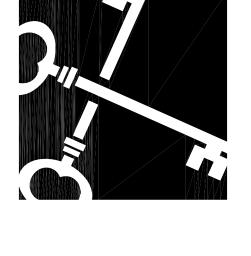


200 201

Contractor:
Rockville Construction
Manchester, CT 06042
860-916-9184



Architect:

LC L

Crosskey

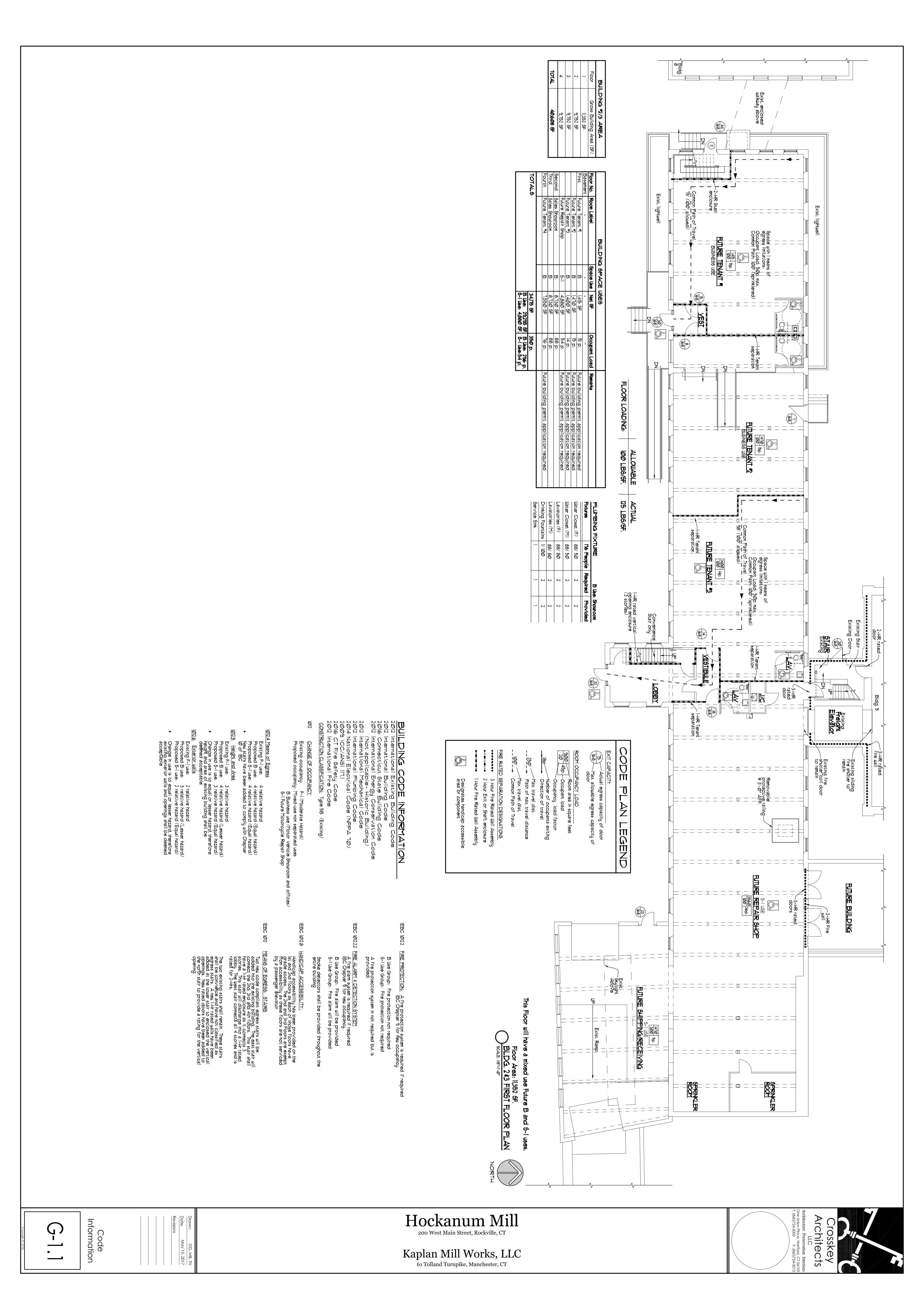
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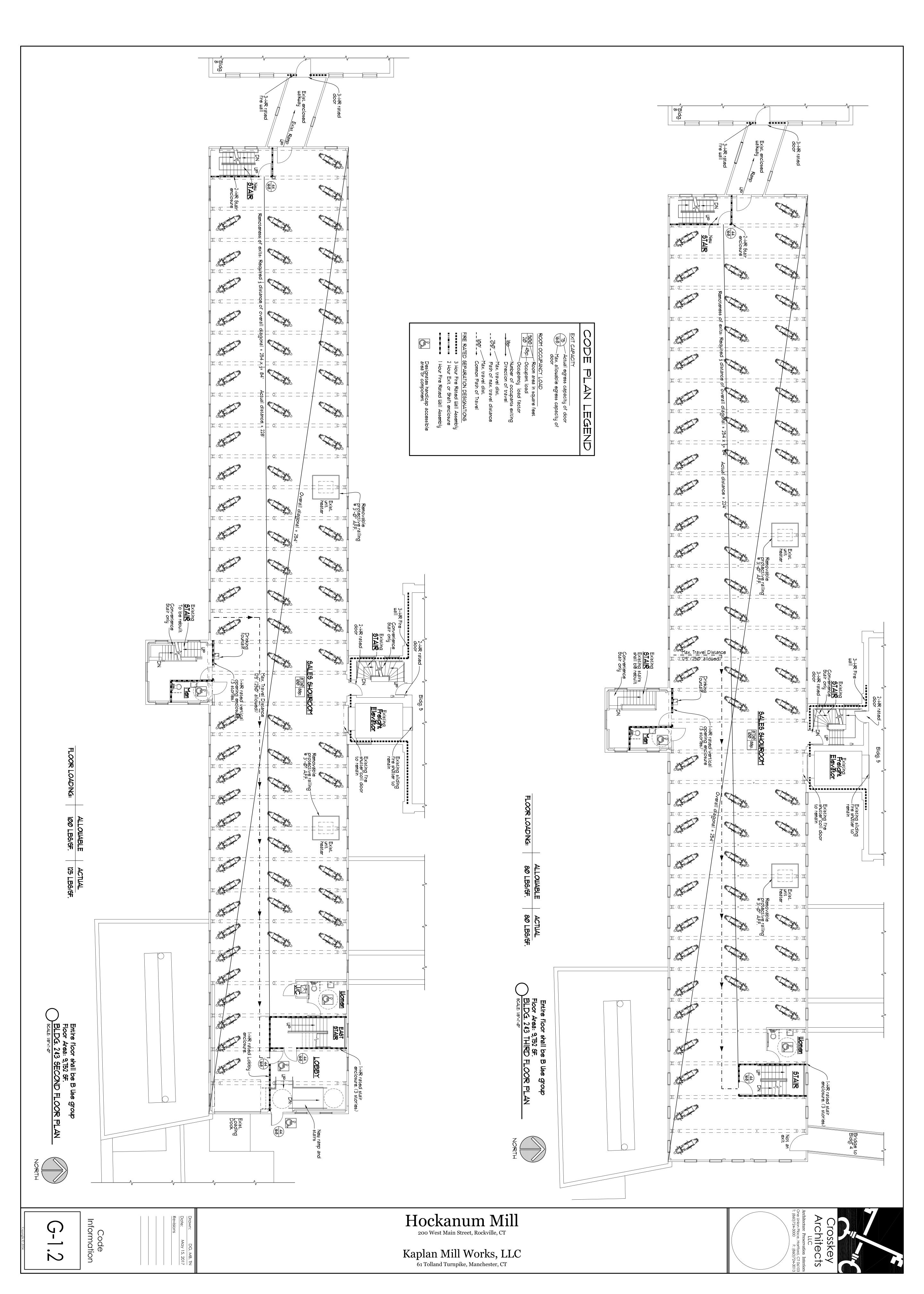
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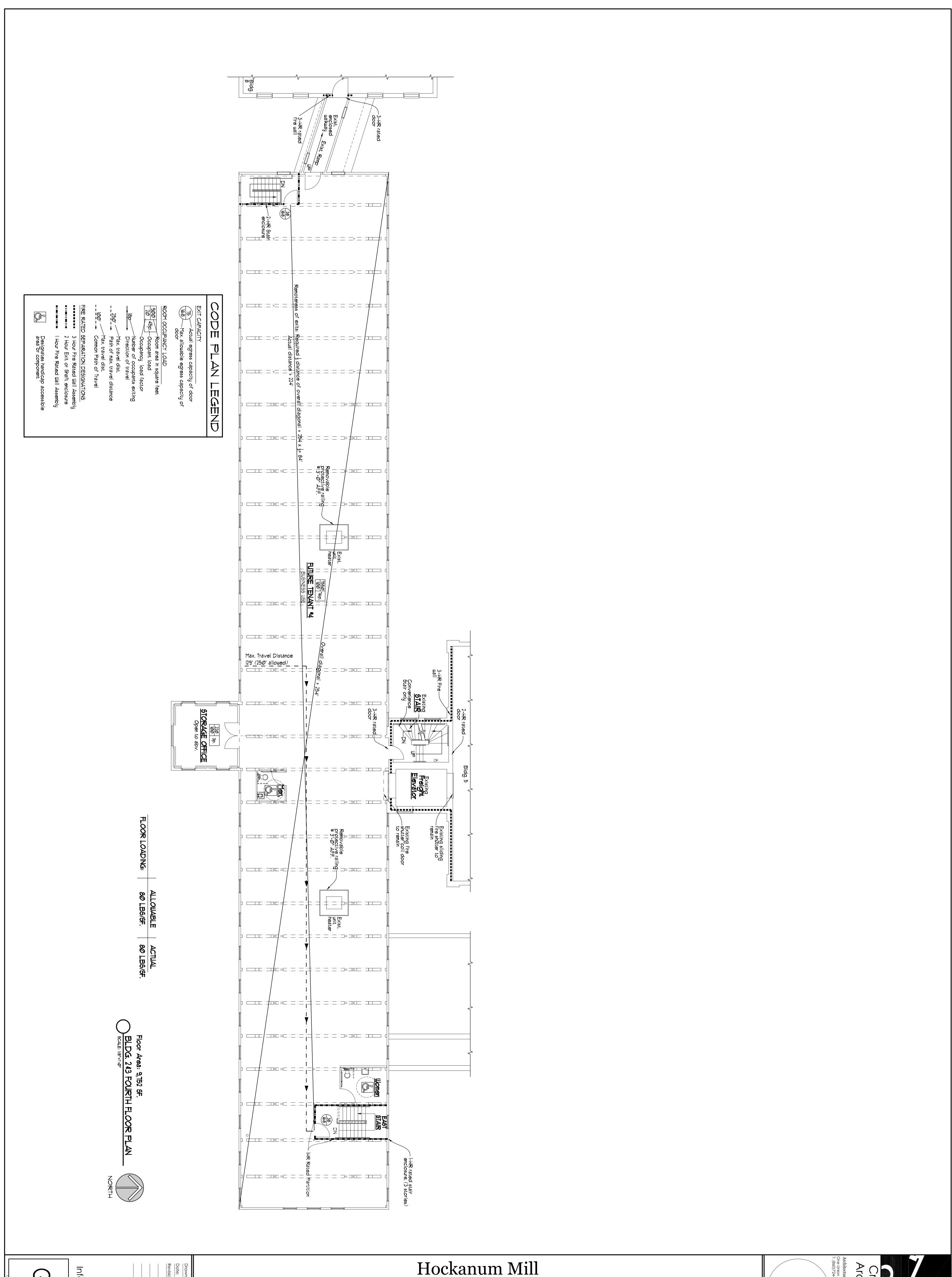
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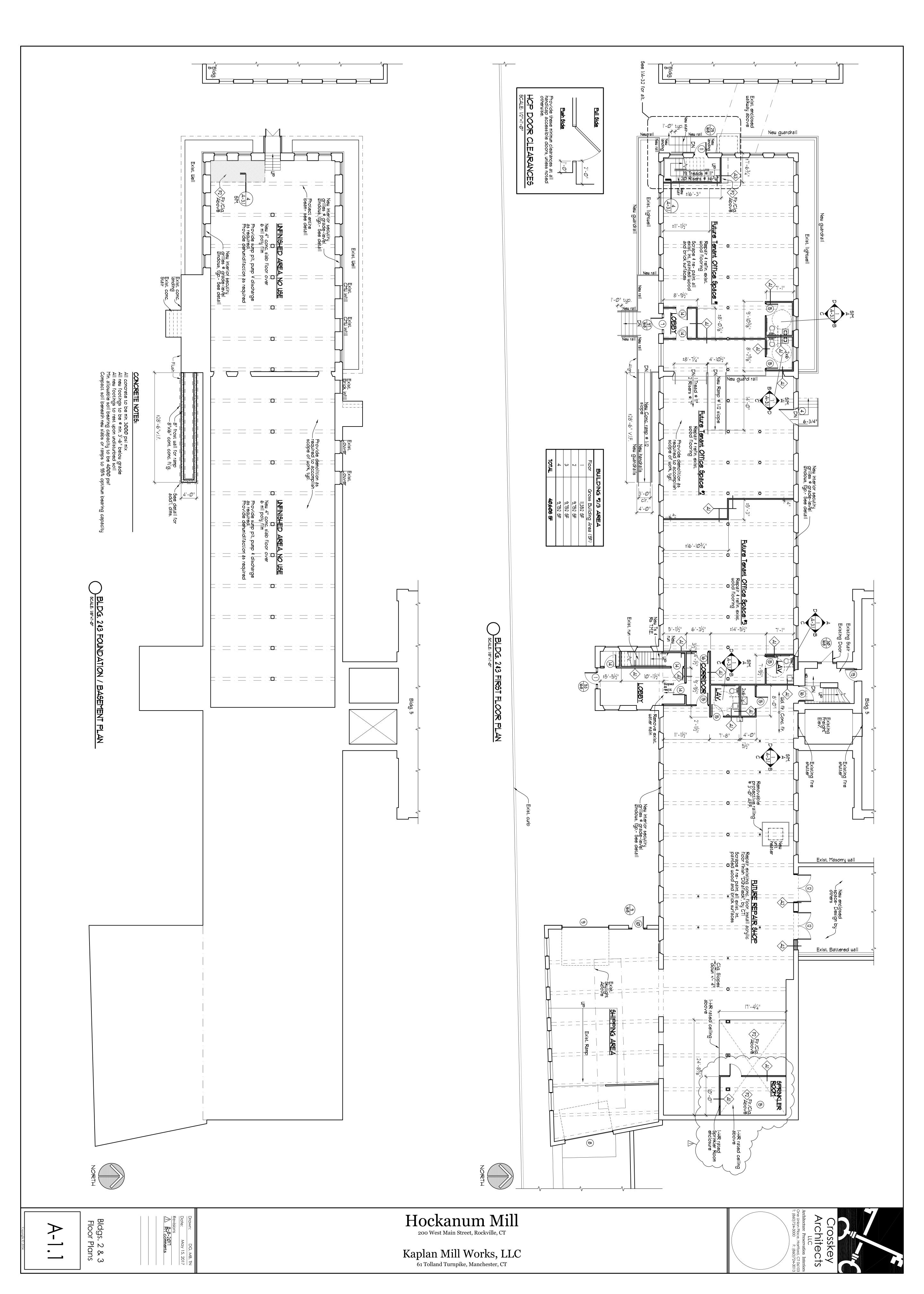
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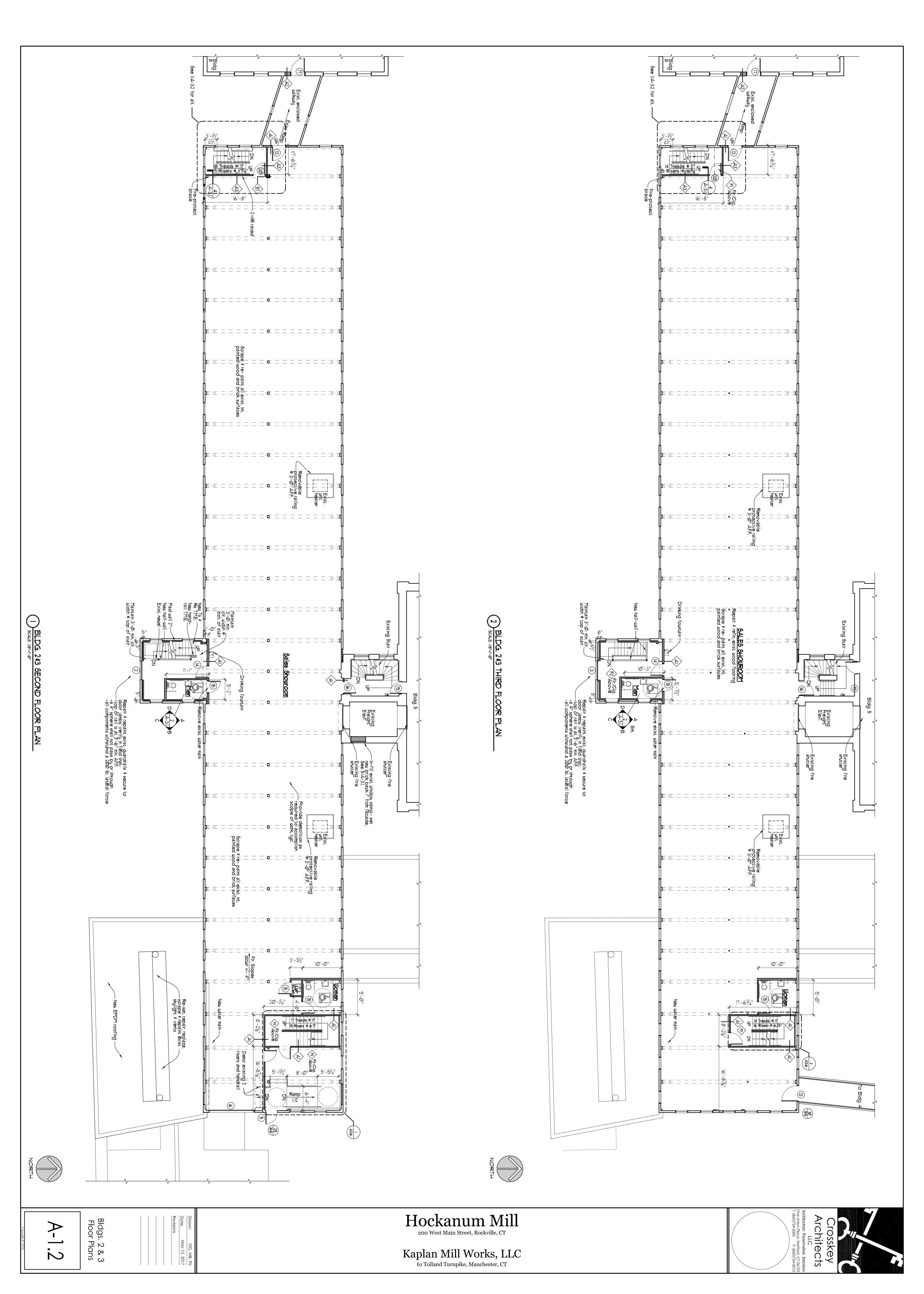
GAN Galyang GAN GALYANGE GEB AND GALYANGE GEB Bar HIGH GE	ABBREVIATIONS	
