR, SHALL BE REPAIRED TO MATCH SURROUNDING SURFACES TO SATISFACTION OF THE OWNER AND ARCHITECT AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL REMOVE FROM THE ALL DEBRIS CREATED BY HIS WORK AND SHALL DISPOSE OF THEM IN A LEGAL MANNER ON A WEEKLY BASIS OR SOONER AS CONDITIONS WARRANTS.

AT COMPLETION OF THE WORK THE SITE SHALL BE CLEARED OF ALL DEBRIS AND REMAINING MATERIALS AND THE PREMISES SHALL BE LEFT BROOM CLEAN.

THE ENGINEER SHALL BE THE SOLE JUDGE AS TO THE ADEQUACY OF THE WORK PERFORMED. HE SHALL HAVE THE RIGHT TO ORDER REMOVAL OF DEFECTIVE WORK AND MATERIALS.

ANY DEVIATION FROM THESE DRAWINGS SHALL CAUSE THE WORK TO CEASE IN THE AFFECTED AREAS UNTIL THE ENGINEER HAS APPROVED THE CHANGES.

NO DRAWINGS SHALL BE USED ON JOB UNLESS THEY BEAR THE STAMP: ISSUED FOR CONSTRUCTION.

ENGINEER OF RECORD NOT RESPONSIBLE FOR FILING OR OBTAINING ANY APPROVALS WITH ANY BOARD.

CONTRACTOR IS CAUTIONED TO MAKE CONTINUOUS OBSERVATION OF THE EXISTING STRUCTURE DURING THE PERFORMANCE OF HIS WORK. SHOULD HE BECOME AWARE OF ANY SITUATION THAT REQUIRES FURTHER INVESTIGATION (SUCH AS CRACKS IN MASONRY AND PARTITIONS, ADDITIONAL OR EXCESSIVE DEFLECTION, ETC.) HE SHALL NOTIFY THE ENGINEER.

CONSTRUCTION NOTES

TEMPORARY SHORING: PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, ,OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.

DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. AT CONCEALED SPACES, SUCH AS ,DUCT AND PIPE INTERIORS, VERIFY CONDITION AND CONTENTS 'OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN FIRE WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.

LOCATE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS. OR FRAMING.

PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING DEMOLITION.

OWNER APPROVAL IS REQUIRED PRIOR TO PROPOSED INSTALLATION OF THE CONSTRUCTION FENCE ON ADJACENT PROPERTIES.

CONTRACTOR SHOULD OBTAIN A PERMISSION TO ENTER ADJOINING PROPERTIES AND PRECONSTRUCTION SURVEY OF EXISTING CONDITIONS SHOULD BE CONDUCTED OVER ADJOINING PROPERTIES AND A WRITTEN AND PHOTOGRAPHIC DOCUMENTATION SHOULD BE OBTAINED PRIOR TO COMMENCEMENT OF ANY OPERATION. ADJOINING PROPERTY OWNERS, PROFESSIONAL ENGINEER INVOLVED IN THE PROJECT SHOULD BE NOTIFIED OF ANY ONGOING PROBLEM OR ANY OTHER PARTICULAR SITUATION THAT COULD ARISE DURING THE DEMOLITION OPERATIONS.

A QUALIFIED ENGINEER SHALL BE ON SITE FOR ANY REQUIRED CONTROL INSPECTION AND TO SURVEY CONDITIONS OF BUILDING OR STRUCTURE TO BE REMOVED AND DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF STRUCTURE OR ADJACENT STRUCTURES DURING DEMOLITION OPERATIONS.

BEFORE STARTING OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE ELEMENTS, WHERE REQUIRED, IN STRICT ACCORDANCE WITH OSHA RULES AND REGULATIONS. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION AND ALL EXPRESSED IN THE NOTES. COMPLY WITH ANSI A10.6 AND NFPA 241.

SPRAY FOAM INSULATION TO TJI FLOOR JOISTS PROVIDED.

CARPENTRY NOTES

PROVIDE ALL BLOCKING AND CUT OUTS AS REQUIRED FOR MEDICINE CABINETS, ACCESS DOORS AS REQUIRED, PLUMBING FIXTURES, H.V.A.C., ETC. VERIFY WITH ARCHITECT AND OWNER PRIOR TO START OF CARPENTRY WORK.

THE CARPENTRY CONTRACTOR SHALL BE RESPONSIBLE TO THE LEVEL OF ALL FLOORS, SILLS, ETC. AND PLUMBING OF ALL WALLS, JAMBS, ETC.

ALL FINISHED HARDWARE SHALL BE SUPPLIED AND INSTALLED BY THE CARPENTRY CONTRACTOR. THE CARPENTRY CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TEMPLATES, ETC. AND INSURE THE PROPER INSTALLATION OF ALL FINISHED HARDWARE. CARPENTRY CONTRACTOR SHALL PROVIDE BRASS BUTTS, 180 DEGREE SWING, MINIMUM THREE PER DOOR.

ELECTRICAL NOTES

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE 2017 NATIONAL ELECTRICAL CODE, VA STANDARDS, THE APPLICABLE SECTIONS OF THE NFPA 101 AND NFPA 72, AND ALL GOVERNING LOCAL CODES, LAWS, AND REGULATIONS.

2. PROVIDE A COMPLETE OPERABLE SYSTEM IN A WORKMANLIKE MANNER. OUTLINE DESCRIPTION AND EQUIPMENT LAYOUT DO NOT LIMIT CONTRACTOR'S LIABILITY FOR THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM.

3. MINIMUM SIZE OF CONDUITS SHALL BE 3/4", UNLESS OTHERWISE NOTED.

4. NO CONDUIT SHALL BE RUN IN ANY FLOOR IN CONTACT WITH THE EARTH UNLESS OTHERWISE DIRECTED ON THE PLANS.

5. CONDUIT RUNS SHALL CLEAR ALL ARCHITECTURAL FEATURES (DOORS, WINDOWS, ETC) AND SHALL BE COORDINATED WITH EXISTING OR NEW EQUIPMENT. PIPING AND DUCT WORK CORRESPONDING TO ALL TRADES INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL TRADES. NOTIFY THE PROJECT ENGINEER OF ANY OBSTRUCTION BEFORE INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL NOT BE CONSIDERED ADDITIONAL WORK AND SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.

6. RACEWAY INSTALLED EXPOSED ON THE SURFACE OF CEILINGS OR SIDEWALLS SHALL BE SUPPORTED FROM STRUCTURAL COMPONENTS OF THE BUILDING.

7. ALL RACEWAYS AND CABINETS SHALL BE GROUNDED TO THE BUILDING GROUNDING SYSTEM WITH AN INSULATED GROUND CONDUCTOR NOT SMALLER THAN #10 U.O.N.

8. ALL ELECTRICAL EQUIPMENT AND RACEWAY SHALL BE SUSPENDED FROM SUPPLEMENTAL SLOTTED CHANNEL FRAME, ALL SUCH MOUNTS. DEVICES. FASTENERS SHALL BE OF SUFFICIENT THICKNESS TO CARRY THE LOAD SUSPENDED AND SHALL BE SEISMICALLY RESTRAINED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY ADDITIONAL SUPPLEMENTAL STEEL REQUIRED TO SUPPORT THE EQUIPMENT OR DEVICES.

9. ALL OPENINGS BETWEEN FLOORS, THROUGH RATED FIRE AND SMOKE WALLS, CREATED BY THE CONTRACTOR FOR CABLE OR CONDUIT PASS THROUGH SHALL BE SEALED WITH A FIRE STOPPING MATERIAL. FIRE STOPPING MATERIAL AND ITS APPLICATION SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK.

10. CONTRACTOR TO BE RESPONSIBLE FOR ALL RESTORATIONS, SEALING, WATERPROOFING, PENETRATIONS, CORE DRILLING OR CUTTING, PATCHING, AND PAINTING FOR THE COMPLETE CONTRACT WORK INDICATED. ALL RESTORATION WORK PERFORMED BY CONTRACTOR SHALL RESTORE DISTURBED SURFACES TO THEIR ORIGINAL CONDITION.

PLUMBING NOTES

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIXTURES, OUTLETS AND ACCESSORIES, INCLUDING FLOOR DRAINS.

PROVIDE & INSTALL ALL ACCESS DOORS FOR CEILING AND WALL ACCESS TO ALL PIPING AND VALVES REQUIRING SERVICE.

CONTRACTOR IS RESPONSABLE FOR ALL CHANGES TO WORK OF ALL TRADES NECESSITATED BY PROVIDING EQUIPMENT DIFFERING IN ANY RESPECT FROM THAT INDICATED.

ALL EQUIPMENT SHALL BE SELECTED TO FIT AVAILABLE SPACE.

COORDINATE ALL PLUMBING REQUIREMENTS WITH THE CITY OF YONKERS FILE FOR AND PAY ALL PERMITS.

PLUMBING WORK SHALL BE PERFORMED BY FAIRFIELD COUNTY LICENSED PLUMER UNDER SEPARATE PERMIT.

MECHANICAL NOTES

ME.1 ALL GAS AND OIL BURNING EQUIPMENT SHALL CONFORM TO THE CONNECTICUT STATE BUIDLING CODE.

ME.2 ALL BOILER AND FURNACE ROOM SHALL BE AS PER NYS BUILDING CODE.

ME.3 ALL DUCTWORK LOCATED IN UNAIRCONDITIONED OR UNHEATED SPACES, SHALL BE SEALED AND INSULATED AS PER NYS ENERGY CODE.

VENTILATION NOTES

V.1 THESE DWGS COMPLY OR EXCEED THE MINIMUM REQUIREMENTS FOR LIGHT, HEAT, VENTILATION & NOISE CONTROL AS PER THE CONNECTICUT STATE BUILDING CODE.

SMOKE DETECTOR NOTES:

DWELLING UNITS SHALL BE EQUIPPED WITH SMOKE DETECTORS RECEIVING ITS PRIMARY POWER FROM THE BUILDING WIRING AND THERE SHALL NOT BE ANY SWITCHES IN THE CIRCUIT OTHER THAN THE OVER CURRENT DEVICE PROTECTING THE BRANCH CIRCUIT.

ALL SMOKE DETECTING DEVICES SHALL BE APPROVED BY A NATIONALLY RECOGNIZED INDEPENDENT LABORATORY THAT STATES IN LISTINGS THAT THE EQUIPMENT MEETS NATIONALLY RECOGNIZED STANDARDS.

THE DEVICE SHALL BE OF EITHER THE IONIZATION CHAMBER OF PHOTOELECTRIC TYPE.

SPRAY FOAM INSULATION PROVIDED.

GAS PIPING NOTES

GP.1 MATERIAL: THREADED, BLACK STEEL, SCHEDULE 40 PIPE, WITH IRON FITTING. GAS PIPING INSTALLED OUTDOOR SHALL BE COVERED WITH TWO COATS OF PAINTING, WHICH SHALL BE EXTENDED @ 3 INCHES MINIMUM INSIDE THE BUILDING.

GP.2 GAS PIPING SHALL BE INSTALLED BY A LICENSED PLUMBER AND WITH STANDARD OF THE COMPANY WHICH SUPPLIES THE GAS SERVICE

GP.3 THE PLUMBING CONTRACTOR SHALL MAKE ALL ARRANGEMENTS NECESSARY TO BRING THE GAS SERVICE INTO THE BUILDING & HE/SHE SHALL ASCERTAIN THAT MATERIAL AND LABOR MATCH THE SPECIFICATIONS OF THE COMPANY WHICH SUPPLIES THE GAS. THE MECHANICAL CONTRACTOR SHALL PAY FOR AND SECURE ANY NECESSARY APPROVAL PERMITS AND INSPECTIONS REQUIRED BEFORE STARTING THE WORK, AND AFTER ITS COMPLETION.

GP.4 GAS PIPING SHALL BE CAREFULLY TESTED FOLLOWING THE PROCEDURE SPECIFIED BY THE LOCAL REGULATIONS AND CODES.

GP.5 WHERE GAS PIPE IS TO BE ENCLOSED, THE PIPE TEST MUST PRECEDE THE WORK OF ENCLOSURE.

GP.6 ALL GAS PIPING, GAS SERVICE PIPING, GAS METER LOCATION, GAS PIPING MATERIAL SHALL COMPLY WITH NYC PLUMBING CODE.

ENERGY CONSERVATION

E1. DESIGN OF INSIDE AIR TEMPERATURE OF EACH ROOM THAT IS HEATED AND/OR COOLED:

HEATED 72 F° (MAX. NYS)
COOLED 75 F° (MIN. NYS)

E2. ALL INSULATION WHICH IS CAPABLE OF ABSORBING WATER SHALL BE PROTECTED BY A VAPOR BARRIER LOCATED ON THE WINTER WARM SIDE OF THE INSULATION. INSULATION SHALL BE INSTALLED IN A MANNER THAT PROVIDES CONTINUITY OF INSTALLATION AT PLATE LINES, SILL LINES AND CORNERS.

E3. LOCAL ENERGY CONSERVATION CONSTRUCTION CODE
LOCAL ENERGY CONSERVATION CONSTRUCTION CODES THAT ARE MORE STRINGENT IN THEIR REQUIREMENTS THAN THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE SHALL APPLY AND BE IMPLEMENTED WHEREVER REQUIRED.

E4. AIR LEAKAGE FOR ALL BUILDINGS
ALL EXTERIOR DOORS AND WINDOWS SHALL BE DESIGNED TO LIMIT AIR LEAKAGE INTO OR OUT OF THE BUILDING ENVELOPE. MANUFACTURED DOORS AND WINDOWS SHALL HAVE AIR INFILTRATION RATES NOT EXCEEDING THOSE SHOWN THE NYS ENERGY CODE. SITE CONSTRUCTED DOORS AND WINDOWS SHALL BE SEALED IN ACCORDANCE WITH THE NYS ENERGY CODE.

E5. EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES, OPENINGS BETWEEN WALL AND ROOF/CEILING, FLOORS AND ROOFS, AND ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.

E6. SHOWERS, OTHER THAN THOSE USED FOR SAFETY REASONS, SHALL BE EQUIPPED WITH OUTLET DEVICES WHICH LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 3 GPM AT A CONSTANT WATER PRESSURE OF 60 PSI.

E7. DESIGN PROFESSIONAL STATES THAT TO THE BEST OF HIS KNOWLEDGE AND PROFESSIONAL JUDGEMENT, THE DESIGN HAS BEEN MADE IN CONFORMANCE WITH THE ENERGY CODE.

E8. THIS DESIGN ANALYSIS IS NOT TO BE USED AS THE DETERMINING FACTOR IN COMPUTING THE DESIGN OF THE HEATING AND/OR VENTILATING EQUIPMENT TO BE INSTALLED IN THE BUILDING. TO DO SO WILL BE AT THE BUILDER AND/OR CONTRACTOR'S RISK. THE ARCHITECT OR ENGINEER SHALL BE HELD BLAMELESS FOR ANY HEATING OR VENTILATING EQUIPMENT INSTALLED AT THE JOB SITE.

E9. PROVIDE AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR EACH SEPARATE COOLING AND HEATING SYSTEM.

E10. PROVIDE R=6 MIN INSULATION AROUND DUCTS EXCEPT IN ATTIC, PROVIDE R=8 MIN. PROVIDE R=3 INSULATION AROUND ALL PIPING THAT CARRY FLUIDS WITH A TEMPERATURE OF MORE THAN 105F OR LESS THAN 55F.

E11. WINDOW INFILTRATION SHALL NOT EXCEED .5 CFM PER LINEAR FOOT OF CRACK WHEN TESTED AT IMPACT PRESSURE OF 25 MPH WIND.

E12. DOOR INFILTRATION SHALL NOT EXCEED 1.0 CFM PER LINEAR FOOT OF CRACK WHEN TESTED AT IMPACT PRESSURE OF 25 MPH WIND.

E13. THE BUILDING IS LOCATED IN CLIMATE ZONE 4 AND ITS THERMAL ENVELOPE SHALL MEET THE REQUIREMENTS BY COMPONENTS OF NYS ENERGY CODE FOR FENESTRATION AND INSULATION.

NYS ECC PROFESSIONAL STATEMENT:

"I, SHAHIN BADALY, DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2022 CONNECTICUT STATE BUILDING CODE, CLIMATE ZONE 4A."

FIRE STOPPING NOTES

FS.1 DUCT AND PIPE SPACES AND CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING, PIPE SPACES, COLUMN ENCLOSURES, ETC. THAT WOULD PERMIT PASSAGE OF FLAME, SMOKE, FUMES, OR HOT GASES FROM ONE FLOOR TO ANOTHER FLOOR OR ROOF SPACES, OR FROM ONE CONCEALED AREA TO ANOTHER, SHALL BE FILLED WITH NON-COMBUSTIBLE MATERIAL.

FS.2 FIRE STOPPING MAY BE OF COMBUSTIBLE MATERIALS CONSISTING OF WOOD NOT LESS THAN 2" NOMINAL THICKNESS WITH TIGHT JOINTS WHERE USED IN COMBUSTIBLE CONSTRUCTION, EXCEPT THAT NON-COMBUSTIBLE FIRE STOPPING SHALL BE USED IN CONCEALED SPACES OF FIRE DIVISIONS AND WHERE IN CONTACT WITH FIREPLACES, FLUES, AND CHIMNEYS.

FS.3 ALL HOLLOW PARTITIONS AND FURRED OUT SPACES SHALL BE FIRE STOPPED AT EACH FLOOR LEVEL. FIRE STOPS SHALL BE THE FULL THICKNESS OF THE HOLLOW FURRED OUT SPACES.

FS.4 CONCEALED SPACES WITHIN STAIRS CONSTRUCTION SHALL BE FIRE STOPPED BETWEEN STRINGERS AT THE TOP AND BOTTOM OF EACH FLIGHT OF STAIRS SO AS NOT TO COMMUNICATE WITH SPACES IN THE FLOOR, ROOF, OR INTERMEDIATE LANDING CONSTRUCTION.

FS. 5CEILINGS THAT CONTRIBUTE TO THE REQUIRED FIRE-RESISTANT RATING OF A FLOOR OR ROOF ASSEMBLY SHALL BE CONTINUOUS BETWEEN EXTERIOR WALLS, VERTICAL FIRE DIVISIONS, FIRE SEPARATIONS, CORRIDOR PARTITIONS OR ANY OTHER PARTITIONS HAVING AT LEAST THE SAME FIRE RESISTANCE RATING AS THE CEILING. THE CONCEALED SPACE ABOVE SUCH CEILING SHALL BE FIRE STOPPED INTO AREAS NOT EXCEEDING 3,000 SQ. FT. FOR THE FULL HEIGHT OF THE CONCEALED SPACE.

WORK TO BE FILED UNDER SEPERATE APPLICATIONS:

1. ELECTRICAL PERMIT
2. PLUMBING PERMIT
3. POOL PERMIT
4. HVAC

ENERGY ANALYSIS		
ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE AND CITATION
FURNACE	97.4% AFUE	80% AFUE
COIL	18.0 SEER	13.0 SEER

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD (PSF)	WIND DESIGN				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	SPEED (MPH)	TOPOGRAPHIC EFFECTS	SPECIAL WIND REGION	WIND-BORNE DEBRIS ZONE		WEATHERING	FROST LINE DEPTH	TERMITE					
30 PSF	120	NO	YES	30 PSF	B	SEVERE	3'-6"	MODERATE TO HEAVY	7 DEG. F	YES	SEE BELOW	1500	50 DEG. F

FLOOD HAZARDS:
(a) FIRST CODE DATE OF ADOPTION JULY 9,1980.
(b) DATE of FLOOR INSURANCE STUDY JAN. 21, 1998.
(c) MAP PANEL NUMBERS 36119C0907F THROUGH 36119C0338F EFFECTIVE SEPT. 28, 2007.

BADALY

ENGINEERING DESIGN:

BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

CONSULTANT

DE LA PUENTE ARC-CONSULTANT, LLC
PATRICIA DE LA PUENTE
PRINCIPAL
CEL. 914-6181847
PDLPARCHITECTURE@HOTMAIL.COM

PETER KLEIN , ASSOCIATES, INC
ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

GENERAL NOTES

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9598 · REGISTERED ARCHITECT

DRAWING NO.:

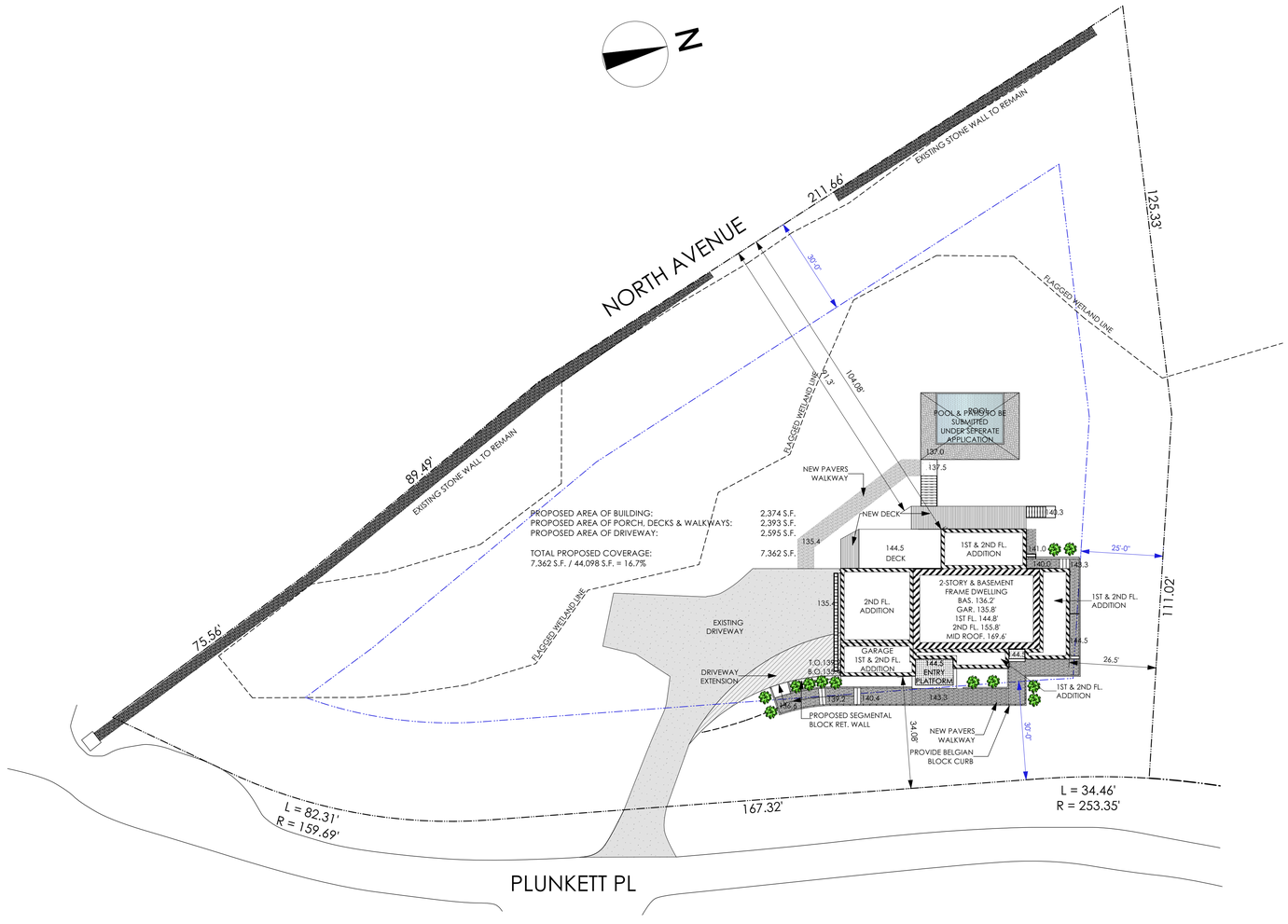
A-001.00

SHEET NO.: 2 OF 36

Property Address(es):	1A PLUNKETT PL
Zoning District(s):	AA
Structure / Site Use(s):	1-FAMILY DWELLING

Item	Required / Permitted	Existing	Proposed	Variance Requested
Building Height (stories)	3	2	2	NO
Building Height (feet)	40	24.88	30.16	NO
Lot Coverage - Impervious Surface (%)	25%	13.78%	16.7%	NO
Lot Area (square feet)	43,560	44,098	44,098	NO
Front Yard Setback (feet)	30	38.60	34.08	NO
Front Yard Setback-Secondary (feet)	30	91.30	91.30	NO
Side Yard Setback (feet)	25	34.50	26.50	NO
Rear Yard Setback	25	n/a	n/a	NO
Number of Off-Street Parking Spaces	2	2 (Garage)	3 (Garage)	NO

NOTE: EXISTING ZONING REGULAITON VALUES OBTAINED FROM SURVEY PREPARED BY WALTER H. SLIDD - LAND SURVEYOR LLC DATED: NOV. 17, 2022



1 SITE PLAN
Scale: 1" = 20'-0"

BADALY

ENGINEERING DESIGN:

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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

SITE PLAN & ZONING COMPLIANCE

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

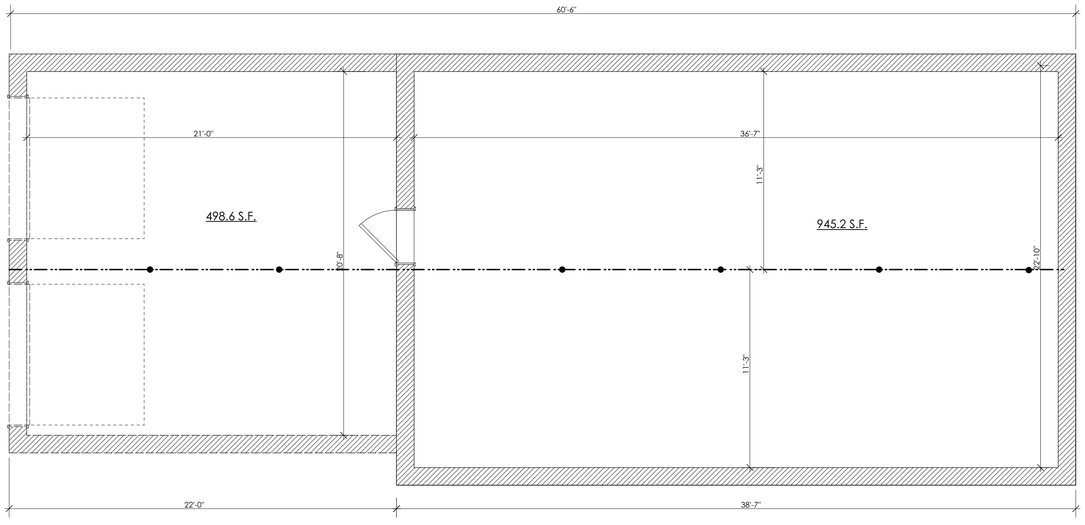
STATE OF CONNECTICUT · PETER KLEIN · No. 9998 · REGISTERED ARCHITECT

DRAWING NO.:

A-100.00

SHEET NO.:

3 OF 36



1 EXISTING BASEMENT FLOOR PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550

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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

EXISTING FLOOR PLANS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9515 · REGISTERED ARCHITECT

DRAWING NO.:

A-110.00

SHEET NO.:

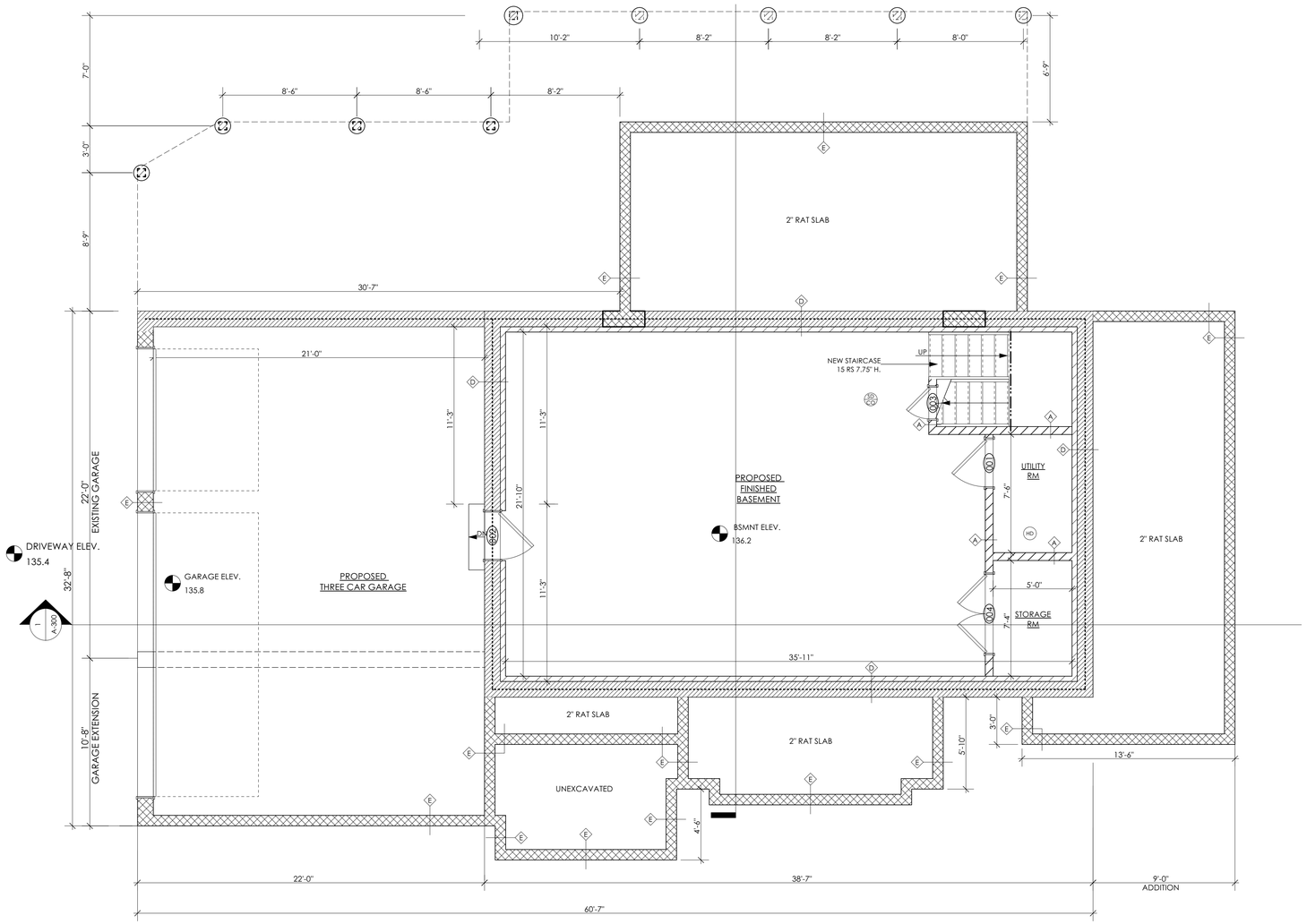
4 OF 36

FINISH SCHEDULE

LOCATION	WALLS	CEILING	FLOOR	COUNTER	BASE TRIM	DOOR & WINDOW TRIM	NOTES
KITCHEN	PAINTED G.W.B.	PAINTED G.W.B.	CERAMIC TILE	QUARTZ	9/16"x3-1/4" PINE	9/16"x3-1/4" COLONIAL CASING PINE	PROVIDE MOLD & MILDEW RESISTANT G.W.B. BEHIND SINK BASE CABINET.
	CERAMIC TILE ON CEMENT BACKERBOARD AT BACKSPLASH						
BATHROOM	CERAMIC TILE ON CEMENT BACKERBOARD AT HALF WAY HEIGHT & PAINTED G.W.B. TO BE INSTALLED UP TO CEILING HEIGHT.	PAINTED G.W.B.	CERAMIC TILE	CERAMIC W/ BASIN	CERAMIC TILE	9/16"x3-1/4" COLONIAL CASING PINE	PROVIDE MOLD & MILDEW RESISTANT G.W.B. THROUGHOUT.
	CERAMIC TILE ON CEMENT BACKERBOARD AT TUB/SHOWER ENCLOSURES TO BE INSTALLED UP TO CEILING HEIGHT.						
ALL OTHER ROOMS	PAINTED G.W.B.	PAINTED G.W.B.	3/4"x5" WHITE OAK	N/A	9/16"x5-1/4" PINE	9/16"x3-1/4" COLONIAL CASING PINE	-

LEGEND

- SD — SMOKE DETECTOR, HARD WIRED W/ BATTERY BACK UP
- SD/CO — COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR, HARD WIRED W/ BATTERY BACK UP
- HD — HEAT DETECTOR, INTERCONNECTED TO SMOKE DETECTOR, HARD WIRED W/ BATTERY BACK UP
- 100 CFM VENTILATION FAN, WIRE TO VANITY LIGHT SWITCH AT BATHROOM, VENT DIRECTLY TO EXTERIOR. CORROSION-RESISTANT SCREEN AT TERMINATION.
- EXISTING PARTITION TYPE TO REMAIN
- PROPOSED EXTERIOR PARTITION
- PROPOSED INTERIOR PARTITION



1 BASEMENT FLOOR PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

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RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

BASEMENT FLOOR PLAN

SCALE: AS NOTED	SEAL AND SIGNATURE: STATE OF CONNECTICUT · PETER KLEIN · No. 9566 · REGISTERED ARCHITECT
DATE: 02/13/23	
JOB NO.: 22335	
DRAWN BY: AK	
CHECKED BY: SB	

DRAWING NO.:

A-111.00

SHEET NO.: 5 OF 36

FINISH SCHEDULE

LOCATION	WALLS	CEILING	FLOOR	COUNTER	BASE TRIM	DOOR & WINDOW TRIM	NOTES
KITCHEN	PAINTED G.W.B. CERAMIC TILE ON CEMENT BACKERBOARD AT BACKSPLASH	PAINTED G.W.B.	CERAMIC TILE	QUARTZ	9/16"x5-1/4" PINE	9/16"x3-1/4" COLONIAL CASING PINE	PROVIDE MOLD & MILDEW RESISTANT G.W.B. BEHIND SINK BASE CABINET.
BATHROOM	CERAMIC TILE ON CEMENT BACKERBOARD AT HALF WAY HEIGHT & PAINTED G.W.B. TO BE INSTALLED UP TO CEILING HEIGHT. CERAMIC TILE ON CEMENT BACKERBOARD AT TUB/SHOWER ENCLOSURES TO BE INSTALLED UP TO CEILING HEIGHT.	PAINTED G.W.B.	CERAMIC TILE	CERAMIC W/ BASIN	CERAMIC TILE	9/16"x3-1/4" COLONIAL CASING PINE	PROVIDE MOLD & MILDEW RESISTANT G.W.B. THROUGHOUT.
ALL OTHER ROOMS	PAINTED G.W.B.	PAINTED G.W.B.	3/4"x5" WHITE OAK	N/A	9/16"x5-1/4" PINE	9/16"x3-1/4" COLONIAL CASING PINE	-

LEGEND

- (SD) SMOKE DETECTOR, HARD WIRED W/ BATTERY BACK UP
- (SD/CO) COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR, HARD WIRED W/ BATTERY BACK UP
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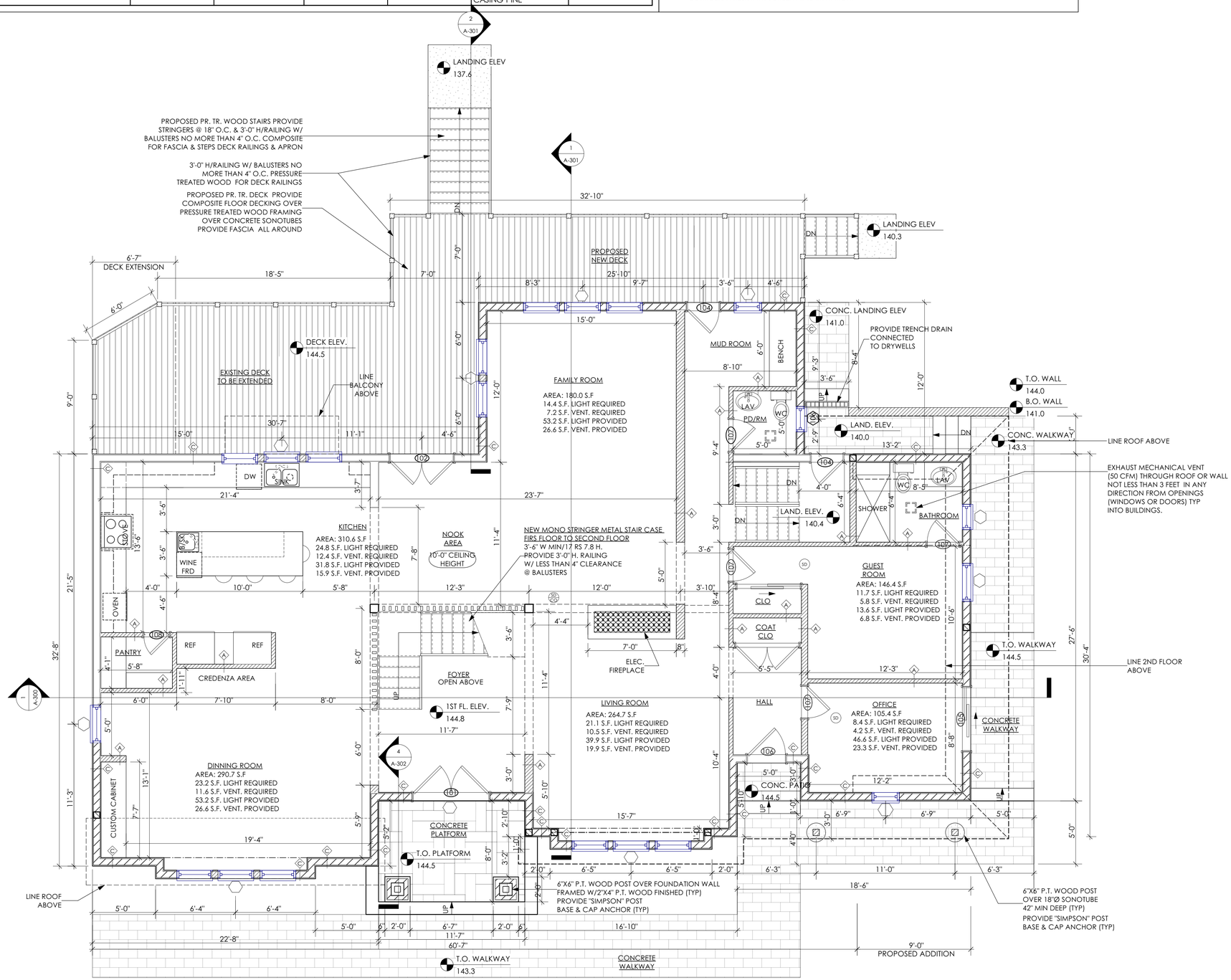
- EXISTING PARTITION TYPE TO REMAIN
- PROPOSED EXTERIOR PARTITION
- PROPOSED INTERIOR PARTITION



1 FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

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2 WILSON PLACE, MT. VERNON, NY 10550
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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

FIRST FLOOR PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9566 · REGISTERED ARCHITECT

DRAWING NO.:

A-112.00

SHEET NO.:

6 OF 36

FINISH SCHEDULE

LOCATION	WALLS	CEILING	FLOOR	COUNTER	BASE TRIM	DOOR & WINDOW TRIM	NOTES
KITCHEN	PAINTED G.W.B. CERAMIC TILE ON CEMENT BACKERBOARD AT BACKSPLASH	PAINTED G.W.B.	CERAMIC TILE	QUARTZ	9/16"x5-1/4" PINE	9/16"x3-1/4" COLONIAL CASING PINE	PROVIDE MOLD & MILDEW RESISTANT G.W.B. BEHIND SINK BASE CABINET.
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ALL OTHER ROOMS	PAINTED G.W.B.	PAINTED G.W.B.	3/4"x5" WHITE OAK	N/A	9/16"x5-1/4" PINE	9/16"x3-1/4" COLONIAL CASING PINE	-

LEGEND

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- EXISTING PARTITION TYPE TO REMAIN
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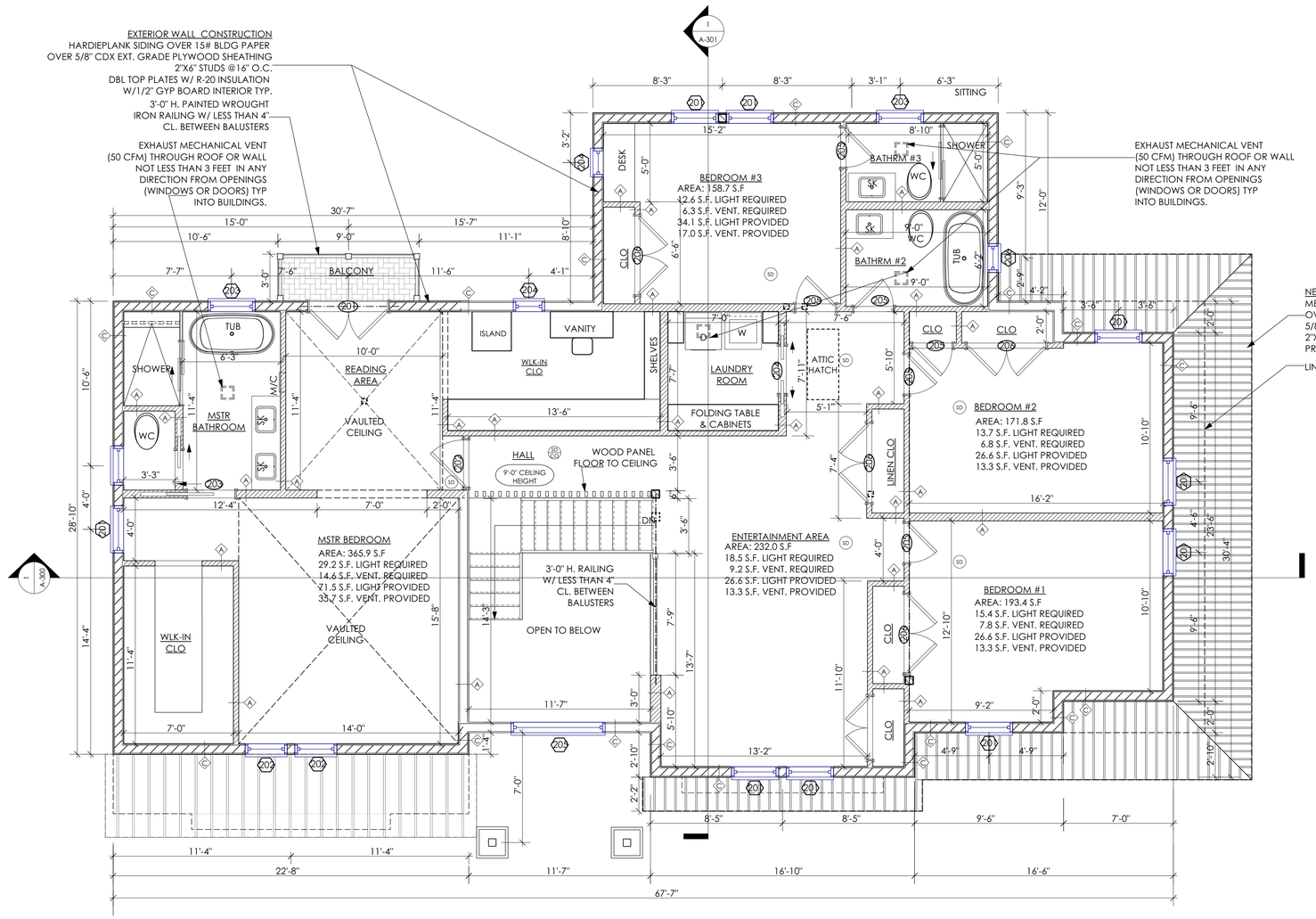

1 SECOND FLOOR PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

CONSULTANT

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PDLPARCHITECTURE@HOTMAIL.COM

PETER KLEIN , ASSOCIATES, INC
ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

SECOND FLOOR PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9598 · REGISTERED ARCHITECT

DRAWING NO.:

A-113.00

SHEET NO.: 7 OF 36

FINISH SCHEDULE

LOCATION	WALLS	CEILING	FLOOR	COUNTER	BASE TRIM	DOOR & WINDOW TRIM	NOTES
KITCHEN	PAINTED G.W.B. CERAMIC TILE ON CEMENT BACKERBOARD AT BACKSPLASH	PAINTED G.W.B.	CERAMIC TILE	QUARTZ	9/16"x3-1/4" PINE	9/16"x3-1/4" COLONIAL CASING PINE	PROVIDE MOLD & MILDEW RESISTANT G.W.B. BEHIND SINK BASE CABINET.
BATHROOM	CERAMIC TILE ON CEMENT BACKERBOARD AT HALF WAY HEIGHT & PAINTED G.W.B. TO BE INSTALLED UP TO CEILING HEIGHT. CERAMIC TILE ON CEMENT BACKERBOARD AT TUB/SHOWER ENCLOSURES TO BE INSTALLED UP TO CEILING HEIGHT.	PAINTED G.W.B.	CERAMIC TILE	CERAMIC W/ BASIN	CERAMIC TILE	9/16"x3-1/4" COLONIAL CASING PINE	PROVIDE MOLD & MILDEW RESISTANT G.W.B. THROUGHOUT.
ALL OTHER ROOMS	PAINTED G.W.B.	PAINTED G.W.B.	3/4"x5" WHITE OAK	N/A	9/16"x3-1/4" PINE	9/16"x3-1/4" COLONIAL CASING PINE	-

LEGEND

- (SD) SMOKE DETECTOR, HARD WIRED W/ BATTERY BACK UP
- (SD/CO) COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR, HARD WIRED W/ BATTERY BACK UP
- (HD) HEAT DETECTOR. INTERCONNECTED TO SMOKE DETECTOR, HARD WIRED W/ BATTERY BACK UP
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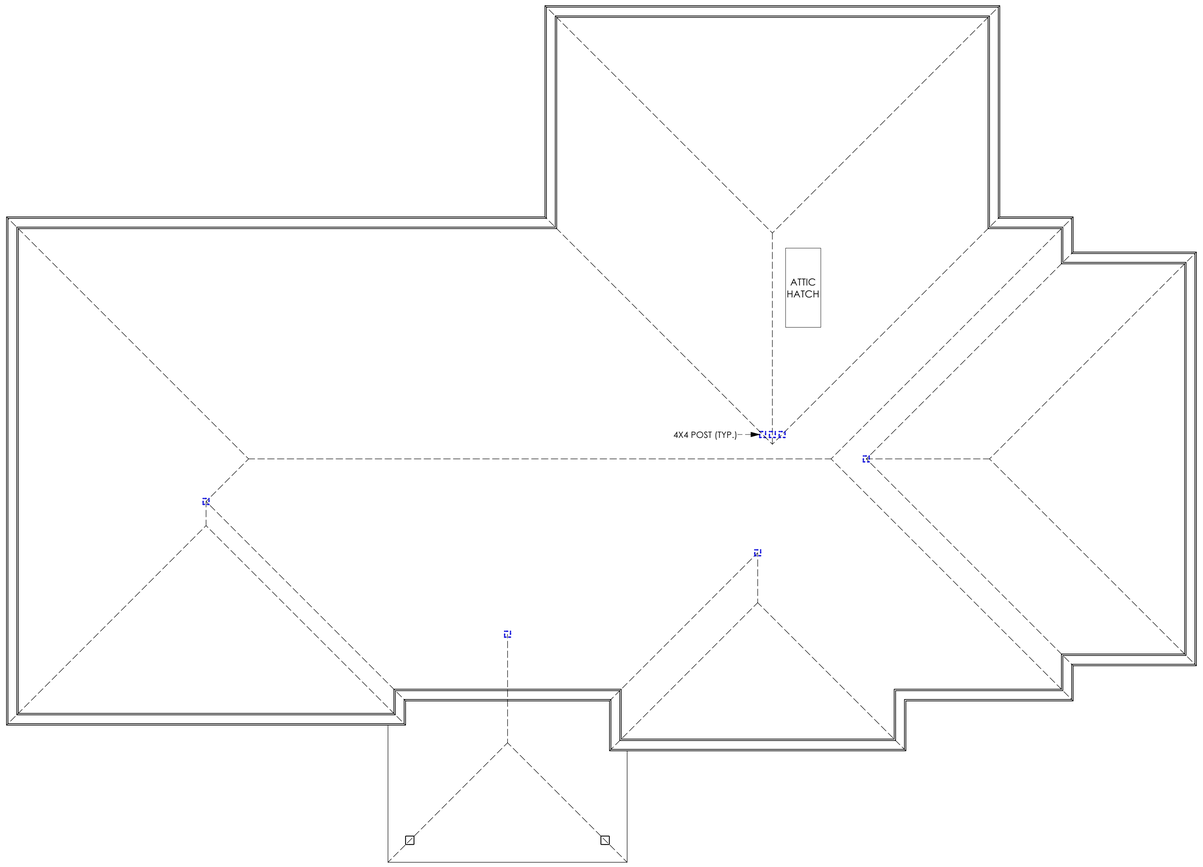

1 ATTIC PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

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2 WILSON PLACE, MT. VERNON, NY 10550
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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

ATTIC PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9[illegible] · REGISTERED ARCHITECT

DRAWING NO.:

A-114.00

SHEET NO.: 8 OF 36

1 FRONT BUILDING ELEVATION
Scale: 1/4" = 1'-0"

ELEVATION LEGEND:

1. ASPHALT ROOF SHINGLES
2. WOOD FASCIA BOARD
3. 5" O.G. GUTTER
4. HARDIE-PLANK SIDING
5. HARDIE-PLANK SIDING TRIM
6. STANDING SEAM METAL ROOFING
7. VINYL WINDOWS
8. ENTRY DOOR
9. WOOD POST
10. CEMENTITIOUS STUCCO
11. WOOD DECK W/ TREX DECKING PANELS
12. TREX RAILING
13. CONC. SLAB ON GRADE
14. CONC. SONOTUBE

2 REAR ELEVATION
Scale: 1/4" = 1'-0"

ELEVATION LEGEND:

1. ASPHALT ROOF SHINGLES
2. WOOD FASCIA BOARD
3. 5" O.G. GUTTER
4. HARDIE-PLANK SIDING
5. HARDIE-PLANK SIDING TRIM
6. STANDING SEAM METAL ROOFING
7. VINYL WINDOWS
8. ENTRY DOOR
9. WOOD POST
10. CEMENTITIOUS STUCCO
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RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

FRONT & REAR BUILDING ELEVATION

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

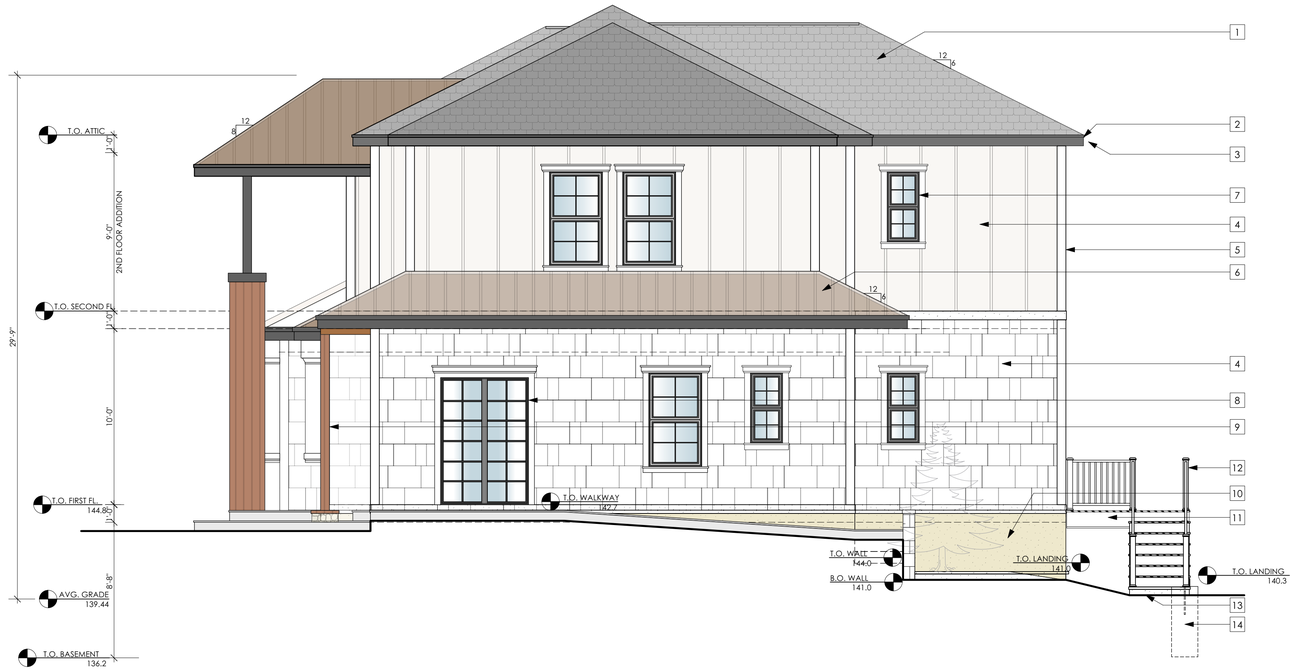
STATE OF CONNECTICUT
PETER KLEIN
No. 9986
REGISTERED ARCHITECT

DRAWING NO.:

A-200.00

SHEET NO.:

9 OF 36



2 SIDE BUILDING ELEVATION
Scale: 1/4" = 1'-0"

ELEVATION LEGEND:

1. ASPHALT ROOF SHINGLES
2. WOOD FASCIA BOARD
3. 5" O.G. GUTTER
4. HARDIE-PLANK SIDING
5. HARDIE-PLANK SIDING TRIM
6. STANDING SEAM METAL ROOFING
7. VINYL WINDOWS
8. ENTRY DOOR
9. WOOD POST
10. CEMENTITIOUS STUCCO
11. WOOD DECK W/ TREX DECKING PANELS
12. TREX RAILING
13. CONC. SLAB ON GRADE
14. CONC. SONOTUBE

1 SIDE BUILDING ELEVATION
Scale: 1/4" = 1'-0"

ELEVATION LEGEND:

1. ASPHALT ROOF SHINGLES
2. WOOD FASCIA BOARD
3. 5" O.G. GUTTER
4. HARDIE-PLANK SIDING
5. HARDIE-PLANK SIDING TRIM
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BADALY

ENGINEERING DESIGN:

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44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

SIDE BUILDING ELEVATIONS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

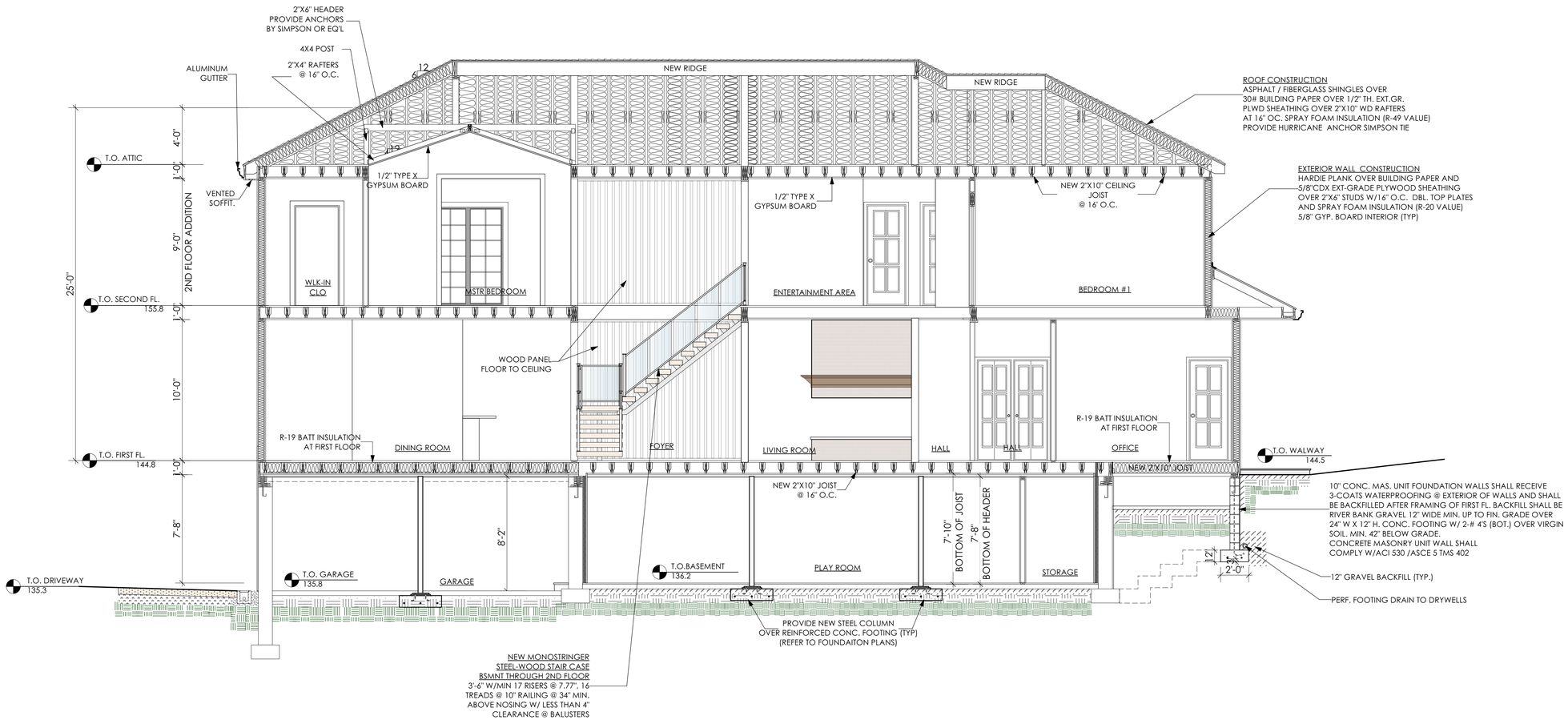
SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9596 · REGISTERED ARCHITECT

DRAWING NO.:

A-201.00

SHEET NO.: 10 OF 36



1 CROSS-SECTION
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

CONSULTANT

DE LA PUENTE ARC-CONSULTANT, LLC
PATRICIA DE LA PUENTE
PRINCIPAL
CEL. 914-6181847
PDLPARCHITECTURE@HOTMAIL.COM

PETER KLEIN , ASSOCIATES, INC
ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

CROSS-SECTION

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

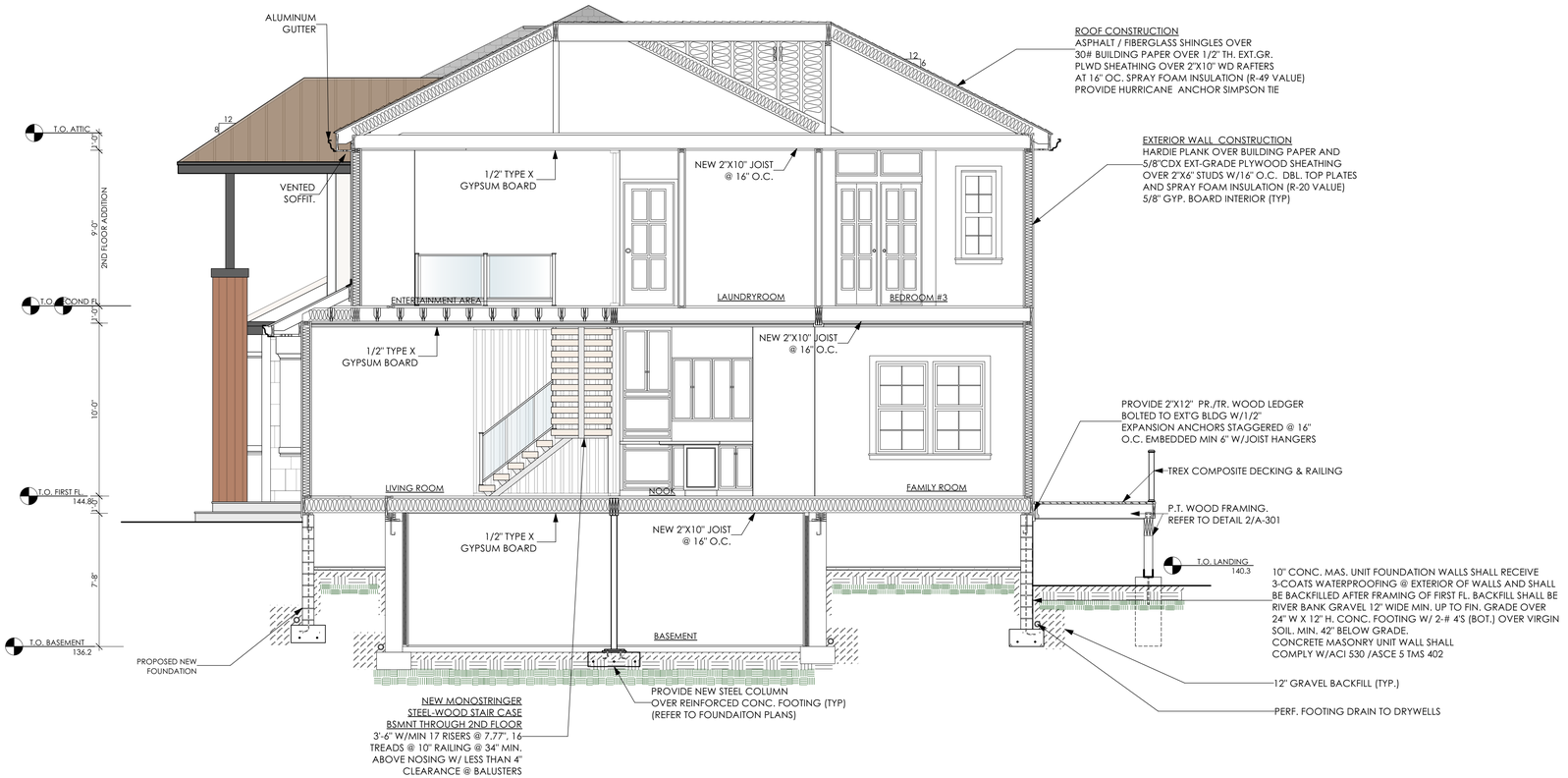
SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9981 · REGISTERED ARCHITECT

DRAWING NO.:

A-300.00

SHEET NO.: 11 OF 36



1 BUILDING CROSS-SECTION
Scale: 1/4" = 1'-0"

BADALY

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RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

CROSS-SECTION

SCALE:	AS NOTED
DATE:	02/13/23
JOB NO.:	22335
DRAWN BY:	AK
CHECKED BY:	SB

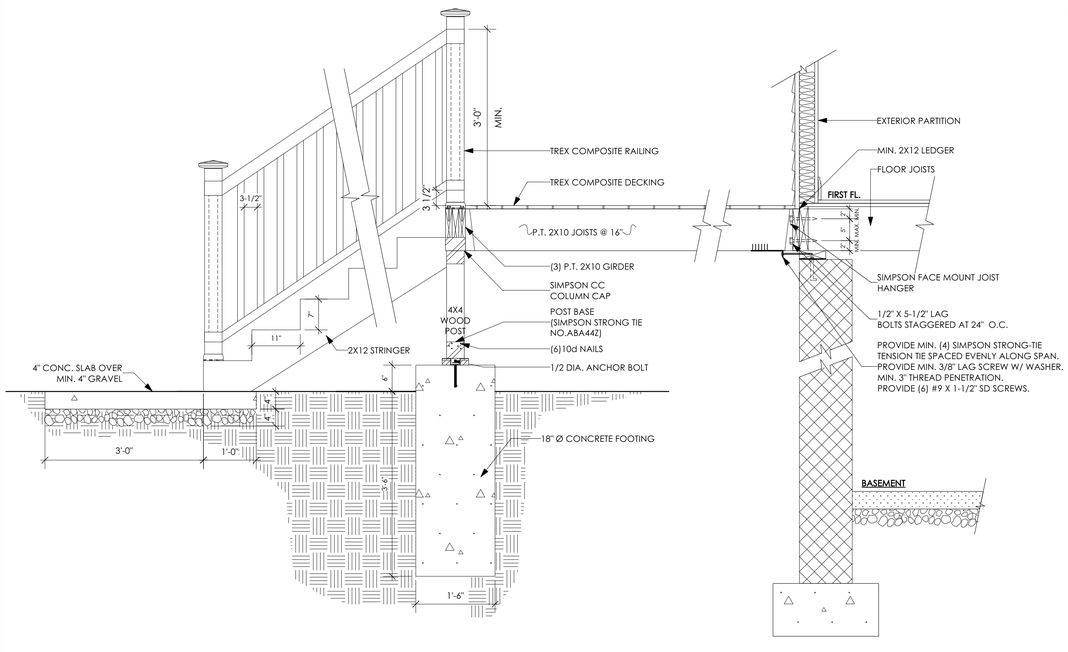
SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9566 · REGISTERED ARCHITECT

DRAWING NO.:

A-301.00

SHEET NO.: 12 OF 36



1 DECK CROSS-SECTION
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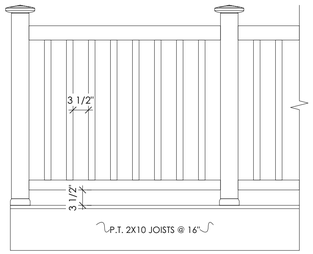
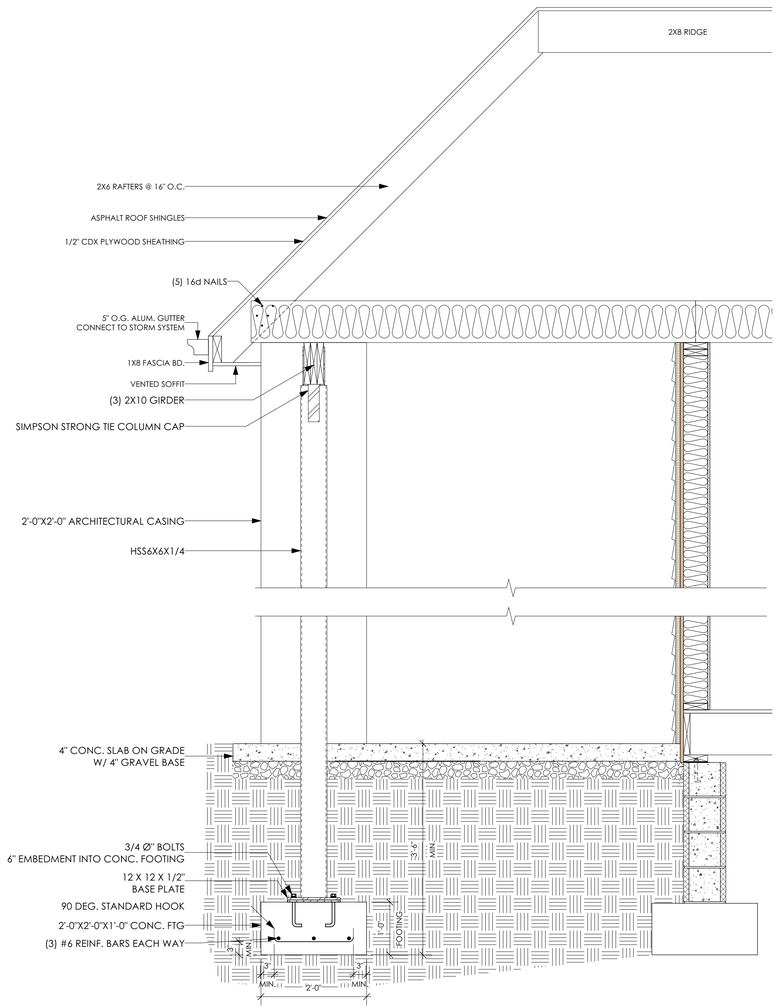


RAILING ELEVATION



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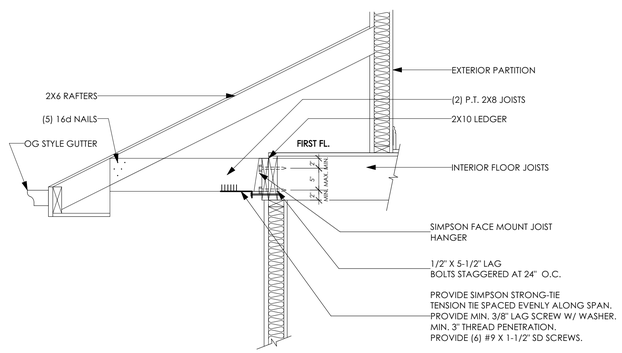

2 ROOF OVERHANG DETAIL
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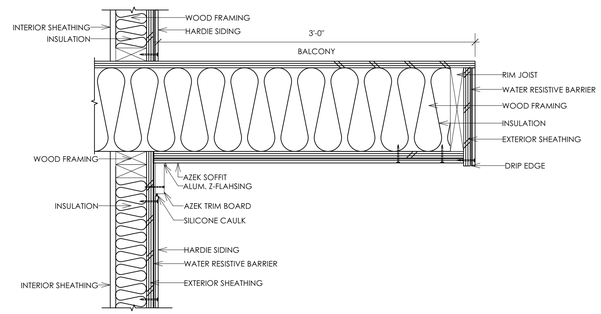

3 BALCONY DETAIL
Scale: 1 1/2" = 1'-0"

BADALY

ENGINEERING DESIGN:

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2 WILSON PLACE, MT. VERNON, NY 10550
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CONSTRUCTION MANAGEMENT
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RYE BROOK, NEW YORK 10573

ISSUES:

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REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

CROSS-SECTION DETAILS

SCALE: AS NOTED	SEAL AND SIGNATURE:
DATE: 02/13/23	
JOB NO.: 22335	
DRAWN BY: AK	
CHECKED BY: SB	

STATE OF CONNECTICUT · PETER KLEIN · No. 9566 · REGISTERED ARCHITECT

DRAWING NO.:

A-302.00

SHEET NO.:

13 OF 36

1ST FLOOR WINDOW SCHEDULE (ANDERSEN 400 SERIES OR EQ'L)

SYMBOL WDW #	REF	R/O	REMARKS	UNITS	LOCATION	HEADER
101	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE HUNG	3	LIVING ROOM	2-2"X6"
	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE HUNG	4	DINING ROOM	2-2"X6"
	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE HUNG	2	FAMILY ROOM	2-2"X6"
	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE HUNG EM/EG	1	GUEST ROOM	2-2"X6"
	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE HUNG	5	FAMILY RM/DECK	2-2"X6"
102	TW-21042	3'-0 1/8"X 4'-4 7/8"	DOUBLE HUNG	3	KITCHEN	2-2"X6"
103	P6030	6'-0 3/8"X 3'-0 1/2"	PICTURE TRANSOM	1	MAIN ENTRANCE	2-2"X10"
104	P6050	6'-0 3/8"X 5'-0 3/8"	PICTURE TRANSOM	1	MAIN ENTRANCE	2-2"X10"
105	TW2052	2'-2 1/8"X 5'-4 7/8"	DOUBLE HUNG	1	MUD ROOM	2-2"X4"
	TW2052	2'-2 1/8"X 5'-4 7/8"	DOUBLE HUNG	1	OFFICE	2-2"X4"
106	TW18310	1'-10 1/8"X 4'-0 7/8"	DOUBLE HUNG	1	POWDER ROOM	2-2"X4"

1ST FLOOR DOOR SCHEDULE

SYMBOL DOOR #	TYPE	SIZE	DOOR MTL	FRAME MTL	REMARKS		UNITS	LOCATION
101	EXTERIOR	6'-0"X7'-0"	WD	WD	DBL BI-PART		1	MAIN ENTRANCE
102	EXTERIOR	5'-0"X7'-0"	GL	WD	FRENCH DBL BI-PART		1	NOOK AREA/DECK
104	EXTERIOR	2'-6"X7'-0"	WD	WD	SWING SINGLE	RG	1	MUD ROOM
	EXTERIOR	2'-6"X7'-0"	WD	WD	SWING SINGLE	LF	1	BSMNT STAIRS
105	EXTERIOR	5'-0"X7'-0"	GL	WD	SLIDING	RG	1	OFFICE/PATIO
106	EXTERIOR	3'-0"X7'-0"	WD	WD	SWING SINGLE	LF	1	ENTRANCE
107	INTERIOR	2'-6"X7'-0"	WD	WD	SWING SINGLE	LF	1	OFFICE
	INTERIOR	2'-6"X7'-0"	WD	WD	SWING SINGLE	LF	1	GUEST ROOM
	INTERIOR	2'-6"X7'-0"	WD	WD	SWING SINGLE	RG	1	BATHROOM/GUEST RM
	INTERIOR	2'-6"X7'-0"	WD	WD	SWING SINGLE	RG	1	BATHROOM/GUEST RM
	INTERIOR	2'-6"X7'-0"	WD	WD	SWING SINGLE	RG	1	POWDER ROOM
	INTERIOR	2'-6"X7'-0"	WD	WD	SWING SINGLE	LF	1	MUD ROOM
108	INTERIOR	2'-0"X7'-0"	WD	WD	SWING SINGLE	LF	1	PANTRY

BASEMENT DOOR SCHEDULE

SYMBOL DOOR #	TYPE	SIZE	DOOR MTL	FRAME MTL	REMARKS	UNITS	LOCATION
001	INTERIOR	3'-0"X7'-0"	WD	WD	SWING SINGLE; FPSC	1	UTILITY ROOM
002	INTERIOR	3'-0"X7'-0"	WD	WD	SWING SINGLE	1	GARAGE
003	INTERIOR	2'-0"X7'-0"	WD	WD	SWING SINGLE	1	CLOSET
004	INTERIOR	5'-0"X7'-0"	WD	WD	DBL BI-PART	1	CLOSET

2ND FLOOR WINDOW SCHEDULE (ANDERSEN 400 SERIES OR EQ'L)

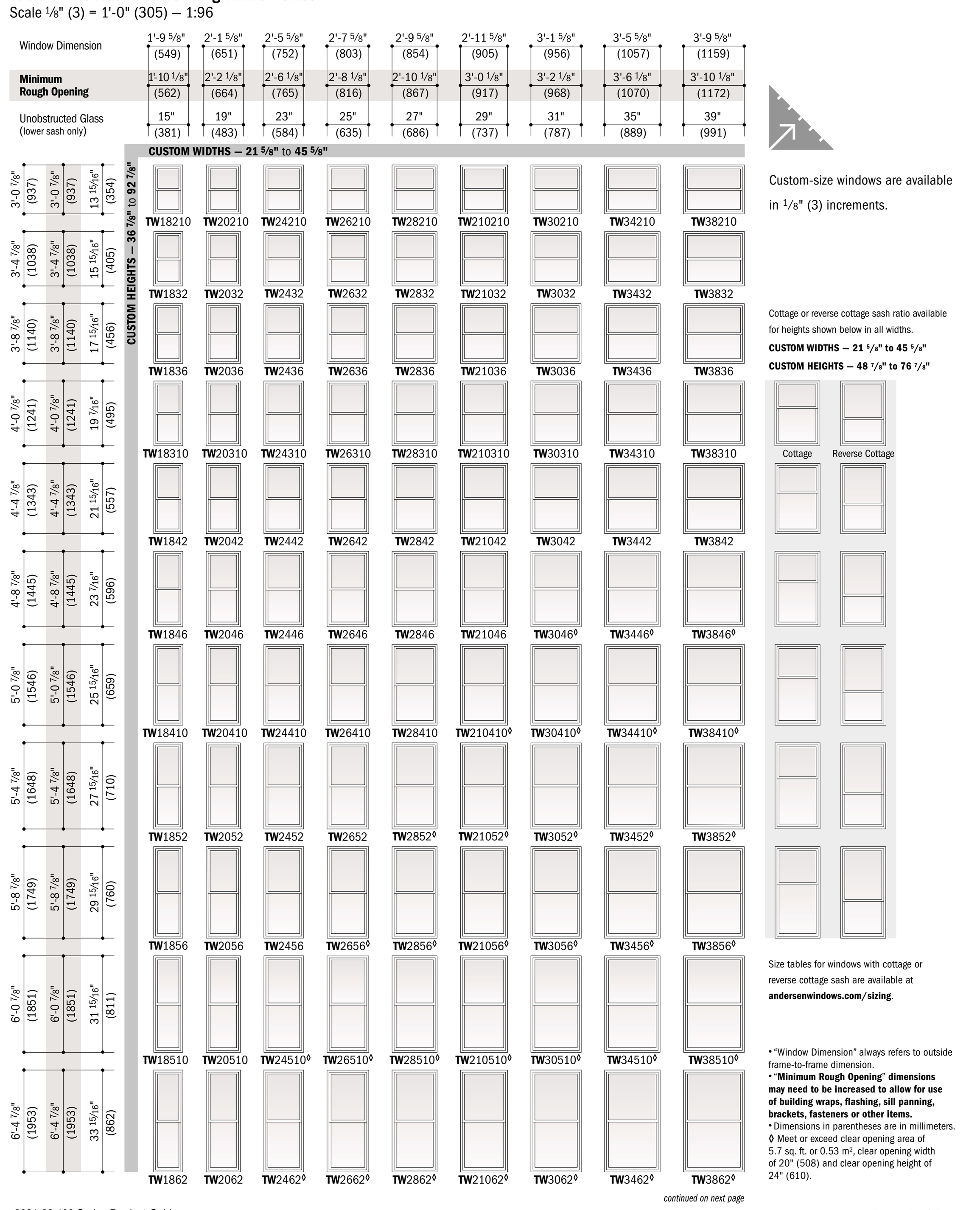
SYMBOL WDW #	REF	R/O	REMARKS	UNITS	LOCATION	HEADER
201	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE-HUNG EM/EG	1	MSTR BEDROOM	2-2"X6"
	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE-HUNG EM/EG	2	BEDROOM #3	2-2"X6"
	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE-HUNG EM/EG	2	BEDROOM #2	2-2"X6"
	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE-HUNG EM/EG	2	BEDROOM #1	2-2"X6"
	TW-21052	3'-0 1/8"X 5'-4 7/8"	DOUBLE-HUNG EM/EG	2	ENTER. AREA	2-2"X6"
202	TW-2652	2'-8 1/8"X 5'-4 7/8"	DOUBLE HUNG	2	MSTR BEDROOM	2-2"X6"
203	TW-210310	3'-0 1/8"X 4'-0 7/8"	DOUBLE HUNG	1	MSTR BATHRM	2-2"X6"
	TW-210310	3'-0 1/8"X 4'-0 7/8"	DOUBLE HUNG	1	BATHRM #3	2-2"X6"
204	TW1852	1'-10 1/8"X 5'-4 7/8"	DOUBLE HUNG	1	MSTR. WLK-IN CLO	2-2"X4"
	TW1852	1'-10 1/8"X 5'-4 7/8"	DOUBLE HUNG	1	BEDROOM #3	2-2"X4"
205	P6050	6'-0 3/8"X 5'-0 3/8"	PICTURE	1	OPEN FOYER	2-2"X10"
206	TW18310	1'-10 1/8"X 4'-0 7/8"	DOUBLE HUNG	1	BATHRM #2	2-2"X4"

2ND FLOOR DOOR SCHEDULE

SYMBOL DOOR #	TYPE	SIZE	DOOR MTL	FRAME MTL	REMARKS		UNITS	LOCATION
201	EXTERIOR	5'-0"X7'-0"	GL	WD	FRENCH DBL BI-PART		1	MSTR BEDROOM
202	INTERIOR	3'-0"X6'-8"	WD	WD	SWING SINGLE	LF	1	MSTR BEDROOM
203	INTERIOR	3'-0"X6'-8"	WD	WD	POCKET SINGLE	LF	1	MSTR BATHROOM
204	INTERIOR	3'-0"X6'-8"	WD	WD	POCKET DBL BI-PART		1	LAUNDRY
205	INTERIOR	2'-6"X6'-8"	WD	WD	SWING SINGLE	RG	1	BEDROOM #3
	INTERIOR	2'-6"X6'-8"	WD	WD	SWING SINGLE	LF	1	BATHRM #3
	INTERIOR	2'-6"X6'-8"	WD	WD	SWING SINGLE	LF	1	BEDROOM #2
	INTERIOR	2'-6"X6'-8"	WD	WD	SWING SINGLE	RG	1	CLO BEDRM #2
	INTERIOR	2'-6"X6'-8"	WD	WD	SWING SINGLE	LF	1	BATHRM #2
	INTERIOR	2'-6"X6'-8"	WD	WD	SWING SINGLE	LF	1	BEDROOM #1
206	INTERIOR	5'-0"X6'-8"	WD	WD	SWING DBL BI-PART		1	CLO BEDROOM #3
	INTERIOR	5'-0"X6'-8"	WD	WD	SWING DBL BI-PART		1	CLO BEDROOM #2
	INTERIOR	5'-0"X6'-8"	WD	WD	SWING DBL BI-PART		1	CLO BEDROOM #1
	INTERIOR	5'-0"X6'-8"	WD	WD	SWING DBL BI-PART		1	LINEN CLO
206	INTERIOR	4'-0"X6'-8"	WD	WD	SWING DBL BI-PART		1	ENTERT. AREA

400 SERIES TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

ANDERSEN WINDOWS & DOORS

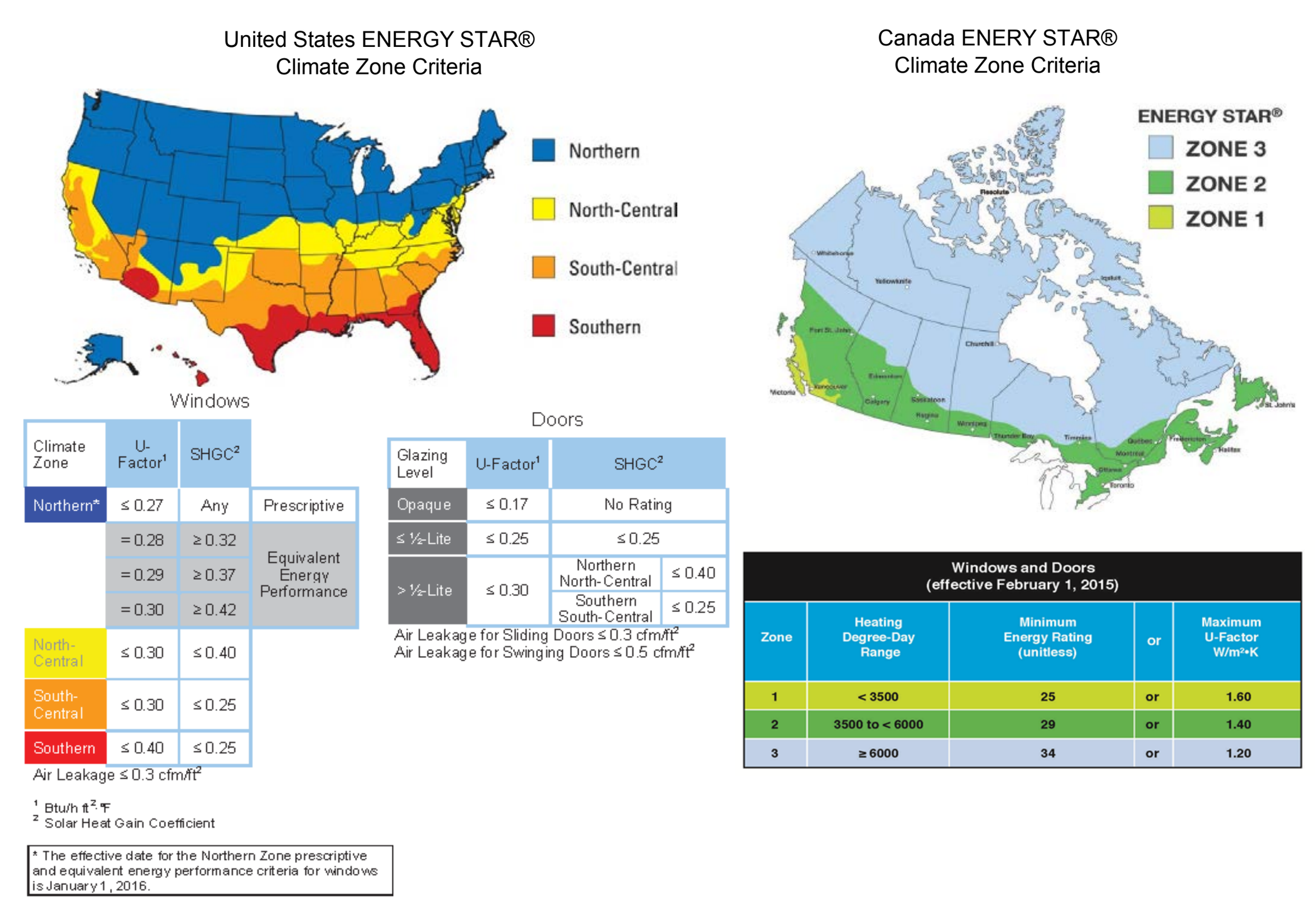


ANDERSEN® 400 SERIES WINDOW AND DOOR NFRC/ENERGY STAR® INFORMATION

This document provides NFRC certified U-Factor, Solar Heat Gain Coefficient (SHGC) and Visible Transmittance (VT) values for Andersen® products along with the corresponding ENERGY STAR® Version 6.0 (2015) climate zones in which the product and glass type are certified.

These products rated, certified and labeled y National Fenestration Rating Council® (NFRC) - a non-profit organization that provides fair, accurate and credible energy performance ratings for windows and doors.

Many of our products meet the stringent energy efficiency certification criteria set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. The certification criteria is based on the heat gain and loss of each product in various regions of the country. Check the Andersen product performance available at www.andersenwindows.com for units that are ENERGY STAR certified.



For NFRC certified total unit performance for units with capillary breather tubes, please refer to the High Altittude information section for each unit.

[1]U-Factor defines the amount of heat loss through the total unit in BTU/hr*ft 2*◦F, metric in W/m2*K. The lower the value, the less the heat is lost through the entire product.

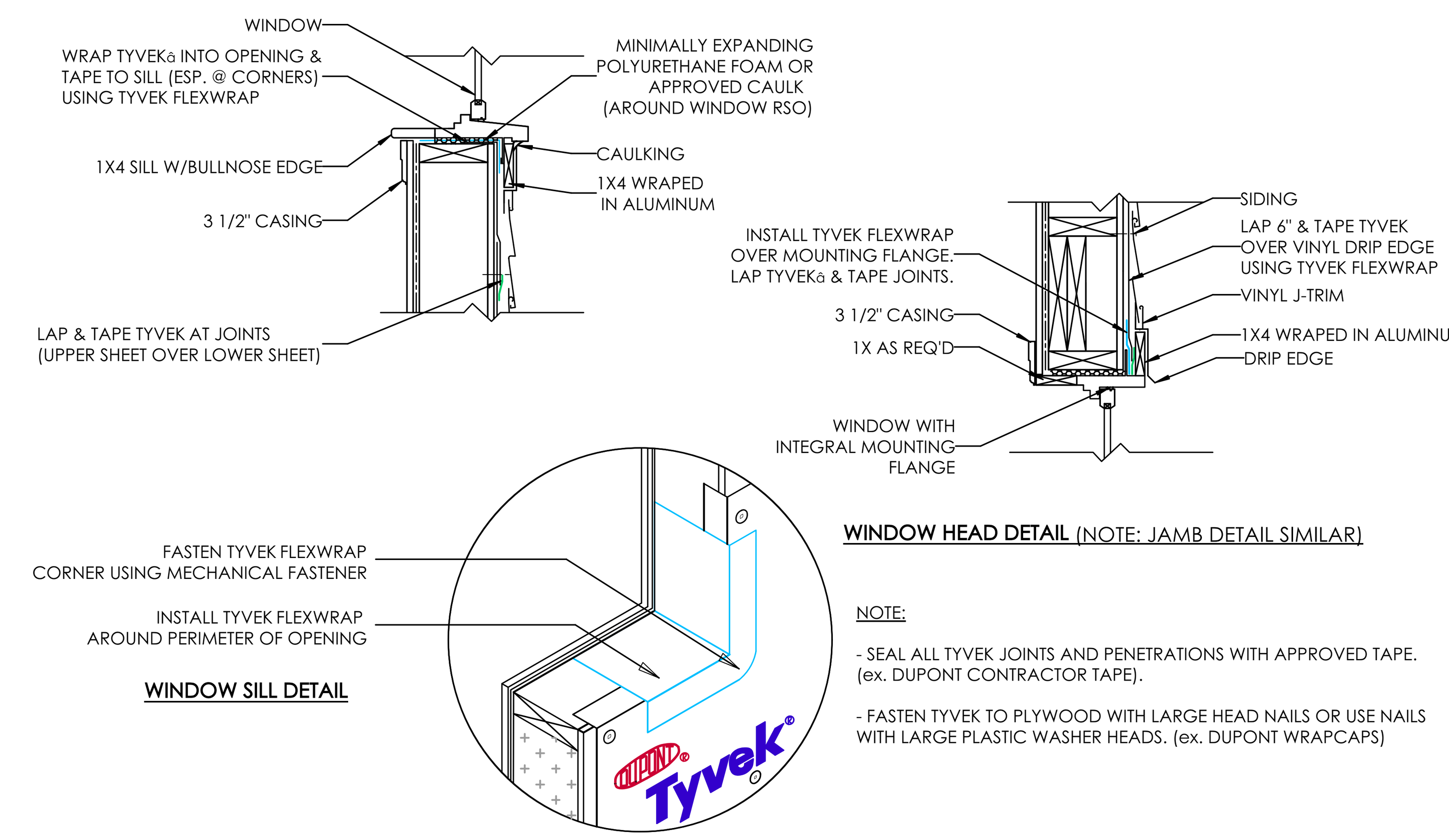
[2]Solar Heat Gain Coefficient (SHGC defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product.

[3]Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

NFRC ratings are based on modeling by a third party agency as validated by an independent test lab in compliance with NFRC rpogram and procedural requirements.

This data is accurate as of December 15, 2014. Due to ongoing product changes, updated test results or new industry standards or requirements, this data may changeover time. Due to variations in dealer and distributor inventory levels, products that were manufactured before December 15, 2014 that were designed, tested and labeled with different NFRC values may still be available. Check the labels on the product packaging to confirm NFRC values. Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on use of tempered glass, different grille options, glass for high altitude, etc.

This information is for reference only.
Performance varies by unit size and options selected.
For specific unit performance information, please contact your dealer or Andersen Sales Representative.



NOTE:

- SEAL ALL TYVEK JOINTS AND PENETRATIONS WITH APPROVED TAPE. (ex. DUPONT CONTRACTOR TAPE).

- FASTEN TYVEK TO PLYWOOD WITH LARGE HEAD NAILS OR USE NAILS WITH LARGE PLASTIC WASHER HEADS. (ex. DUPONT WRAPCAPS)

1 WINDOW DETAIL
Scale: 1" = 1'-0"

BADALY

ENGINEERING DESIGN:

BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

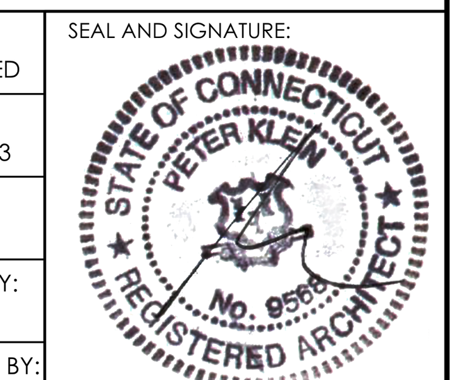
1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

DOOR & WINDOW SCHEDULE

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:



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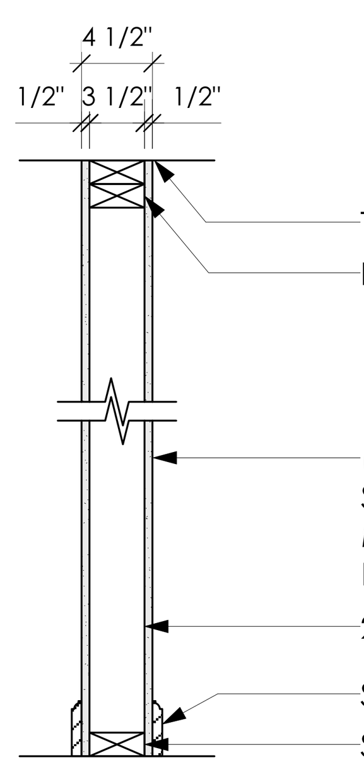
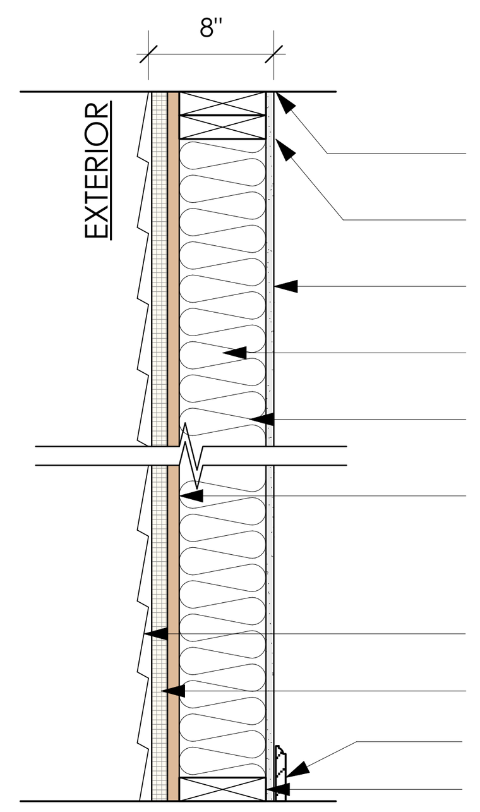
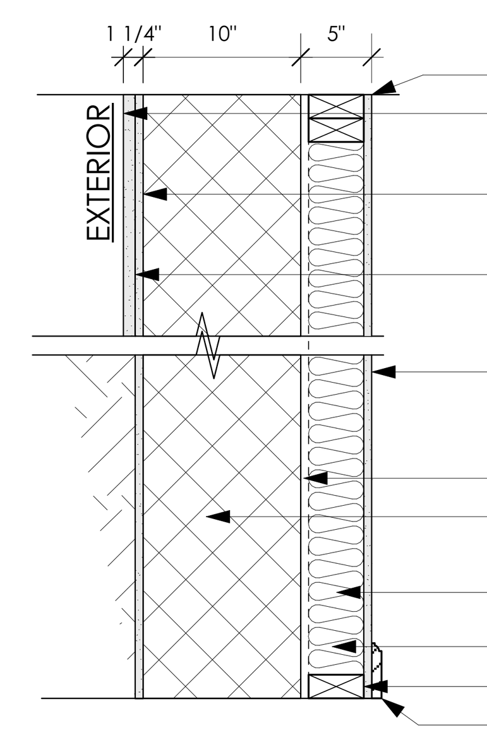


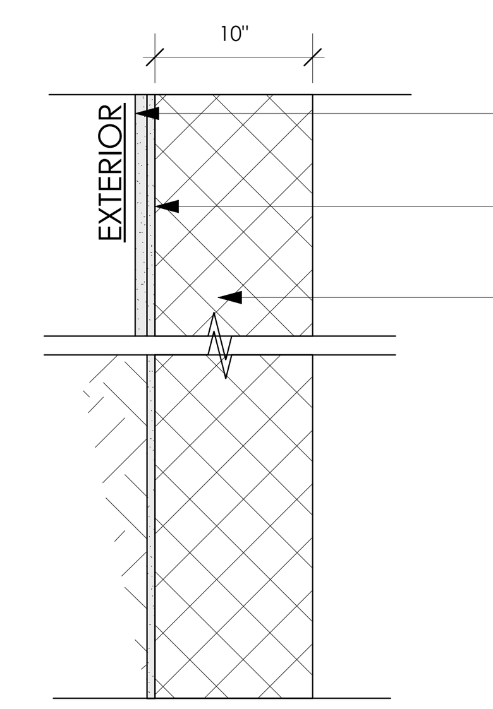
A TYP. INTERIOR PARTITION



C EXTERIOR PARTITION AT SIDING

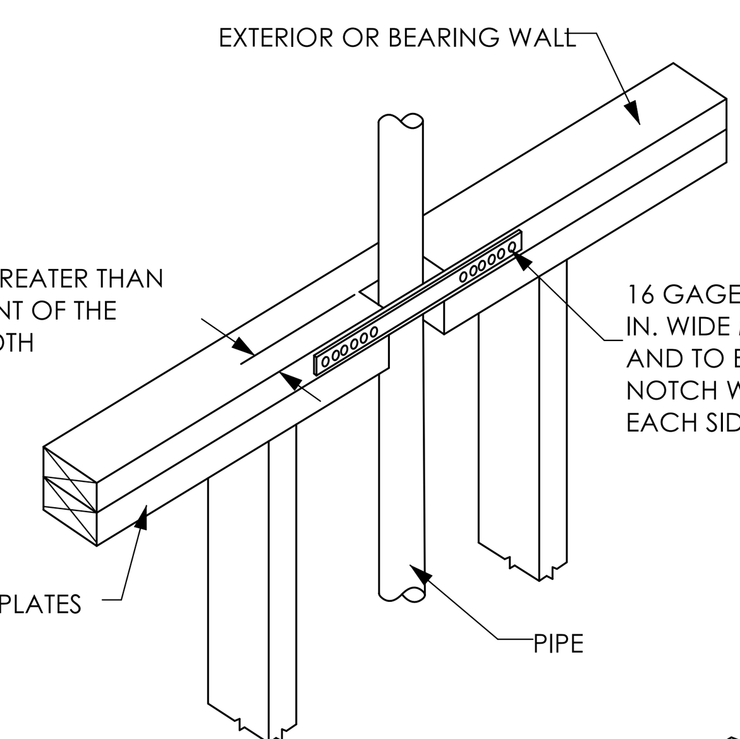


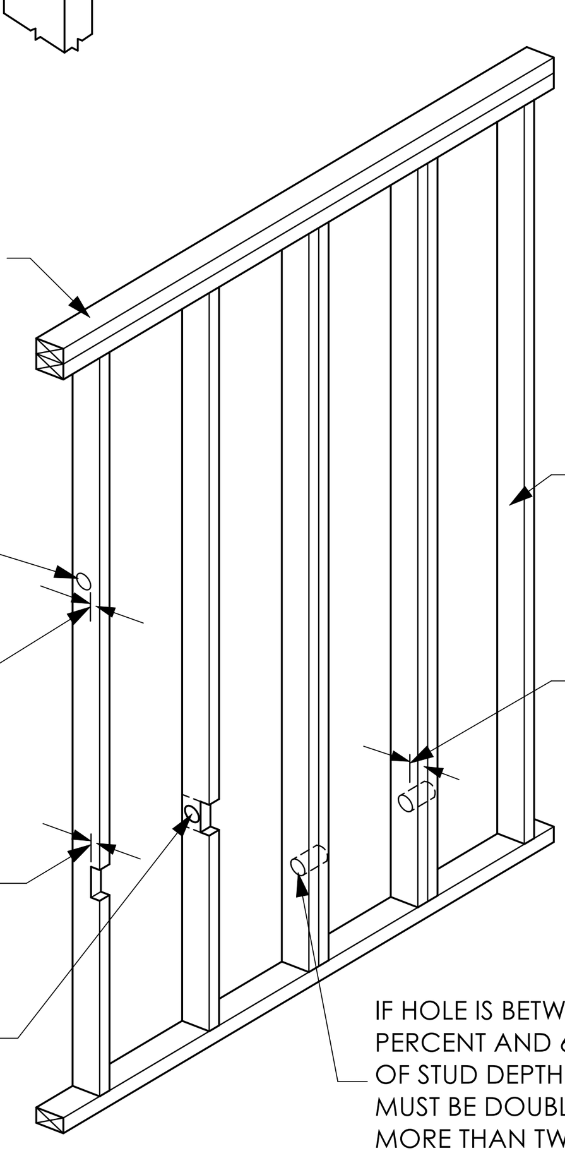
D INTERIOR PARTITION AT FOUNDATION WALL

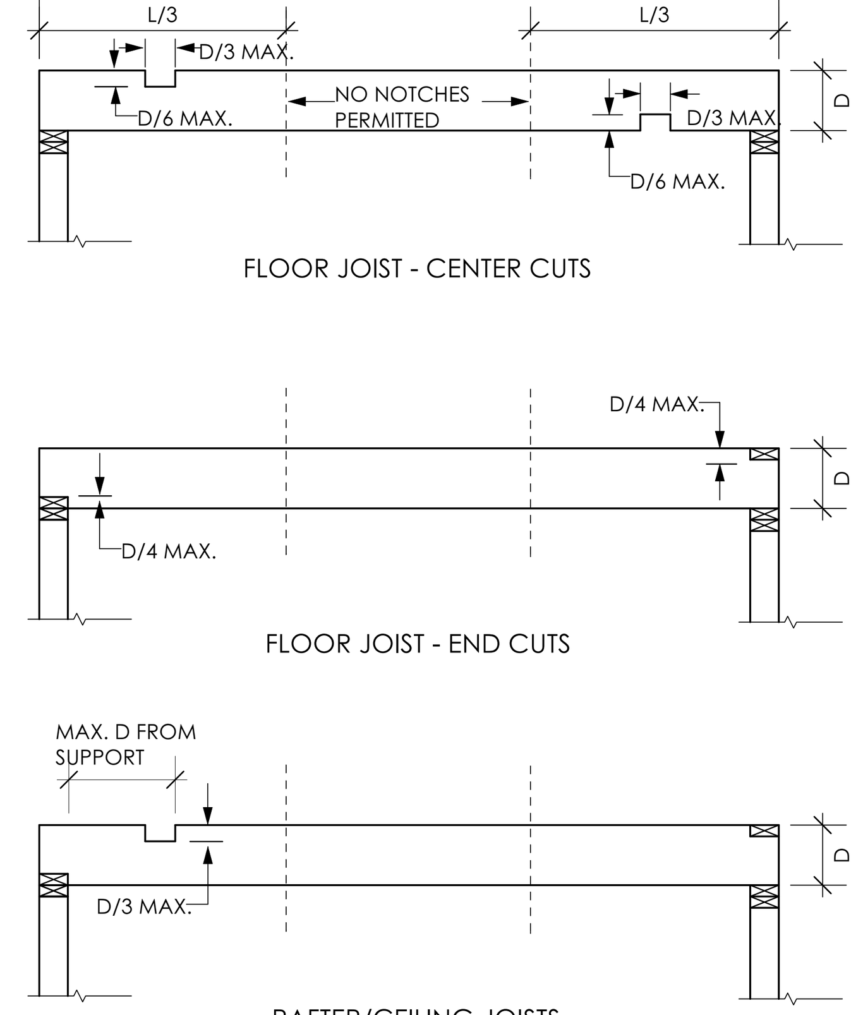


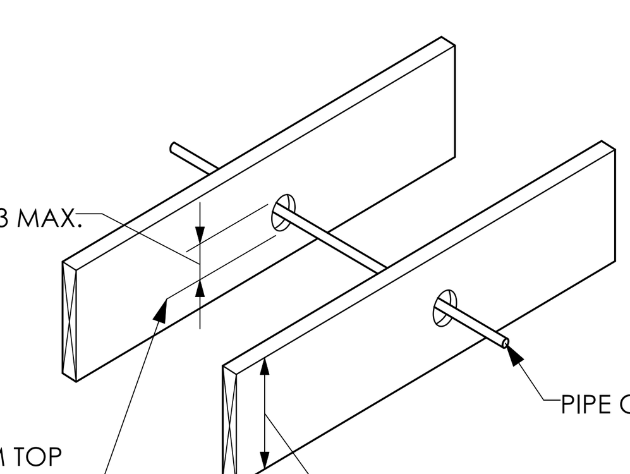
E INTERIOR PARTITION AT FOUNDATION WALL

1 PARTITION TYPE SCHEDULE
Scale: 1" = 1'-0"

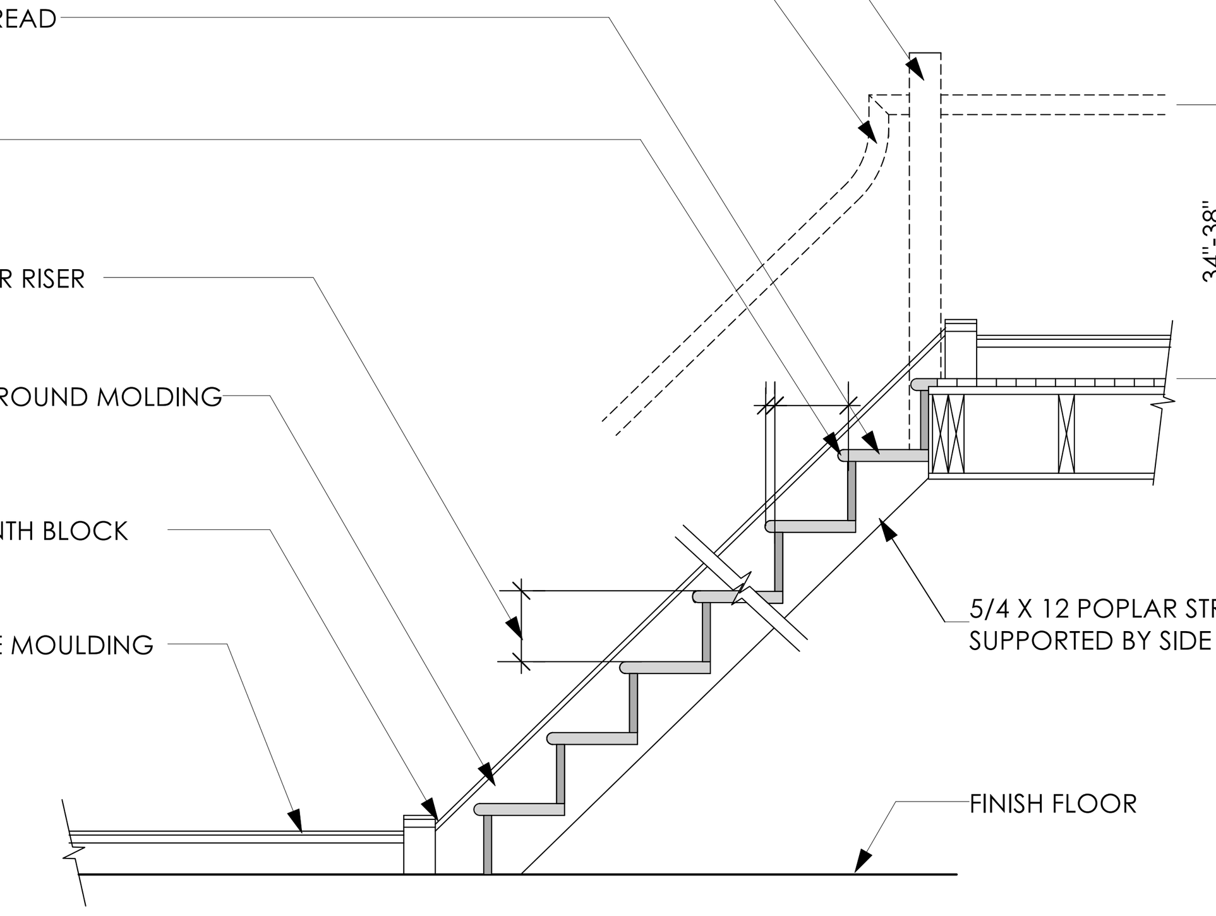






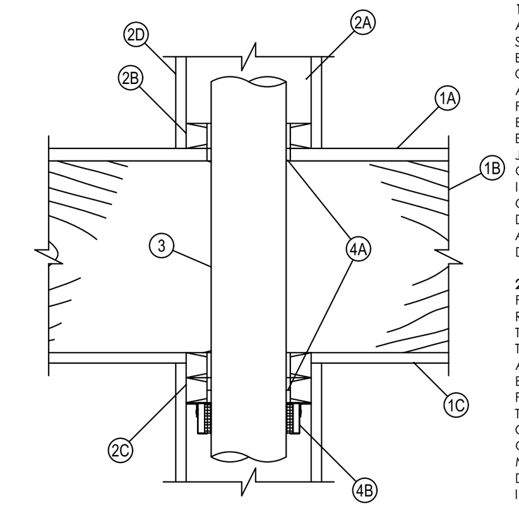


2 CUTTING & NOTCHING DETAIL
Scale: 1/2" = 1'-0"



3 STAIR & RAILING DETAILS
Scale: 1/2" = 1'-0"

System No. F-C-2030
F Ratings — 1 and 2 Hr (See tem 1)
T Ratings — 0, 3/4, 1, 1-1/2 and 2 Hr (See Item 3)



SYSTEM NO. F-C-2030

SYSTEM TESTED WITH A PRESSURE DIFFERENTIAL OF 2.5 PA BETWEEN THE EXPOSED AND THE UNEXPOSED SURFACES WITH THE HIGHER PRESSURE ON THE EXPOSED SIDE.

1. FLOOR-CEILING ASSEMBLY — THE 1 OR 2 HR FIRE-RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL L500 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE RATING OF THE FLOOR-CEILING AND WALL ASSEMBLIES. THE GENERAL CONSTRUCTION FEATURES OF THE FLOOR-CEILING ASSEMBLY ARE SUMMARIZED BELOW:
A. FLOORING SYSTEM — LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE* AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. DIAM OF OPENING SHALL BE 1 IN. (25 MM) LARGER THAN THE NOM DIAM OF THROUGH-PENETRANT (ITEM 3).
B. JOISTS — NOM 10 IN. (254 MM) DEEP (OR DEEPER) LUMBER, STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED AND WITH END FIRESTOPPED.
C. GYPSUM BOARD* — THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. DIAM OF OPENING SHALL BE 1 IN. (25 MM) LARGER THAN THE NOM DIAM OF THROUGH-PENETRANT (ITEM 3).
D. FURRING CHANNELS — (NOT SHOWN) (AS REQUIRED) - RESILIENT GALVANIZED STEEL FURRING INSTALLED IN ACCORDANCE WITH THE MANNER SPECIFIED IN THE INDIVIDUAL L500 SERIES DESIGNS IN THE FIRE RESISTANCE DIRECTORY

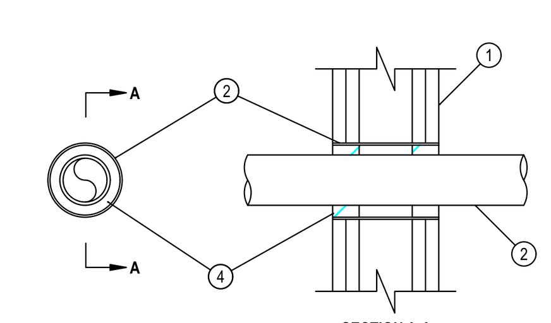
2. CHASE WALL — (OPTIONAL) - THE THROUGH PENETRANT (ITEM 3) MAY BE ROUTED THROUGH A 1 OR 2 HR FIRE-RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/GYPSUM WALLBOARD CHASE WALL HAVING A FIRE RATING CONSISTENT WITH THAT OF THE FLOOR-CEILING ASSEMBLY. THE CHASE WALL SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
A. STUDS — NOM 2 BY 6 IN. (51 BY 152 MM) OR DOUBLE NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER STUDS.
B. SOLE PLATE — NOM 2 BY 6 IN. (51 BY 152 MM) (OR LARGER) OR PARALLEL 2 BY 4 IN. (51 BY 102 MM) LUMBER PLATES, TIGHTLY BUTTED. DIAM OF OPENING SHALL BE 1 IN. (25 MM) LARGER THAN THE NOM DIAM OF THROUGH-PENETRANT (ITEM 3).
C. TOP PLATE — THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2 BY 6 IN. (51 BY 152 MM) (OR LARGER) OR PARALLEL 2 BY 4 IN. (51 BY 102 MM) LUMBER PLATES, TIGHTLY BUTTED. DIAM OF OPENING SHALL BE 1 IN. (25 MM) LARGER THAN THE NOM DIAM OF THROUGH-PENETRANT (ITEM 3).
D. GYPSUM BOARD* — THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN.

3. THROUGH-PENETRANTS — ONE NOM 1-1/2 IN. (38 MM), 2 IN. (51 MM), 3 IN. (76 MM) OR 4 IN. (102 MM) DIAM NONMETALLIC PIPE TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. DIAM OF OPENING THROUGH FLOORING SYSTEM AND THROUGH SOLE AND TOP PLATES OF CHASE WALL TO BE MAX 2-1/8 IN. (54 MM), 2-5/8 IN. (67 MM), 4 IN. (102 MM) OR 5 IN. (127 MM) FOR NOM 1-1/2 IN. (38 MM), 2 IN. (51 MM), 3 IN. (76 MM) OR 4 IN. (102 MM) DIAM NONMETALLIC PIPE SIZES, RESPECTIVELY. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR-CEILING ASSEMBLY. THE T RATING IS DEPENDENT ON THE SIZE OF THE THROUGH-PENETRANT. FOR 2 HR RATED ASSEMBLIES, THE T RATING IS 2 HR FOR 1-1/2 IN. (38 MM) DIAM (AND SMALLER) PIPES AND 1-1/2 HR FOR PIPES GREATER THAN 1-1/2 IN. (38 MM) DIAM. FOR 1 HR RATED ASSEMBLIES, THE T RATING IS 1 HR FOR 1-1/2 IN. (38 MM) DIAM (AND SMALLER) PIPES, 3/4 HR FOR 2 IN. (51 MM) DIAM PIPES AND 0 HR FOR PIPES GREATER THAN 2 IN. (51 MM) DIAM. THE FOLLOWING TYPES OF NONMETALLIC PIPES MAY BE USED:
A. POLYVINYL CHLORIDE (PVC) PIPE — SCHEDULE 40 SOLID-CORE OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.
B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE — SDR17 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
C. ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE — SCHEDULE 40 SOLID-CORE OR CELLULAR CORE ABS PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
D. FLAME RETARDANT POLYPROPYLENE(FRPP) PIPE — SCHEDULE 40 FRPP PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.

4. FIRESTOP SYSTEM — THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
A. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 3/4 IN. (19 MM) THICKNESS OF FILL MATERIAL TO BE INSTALLED WITHIN THE ANNULAR SPACE BETWEEN THE PIPE AND THE FLOORING (ITEM 1A) OR SOLE PLATE. MIN 5/8 IN. (16 MM) THICKNESS APPLIED WITHIN THE ANNULAR SPACE, FLUSH WITH THE BOTTOM SURFACE OF CEILING OR LOWER TOP PLATE.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANTOR FS-ONE MAX INTUMESCENT SEALANT.
B. FIRESTOP DEVICE* — FIRESTOP COLLAR — FIRESTOP COLLAR SHALL BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. COLLAR TO BE INSTALLED AND LATCHED AROUND THE PIPE AND SECURED TO UNDERSIDE OF CEILING OR CHASE WALL TOP PLATE (ITEM 2C) USING THE ANCHOR HOOKS PROVIDED WITH THE COLLAR. (MINIMUM 2 ANCHOR HOOKS FOR 1-1/2 (38 MM) AND 2 IN. (51 MM) DIAM PIPES AND 3 ANCHOR HOOKS FOR 3 IN. (76 MM) DIAM PIPES). THE ANCHOR HOOKS ARE TO BE SECURED TO THE CEILING WITH MIN 3/16 IN. (5 MM) DIAM STEEL TOGGLER BOLTS OR TO THE CHASE WALL TOP PLATE WITH MIN NO. 12 BY MIN 1 IN. (25 MM) LONG STEEL WOOD SCREWS IN CONJUNCTION WITH STEEL WASHERS.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP643 63/2"N, CP 643 90/3"N OR CP643 110/4"N FIRESTOP COLLAR

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

System No. W-L-2128
F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr



SYSTEM NO. W-L-2128

1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
B. GYPSUM BOARD* — 5/8 IN. (16 MM) THICK, 4 FT (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 3-1/2 IN. (89 MM).

2. METALLIC SLEEVE OPTIONAL — NOM 3-1/2 IN. (89 MM) (OR SMALLER) CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.016 IN. THICK (28 GAUGE) GALV SHEET STEEL AND HAVING A MIN 1-1/4 IN. (32 MM) LAP SALONG LONGITUDINAL SEAM. LENGTH OF SLEEVE TO BE INSTALLED FLUSH WITH WALL SURFACES.

3. THROUGH PENETRANTS — ONE NONMETALLIC PIPE INSTALLED WITHIN THE FIRESTOP SYSTEM.. PIPE MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE SPACE BETWEEN PIPE AND PERIPHERY OF OPENING SHALL BE MIN 1/4 IN. (6 MM) TO MAX 11/16 IN. (17.5 MM). THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
A. POLYVINYL CHLORIDE (PVC) PIPE — NOM 2 IN. (51 MM) DIAM (OR SMALLER) SCHEDULE 40 PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE — NOM 2 IN. (51 MM) DIAM (OR SMALLER) SDR13.5 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.

4. FILL, VOID OR CAVITY MATERIALS* — SEALANT — FOR 1 HR F RATING, MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. FOR 2 HR F RATING, MIN 1-1/4 IN. (32 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

4 FIRESTOP DETAILS
Scale: 1" = 1'-0"

BADALY

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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

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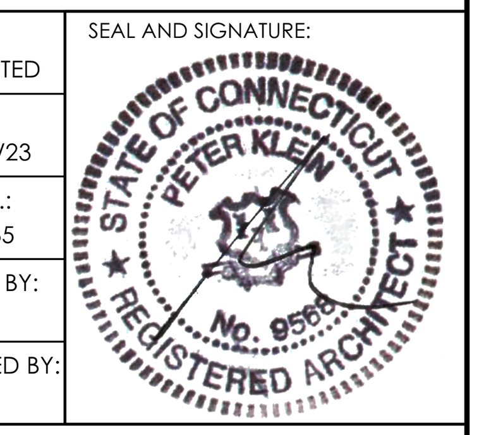
PROJECT TITLE:
NEW SINGLE FAMILY RESIDENCE:
1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:
CONSTRUCTION DETAILS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:



DRAWING NO.: A-401.00

RESIDENTIAL PLUMBING FIXTURES CLEARANCES & REQUIREMENTS

THE INSTALLATION OF FIXTURES SHALL CONFORM TO THE FOLLOWING:

1. FLOOR-OUTLET OR FLOOR-MOUNTED FIXTURES SHALL BE SECURED TO THE DRAINAGE CONNECTION AND TO THE FLOOR, WHERE SO DESIGNED, BY SCREWS, BOLTS, WASHERS, NUTS AND SIMILAR FASTENERS OF COPPER, COPPER ALLOY OR OTHER CORROSION-RESISTANT MATERIAL.

2. WALL-HUNG FIXTURES SHALL BE RIGIDLY SUPPORTED SO THAT STRAIN IS NOT TRANSMITTED TO THE PLUMBING SYSTEM.

3. WHERE FIXTURES COME IN CONTACT WITH WALLS AND FLOORS, THE CONTACT AREA SHALL BE WATER TIGHT.

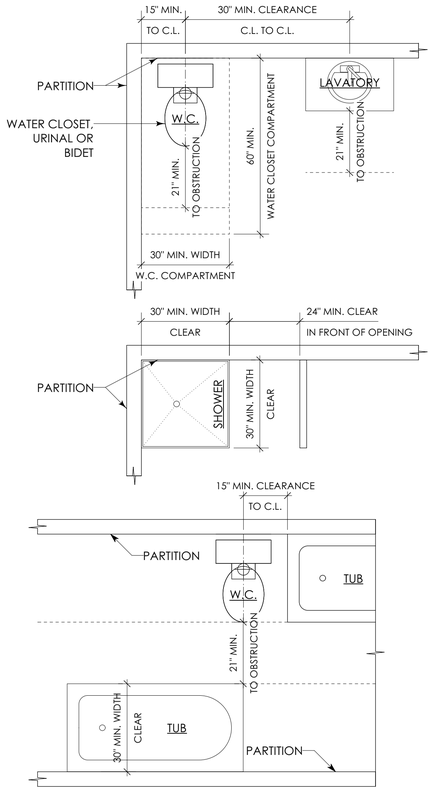
4. PLUMBING FIXTURES SHALL BE USABLE.

5. WATER CLOSETS, LAVATORIES AND BIDETS. A WATER CLOSET, LAVATORY OR BIDET SHALL NOT BE SET CLOSER THAN 15 INCHES FROM ITS CENTER TO ANY SIDE WALL, PARTITION OR VANITY OR CLOSER THAN 30 INCHES CENTER-TO-CENTER BETWEEN ADJACENT FIXTURES. THERE SHALL BE A CLEARANCE OF NOT LESS THAN 21 INCHES IN FRONT OF A WATER CLOSET, LAVATORY OR BIDET TO ANY WALL, FIXTURE OR DOOR.

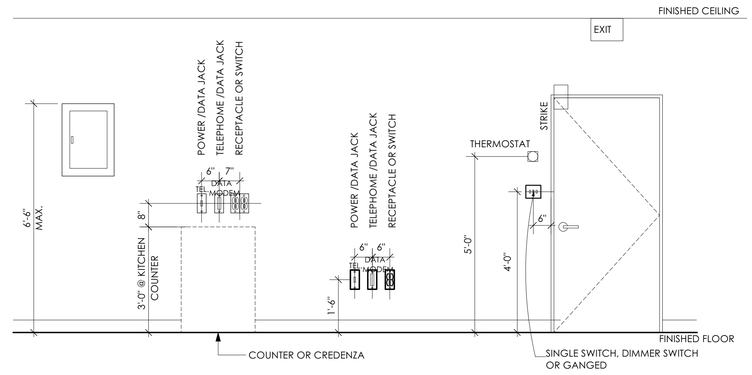
6. THE LOCATION OF PIPING, FIXTURES OR EQUIPMENT SHALL NOT INTERFERE WITH THE OPERATION OF WINDOWS OR DOORS.

7. IN FLOOD HAZARD AREAS AS ESTABLISHED BY TABLE R301.2(1), PLUMBING FIXTURES SHALL BE LOCATED OR INSTALLED IN ACCORDANCE WITH SECTION R322.1.6.

8. INTEGRAL FIXTURE-FITTING MOUNTING SURFACES ON MANUFACTURED PLUMBING FIXTURES OR PLUMBING FIXTURES CONSTRUCTED ON SITE, SHALL MEET THE DESIGN REQUIREMENTS OF ASME A112.19.2/CSA B45.1 OR ASME A112.19.3/CSA B45.4.



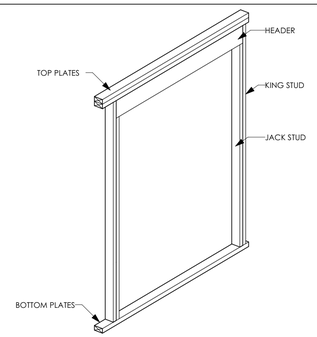
1 PLUMBING FIXTURE CLEARANCE
Scale: 1/2" = 1'-0"



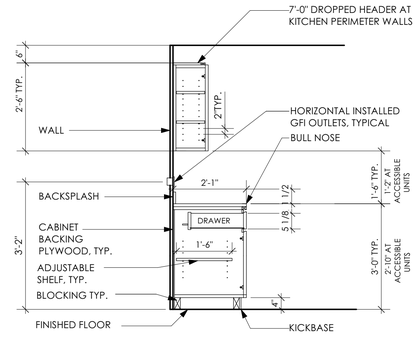
2 TYPICAL ELECTRICAL DEVICE LOCATION
Scale: 1/2" = 1'-0"

NOTES:
1.
THE SIGN OR SYMBOL SHALL SHALL CONSIST OF A CIRCLE SIX INCHES IN DIAMETER, WITH A STROKE WIDTH OF 1/2 INCH. THE BACKGROUND OF THE STICKER SHALL BE REFLECTIVE WHITE IN COLOR. THE CIRCLE CONTENTS SHALL BE REFLECTIVE RED IN COLOR, CONFORMING TO PANTONE MATCHING SYSTEM (PMS) #187.
2.
THE SIGN OR SYMBOL SHALL BE OF STURDY, NON-FADING, WEATHER-RESISTANT MATERIAL; PROVIDED, HOWEVER, THAT A SIGN OR SYMBOL APPLIED DIRECTLY TO A DOOR SIDELIGHT MAY BE A PERMANENT NON-FADING STICKER OR DECAL.

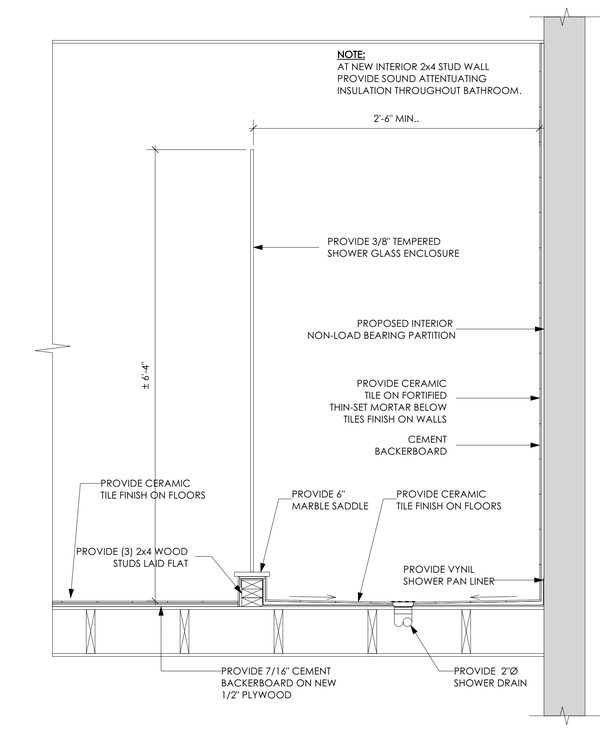
4 ENGINEERED WOOD STICKER DETAIL
Scale: 1" = 1'-0"



5 JACK STUD HEADER DETAIL
Scale: 1/4" = 1'-0"



3 CABINETRY SECTION
Scale: 1/2" = 1'-0"



6 SHOWER CONSTRUCTION DETAIL
Scale: 1" = 1'-0"

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RYE BROOK , NEW YORK 10573

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WESTPORT, CT 10708

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CONSTRUCTION DETAILS

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JOB NO.: 22335
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CHECKED BY: SB

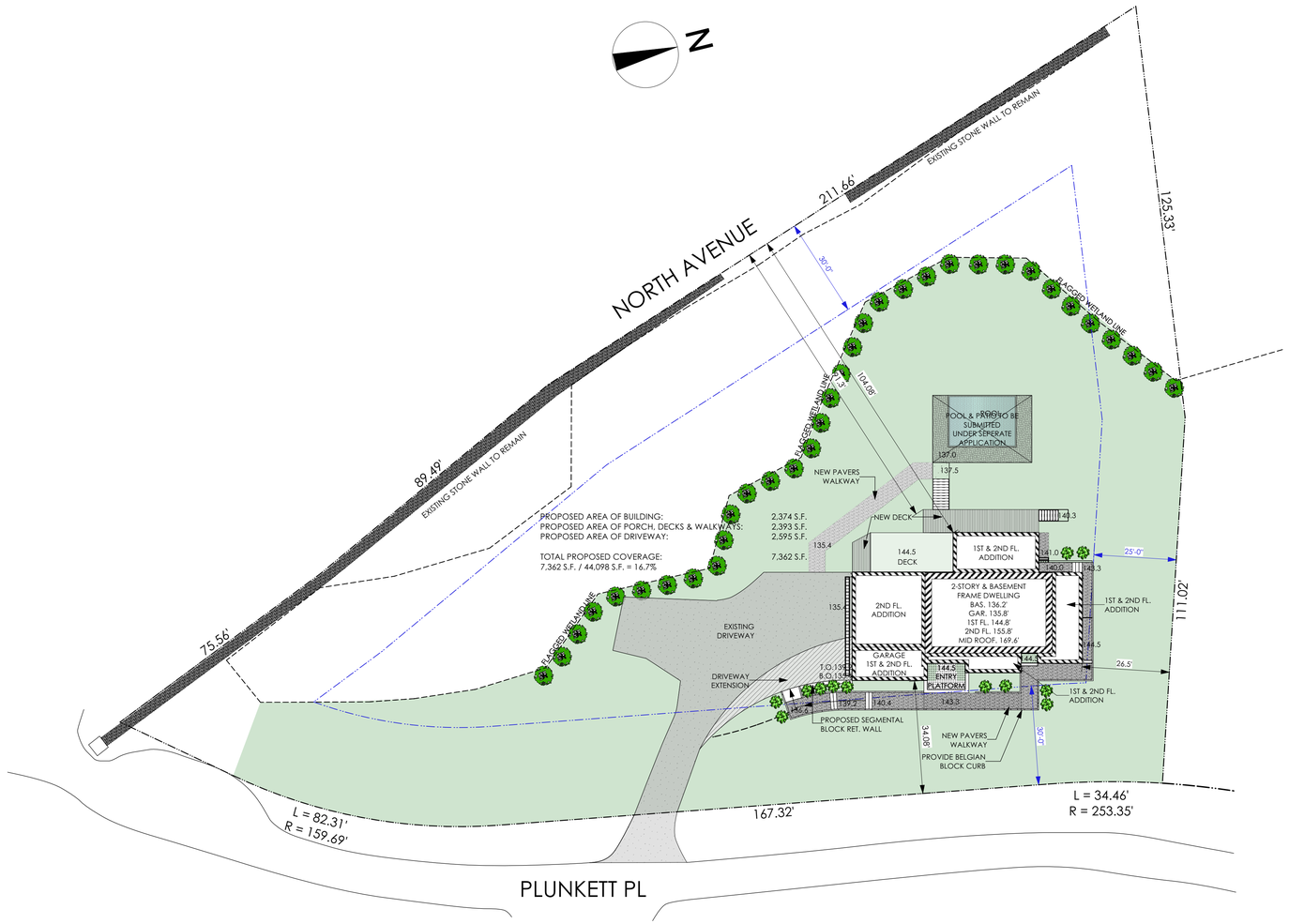
SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9558 · REGISTERED ARCHITECT

DRAWING NO.:

A-402.00

SHEET NO.: 16 OF 36



1 SITE LANDSCAPING PLAN
Scale: 1" = 20'-0"

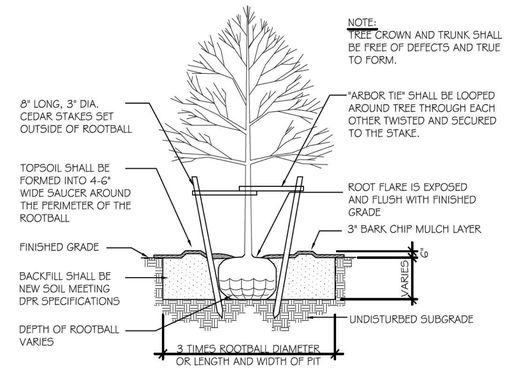
LANDSCAPING SCHEDULE

MARK/PATTERN	QTY	BOTANICAL NAME	COMMON NAME	HABIT	SIZE AT PLANTING/MATURE
	5	THUJA OCCIDENTALIS	ARBORVITAE	EVERGREEN	5'-0" HEIGHT./25'-0"
SHRUBS/PLANTS					
	-	SEASONAL FLOWERING PLANTS/BUSHES		-	-
GROUND COVERING					
		GRASS			

LANDSCAPING NOTES:

THIS LANDSCAPING PLAN SHALL ONLY INCLUDE PLANT SPECIES THAT ARE APPROPRIATE BASED ON THE UNITED STATES DEPARTMENT OF AGRICULTURE'S PLANT HARDINESS ZONE MAP.

ALL LANDSCAPING SHALL LIVE FOR AT LEAST 3 YEARS AFTER THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. ANY LANDSCAPING THAT DOES NOT MEET THIS REQUIREMENT SHALL BE REPLACED WITHIN TEN (10) DAYS OF NOTICING THAT THE LANDSCAPING IS INADEQUATE.



TREE PLANTING & STAKE DETAIL

BADALY

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WESTPORT, CT 10708

DRAWING TITLE:

SITE LANDSCAPING PLAN

SCALE: AS NOTED
DATE: 02/13/23
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CHECKED BY: SB

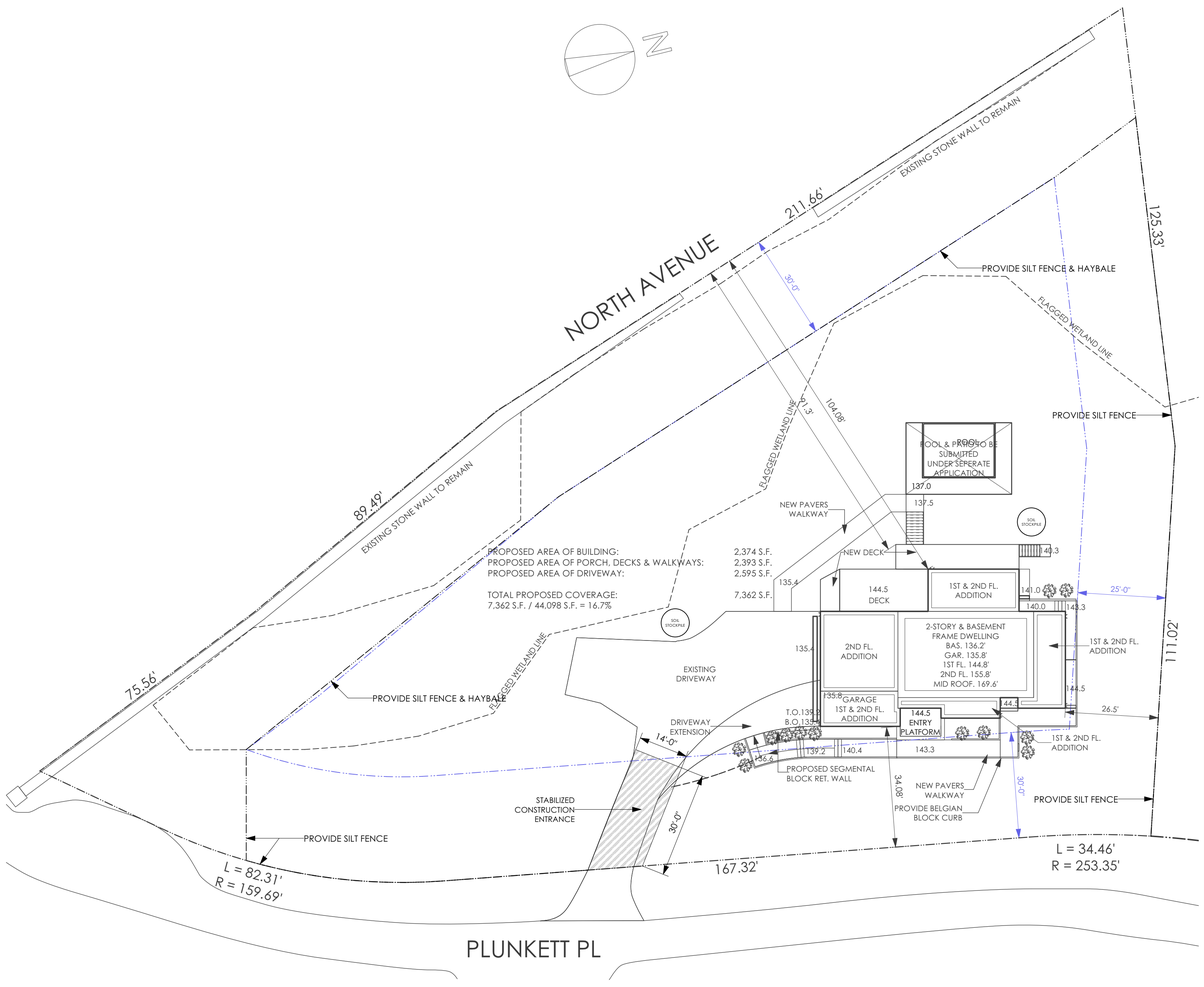
SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9585 · REGISTERED ARCHITECT

DRAWING NO.:

C-100.00

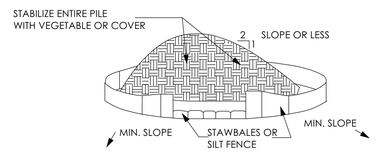
SHEET NO.: 17 OF 36



1 EROSION CONTROL PLAN
Scale: 1" = 20'-0"

EROSION CONTROL NOTES:

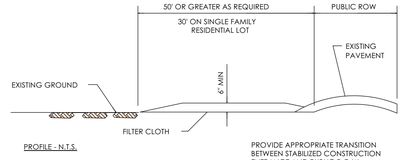
1. PRIOR TO THE START OF CONSTRUCTION EROSION CONTROL DEVICES SHALL BE IN PLACE AS SHOWN ON THESE PLANS.
2. FINAL GRADES SHALL BE ESTABLISHED AS SOON AS POSSIBLE AND TOP SOILED AND SEEDED TO PROVIDE A TURF, WHICH WILL STABILIZE SLOPES AND PREVENT EROSION.
3. SLOPES TO REMAIN OPEN FOR MORE THAN THREE WEEKS SHALL BE PROTECTED WITH TEMPORARY SEEDING OR STAKED NETTING.
4. EROSION CONTROL DEVICES SHALL BE INSPECTED AFTER EACH RAINFALL AND SHALL BE CLEANED, REPAIRED OR REPLACED AS NECESSARY.
5. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCEN WITH "NYS STANDARDS AND SPECIFICATIONS FOR EROSION & SEDIMENT CONTROL".
6. THE CLEANING OF EXISTING DOWNSTREAM AREAS FROM ALL SILTATION AND CONSTRUCTION DEBRIS SHALL BE PERFORMED AS REQUIRED, AND UPON COMPLETION OF WORK.
7. THE ENGINEER MAY AT HIS DISCRETION REQUIRE ADDITIONAL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION TO MITIGATE UNFORESEEN EROSION AND SILTATION.



INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILED OPERATIONS SHALL BE DRY AND STABLE.
2. SOILS OR FILL TO BE STOCKPILED ON SITE DURING CUTTING AND FILLING ACTIVITIES SHOULD BE LOCATED ON LEVEL PORTION OF SITE WITH ADEQUET SETBACKS FROM TEMPORARY DRAINAGE SWALES.
3. MAXIMUM SLOPE STOCKPILE SHALL BE 1 TO 2.
4. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETABLE OR COVERED.
5. STOCKPILES REMAINING IN PLACE FOR MORE THAN A WEEK SHOULD BE SEEDED AND MULCHED OR COVERED WITH GEOTEXTILE FABRIC SURROUNDED BY SILT FENCE.
6. SEE SPECIFICATIONS AND DETAILS FOR INSTALLATION OF SILT FENCE.

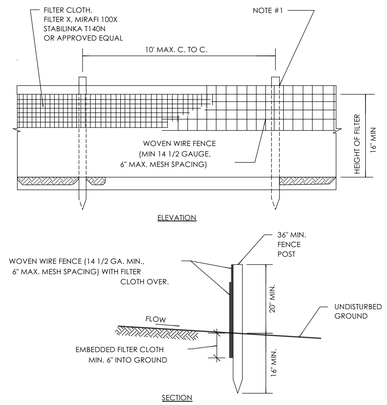
2 SOIL STOCKPILE DETAIL
N.T.S.



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SIGHT
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY
8. WHEN WASHING IS REQUITED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

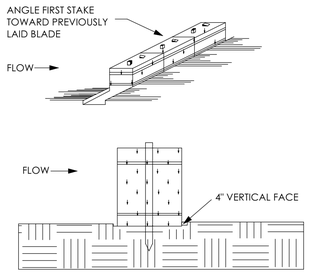
3 STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. 36" MIN. STEEL POSTS, EITHER T OR U TYPE OR 2" HARDWOOD POSTS, DRIVEN MIN. 16" INTO GROUND.
2. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
6. CONTRACTOR MAY USE PREFABBRICATED UNITS, AS MANUFACTURED BY GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

4 SILT FENCE DETAIL
N.T.S.



NOTES

1. BALES SHALL BE PLACED AT THE TOE OF THE SLOPE OR ON THE CONTOUR AND IN A ROW WITH END TIGHTLY ABUTTING IN ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES AND PLACED SP THE BINDING ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGEL TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE MADE FREQUENTLY AND REPAIR SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

5 HAYBALE DETAIL
N.T.S.

BADALY
ENGINEERING DESIGN:
BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

CONSULTANT

DE LA PUENTE ARC-CONSULTANT, LLC
PATRICIA DE LA PUENTE
PRINCIPAL
CEL. 914-6181847
PDLPARCHITECTURE@HOTMAIL.COM

PETER KLEIN , ASSOCIATES, INC
ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

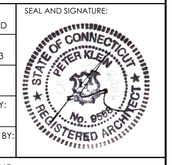
1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

EROSION CONTROL PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

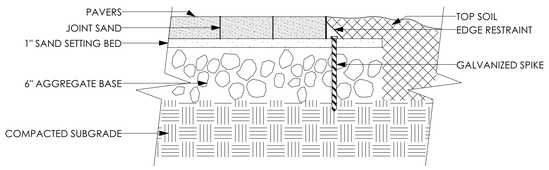
SEAL AND SIGNATURE:



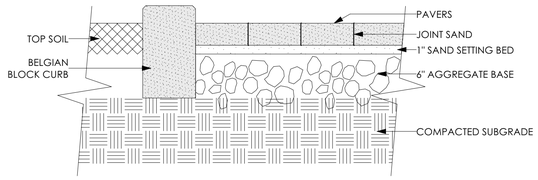
DRAWING NO.:

C-110.00

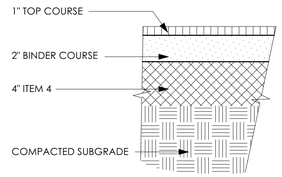
SHEET NO.: 18 OF 36



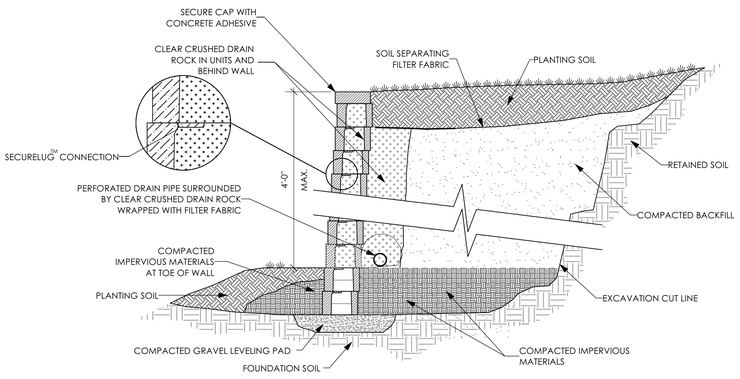
1 PAVERS DETAIL
Scale: 1 1/2" = 1'-0"



2 PAVERS DETAIL WITH BELGIAN BLOCK CURB
Scale: 1 1/2" = 1'-0"



3 ASPHALT DRIVEWAY DETAIL
Scale: 1 1/2" = 1'-0"



4 SEGMENTAL BLOCK RETAINING WALL DETAIL
Scale: 1/2" = 1'-0"

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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK, NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

SITE DETAILS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9586 · REGISTERED ARCHITECT

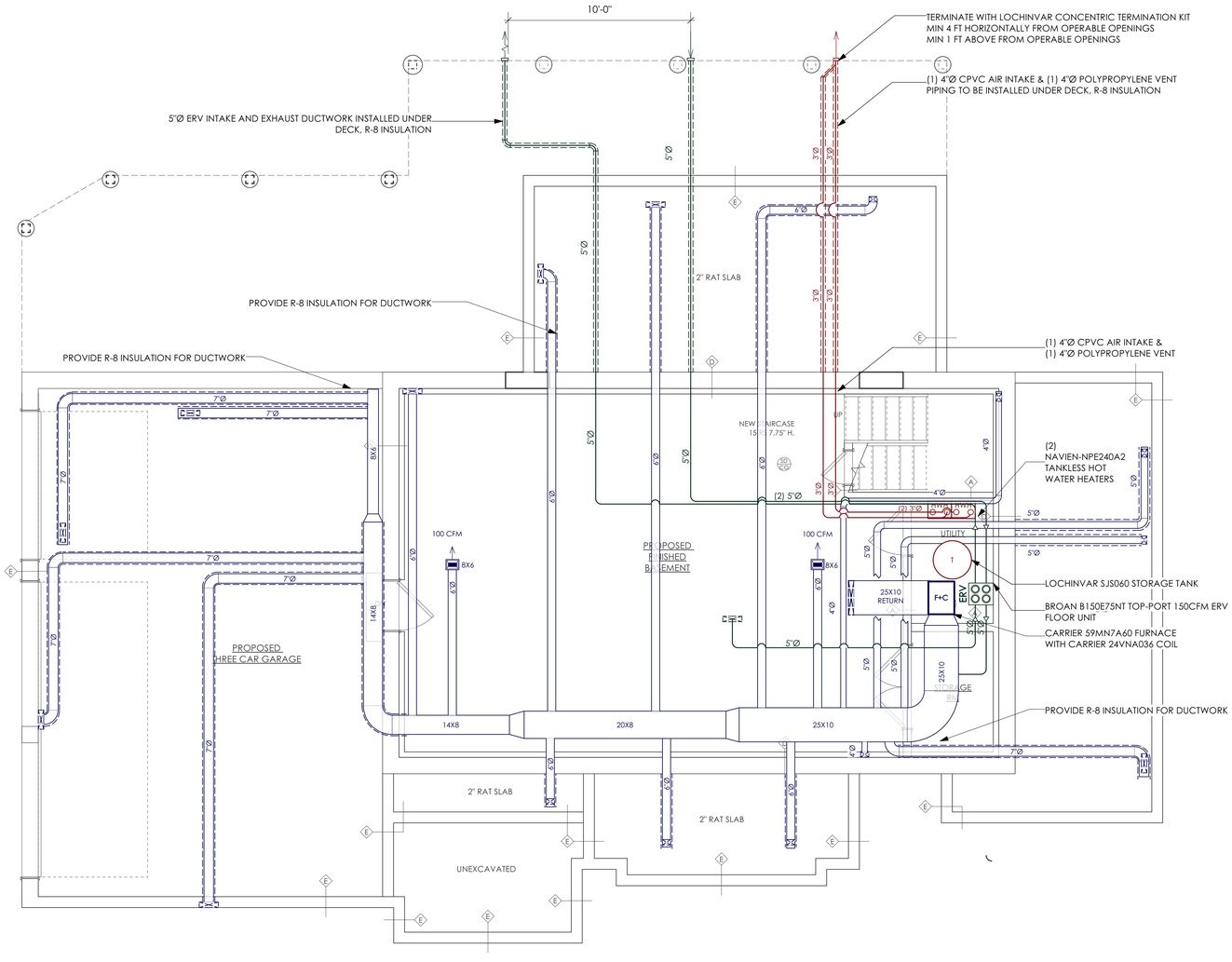
DRAWING NO.:

C-200.00

SHEET NO.: 19 OF 36

PLAN LEGEND

KX	KITCHEN EXHAUST
BX	BATHROOM EXHUAST
	VERTICAL HVAC DUCT
	VERTICAL HVAC DUCT STARTING AT CEILING
	FLOOR SUPPLY REGISTOR
	CEILING SUPPLY REGISTOR
	SIDEWALL SUPPLY REGISTOR
	SIDEWALL RETURN REGISTOR
	CEILING RETURN REGISTOR
	BATHROOM EXHAUST
S.A. {20}	SUPPLY (20 CFM)
E.A. {20}	EXHAUST (20 CFM)



1 BASEMENT MECHANICAL PLAN
Scale: 1/4" = 1'-0"

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ENGINEERING DESIGN:

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ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

BASEMENT MECHANICAL PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9555 · REGISTERED ARCHITECT

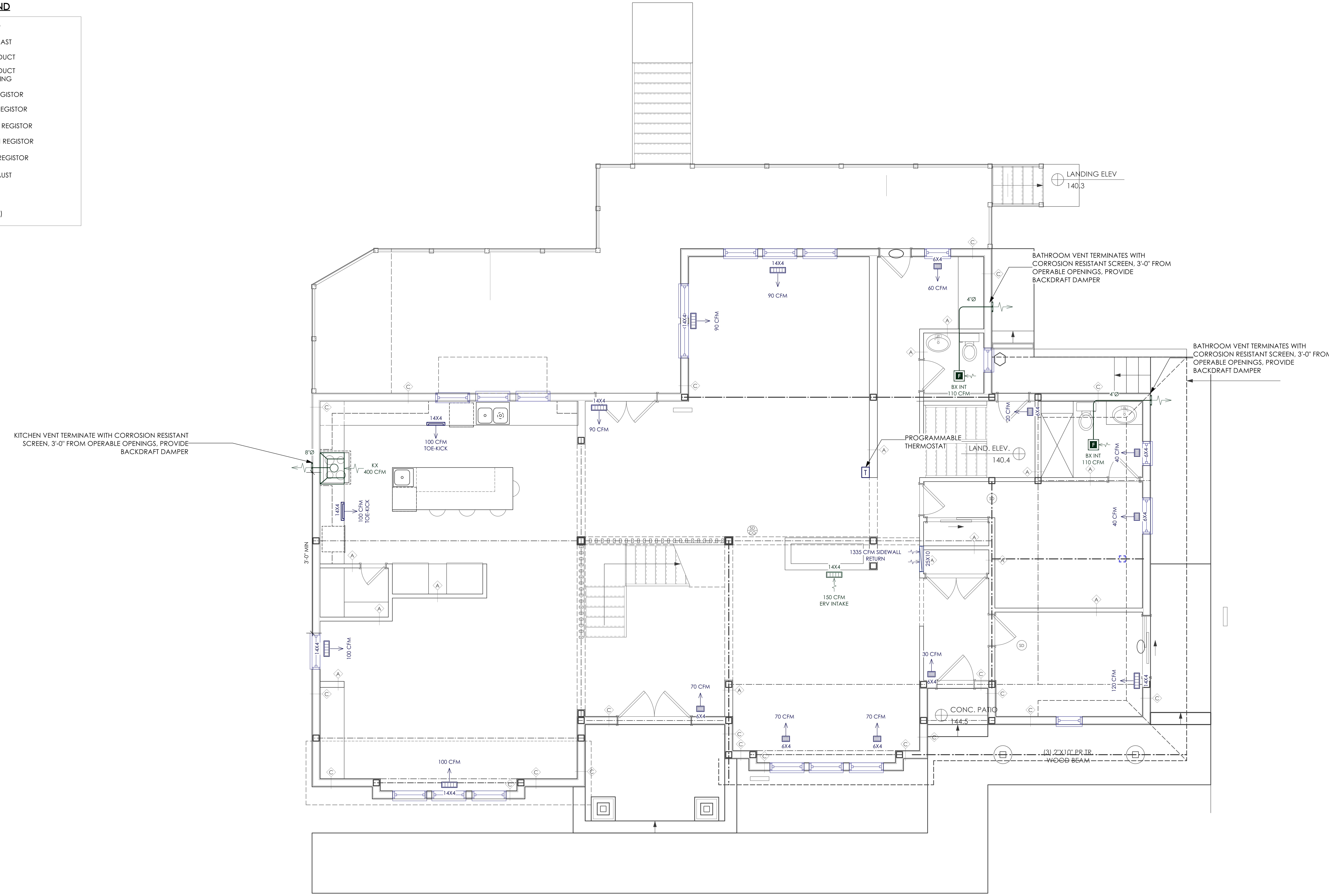
DRAWING NO.:

M-100.00

SHEET NO.: 20 OF 36

PLAN LEGEND

KX	KITCHEN EXHAUST
BX	BATHROOM EXHAUST
	VERTICAL HVAC DUCT
	VERTICAL HVAC DUCT STARTING AT CEILING
	FLOOR SUPPLY REGISTOR
	CEILING SUPPLY REGISTOR
	SIDEWALL SUPPLY REGISTOR
	SIDEWALL RETURN REGISTOR
	CEILING RETURN REGISTOR
	BATHROOM EXHAUST
S.A. {20}	SUPPLY (20 CFM)
E.A. {20}	EXHAUST (20 CFM)



1 FIRST FLOOR MECHANICAL PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

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2 WILSON PLACE, MT. VERNON, NY 10550
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PETER KLEIN , ASSOCIATES, INC
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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

FIRST FLOOR MECHANICAL PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

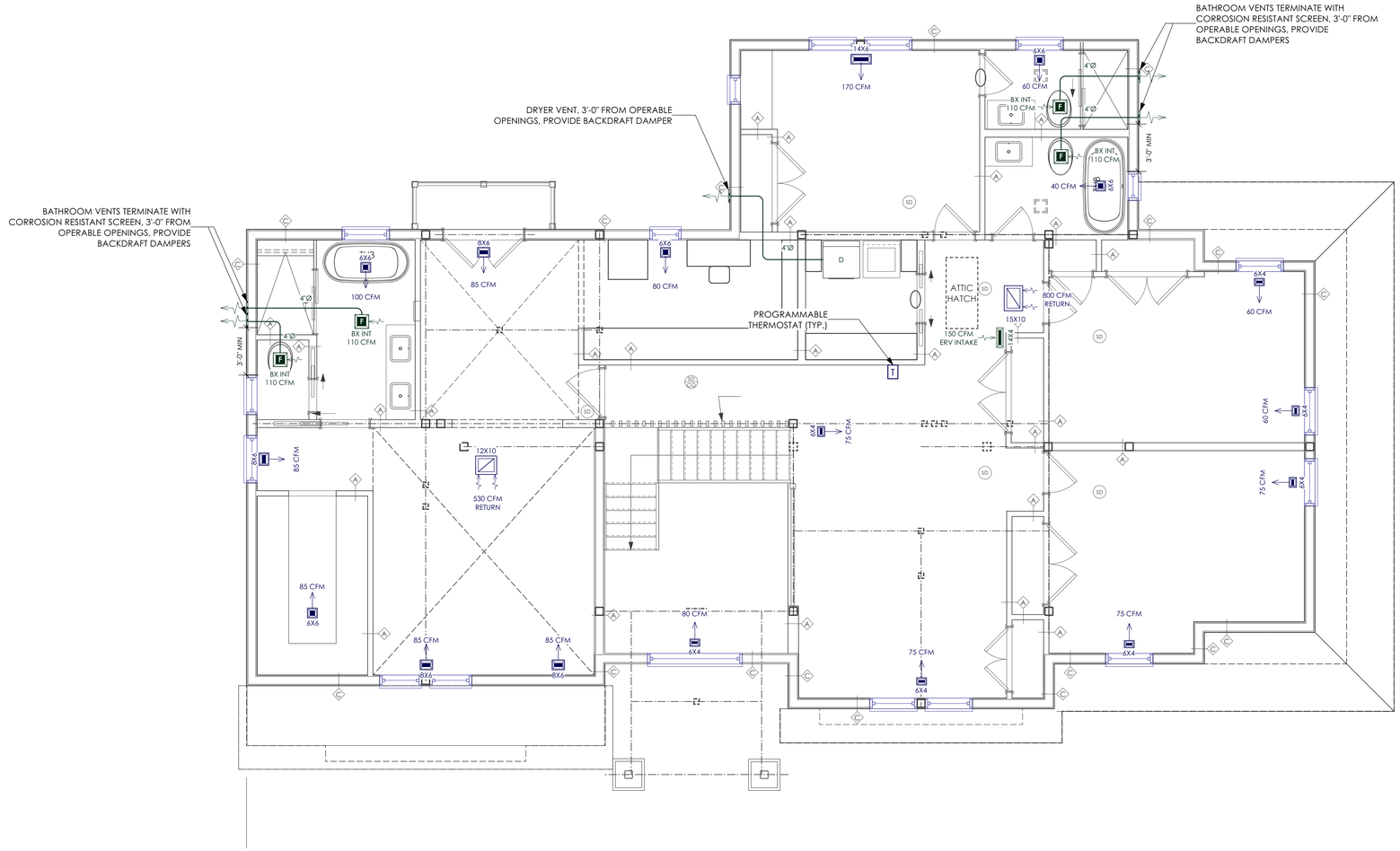
SEAL AND SIGNATURE:

STATE OF CONNECTICUT PETER KLEIN No. 9559 REGISTERED ARCHITECT

DRAWING NO.: M-101.00

PLAN LEGEND

KX	KITCHEN EXHAUST
BX	BATHROOM EXHUAST
	VERTICAL HVAC DUCT
	VERTICAL HVAC DUCT STARTING AT CEILING
	FLOOR SUPPLY REGISTOR
	CEILING SUPPLY REGISTOR
	SIDEWALL SUPPLY REGISTOR
	SIDEWALL RETURN REGISTOR
	CEILING RETURN REGISTOR
	BATHROOM EXHAUST
S.A. {20}	SUPPLY (20 CFM)
E.A. {20}	EXHAUST (20 CFM)



1 SECOND FLOOR MECHANICAL PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

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PETER KLEIN , ASSOCIATES, INC
ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

SECOND FLOOR MECHANICAL PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9981 · REGISTERED ARCHITECT

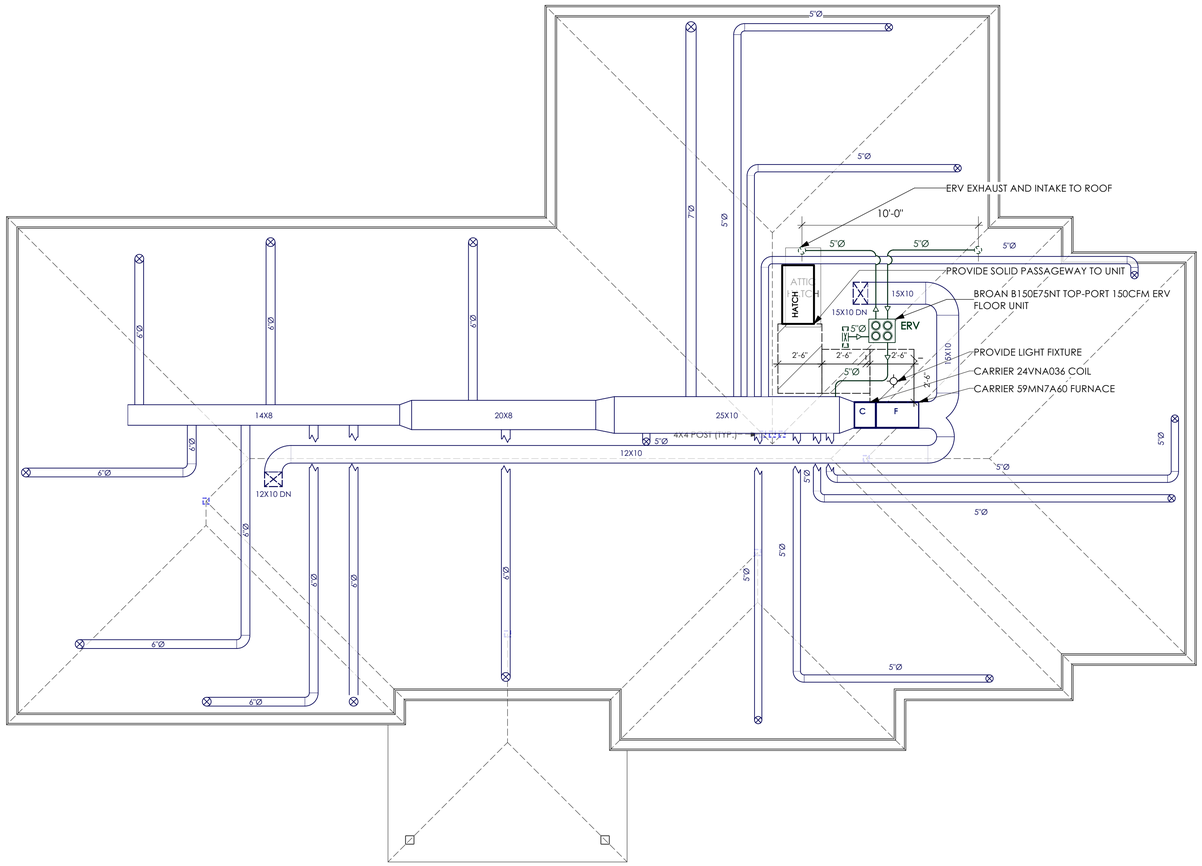
DRAWING NO.:

M-102.00

SHEET NO.: 22 OF 36

PLAN LEGEND

KX	KITCHEN EXHAUST
BX	BATHROOM EXHUAST
	VERTICAL HVAC DUCT
	VERTICAL HVAC DUCT STARTING AT CEILING
	FLOOR SUPPLY REGISTOR
	CEILING SUPPLY REGISTOR
	SIDEWALL SUPPLY REGISTOR
	SIDEWALL RETURN REGISTOR
	CEILING RETURN REGISTOR
	BATHROOM EXHAUST
S.A. {20}	SUPPLY (20 CFM)
E.A. {20}	EXHAUST (20 CFM)



1 ATTIC MECHANICAL PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

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2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

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RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

ATTIC MECHANICAL PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9555 · REGISTERED ARCHITECT

DRAWING NO.:

M-103.00

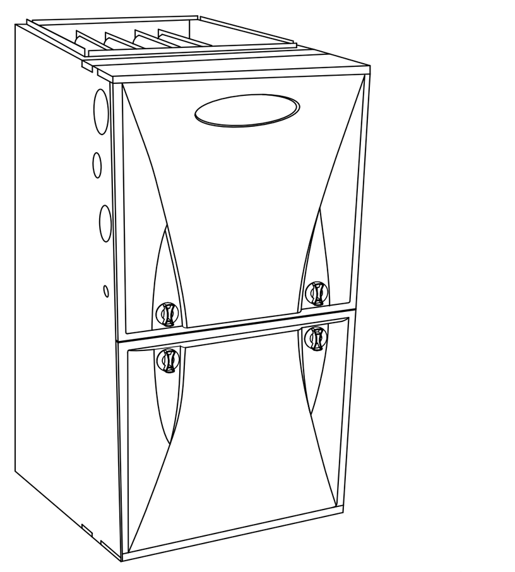
SHEET NO.: 23 OF 36

FURNACE: 59MN7A060-14

59MN7A
Infinity® Modulating
4–Way Multipoise
Condensing Gas Furnace
Series 100

Carrier
turn to the experts

Product Data



A11263

The 59MN7A Multipoise Variable-Capacity Condensing Gas Furnace features the modulating Infinity® System. The innovative modulating gas valve is at the heart of this furnace's quiet operation, along with the variable-speed ECM blower motor and variable-speed inducer motor. This furnace also provides 3.5 times tighter temperature control than single stage furnaces. With an Annual Fuel Utilization Efficiency (AFUE) up to 97.4%, this Infinity gas furnace provides exceptional savings over standard furnaces as well. This Infinity Gas Furnace also features 4-way multipoise installation flexibility. The 59MN7A can be vented as a direct vent/two-pipe furnace or as an optional ventilated combustion air application. A Carrier Infinity® Control and an Infinity Air Conditioner or Heat Pump can be used to form a complete Infinity System. All units meet California Air Quality Management District emission requirements. All sizes are design certified in Canada.

STANDARD FEATURES

- Our quietest furnace. Compare for yourself at HVACpartners.com
- Supports single- and multiple-zone Infinity systems
- Ideal height 35" (889 mm) cabinet: short enough for taller coils,but still allows enough room for service
- Infinity Features—match with the Infinity Control for Infinity System benefits
- Integral part of the Ideal Humidity System® Technology
- Silicon Nitride Power Heat™ Hot Surface Igniter
- SmartEvap™ technology helps control humidity levels in the home when used with a compatible humidity control system
- ComfortFan™ technology allows control of continuous fan speed from a compatible thermostat
- External Media Filter Cabinet included
- 4-way multipoise design for upflow, downflow or horizontal installations, with unique vent elbow and optional through-the-cabinet downflow venting capability
- Variable-Speed blower and inducer motors, modulating gas valve
- Self-diagnostics and extended diagnostic data through the Advanced Product Monitor (APM) accessory or Infinity User Interface
- Adjustable blower speed for cooling, continuous fan, and dehumidification
- Aluminized-steel primary heat exchanger
- Stainless-steel condensing secondary heat exchanger
- Propane convertible (See Accessory list).
- Factory-configured ready for upflow applications
- Fully-insulated casing including blower section
- Convenient Electronic Air Cleaner and Humidifier connections
- Direct-vent/sealed combustion or ventilated combustion air venting
- Installation flexibility: sidewall or vertical vent
- Residential installations may be eligible for consumer financing through the Retail Credit Program

LIMITED WARRANTY*

- 10 year parts and lifetime heat exchanger limited warranty to the original purchaser upon timely registration.
- Limited warranty period is five years for parts and twenty years for the heat exchanger if not registered within 90 days of installation.†

* For owner occupied, residential applications.
†Jurisdictions where warranty benefits cannot be conditioned on registration will receive registered limited warranty benefits.

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.

1

SPECIFICATIONS

Heating Capacity and Efficiency			060-14	080-14	100-20	120-22
Input	Maximum Heat	(BTUH)	60,000	80,000	100,000	120,000
	Intermediate Heat	(BTUH)	39,000	52,000	65,000	78,000
	Minimum Heat	(BTUH)	24,000	32,000	40,000	48,000
Output	Maximum Heat	(BTUH)	59,000	78,000	97,000	117,000
	Intermediate Heat	(BTUH)	38,000	51,000	63,000	76,000
	Minimum Heat	(BTUH)	24,000	31,000	39,000	47,000
Efficiency	AFUE % (ICS)		97.4	97.4	97.1	97.2
Certified Temperature Rise Range °F (°C)		Maximum Heat	35 - 65 (19-36)	40 - 70 (21-38)	45 - 75 (25-41)	45 - 75 (25-41)
		Intermediate Heat	50 - 80 (27-44)	50 - 80 (27-44)	50 - 80 (27-44)	50 - 80 (27-44)
		Minimum Heat	35 -65 (19-36)	35 - 65 (19-36)	35 - 65 (19-36)	35 - 65 (19-36)
Airflow Capacity and Blower Data			**060-14**	**080-14**	**100-20**	**120-22**
Certified External Static Pressure (in. w.c.)		Heating	0.12	0.15	0.20	0.20
		Cooling	0.5	0.5	0.5	0.5
Airflow Delivery @ Rated ESP (CFM)		Maximum Heat	1075	1510	1515	1815
		Intermediate Heat	530	750	905	1100
		Minimum Heat	415	620	725	900
		Cooling	1335	1375	2030	2185
Cooling Capacity (tons) @ 400, 350 CFM/ton		400 CFM/ton	3	3.5	5	5.5
		350 CFM/ton	3.5	4	5.5	6
Direct-Drive Motor Type			Electronically Commutated Motor (ECM)			
Direct-Drive Motor HP			1/2	1/2	1	1
Motor Full Load Amps			7.7	7.7	12.8	12.8
RPM Range			300 - 1300			
Speed Selections			Variable (Communicating)			
Blower Wheel Dia. X Width		in.	11 x 8	11 x 8	11 x 10	11 x 11
Air Filtration System			Factory Supplied Media Cabinet Field Supplied Filter			
Filter Used for Certified Watt Data			KGAWF1306UFR	KGAWF1306UFR	KGAWF1406UFR	KGAWF1506UFR
Electrical Data			**060-14**	**080-14**	**100-20**	**120-22**
Input Voltage		Volts-Hertz-Phase	115-60-1			
Operating Voltage Range		Min-Max	104-127			
Maximum Input Amps		Amps	9.7	9.7	14.8	14.8
Unit Ampacity		Amps	12.7	12.7	19.1	19.1
Minimum Wire Size		AWG	14	14	12	12
Maximum Wire Length @ Minimum Wire Size		Feet	29	29	30	30
		(M)	(8.8)	(8.8)	(9.1)	(9.1)
Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended)		Amps	15	15	20	20
Transformer Capacity (24vac output)			40 VA			
External Control Power Available		Heating	27.9 VA			
		Cooling	27.9 VA			
Controls			**060-14**	**080-14**	**100-20**	**120-22**
Gas Connection Size			1/2" - NPT			
Burners (Monoport)			3	4	5	6
Gas Valve (Redundant)		Manufacturer	White Rogers™			
		Minimum Inlet Gas pressure (in. W.C.)	4.5			
		Maximum Inlet Gas pressure (in. W.C.)	13.6			
Gas Conversion Kit - Natural to Propane			KGANP5201VSP			
Gas Conversion Kit - Propane to Natural			KGAPN4401VSP			
Manufactured (Mobile) Home Kit			*not approved for MH use*			
Ignition Device			Silicon Nitride			
Limit Control			180	170	160	160
Heating Blower Control (Heating Off-Delay)			Adjustable: 90, 120, 150, 180 seconds			
Cooling Blower Control (Time Delay Relay)			90 seconds			
Communication System			Infinity; Infinity Zoning			
Thermostat Connections			W2, Y1, DHUM, G, COM 24V, W/W1, Y/Y2, R			
Accessory Connections			EAC (115vac); HUM (24vac); 1-stg AC (via Y/Y2)			

2

BATHROOM EXHAUST: PANASONIC FV-0911RF1

WhisperFit EZ
VENTILATION FAN

FV-08-11VF5

Specification Submittal Data / Panasonic Ventilation Fan

Description:
Ventilating fan shall be low sone ceiling mount rated for continuous operation. Fan shall be ENERGY STAR® rated and certified by the Home Ventilating Institute (HVI). Evaluated by the Underwriters Laboratories and conform to both UL and cUL standards.

Motor/Blower:
- Four–pole totally enclosed condenser AC motor rated for continuous use.
- Fan ventilation rates shall be manually adjustable for 80 or 110 CFM.
- Power Rating shall be 120 volts and 60 Hz.
- Fan shall be UL and cUL listed for tub/shower enclosure when GFCI protected.
- Motor equipped with thermal cutoff fuse.
- Removable, permanently lubricated, plug-in motor.

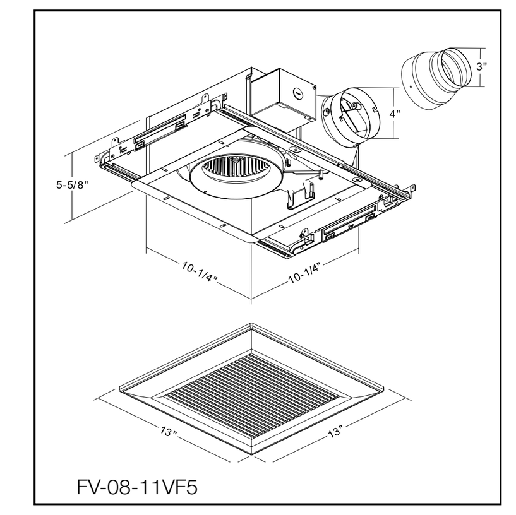
Housing:
- Rust proof epoxy and polyester resin coating, 26 gauge galvanized steel body.
- 4" diameter duct with optional 3" adapter included.
- Built in backdraft damper.
- Articulating and expandable extension bracket up to 24".

Grille:
- Attractive design using Poly Pro material.
- Attaches directly to housing with torsion springs.

Warranty:
- ALL Parts: For period of 3 years from the date of the original purchase.

Architectural Specifications:
Ventilation fan shall be ceiling mount, ENERGY STAR® rated with built-in speed selector. Select from 80/110 CFM and no more than 0.3/0.8 sone as certified by the Home Ventilating Institute (HVI) at 0.1 static pressure in inches water gauge (w.g.) and with no less than 73/104 CFM and no more than 0.6/1.2 sone as certified by HVI at 0.25 w.g. Power Consumption shall be no greater than 21.1/26.5 watts at 0.1 w.g. and 20.7/26.4 watts at 0.25 w.g. ENERGY STAR® rated with efficiency of no less than 3.8/4.2 CFM/watt at 0.1 w.g. and 3.5/4.0 CFM/watt at 0.25 w.g. Duct diameter shall be no less than 4" (3" if using the included duct adapter). The motor shall be totally enclosed, four pole condenser type engineered to run continuously. Power rating shall be 120v/60Hz. Housing material shall be no less than 26 gauge galvanized steel with rust proof epoxy and polyester resin coating. Fan shall be UL and cUL listed for tub/shower enclosure when GFCI protected. Fan can be used to comply with ASHRAE 62.2, LEED, ENERGY STAR® IAP, EarthCraft, California Title-24, and WA Ventilation Code.

3" or 4" Duct



FV-08-11VF5

See Following Page for Performance Curves

Specifications: **WhisperFit® EZ** FV-08-11VF5		110 CFM Setting				80 CFM Setting			
		4" Duct		3" Duct		4" Duct		3" Duct	
Ventilation Fan Characteristics **(HVI Certified Data)**	Static Pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
	Air Volume (CFM)	110	104	100	88	80	73	70	61
	Noise (sones)	0.8	1.2	1.3	1.5	0.3	0.6	0.5	1.1
	Power Consumption (Watts)	26.5	26.4	26.4	25.9	21.1	20.7	20.9	20.3
	Energy Efficiency (CFM/Watt)	4.2	4.0	3.9	3.5	3.8	3.5	3.5	3.2
	Speed (RPM)	961	1179	1215	1369	848	1123	1005	1236
	Current (amps)	0.23	0.23	0.22	0.22	0.18	0.17	0.17	0.17
	MAX. Current (amps)	0.23		0.23		0.18		0.18	
	Power Rating (V/Hz)	120/60		120/60		120/60		120/60	
	ENERGY STAR rated	YES		YES		YES		YES	

0.25=Installed Performance

For complete Installation Instructions visit **us.panasonic.com/ventfans**

Model	Quantity	Comments	Project:
			Location:
			Architect:
			Engineer:
			Contractor:
			Submitted by:
			Date:

Panasonic Eco Solutions North America
Eco Products Division
Two Riverfront Plaza
Newark, NJ 07102

us.panasonic.com/ventfans

Panasonic

COIL: CARRIER 24VNA036

24VNA0
Infinity® Variable Speed Air Conditioner
with Greenspeed™ Intelligence
2 to 5 Nominal Tons

Carrier
turn to the experts

Advance Product Data

INFINITY SYSTEM

Carrier's 24VNA0 with Greenspeed™ Intelligence is a variable speed cooling product providing up to 20.5 SEER cooling efficiency. Lower speed operation, when needed in cooling, for enhanced comfort and dehumidification.

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. Refer to the combination ratings in the Product Data for system combinations that meet Energy Star® guidelines.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

INDUSTRY LEADING FEATURES / BENEFITS

Energy Efficiency
- Up to 20.5 SEER / 15.5 EER
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound
- Sound level as low as 58 dBA in low speed

Comfort
- Variable speed scroll compressor with capacity range from 40-100%
- Air cooled Inverter variable speed drive
  — System requires Infinity® wall control (SYSTXCCITW01-A, SYSTXCCITC01-A, SYSTXCCITC01-B or newer)
- Energy Tracking capability with the Infinity wall control w/software version 13 or later
  (Energy Tracking has the ability to monitor and estimate the energy consumption of your Infinity system.)

Reliability
- Non-ozone depleting Puron® refrigerant
- Front-seating service valves
- Infinity Intelligence monitors critical system parameters
- High pressure switch
- Suction pressure transducer
- TXV for cooling
- Filter drier (field installed)
- Internal crankcase heater standard

Flexibility and installation:
- 2 control wires to outdoor unit
- Minimum and maximum airflow adjustments

Durability
WeatherArmor Ultra™ protection package:
- Solid, Durable sheet metal construction
- Steel louver coil guard
- Baked-on, complete outer coverage, powder paint

Applications
- Long-line - up to 250 feet (76.2 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)

MIN/MAX AIRFLOW TABLES

The indoor airflow delivered by this system varies significantly based on outdoor temperature, indoor unit combination, and system demand. The airflows on these tables are for duct design considerations. Duct systems capable of these ranges will ensure the system will deliver full capacity at all outdoor temperatures. Minimum and maximum airflows can be adjusted from these numbers in the Infinity wall control air conditioner Setup screen.

Cooling – Comfort Mode			Minimum Cooling (Dehum or Zoning)
Size	Max Capacity	Min Capacity	
24	726	651	398
36	1168	651	398
48	1394	1186	693
60	1650	1186	693

Cooling – Efficiency Mode		
Size	Max Capacity	Min Capacity
24	949	830
36	1334	830
48	1593	1355
60	1885	1355

PHYSICAL DATA

UNIT SIZE SERIES	24–30	36–30	48–30	60–30
Operating Weight lb (kg)	315 (143)	315 (143)	324 (147)	324 (147)
Shipping Weight lb (kg)	351 (159)	351 (159)	362 (164)	362 (164)
Compressor Type	Variable Speed Scroll			
REFRIGERANT	Puron® (R–410A)			
Control	TXV (Puron® Hard Shutoff)			
Charge lb (kg)	12.7 (5.76)	12.7 (5.76)	14.0 (6.35)	14.0 (6.35)
COND FAN	Forward Swept Propeller Type, Direct Drive			
Air Discharge	Vertical			
Air Qty (CFM)	2700	4269	4350	5000
Motor HP	1/3	1/3	1/3	1/3
Motor RPM	500–900	500–900	500–900	500–900
COND COIL				
Face Area (Sq ft)	30.25	30.25	30.25	30.25
Fins per In.	20	20	20	20
Rows	2	2	2	2
Circuits	8	8	8	8
VALVE CONNECT. (In. ID)				
Vapor	7/8	7/8	7/8	7/8
Liquid	3/8			
REFRIGERANT TUBES (In. OD)				
Rated Vapor*	7/8	7/8	1–1/8	1–1/8
Max Liquid Line	3/8			

* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.
Note: See unit Installation Instruction for proper installation.

4

THERMOSTAT: NEST LEARNING THERMOSTAT

SPEC SHEET

Nest Learning Thermostat

Programs itself.
Then pays for itself.

Meet the Nest Learning Thermostat.

It learns what temperatures you like, turns itself down when you're away and connects to your phone. It has a big, sharp display. And it's proven to help save energy. In independent studies, the Nest Thermostat saved an average of 10% to 12% on heating bills and 15% on cooling bills. We've estimated average savings of $131 to $145 a year.

How does it work?

Auto-Schedule
No more confusing programming. It learns the temperatures you like and programs itself.

Remote control
Connect the Nest Thermostat to Wi-Fi to change the temperature from your phone, tablet or laptop.

Nest Leaf
You'll see the Leaf when you choose a temperature that saves energy. It guides you in the right direction.

Early-On
Nest learns how your home warms up and keeps an eye on the weather to get you the temperature you want when you want it.

Home/Away Assist
The Nest Thermostat automatically turns itself down when you're away to avoid heating or cooling an empty home.

Energy History
See when heating and cooling were on and what affected your energy use.

Safety Temperature Alerts
Get an alert on your phone or tablet if your home gets dangerously hot or cold.

Farsight
When the Nest Thermostat spots you across the room, it lights up beautifully to show you the time, temperature or weather.

nest

3400 Hillview Ave
Palo Alto, CA 94304

1-855-VIP-NEST
nest.com

BADALY

ENGINEERING DESIGN:

BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

ANY ALTERATIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF A NYS LICENSED P.E. (OR R.A. WHERE APPLICABLE) IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145, SECTION 7209.

CONSULTANT

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PETER KLEIN , ASSOCIATES, INC
ARCHITECTS - BUILDERS - DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

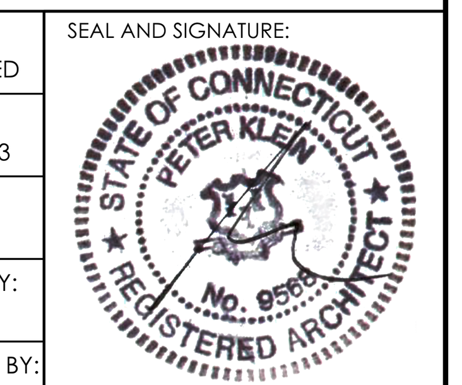
1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

SPECIFICATIONS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:



DRAWING NO.: M-200.00

SHEET NO.: 24 OF 36

BROAN B150E75NT ERV

Fresh Air Systems - 130 CFM

ERV
Top ports: B150E75NT
Side ports: B150E75NS

35 to 136 CFM @ 0.2 in. w.g.
35 to 127 CFM @ 0.4 in. w.g.

Parts/Motor/ERV Core

Visit www.broan-nutone.com for complete warranty text.

Introducing the industry's most advanced residential fresh air system, created to offer a universal platform specifically designed and improved to make contractors life easier and more profitable while delivering constant superior air quality.

- Thanks to the Virtuo Air Technology™, the airflow calibration and auto-balancing are achieved quickly and maintained throughout the life of the product
- Select the desired CFM (from 35 to 136 CFM) using the very first integrated LCD screen. The airflow is then set up automatically
- Integrated electronic airflow measurement device with real time LCD
- Integrated diagnostic tool
- Equipped with PMSM ECM motors for a very low power consumption
- Suspended installation (chains included)
  OR
- Wall-mount installation (universal brackets included)
  - installation with 2 brackets
  - installation with 4 brackets

Unit Description

- SRE of 75% at 32°F and 60% at 14°F (65 CFM)
- Ports size: 5"
- Negative pressure defrost (exhaust defrost)
- Corrosion resistant galvanized steel door and body
- One-piece molded insulation shell, no air leakage (expanded polystyrene; UL 94 HF-1 certified)
- Virtuo constant airflow and auto-balancing device (patent pending)
- Motorized dampers (no additional backdraft dampers required)
- No drain required
- 6' power cord
- Unit electrical characteristics:
  120 volts, 60 Hz, 2.5 A, 163 W

Controls

AUTOMATIC | SPEED SELECTOR | ADVANCED TOUCHSCREEN | 20-40-60 DELUXE

There are 4 optional main controls and 2 optional auxiliary controls available. Refer to Wall Control specification sheet for more information.

Core

- Polypropylene crossflow core with polymeric membrane and aluminum covers, impact resistant, non washable
- Dimensions: 12" x 12" x 9" (30.5 cm x 30.5 cm x 23 cm)

Filters

- MERV 8 grade washable standard filter (included)
- Optional MERV13 grade filter part no. V24285

Options

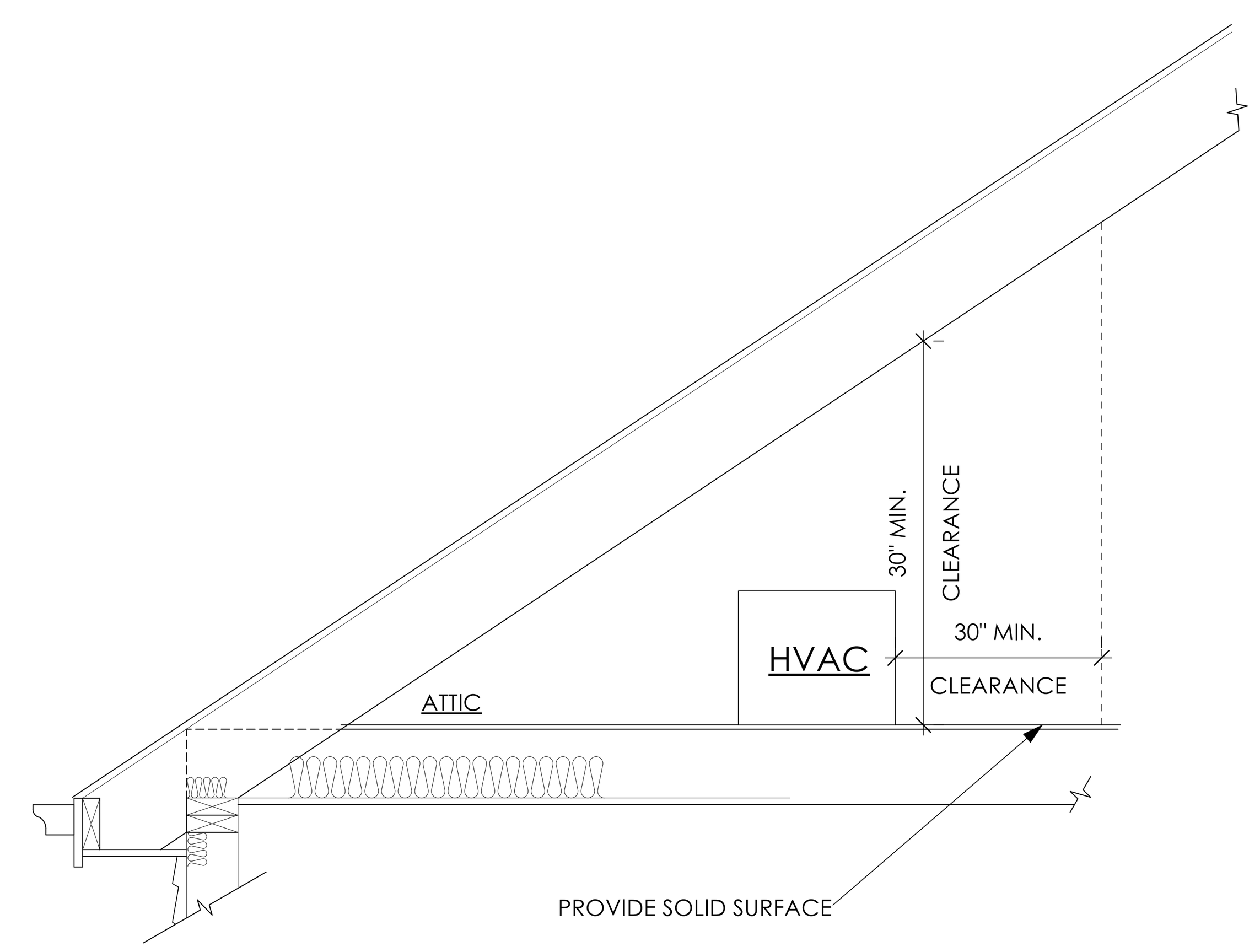
- Complete line of registers and diffusers
- Compatible with the Tandem transition (part no. VTYIK1) (for units producing up to 110 CFM only)

PRODUCT SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: EQUIPMENT SIZING CACULATED IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STANDARD 183

HEATING & COOLING EQUIPMENT SCHEDULE

QUANITY	TAG	MAKE	MODEL	DESCRIPTION	LOCATION	HEATING CAPACITY	PROPOSED HEATING EFFICIENCY	REQUIRED HEATING EFFICIENCY	COOLING CAPACITY	PROPOSED COOLING EFFICIENCY	REQUIRED COOLING EFFICIENCY
2	F	DAIKIN	59MN7A060	FURNACE	BASEMENT & ATTIC	60.0 KBTU/H	97.4% AFUE	80.0% AFUE	-	-	-
2	C	DAIKIN	24VNA036	COIL	BASEMENT & ATTIC	-	-	-	36.0 KBTU/H	18.0 SEER	13.0 SEER



1 ATTIC UNIT CLEARANCE DETAILS
Scale: 1/4" = 1'-0"

ENGINEERING DESIGN:
BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

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44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

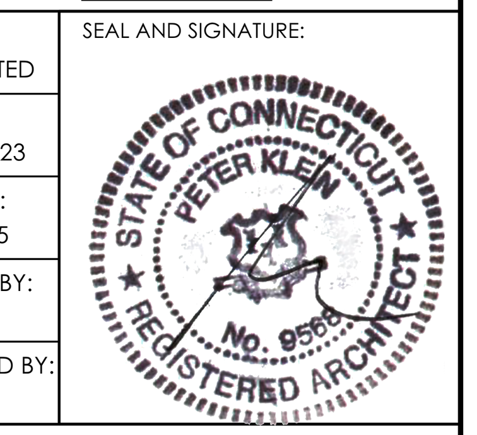
#	DATE	DESCRIPTION

PROJECT TITLE:
NEW SINGLE FAMILY RESIDENCE:
1A PLUNKETT PL
WESTPORT, CT 10708

DRAW SPECIFICATIONS, MECHANICAL EQUIPMENT SCHEDULE, AND DETAILS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:



DRAWING NO.: M-201.00

BASEMENT AND FIRST FLOOR HEAT LOSS

FORM J1AE • ABRIDGED VERSION of MANUAL J, 8TH EDITION

Project	BASEMENT AND FIRST FLOOR		Design State & City	Connecticut	Bridgeport AP				
Indoor Design Heating db	72		@ Outdoor (Winter) 99% db	7		HTD	65		
Indoor Design Cooling db	75		@ Outdoor (Summer) 1% db	95		CTD	20		
Indoor Design Cooling RH	50%		Grains Difference	36		Daily Range	Medium		
Latitude	41		Elevation	10		ACF	1.000	Block Load	

		Glass Direction	Construction Detail	Heating HTM	Cooling HTM	Net Area	Heating BTUH	Cooling BTUH
6A	Windows & Glass Doors	N	ANDERSEN WINDOWS	17.55	16.00	32	562	512
		S	ANDERSEN WINDOWS	17.55	19.00	66	1158	1254
		E/W	ANDERSEN WINDOWS	17.55	35.00	245	4300	8575
6B	Skylights							
7	Wood & Metal Doors	a	11D, Wood Core, Solid Core	25.35	12.09	105	2662	1269
		b	11J, Metal Door, Fiberglass Core	39.00	18.60			
		c						
8	Above Grade Walls	a	PLUNKETT PLACE WALL	2.86	1.17	4846	13859	5650
		b						
		c						
		d						
		e						
	Partition Walls	f						
		g						
9	Below Grade Walls	a	PLUNKETT BASEMENT	2.80		1987	5553	
		b						
10	Ceilings	a	18A-0 Ceiling Below Joists, R-49 Insulation	1.76	0.73			
		b						
		c						
	Partition Ceilings	d						
		e						
11	Passive Floors	a						
		b						
	Exposed Floors	c						
	Slab (Perimeter Ft.)	d						
	Basement Floor	e						
	Partition Floors	f						
		g						

12	Infiltration	Envelope Leakage	Tight	Heated & Cooled Floor Area = Sq.Ft.	3195	Above Grade = Cu. Ft.	30304	3611	556
		No. of Fireplaces							
13	Internal Gains			Number of Bedrooms	5	Occupants	6		1380
			Appliance - 1200 BTUH						1200
14	Sub Totals							31705	20396
15	Duct Loss & Gain		7F-Ducts in Conditioned Space						
			R-Value = 6	Leakage Class .12/.24		✓	✓		
			Installed Square Feet of Surface or Default = 1		Supply	1	Return	1	
16	Ventilation	Combustion Air From Conditioned Space		Furnace	Water Heater	None			
19	Blower Heat Gain		Manufacturer's performance data has no blower heat discount						1707
20	Total Sensible Loss or Gain							31705	22103

BADALY ENGINEERING 2 WILSON PLACE MOUNT VERNON, NY 10550 (914) 465-9010 badaly.com	21	Latent Infiltration load for cooling		618
		Latent load for occupants		1200
		Latent load for plants	Small / Medium / Large	
		Latent load for duct in unconditioned space		
		Latent ventilation load for cooling		
		Total Latent Gain		1818

BASEMENT AND FIRST FLOOR HEAT LOSS SUMMARY

MANUAL J8AE • SUMMARY REPORT

Project	BASEMENT AND FIRST FLOOR	Mfg. Equipment Sensible Heat Ratio		0.75	ACCA Manual D CFM
		Manual Overide Entry for Design CFM			
Room Name	HEAT LOSS	HTG CFM	HEAT GAIN	CLG CFM	
BASEMENT	6100	192	1456	71	192
DINING ROOM	4098	129	3357	165	165
KITCHEN	3563	112	3285	161	161
FOYER	2060	65	859	42	65
FAMILY ROOM	4686	148	4358	214	214
MUD ROOM	1863	59	1014	50	59
BATHROOM 1	553	17	286	14	17
BATHROOM 2	1264	40	541	27	40
GUEST ROOM	1072	34	586	29	34
OFFICE	2615	82	1848	91	91
HALL	1043	33	434	21	33
LIVING ROOM	2789	88	2372	116	116
Room Envelope Totals	31705	1000	20396	1000	

Total Area	Construction Components	HEAT LOSS		HEAT GAIN	
343	Windows & Glass Doors	6020	18.99%	10341	46.79%
	Skylights				
105	Wood & Metal Doors	2662	8.40%	1269	5.74%
4846	Above Grade Walls	13859	43.71%	5650	25.56%
	Partition Walls				
1987	Below Grade Walls	5553	17.52%		
	Ceilings				
	Partition Ceilings				
	Passive Floors				
	Exposed Floors				
	Slab Floors				
	Basement Floors				
	Partition Floors				
	Infiltration	3611	11.39%	556	2.51%
	Internal Gains			2580	11.67%
	Duct Loss & Gain				
	Ventilation				
	Blower Heat Gain			1707	7.72%
	Total Sensible	31705	100.00%	22103	100.00%
	Total Latent			1818	
	Total Cooling Load			23921	

BASEMENT AND FIRST FLOOR MANUAL D SUMMARY

Air Conditioning Contractors of America, Manual D, Third Edition

ACCA Manual D, 3rd Edition (D3) -- Residential Duct Systems, 2009 - 2016 (Worksheet 1)

Supply-side Runouts										Equivilent Rect. Duct		Equivilent
ID	Room ID	H-Btuh	C-Btuh	Htg Cfm	Clg Cfm	Dsn Cfm	Round Size	Velocity	Final Size	Height	Width	Flex
SR-1	BASEMENT 1	3050	728	103	48	103	6	527	6			7
SR-2	BASEMENT 2	3050	728	103	48	103	6	527	6			7
SR-3	DINING 1	2049	1678.5	69	110	110	7	411	7			7
SR-4	DINING 2	2049	1678.5	69	110	110	7	411	7			7
SR-5	KITCHEN 1	1781.5	1642.5	60	108	108	7	402	7			7
SR-6	KITCHEN 2	1781.5	1642.5	60	108	108	7	402	7			7
SR-7	FOYER	2060	859	70	56	70	6	356	6			6
SR-8	FAMILY 1	1562	1452.7	53	95	95	6	485	6			7
SR-9	FAMILY 2	1562	1452.7	53	95	95	6	485	6			7
SR-10	FAMILY 3	1562	1452.7	53	95	95	6	485	6			7
SR-11	MUD RM	1863	1014	63	66	66	6	338	6			6
SR-12	BATH 1	553	286	19	19	19	4	215	4			4
SR-13	BATH 2	1264	541	43	35	43	5	314	5			5
SR-14	GUEST RM	1072	586	36	38	38	5	281	5			5
SR-15	OFFICE	2615	1848	89	121	121	7	453	7			7
SR-16	HALL	1043	434	35	28	35	4	405	4			5
SR-17	LIVING 1	1394.5	1186	47	78	78	6	396	6			6
SR-18	LIVING 2	1394.5	1186	47	78	78	6	396	6			6
SR-19												
SR-20												
		31706	20396.1	1075	1335	1475						

Supply-side Trunks																						Dsn Cfm	Round Size	Velocity	Final Size	Equivilent Rect. Duct		Equivilent
ID	Associated Supply Runs																									Height	Width	Flex
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20								
ST-1				✓	✓																	215	8	616	8	6	8	9
ST-2	✓		✓	✓	✓		✓															577	12	736	12	8	14	14
ST-3			✓	✓	✓	✓	✓	✓									✓					854	14	799	14	8	19	16
ST-4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					1287	16	922	18	10	25	18
ST-5																												
ST-6																												
ST-7																												
ST-8																												

Return-side Runouts																						Dsn Cfm	Round Size	Velocity	Final Size	Equivilent Rect. Duct		Equivilent
ID	Associated Supply Runs																									Height	Width	Flex
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20								
RR-1																												
RR-2																												
RR-3																												
RR-4																												
RR-5																												
RR-6																												
RR-7																												
RR-8																												
RR-9																												
RR-10																												

Return-side Trunks																						Dsn Cfm	Round Size	Velocity	Final Size	Equivilent Rect. Duct		Equivilent
ID	Associated Supply Runs																									Height	Width	Flex
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20								
RT-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					1335	16	957	18	10	25	18
RT-2																												
RT-3																												
RT-4																												

SECOND FLOOR HEAT LOSS

FORM J1AE • ABRIDGED VERSION of MANUAL J, 8TH EDITION

Project	SECOND FLOOR		Design State & City	Connecticut	Bridgeport AP				
Indoor Design Heating db	72		@ Outdoor (Winter) 99% db	7		HTD	65		
Indoor Design Cooling db	75		@ Outdoor (Summer) 1% db	95		CTD	20		
Indoor Design Cooling RH	50%		Grains Difference	36		Daily Range	Medium		
Latitude	41		Elevation	10		ACF	1.000	Block Load	

		Glass Direction	Construction Detail	Heating HTM	Cooling HTM	Net Area	Heating BTUH	Cooling BTUH
6A	Windows & Glass Doors	N	ANDERSEN WINDOWS	17.55	16.00	33	579	528
		S	ANDERSEN WINDOWS	17.55	19.00	39	684	741
		E/W	ANDERSEN WINDOWS	17.55	35.00	227	3984	7945
6B	Skylights							
7	Wood & Metal Doors	a						
		b						
		c						
8	Above Grade Walls	a	PLUNKETT PLACE WALL	2.86	1.17	3860	11040	4501
		b						
		c						
		d						
		e						
	Partition Walls	f						
		g						
9	Below Grade Walls	a						
		b						
10	Ceilings	a	18A-0 Ceiling Below Joists, R-49 Insulation	1.76	0.73	1761	3091	1284
		b						
		c						
	Partition Ceilings	d						
		e						
11	Passive Floors	a						
		b						
	Exposed Floors	c						
	Slab (Perimeter Ft.)	d						
	Basement Floor	e						
	Partition Floors	f						
		g						

12	Infiltration	Envelope Leakage	Tight	Heated & Cooled Floor Area = Sq.Ft.	2077	Above Grade = Cu. Ft.	18693	2450	411
		No. of Fireplaces							
13	Internal Gains			Number of Bedrooms	5	Occupants	6		1380
			Appliance - 1200 BTUH						1200
14	Sub Totals							21828	17990
15	Duct Loss & Gain		7F-Ducts in Conditioned Space						
			R-Value = 6	Leakage Class .12/.24		✓	✓		
			Installed Square Feet of Surface or Default = 1		Supply	1	Return	1	
16	Ventilation	Combustion Air From Conditioned Space		Furnace	Water Heater	None			
19	Blower Heat Gain		Manufacturer's performance data has no blower heat discount						1707
20	Total Sensible Loss or Gain							21828	19697

BADALY ENGINEERING 2 WILSON PLACE MOUNT VERNON, NY 10550 (914) 465-9010 badaly.com	21	Latent Infiltration load for cooling		458
		Latent load for occupants		1200
		Latent load for plants	Small / Medium / Large	
		Latent load for duct in unconditioned space		
		Latent ventilation load for cooling		
		Total Latent Gain		1658

SECOND FLOOR HEAT LOSS SUMMARY

MANUAL J8AE • SUMMARY REPORT

Project	SECOND FLOOR	Mfg. Equipment Sensible Heat Ratio		0.75	ACCA Manual D CFM
		Manual Overide Entry for Design CFM			
Room Name	HEAT LOSS	HTG CFM	HEAT GAIN	CLG CFM	
MASTER BEDROOM	4302	197	4735	263	263
MASTER BATHROOM	1881	86	1318	73	86
READING AREA / WIC	2232	102	2117	118	118
BEDROOM 3	2874	132	2313	129	132
BATHROOM 3	1242	57	658	37	57
BATHROOM 2	670	31	568	32	32
BEDROOM 2	2432	111	1306	73	111
BEDROOM 1	2830	130	1939	108	130
ENTERTAINMENT AREA	2820	129	1981	110	129
FOYER	544	25	1053	59	59
Room Envelope Totals	21828	1000	17990	1000	

Total Area	Construction Components	HEAT LOSS		HEAT GAIN	
299	Windows & Glass Doors	5247	24.04%	9214	46.78%
	Skylights				
	Wood & Metal Doors				
3860	Above Grade Walls	11040	50.58%	4501	22.85%
	Partition Walls				
	Below Grade Walls				
1761	Ceilings	3091	14.16%	1284	6.52%
	Partition Ceilings				
	Passive Floors				
	Exposed Floors				
	Slab Floors				
	Basement Floors				
	Partition Floors				
	Infiltration	2450	11.23%	411	2.09%
	Internal Gains			2580	13.10%
	Duct Loss & Gain				
	Ventilation				
	Blower Heat Gain			1707	8.67%
	Total Sensible	21828	100.00%	19697	100.00%
	Total Latent			1658	
	Total Cooling Load			21354	

SECOND FLOOR MANUAL D SUMMARY

Air Conditioning Contractors of America, Manual D, Third Edition

ACCA Manual D, 3rd Edition (D3) -- Residential Duct Systems, 2009 - 2016 (Worksheet 1)

Supply-side Runouts										Equivilent Rect. Duct		Equivilent
ID	Room ID	H-Btuh	C-Btuh	Htg Cfm	Clg Cfm	Dsn Cfm	Round Size	Velocity	Final Size	Height	Width	Flex
SR-1	MASTER BDRM 1	1075.5	1183.75	53	88	88	6	448	6			6
SR-2	MASTER BDRM 2	1075.5	1183.75	53	88	88	6	448	6			6
SR-3	MASTER BDRM 3	1075.5	1183.75	53	88	88	6	448	6			6
SR-4	MASTER BDRM 4	1075.5	1183.75	53	88	88	6	448	6			6
SR-5	MASTER BATH	1881	1318	93	98	98	6	498	6			6
SR-6	READING AREA	1116	1058.5	55	79	79	6	400	6			6
SR-7	WIC	1116	1058.5	55	79	79	6	400	6			6
SR-8	BEDROOM 3	2874	2313	142	172	172	7	643	7			8
SR-9	BATHROOM 3	1242	658	61	49	61	5	449	5			5
SR-10	BATHROOM 2	670	568	33	42	42	5	309	5			5
SR-11	BEDROOM 2 (1)	1216	653	60	48	60	5	439	5			5
SR-12	BEDROOM 2 (2)	1216	653	60	48	60	5	439	5			5
SR-13	BEDROOM 1 (1)	1415	969.5	70	72	72	5	528	5			6
SR-14	BEDROOM 1 (2)	1415	969.5	70	72	72	5	528	5			6
SR-15	ENTERTAINMENT 1	1410	990.5	69	74	74	5	539	5			6
SR-16	ENTERTAINMENT 2	1410	990.5	69	74	74	5	539	5			6
SR-17	FOYER	544	1053	27	78	78	6	398	6			6
SR-18												
SR-19												
SR-20												
		21827	17988	1075	1335	1370						

Supply-side Trunks																						Dsn Cfm	Round Size	Velocity	Final Size	Equivilent Rect. Duct		Equivilent
ID	Associated Supply Runs																									Height	Width	Flex
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20								
ST-1	✓	✓	✓	✓	✓	✓																528	12	672	12	8	14	12
ST-2	✓	✓	✓	✓	✓	✓	✓															684	12	872	14	8	19	14
ST-3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					1335	16	957	18	10	25	18
ST-4																												
ST-5																												
ST-6																												
ST-7																												
ST-8																												

Return-side Runouts																						Dsn Cfm	Round Size	Velocity	Final Size	Equivilent Rect. Duct		Equivilent
ID	Associated Supply Runs																									Height	Width	Flex
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20								
RR-1																												
RR-2																												
RR-3																												
RR-4																												
RR-5																												
RR-6																												
RR-7																												
RR-8																												
RR-9																												
RR-10																												

Return-side Trunks																						Dsn Cfm	Round Size	Velocity	Final Size	Equivilent Rect. Duct		Equivilent
ID	Associated Supply Runs																									Height	Width	Flex
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20								
RT-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					528	12	672	12	10	11	12
RT-2							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					807	14	755	14	10	15	14
RT-3																												
RT-4																												

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PETER KLEIN , ASSOCIATES, INC
ARCHITECTS - BUILDERS - DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

HEAT LOSS CALCULATIONS AND MANUAL D

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

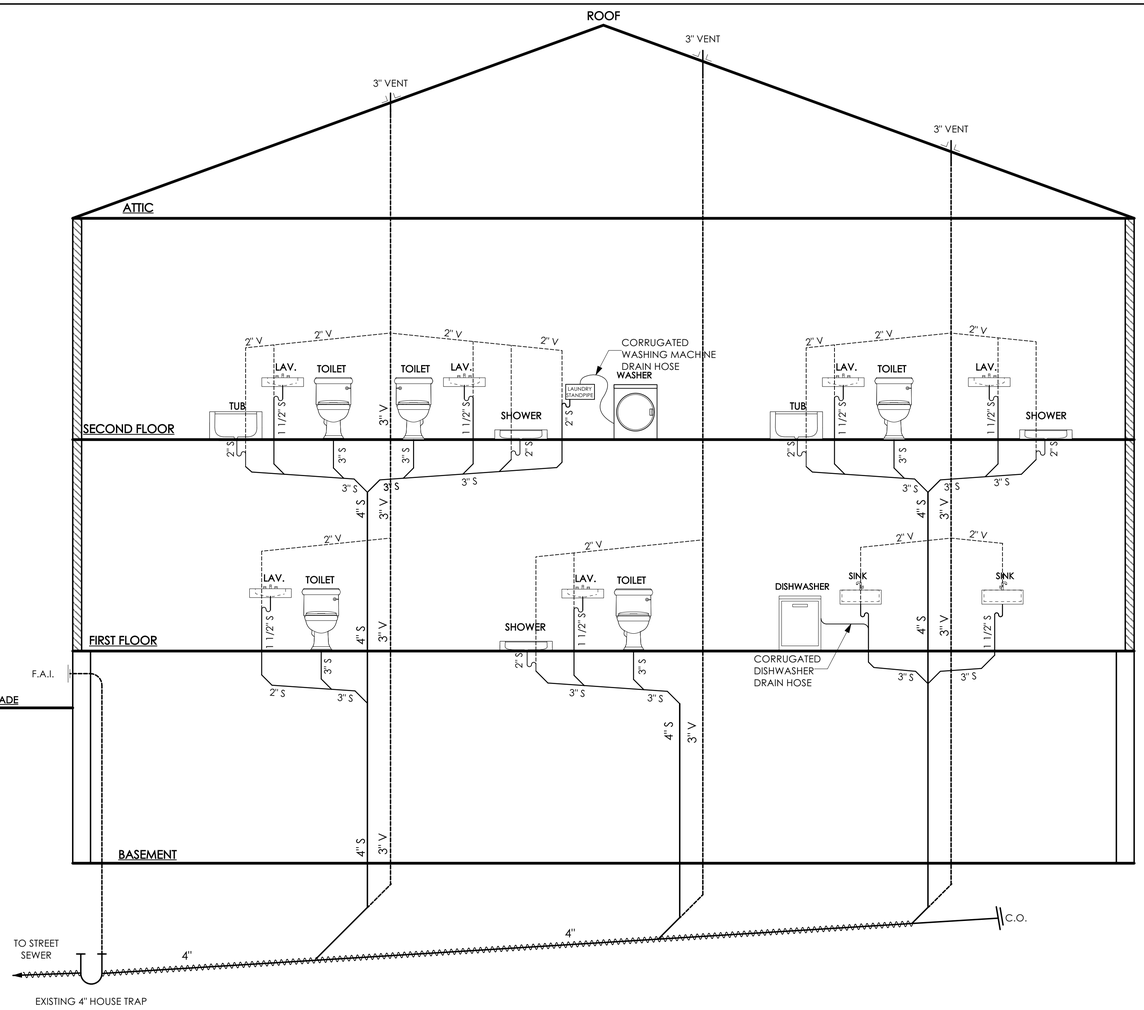
STATE OF CONNECTICUT · PETER KLEIN · No. 9588 · REGISTERED ARCHITECT

DRAWING NO.:

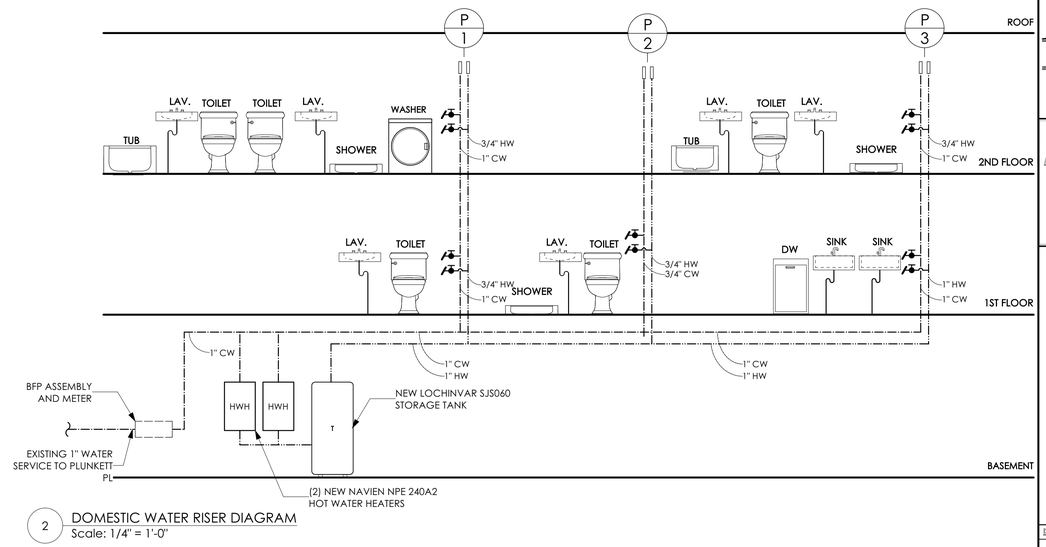
M-202.00

SHEET NO.:

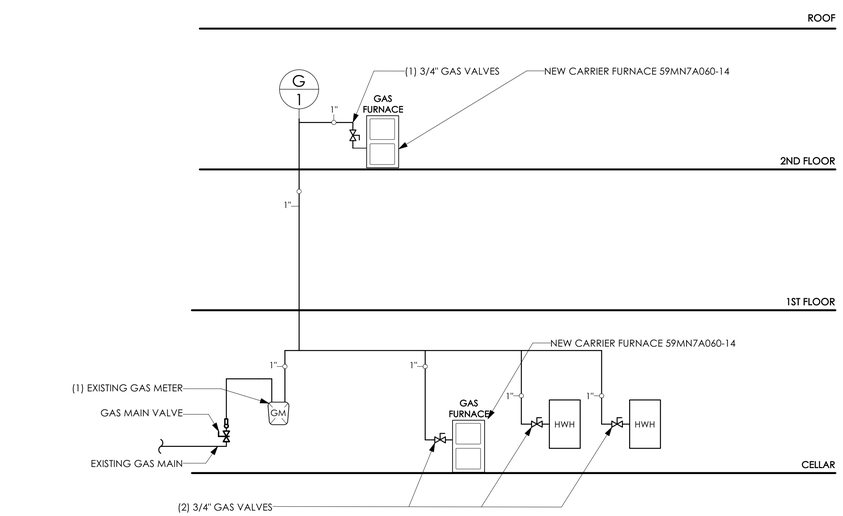
26 OF 36



1 PLUMBING RISER DIAGRAM
Scale: 1/4" = 1'-0"



2 DOMESTIC WATER RISER DIAGRAM
Scale: 1/4" = 1'-0"



3 GAS RISER DIAGRAM
Scale: 1/4" = 1'-0"

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PLUMBING RISER DIAGRAM

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CHECKED BY:	SB

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27 OF 36

NAVIEN NPE-240A2 TANKLESS WATER HEATER

NPE-2 Series

NAVIEN

NPE-A2 and NPE-S2 Condensing Tankless Water Heaters

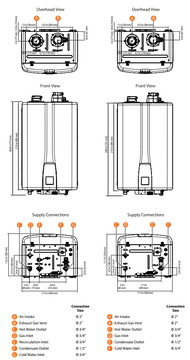
The best selling condensing tankless water heater just got even better

The original Navien NPE is the leading condensing unit on the market and the new NPE-2 will extend that lead with more advancing technology.

THE LEADER IN CONDENSING TECHNOLOGY

Dimensions

NPE-A2



NPE-S2

Connection sizes	NPE-A2	NPE-S2
A Air Intake	4"	4"
B Exhaust Gas Vent	3"	3"
C Hot Water Outlet	3/4"	3/4"
D Gas Inlet	3/4"	3/4"
E Recirculation Inlet	3/4"	3/4"
F Condensate Outlet	1/2"	1/2"
G Cold Water Inlet	3/4"	3/4"

Specifications

Item		NPE-150S2	NPE-180A2	NPE-180S2	NPE-210A2	NPE-210S2	NPE-240A2	NPE-240S2
Heat capacity (input)	Natural gas	18,000–120,000 BTU/H	10,000–150,000 BTU/H		12,000–180,000 BTU/H		13,300–199,900 BTU/H	
Energy factor	UEF (for NG & LP)	0.93	0.95	0.96	0.95	0.96	0.95	0.96
Flow rate (DHW)	35°F (19°C) temp rise	6.8 GPM (26 L/m)	8.4 GPM (32 L/m)		10.1 GPM (38 L/m)		11.2 GPM (42 L/m)	
	40°F (25°C) temp rise	5.3 GPM (20 L/m)	6.5 GPM (25 L/m)		7.8 GPM (30 L/m)		8.7 GPM (33 L/m)	
	67°F (36°C) temp rise	3.4 GPM (13 L/m)	4.3 GPM (16 L/m)	4.4 GPM (17 L/m)	5.1 GPM (19 L/m)	5.3 GPM (20 L/m)	5.6 GPM (21 L/m)	5.8 GPM (22 L/m)
Dimensions		17.3" (W) x 27.4" (H) x 13.2" (D)						
Weight		62 lbs (28 kg)	73 lbs (33 kg)	68 lbs (31 kg)	77 lbs (35 kg)	73 lbs (33 kg)	77 lbs (35 kg)	73 lbs (33 kg)
Installation type		Indoor or outdoor wall-hung						
Venting type		Forced draft direct-vent						
Ignition		Electronic ignition						
Water pressure		15–150 PSI						
Natural gas supply pressure (from source)		3.5" WC–10.5" WC						
Propane gas supply pressure (from source)		8" WC–13" WC						
Natural gas manifold pressure (min-max)		-0.04" WC– -0.40" WC	-0.03" WC– -0.55" WC		-0.03" WC– -0.70" WC		-0.03" WC– -0.96" WC	
Propane gas manifold pressure (min-max)		-0.03" WC– -0.40" WC	-0.02" WC– -0.55" WC		-0.02" WC– -0.79" WC		-0.02" WC– -0.96" WC	
Minimum flow rate		0.5 GPM (1.9 L/m), < 0.01 GPM (0.04 L/m) option for "A2" models*						
Connection sizes	Cold water inlet	3/4" NPT						
	Hot water outlet	3/4" NPT						
	Gas inlet	3/4" NPT						
Power supply	Main supply	120V AC, 60 Hz						
	Maximum power consumption	200 W (max 2 A), 350 W (max 4 A) with external pump connected						
Materials	Casing	Cold rolled carbon steel						
	Heat exchangers	Primary heat exchanger: stainless steel Secondary heat exchanger: stainless steel						
Venting	Exhaust	2" or 3" PVC, CPVC, approved polypropylene and stainless steel 2" or 3" special gas vent type BH (Class II, A/B/C)						
	Intake	2" or 3" PVC, CPVC, approved polypropylene and stainless steel 2" or 3" special gas vent type BH (Class II, A/B/C)						
	Vent clearances	0" to combustibles						
High elevations		10,100 feet for both NG or LP gas. Please refer to Installation Manual for additional details and instructions.						
Safety devices		Flame rod, APS, ignition operation detector, water temperature high limit switch, exhaust temperature high limit sensor, power surge fuse, burner high limit fuse, vent installation detector (VID)						

*Available for "A2" models configured in an optional ComfortFlow® recirculation mode. Energy consumption will increase when the system is configured for recirculation.

Navien reserves the right to change specifications at any time without prior notice.
Please refer to www.Navieninc.com to verify you have the most current information.

AHRI certified

Accessories

NaviLink® Wi-Fi Control PBDM-AS-001	**H2Air® Kit ABO Optimizer** PNBD-500001	**Remote Controller for NPE-2** 30022771B	**Plumb Easy Valve Set (V2) 3/4" with Relief Valve** GXA0002139	**NPE-A/NPE-A2 Plumb Easy 3-Valve Set (V2)** GXCA0002140	**Plumb Easy Valve 3/4" with Relief Valve** (designed to work with pipe cover) 30012581A	**NaviCirc® Recirculation Valve for NPE-A2** **NaviCirc® Kit** PFF W-GXX-001 **NaviCirc® Kit** 30022983A	**HotButton® Components** **Wall Plate** GXA0001427 **Push Button** GXA0001426	**Residential Neutralizer (V2)** 1 unit GXA0002212 **Residential Replacement Media** GXA0001323
Light Commercial Neutralizer GXA0001324 **Light Commercial Replacement Media** GXA0001328	**Commercial Neutralizer** GXA0001325 **Commercial Replacement Media** GXA0001329	**2" and 3" Wall Flange and Vent Terminator Kit** **2" Kit** 30010747A **3" Kit** 30003873B	**PeakFlow S Scale Prevention System** GPWC1100014AC001 **PeakFlowS Replacement Filter** GWFC110GD001	**Common Vent Collar Kit** 30014367B **Includes Cascade Cable** GXA0000546	**Cascade Cable** GXA0000546 **External Pump Wire** GXA0003019	**Vent Cap NPE-2 Series** 30025681A	**Pipe Cover NPE-2 Series** 30025812A **Use with Isolation Valves** 30012581A	**Ready-Link® Rack Base (V3)** GFMKDZUS-005 **Add-on (V3)** GFMKDZUS-006

Navien Inc., 20 Goodyear, Irvine, CA 92618 800-519-8794 Navieninc.com

NAVIEN

THE LEADER IN CONDENSING TECHNOLOGY

NPE2-BR001-2209

LOCHINVAR LOCKTEMP SJS060 STORAGE TANK

Lock-Temp Stainless Steel

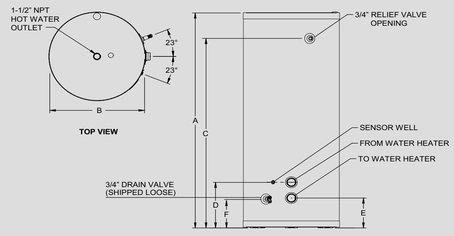
LOCK-TEMP STAINLESS STEEL STORAGE TANKS

- ENERGY-SAVING PERFORMANCE
- 60, 80 AND 119-GALLON CAPACITIES
- EXPANDED FOAM INSULATION
- DIFFUSER TUBE FOR 80% DRAW FACTOR

DESIGNED ★ ENGINEERED ★ ASSEMBLED USA

Lochinvar

LOCK-TEMP® STAINLESS STEEL STORAGE TANK DIMENSIONS AND SPECIFICATIONS



LOCK-TEMP TANK		DIMENSIONS AND SPECIFICATIONS							
Model Number	Gallon Capacity	A	B	C	D	E	F	Recirculation Tappings	Shipping Wt. (lbs.)
SJS060	60	36"	28"	28"	14-1/4"	9-1/4"	9"	1-1/2"	138
SJS080	80	69-1/2"	24"	61-3/4"	14-1/4"	9-1/4"	9"	2"	153
SJS119	119	68-1/4"	28"	60-1/4"	14-1/2"	9-1/2"	9"	2"	198

STANDARD FEATURES

Light-weight 316L stainless steel tank construction
Diffuser tube to reduce turbulance and increase stratification
150 PSI working pressure
Exceeds ASHRAE Energy Efficiency Standards
Textured, impact resistant polypropylene jacket
Bulbwell for control sensor
3/4" brass drain valve
10 year limited tank warranty

All models standard with a 10 year Limited Warranty against tank failure.

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice. Dimensions are approximate and should not be used for construction purposes.

Lochinvar®

Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
Phone: (615) 547-1200
Lochinvar.com

CSA US LOW LEAD CONTENT

LTS-01 (reprint 10/14) (8/22 Wesite update) ASB-500-5/21–Printed in U.S.A.

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NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

SPECIFICATIONS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT PETER KLEIN No. 9558 REGISTERED ARCHITECT

DRAWING NO.:

P-002.00

SHEET NO.: 28 OF 36

FOUNDATION & CONCRETE NOTES

F.1 NO BACK FILLING SHALL BE DONE UNTIL THE FOUNDATION WALLS HAVE BEEN BRACED AND WATERPROOFING HAS BEEN APPLIED.

F.2 ALL FOOTINGS ARE TO BE CARRIED DOWN TO A MINIMUM OF 3'-6" BELOW ADJACENT FINISHED GROUND LEVEL WHEN EXPOSED TO FROST, BELOW HOUSE DRAINS AND DOWN TO VIRGIN SOIL.

F.3 WHEN EXCAVATIONS ARE 5'-0" OR GREATER IN DEPTH FROM THE LEVEL OF ADJACENT GROUND, THE SIDES SHALL BE SHORED.

F.4 PROVIDE GUARD RAILS OR A FENCE AT EXCAVATIONS.

F.5 EXCAVATIONS SHALL BE SUBSTANTIALLY KEPT FREE OF WATER DURING FOUNDATION CONSTRUCTION.

F.6 ALL CONCRETE USED ON THIS PROJECT TO BE PROPORTIONED ON THE BASIS OF CALCULATED STRESSES LESS THAN 70% OF BASIC ALLOWABLE VALUES.

F.7 CONCRETE MATERIALS, DESIGN, AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NYC BUILDING CODE & ACI STANDARD.

F.8 CONCRETE IS TO BE PROVIDED ON THE BASIS OF A PREQUALIFIED OR PREVIOUSLY ACCEPTED MIX. THE CONCRETE MIX IS TO EXHIBIT A STRENGTH AT LEAST 25% HIGHER THAN THE SPECIFIED VALUE. QUALITY CONTROL OF CONCRETE IS TO BE PROVIDED AT THE BATCH PLANT. THE RESULTS OF QUALITY CONTROL AND INSPECTION ARE TO APPEAR ON THE TICKET ACCOMPANYING EACH LOAD OF CONCRETE.

F.9 CONCRETE WHICH IN ITS FINAL STATE WILL BE EXPOSED TO THE ACTION OF FREEZING WEATHER AND ALL CONCRETE FOR GARAGE, FLOORS, ENTRANCE, PLATFORMS, STEPS AND PORCH FLOORS, RETAINING WALLS, SHALL HAVE MIX DESIGN WITH THE ENTRAINED AIR TO PROVIDE A CONCRETE WITH A MAXIMUM RESISTANCE TO FREEZING AND THAWING WEAR FOR THE AGGREGATE AND CEMENT USED.

F.10 CELLAR FLOOR SLAB SHALL BE MINIMUM 4" CONCRETE SLAB (NATURAL AGGREGATE CONCRETE CONFORMING TO ASTM A-33 WITH A MINIMUM 28 DAY STRENGTH OF 4,000 P.S.I.) PLACED ON 4" MINIMUM WELL COMPACTED GRAVEL OF CRUSHED STONE FILL AND REINFORCED WITH 6x6 W1.4XW1.4 WELDED WIRE FABRIC PLACED 1" BELOW TOP OF SLAB. PROVIDE VAPOR BARRIER BELOW SLAB ON GRADE.

F.11 SLABS ON GROUND SHALL BE POURED IN ALTERNATE PANELS OF 600 S.F. MAXIMUM IN AREA AND IN A CHECKERBOARD FASHION TO MINIMIZE SHRINKAGE. BACKFILL AT PIERS AND OVER FOOTINGS SHALL BE COMPACTED THOROUGHLY.

F.12 CONCRETE TO DEVELOP A MINIMUM STRENGTH OF 4,000 PSI AT 28 DAYS.

F.13 GARAGE SLAB AND CONCRETE EXPOSED TO WEATHER SHALL BE 4,000 PSI AT 28 DAYS.

F.14 ALL CONCRETE SLAB SHALL BE MINIMUM 4" THICK, AND SHALL BE REINFORCED WITH 6X6 W1.4 X W1.4 WWF.

F.15 REINFORCEMENT BARS SHALL BE FY=60,000 PSI & CONFORM TO ASTM A615, LATEST EDITION.

F.16 FOUNDATION WALLS AND FOOTINGS TO REST UPON 3 TONS/SQ.FT OF VIRGIN SOIL, TO BE VERIFIED BY THE SPECIAL INSPECTOR AND/OR PROJECT ENGINEER AFTER EXCAVATION AND BEFORE FOOTINGS ARE PLACED.

F.17 UNLESS OTHERWISE NOTED, ALL CONCRETE FOOTINGS TO BE 12" THICK.

F.18 PLAIN CONC. TO HAVE A MIN. CEMENT FACTOR OF 5 BAGS PER CU. YD. CONC. MAX. 8-1/2 GAL WATER/BAG OF CEM. AND DEVELOP A STRENGTH OF 4,000 PSI WHEN TESTED. PROVIDE AT LEAST 3 TEST CYLINDERS FOR EACH DAY OF POURING TESTED.

F.19 WHERE MORE THAN 50 CU. YD. OF AVERAGE CONC. ARE PLACED IN ANY STRUCTURE , A P.E. SHALL SUPERVISE THE TESTING. WHERE STEEL WIRE MESH IS USED, CONC. MIX SHALL BE ONE PART CEMENT, TWO PARTS SAND AND FIVE PARTS COARSE AGGREGATE. WIRE MESH MIN. TENSILE STRENGTH 55,000 PSI

F.20 FOUNDATION WALLS BELOW GRADE TO BE WATERPROOFED WITH BITUMINOUS COATING OR EQUAL.

F.21 WHEN UNDERPINNING IS REQUIRED, NO WORK TO BE STARTED UNTIL SEPARATE APPLICATION OR AMENDMENT RELATING TO UNDERPINNING IS APPROVED.

F.22 FOOTING TO BE STEPPED AT A MAX. OF 30 DEGREE SLOPE SO AS NOT TO EXERT ANY LATERAL PRESSURE ON ADJACENT FOOTINGS OR FOUNDATION WALLS.

F.23 FOR EACH CLASS OF CONC. PLACED ON ANY ONE DAY 3 STANDARD ACCEPTANCE CYLINDERS SHALL BE MADE FOR TESTING.

F.24 THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER AND/OR THE FOUNDATION CONTRACTOR SHALL BE SOLELY AND FULLY RESPONSIBLE FOR ALL EXCAVATION WORK INCLUDING BUT NOT LIMITED TO THE DESIGN, INSTALLATION AND MAINTENANCE OF SHEETING AND SHORING, PROTECTION OF SLOPES, UNDERPINNING AND DEWATERING.

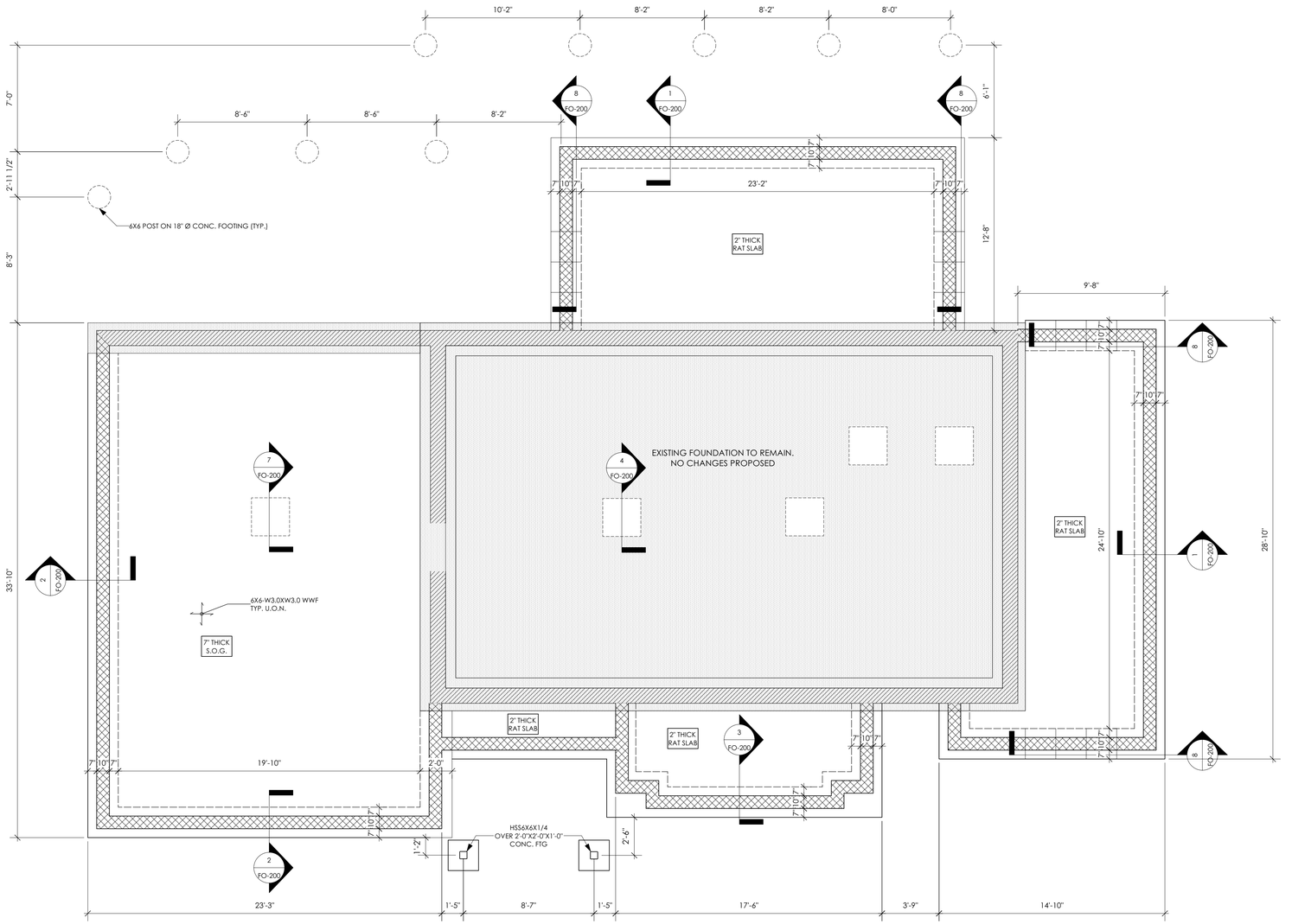
F.25 THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER AND/OR THE FOUNDATION CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO DESIGN ALL SHEETING AND SHORING, UNDERPINNING AND DEWATERING SYSTEMS.

F.26 THE SLOPE BETWEEN ADJACENT FOOTING BOTTOMS SHALL NOT EXCEED 1 VERTICAL TO 1 HORIZONTAL.

F.27 FOUNDATION WALLS AND/OR GRADE BEAMS SHALL BE CAST IN ALTERNATE PANELS NOT TO EXCEED 60 FEET IN LENGTH. CONSTRUCTION JOINTS SHALL BE PLACED AT POINTS OF MINIMUM SHEAR, GENERALLY AT MIDSPAN. ALLOW 7 DAYS MINIMUM BETWEEN ADJACENT POURS.

F.29 FOUNDATION WALLS AND/OR GRADE BEAMS, SHALL BE TEMPORARILY BRACED LATERALLY TO RESIST EARTH PRESSURE, WIND, CONSTRUCTION LOADS AND OTHER LATERAL LOADS UNTIL FRAMED SLABS AND SLABS ON GRADE THAT PERMANENTLY BRACE THESE WALLS AND/OR GRADE BEAMS HAVE BEEN IN PLACE 28 DAYS (MINIMUM).

F.30 TRUCKS, BULLDOZERS OR OTHER HEAVY EQUIPMENT SHALL NOT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL BEFORE THE COMPLETE STRUCTURAL FRAME IS IN PLACE.



1 FOUNDATION PLAN
Scale: 1/4" = 1'-0"

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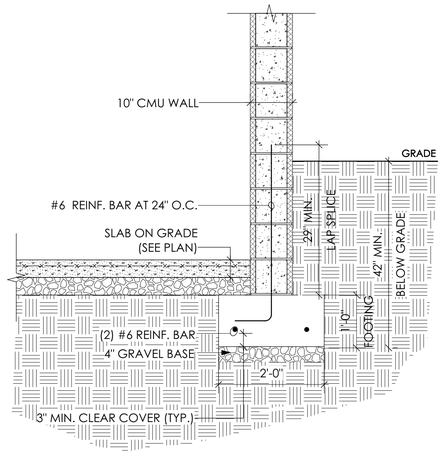
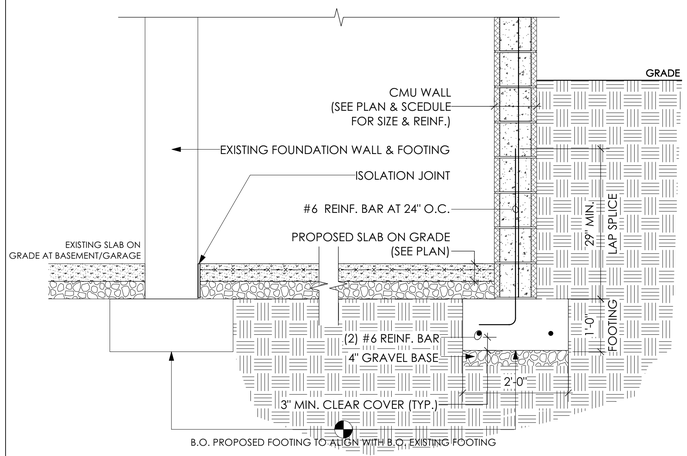
SHEET NO.:

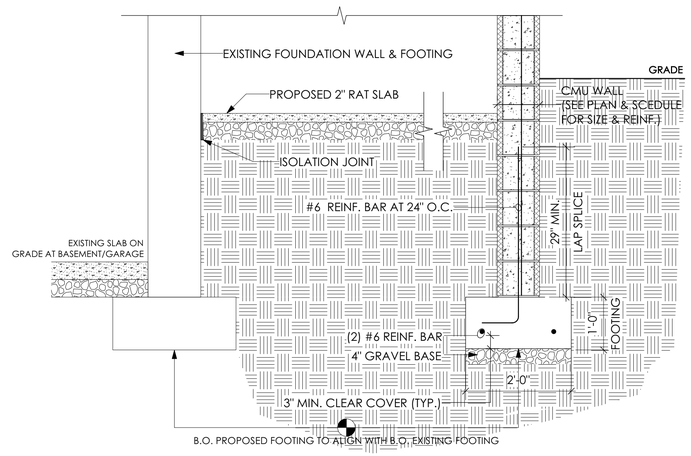
29 OF 36



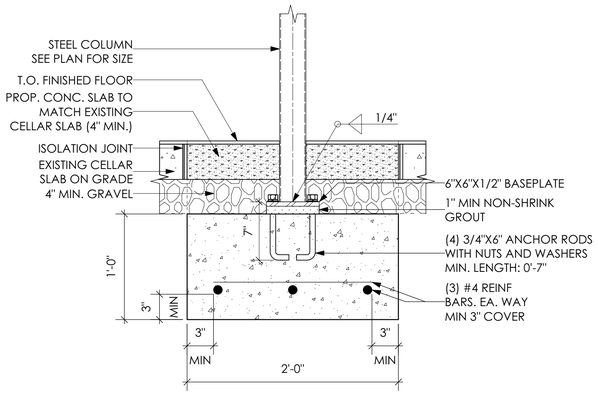
1 CONC. FOUNDATION WALL DETAIL
Scale: 3/4" = 1'-0"



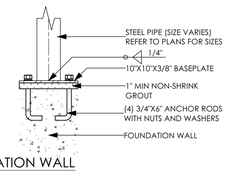
2 PROPOSED FOOTING AT EXISTING GARAGE LEVEL
Scale: 3/4" = 1'-0"



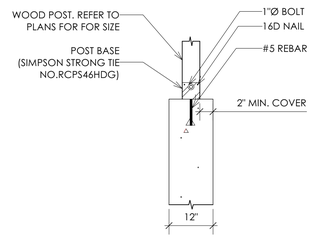
3 PROPOSED FOUNDATION AT RAT SLAB
Scale: 3/4" = 1'-0"



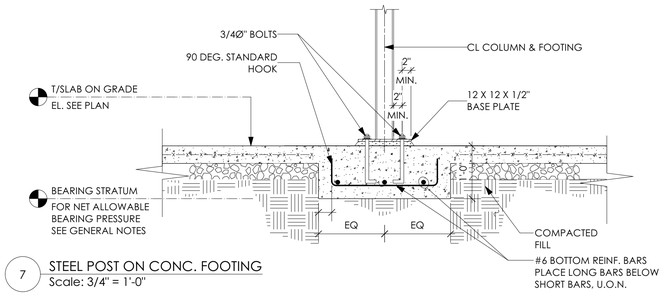
4 STEEL POST FOOTING AT EXISTING SLAB
Scale: 1 1/2" = 1'-0"



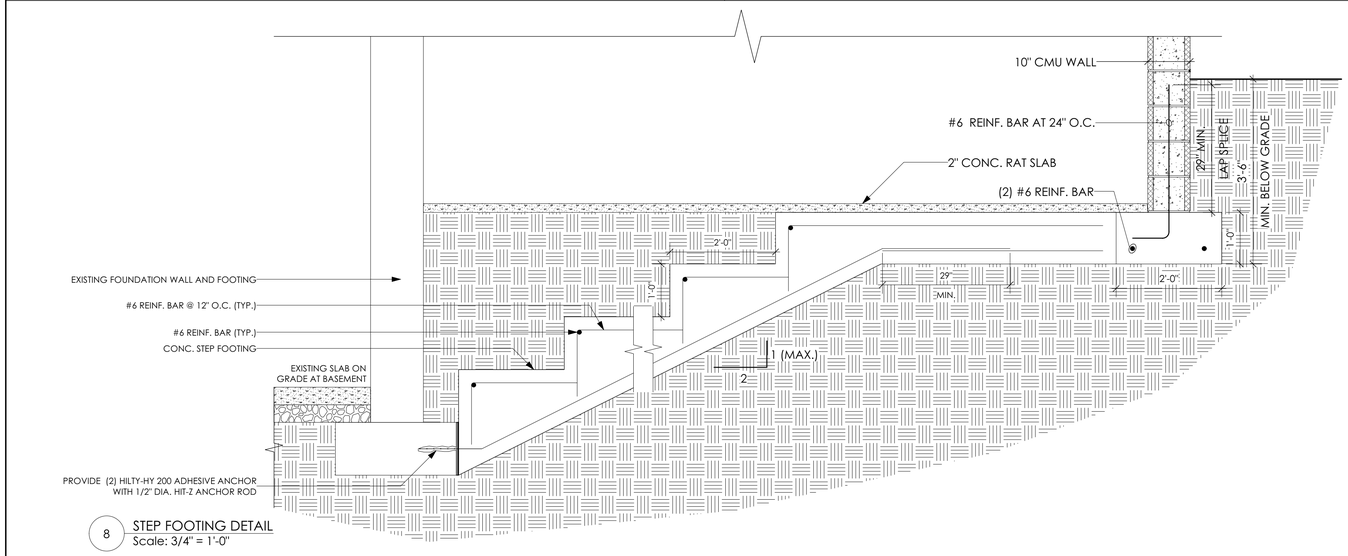
5 STEEL PIPE ON CONC. FOUNDATION WALL
Scale: 1" = 1'-0"



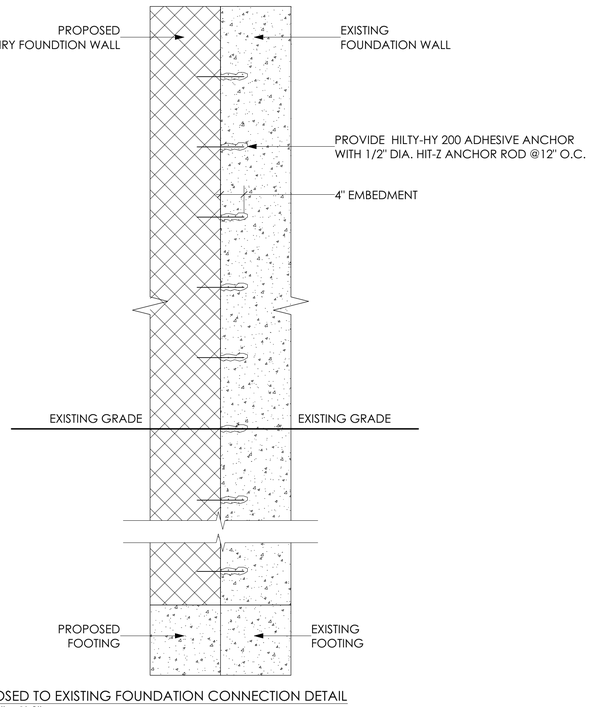
6 WOOD POST ON CONC. FOUNDATION WALL DETAIL
Scale: 3/4" = 1'-0"



7 STEEL POST ON CONC. FOOTING
Scale: 3/4" = 1'-0"



8 STEP FOOTING DETAIL
Scale: 3/4" = 1'-0"



9 PROPOSED TO EXISTING FOUNDATION CONNECTION DETAIL
Scale: 1" = 1'-0"

BADALY

ENGINEERING DESIGN:

BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
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PETER KLEIN , ASSOCIATES, INC
ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

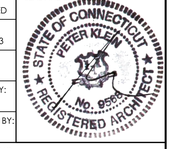
1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

FOUNDATION DETAILS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

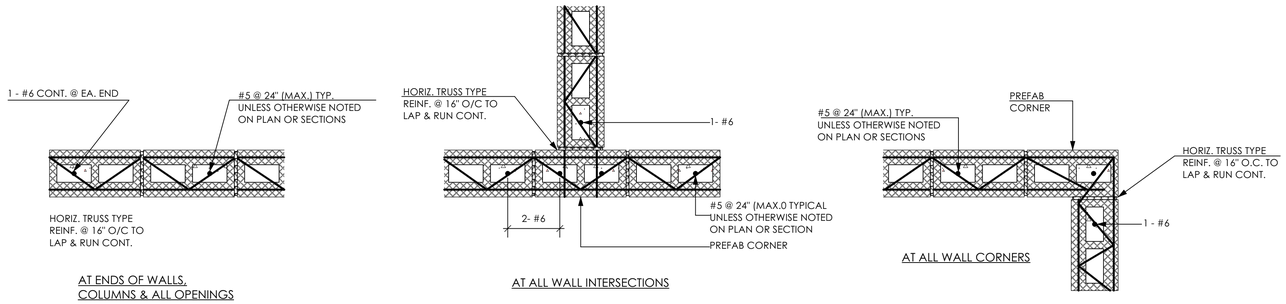


DRAWING NO.:

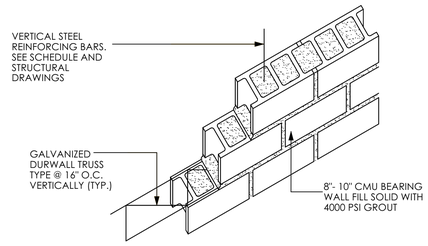
FO-200.00

SHEET NO.:

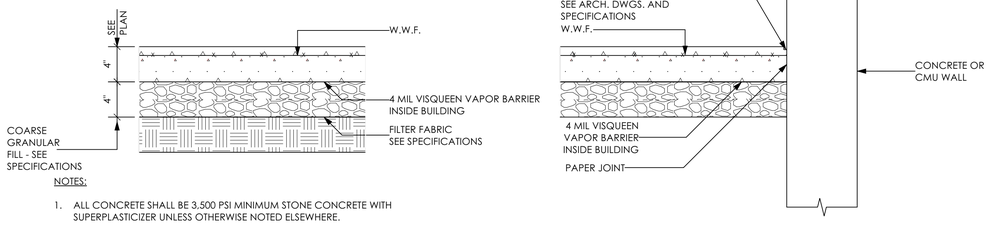
30 OF 36



1 TYPICAL CMU WALL REINFORCEMENT DETAILS
Scale: 1" = 1'-0"



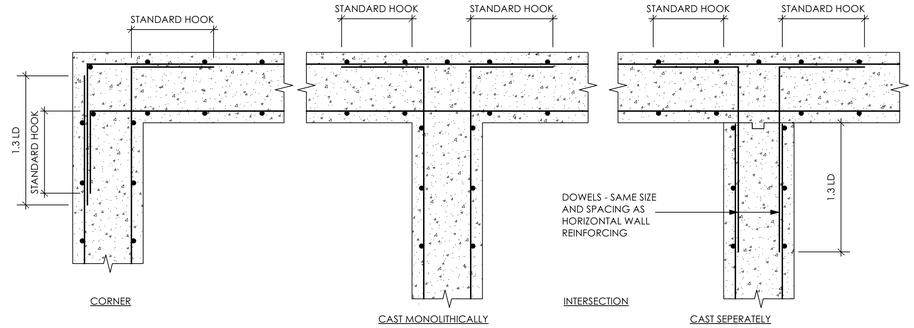
2 REINFORCED CONCRETE BLOCK WALL
Scale: 1/4" = 1'-0"



NOTES:

1. ALL CONCRETE SHALL BE 3,500 PSI MINIMUM STONE CONCRETE WITH SUPERPLASTICIZER UNLESS OTHERWISE NOTED ELSEWHERE.
2. THE CONTRACTOR SHALL SUBMIT PROPOSED METHOD OF CURING AND APPROPRIATE CURING PRODUCT SPECIFICATIONS.
3. CURING OF CONCRETE IS TO START AS SOON AS FINISH WILL NOT BE MARRED THEREBY. IT WILL NOT BE PERMISSIBLE TO DELAY THE CURING UNTIL THE MORNING AFTER THE CONCRETE IS CAST.
4. THE CONTRACTOR SHALL SUBMIT A DRAWING FOR ARCHITECT'S REVIEW INDICATING THE SIZE AND LOCATION OF WELDED WERE FABRIC, THE DETAILS AND LOCATIONS OF SPLICES AND THE LOCATION OF ALL JOINTS (CONSTRUCTION AND.OR EXPANSION AND/OR CONTROL).

3 SLAB-ON-GRADE DETAIL
Scale: 1" = 1'-0"



4 CONCRETE WALL & FOOTING CORNER & INTERSECTION DETAIL
Scale: 1" = 1'-0"

DIMENSIONS "Ld" AS NOTED ON DRAWINGS SHALL BE AS FOLLOWS:

BEAMS		
BAR SIZE	BOTTOM BARS	TOP BARS
#3	15	19
#4	19	25
#5	24	31
#6	29	37
#7	42	54
#8	48	62
#9	54	70
#10	60	78
#11	66	85

COLUMNS	
BAR SIZE	Ld
#3	15
#4	19
#5	24
#6	29
#7	42
#8	48
#9	54
#10	60
#11	66

WALLS		
BAR SIZE	VERTICAL BARS	HORIZONTAL BARS
#3	15	19
#4	19	25
#5	24	31
#6	29	37
#7	42	54
#8	48	62
#9	54	70
#10	60	78
#11	66	85

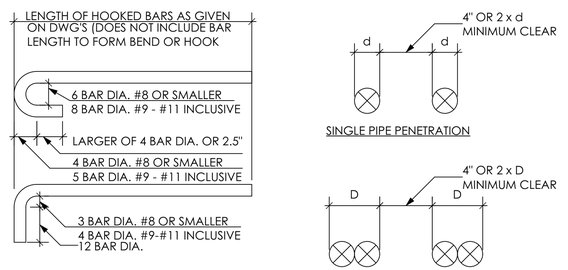
SLABS/MATS			
BAR SIZE	THICKNESS 12" OR LESS	THICKNESS GREATER THAN 12" BARS	
	ALL BARS	BOTTOM BARS	TOP BARS
#3	15	15	19
#4	19	19	25
#5	24	24	31
#6	29	29	37
#7	42	42	54
#8	48	48	62
#9	54	54	70
#10	60	60	78
#11	66	66	85

TABLE ASSUMPTIONS:
1. CONCRETE f'c = 4 KSI
2. REINFORCING BAR fy = 60 KSI
3. A MINIMUM CLEAR COVER PROVIDED AS PER ACI 318 SECTION 7.7
4. NORMAL WEIGHT CONCRETE
5. MINIMUM BAR CLEAR SPACING SHALL SATISFY EITHER ≥ 2 X BAR DIAMETER OR ≥ 1 X BAR DIAMETER WITH ACI 318 CODE MINIMUM STIRRUPS OR TIES SO AS TO NOT QUALIFY AS 'OTHER CASES' IN ACI 318 SECTION 12.2.

FOR:
- f'c = 3 KSI Ld = 1.15 x TABLE VALUE
- f'c = 4 KSI Ld = 1.00 x TABLE VALUE
- f'c = 5 KSI Ld = 0.89 x TABLE VALUE
- f'c = 6 KSI Ld = 0.82 x TABLE VALUE
- f'c = 8 KSI Ld = 0.71 x TABLE VALUE

NOTES:
1. CLEAR COVER SHALL NOT BE LESS THAN BAR DIAMETER
2. FOR LAP SPLICES, MULTIPLY TABULATED VALUE BY 1.3
3. FOR LIGHT WEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3
4. FOR EPOXY COATED BARS, MULTIPLY THE TABULATED VALUES BY 1.5
5. FOR BARS NOT MEETING CLEAR SPLACING REQUIREMENT AS INDICATED IN THE TABLE ASSUMPTIONS AND THEREFORE CONSIDERED 'OTHER CASES', MULTIPLY THE TABULATED VALUE BY 1.5
6. COMBINATIONS OF EFFECTS DUE TO CONCRETE STRENGTH, CONCRETE WEIGHT, EPOXY BARS, AND BAR CLEAR SPACING ARE CUMULATIVE. 'Ld' SHALL BE MULTIPLIED BY EACH FACTOR TO FIND THE CORRECT VALUE
7. ACI DOES NOT PERMIT LAP SPLICES OF #14 OR #18 BARS. BARS OF THIS SIZE SHALL COUPLED BY ACCEPTABLE MECHANICAL MEANS

5 REBAR DEVELOPMENT & SPLICE LENGTH IN STRUCTURAL CONCRETE
Scale: 1" = 1'-0"



6 REBAR HOOK DETAILS
Scale: 1" = 1'-0"

BADALY
ENGINEERING DESIGN:
BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
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PDLPARCHITECTURE@HOTMAIL.COM

PETER KLEIN , ASSOCIATES, INC
ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

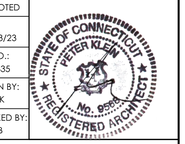
1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

CONC. & MASONRY DETAILS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:



DRAWING NO.:

FO-210.00

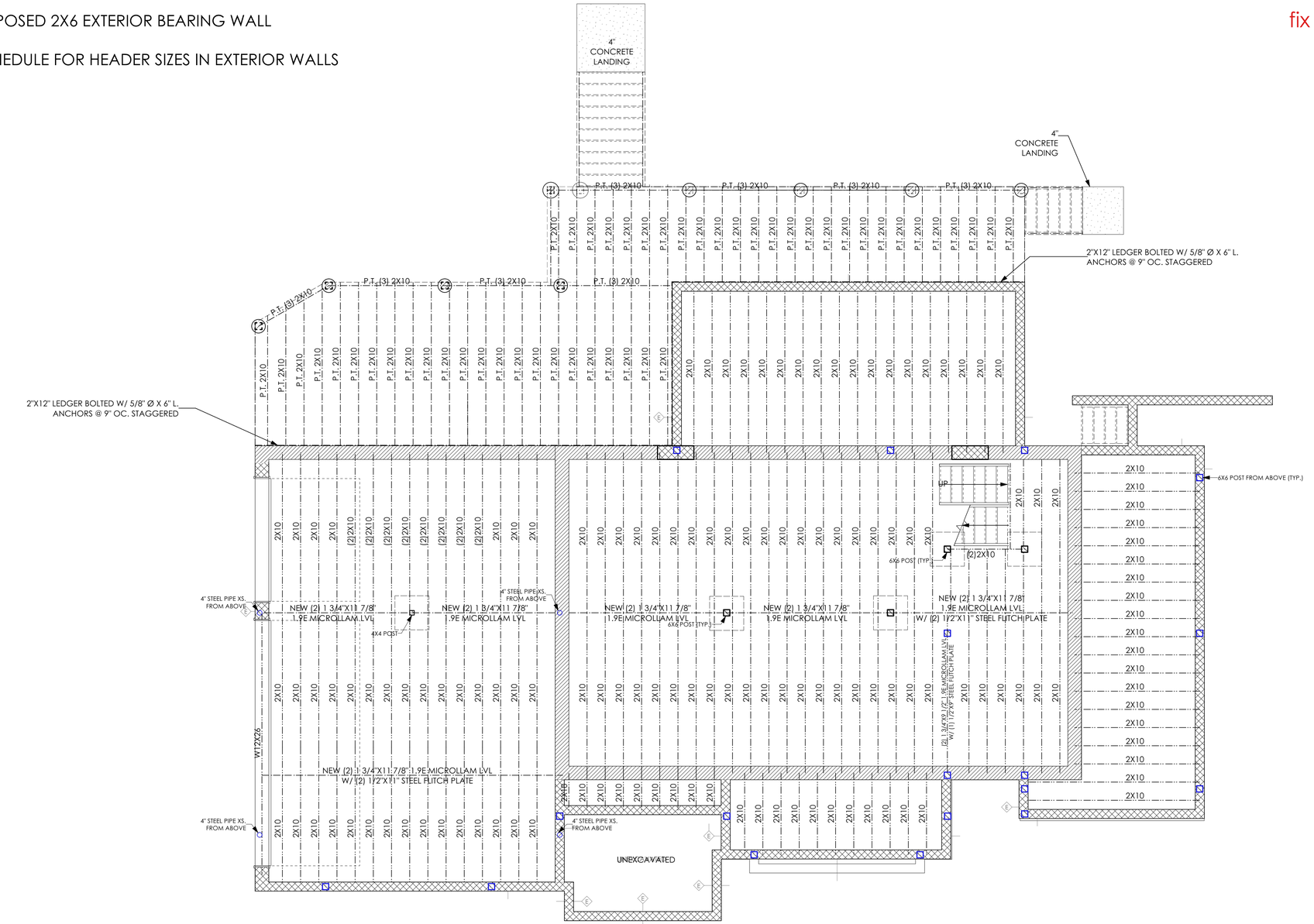
SHEET NO.:

31 OF 36

STRUCTURAL PLAN NOTES:

1. ALL WOOD MEMBERS TO BE #2DF-L OR BETTER, UNLESS OTHERWISE NOTED
2. ALL WOOD JOISTS TO BE AT MAX 16" O.C. SPACING, UNLESS OTHERWISE NOTED
3. ////// INDICATES PROPOSED 2X6 EXTERIOR BEARING WALL
4. REFER TO WINDOW SCHEDULE FOR HEADER SIZES IN EXTERIOR WALLS

fix



1 FIRST FLOOR STRUCTURAL PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

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ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

FIRST FLOOR STRUCTURAL PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT PETER KLEIN No. 9568 REGISTERED ARCHITECT

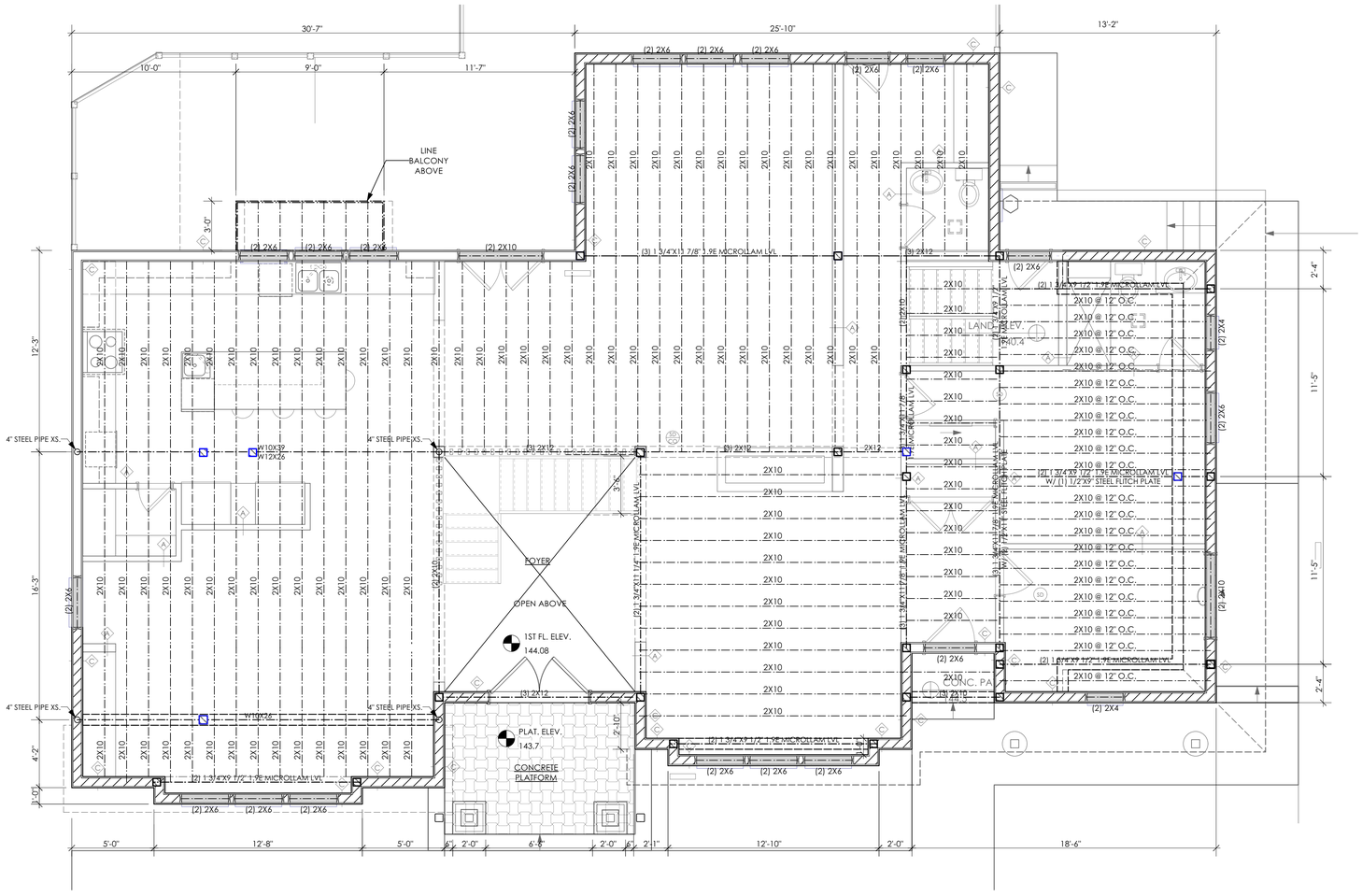
DRAWING NO.:

S-101.00

SHEET NO.: 32 OF 36

STRUCTURAL PLAN NOTES:

1. ALL WOOD MEMBERS TO BE #2DF-L OR BETTER, UNLESS OTHERWISE NOTED
2. ALL WOOD JOISTS TO BE AT MAX 16" O.C. SPACING, UNLESS OTHERWISE NOTED
3. ////// INDICATES PROPOSED 2X6 EXTERIOR BEARING WALL
4. REFER TO WINDOW SCHEDULE FOR HEADER SIZES IN EXTERIOR WALLS



1 SECOND FLOOR STRUCTURAL
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

BADALY ENGINEERING PLLC
2 WILSON PLACE, MT. VERNON, NY 10550
(914) 465-9010 BADALY.COM

CONSULTANT

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PETER KLEIN , ASSOCIATES, INC
ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

SECOND FLOOR STRUCTURAL PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9584 · REGISTERED ARCHITECT

DRAWING NO.:

S-102.00

SHEET NO.:

33 OF 36

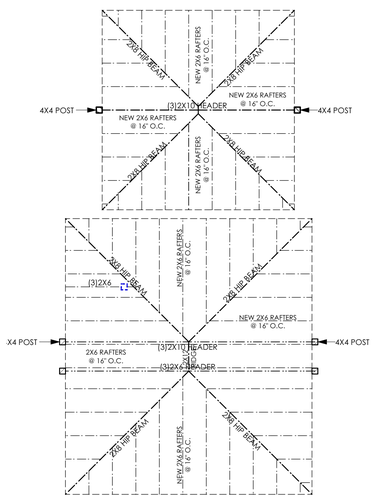
STRUCTURAL PLAN NOTES:

1. ALL WOOD MEMBERS TO BE #2DF-L OR BETTER, UNLESS OTHERWISE NOTED

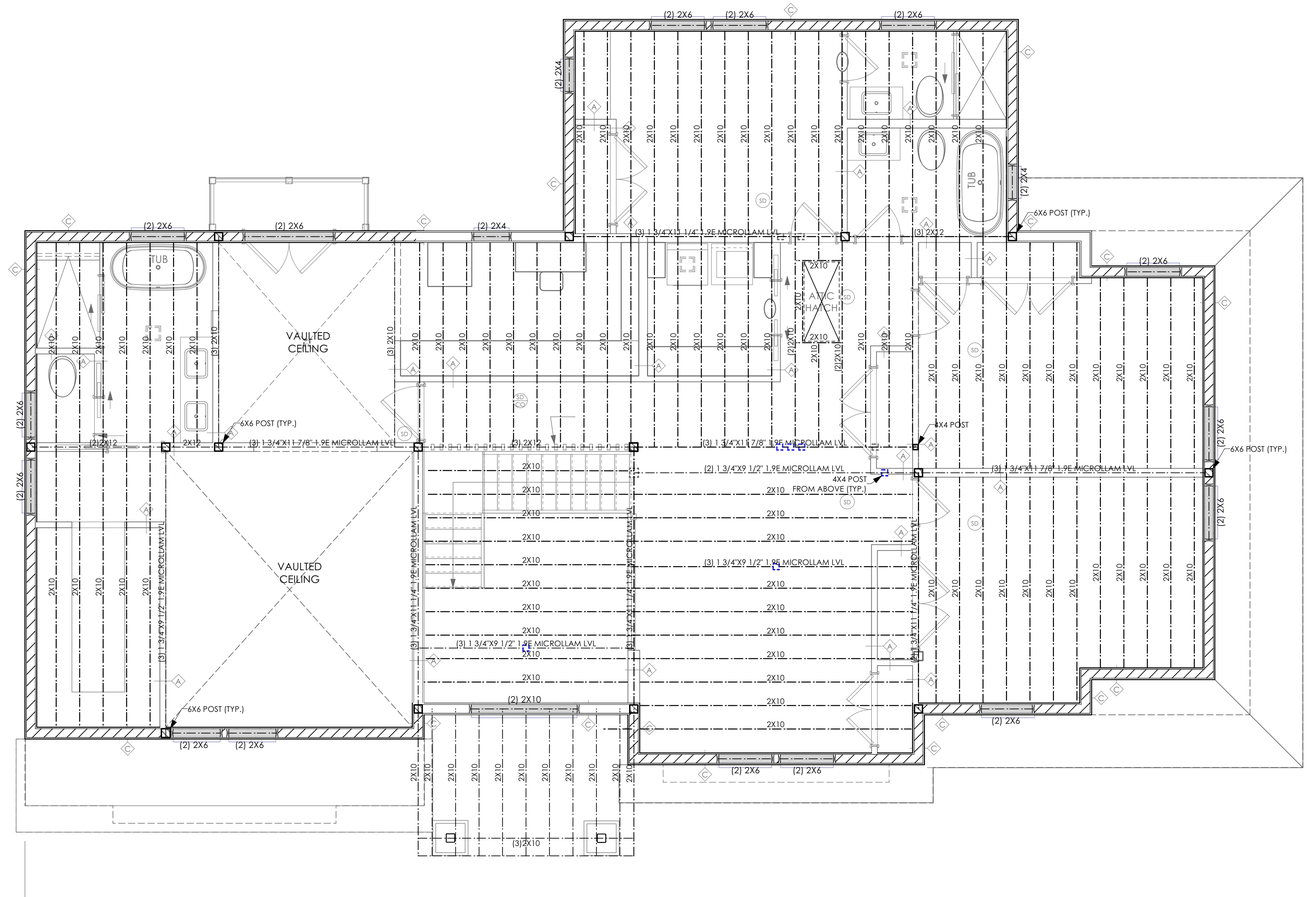
2. ALL WOOD JOISTS TO BE AT MAX 16" O.C. SPACING, UNLESS OTHERWISE NOTED

3. ▨ INDICATES PROPOSED 2X6 EXTERIOR BEARING WALL

4. REFER TO WINDOW SCHEDULE FOR HEADER SIZES IN EXTERIOR WALLS



VAULTED CEILING FRAMING PLAN



1 ATTIC STRUCTURAL PLAN
Scale: 1/4" = 1'-0"

BADALY

ENGINEERING DESIGN:

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PETER KLEIN , ASSOCIATES, INC
ARCHITECTS • BUILDERS • DEVELOPERS
CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

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REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

ATTIC STRUCTURAL PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9868 · REGISTERED ARCHITECT

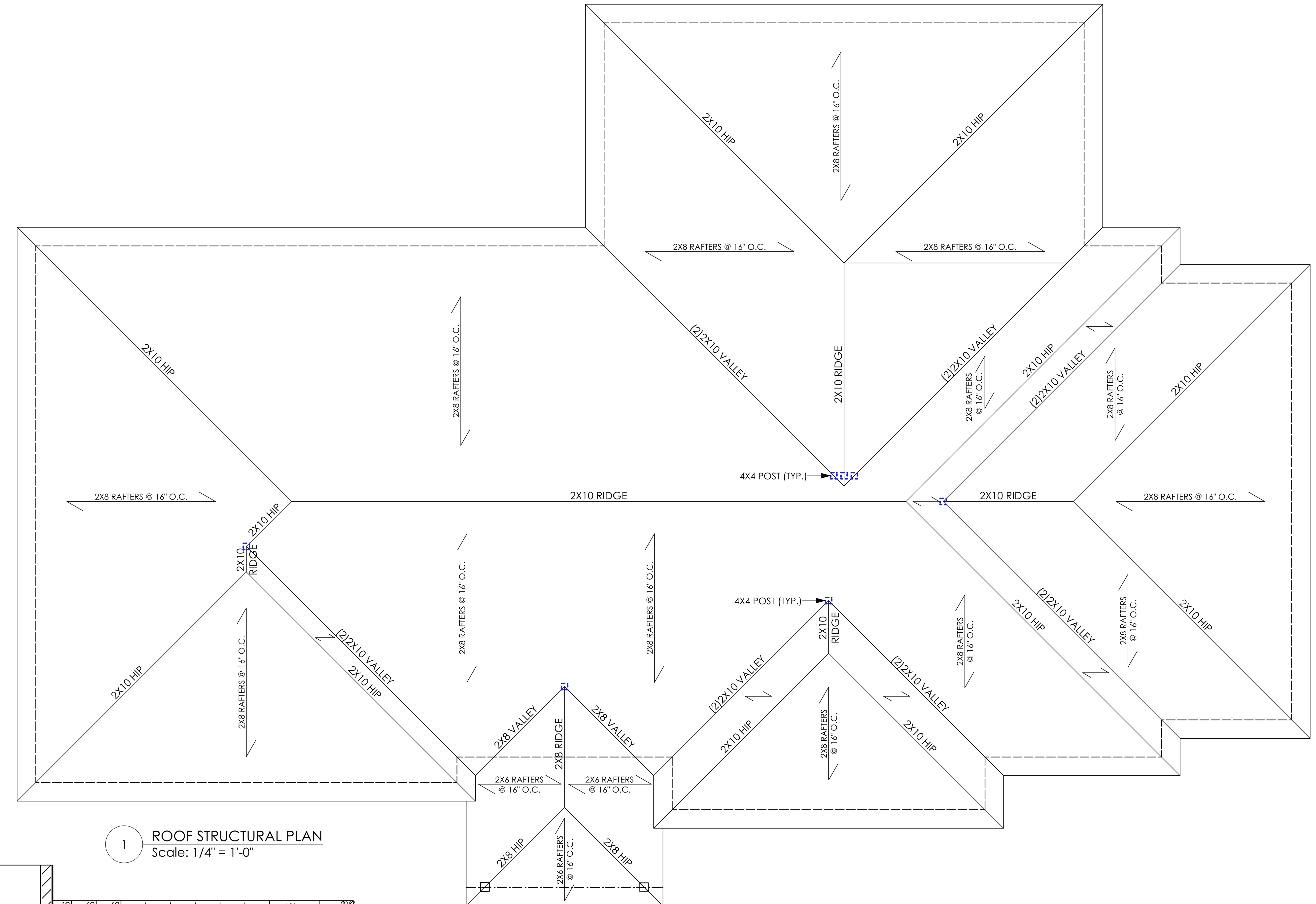
DRAWING NO.:

S-103.00

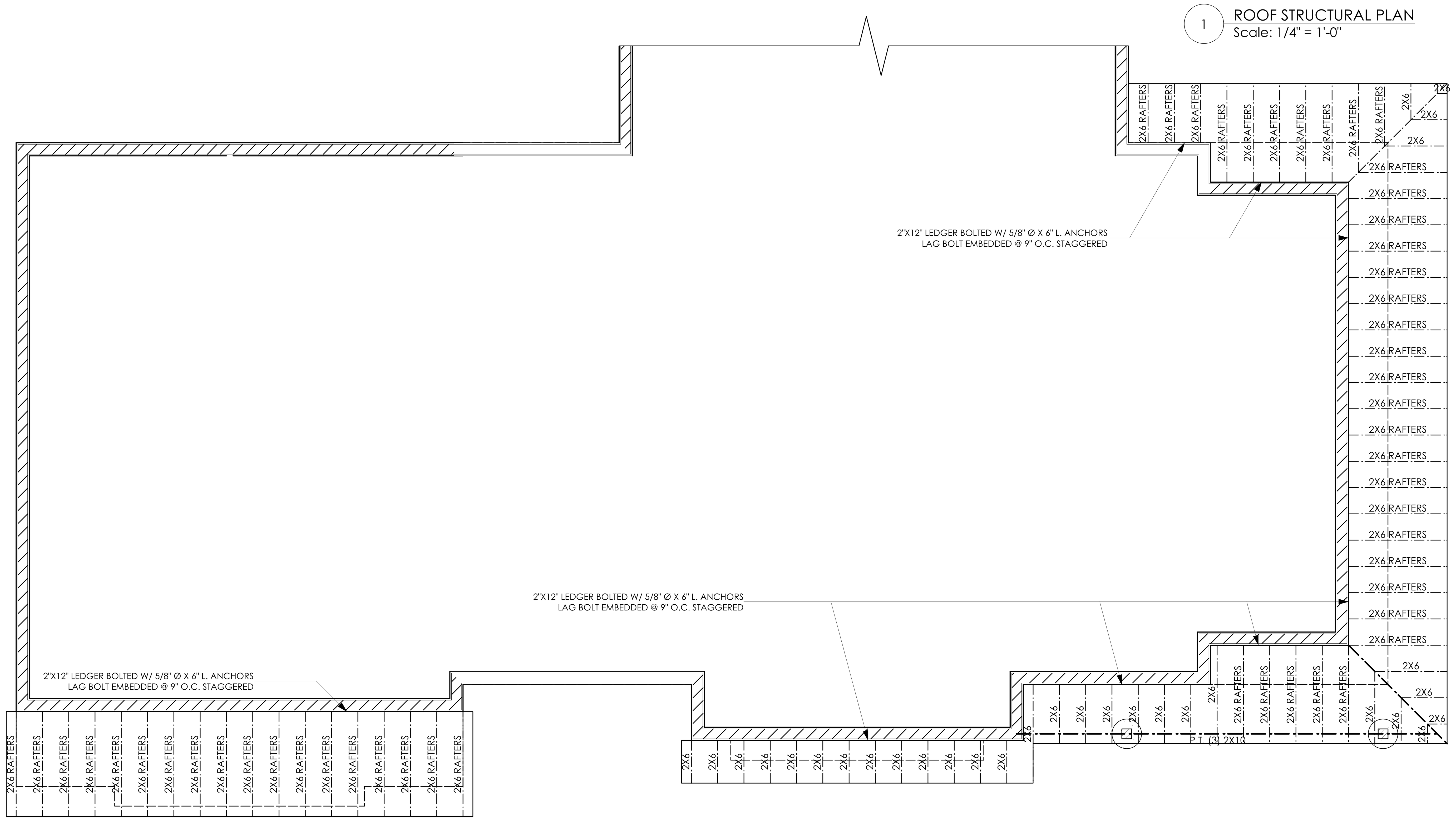
SHEET NO.: 34 OF 36

STRUCTURAL PLAN NOTES:

1. ALL WOOD MEMBERS TO BE #2DF-L OR BETTER, UNLESS OTHERWISE NOTED
2. ALL WOOD JOISTS TO BE AT MAX 16" O.C. SPACING, UNLESS OTHERWISE NOTED
3. [hatched symbol] INDICATES PROPOSED 2X6 EXTERIOR BEARING WALL
4. REFER TO WINDOW SCHEDULE FOR HEADER SIZES IN EXTERIOR WALLS



1 ROOF STRUCTURAL PLAN
Scale: 1/4" = 1'-0"



2 LOWER ROOF PLAN
Scale: 1/4" = 1'-0"

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ENGINEERING DESIGN:

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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

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REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

ROOF STRUCTURAL PLAN

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

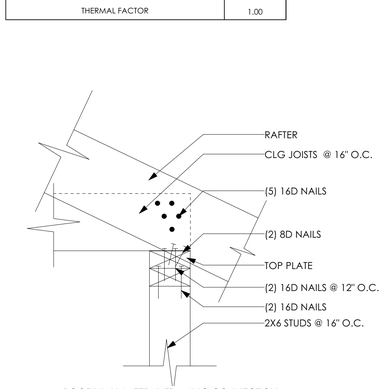
SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · REGISTERED ARCHITECT

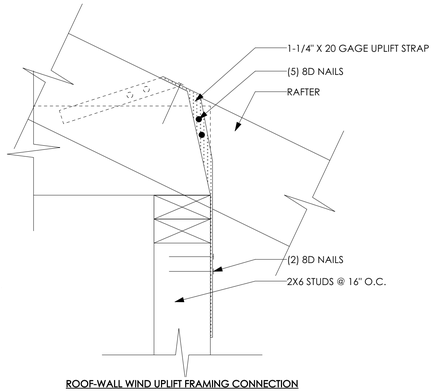
DRAWING NO.: S-104.00

GRAVITY LOADING CRITERIA	VALUE
DEAD LOAD (ALL FLOORS)	10 PSF
LIVE LOAD (LIVING AREAS)	40 PSF
LIVE LOAD (SLEEPING AREAS)	30 PSF
LIVE LOAD (ATTIC STORAGE AREAS)	20 PSF

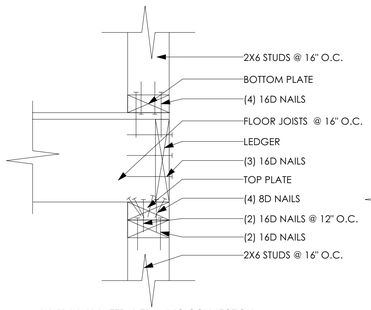
SNOW LOADING CRITERIA	VALUE
GROUND SNOW LOAD, P_g	30 PSF
FLAT ROOF SNOW LOAD, P_f	30 PSF
SNOW LOAD IMPORTANCE FACTOR, I.	1.00
SNOW EXPOSURE FACTOR	1.00
THERMAL FACTOR	1.00



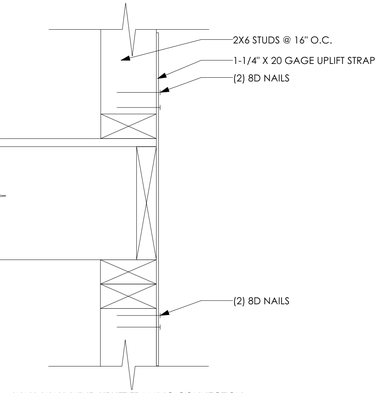
ROOF-WALL LATERAL FRAMING CONNECTION



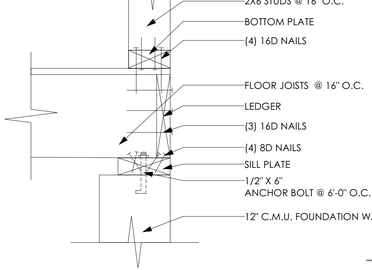
ROOF-WALL WIND UPLIFT FRAMING CONNECTION



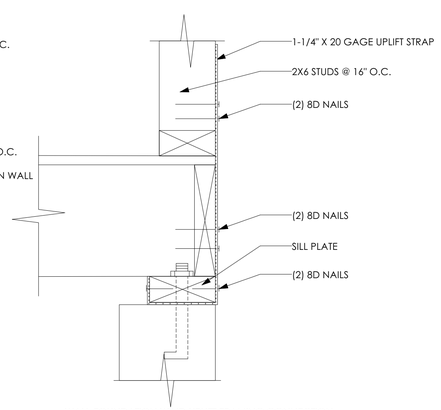
WALL-WALL LATERAL FRAMING CONNECTION



WALL-WALL WIND UPLIFT FRAMING CONNECTION

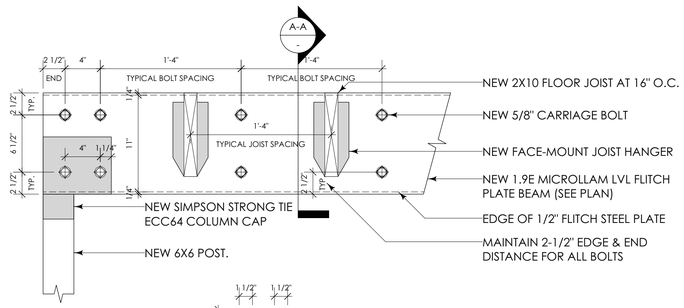


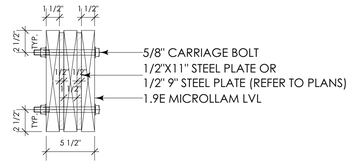
WALL-FOUNDATION LATERAL FRAMING CONNECTION



WALL-FOUNDATION WIND UPLIFT FRAMING CONNECTION

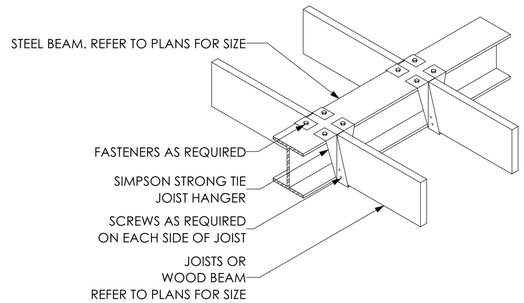
1 WOOD FRAMING DETAILS
Scale: 1/2" = 1'-0"



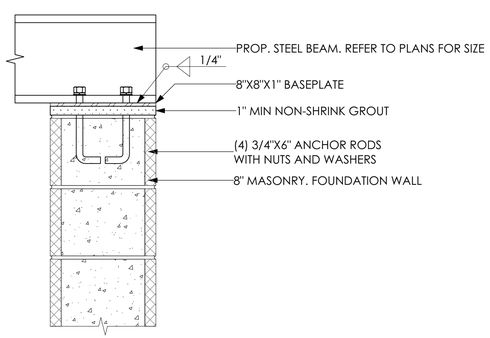


SECTION A-A

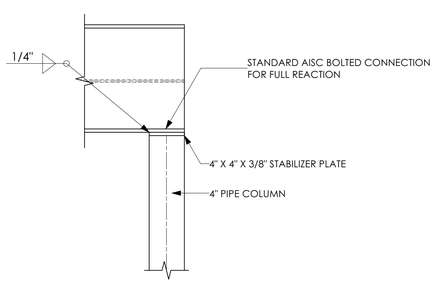
2 FLITCH PLATE GIRDER DETAIL
Scale: 1 1/2" = 1'-0"



3 JOISTS ON STEEL BEAM
Scale: 3/4" = 1'-0"



4 STEEL BEAM ON MASONRY FOUNDATION WALL
Scale: 1 1/2" = 1'-0"



5 STEEL BEAM ON STEEL COLUMN DETAIL
Scale: 1 1/2" = 1'-0"

BADALY

ENGINEERING DESIGN:

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CONSTRUCTION MANAGEMENT
44 WINDING WOOD ROAD
RYE BROOK , NEW YORK 10573

ISSUES:

#	DATE	DESCRIPTION

REVISIONS:

#	DATE	DESCRIPTION

PROJECT TITLE:

NEW SINGLE FAMILY RESIDENCE:

1A PLUNKETT PL
WESTPORT, CT 10708

DRAWING TITLE:

STRUCTURAL DETAILS

SCALE: AS NOTED
DATE: 02/13/23
JOB NO.: 22335
DRAWN BY: AK
CHECKED BY: SB

SEAL AND SIGNATURE:

STATE OF CONNECTICUT · PETER KLEIN · No. 9881 · REGISTERED ARCHITECT

DRAWING NO.:

S-200.00

SHEET NO.: 36 OF 36