The scope of work for this project includes the restoration of an historical factory industrial office structure. The existing square footage, general layout and appearance will remain the same, except as indicated on these plans as well as those of the Owner's Consultants.	PROJECT SCOPE	Indicates existing usil construction to female in place. Indicates new will construction in indicates new brick wall construction indicates new brick wall construction indicates new brick wall indicates new brick wall indicates new brick wall construction indicates new brick wall construction indicates new brick wall indicates new brick wall indicates new brick wall construction indicates ne
Cover Project Notes, Information & Abbreviations G-1.1 Code Information and Plan G-1.2 Code Information and Plan G-1.3 Code Information and Plan A-1.1 Foundation, Basement & First Floor Plan A-1.2 Second & Third Floor Plan A-2.1 Exterior Elevations A-2.1 Exterior Elevations A-3.1 Details A-3.2 Details A-3.3 Cupola Plans, Sections & Elevations A-3.4 Cupola Plans, Sections & Elevations A-3.5 Cupola Petails A-3.6 Stair Section & Enlarged Plans A-4.1 Window Elevations A-4.2 Window Details A-4.3 Window Details A-5.1 Door Elevations	DRAWING INDEX	Removide all recessant denotition of suiting light finures, which and other components decapited to complete the scope of work as indicated on these crawings. Provide all denotition and dumpstars as is recessary to complete the work. Field-verify all dimensions and conditions prior to start of construction. Provide firesuppring at all dum, type and other presentation through rated maintaget and finds at admittance of the start of construction. Provide firesuppring at all dum, type and other presentation through rated maintaget and finds at a discount through rated maintaget and finds at all dum, type and other presentations through rated maintaget and finds and finds and finds and dealers and maintaget and beauting piping within framing bays to greatest extent possible luminor and heating piping within framing bays to greatest extent possible without an extension and the seriest damaged. Pattor any damage which might occur. Prepare for neal finishes or lights or greatest extent possible without a strict of the seriest and did in the seriest damaged. Pattor any damage which might occur they are did construction debris of site. Ultimate maintagets and construction debris off site. Provide solid blocking for will mounted accessories such as handalls, betafrom accessories, etc. Legally dispose all construction debris off site. All frain high riporing shall be refurbled urises noted otherwise. Remove existing finish and prepare surfaces as required to receive neal finish. It may floring hall be refurbled urises noted otherwise. Remove existing hall be refurbled urises noted otherwise. Saminary sheet are as finished. All frain theories phall be refurbled urises noted otherwise. Consultant is, because of the start of a decrease of the start of designs by Ounter's Consultant is. Energies all conditions assessments, acops of work repair-recommendations and designs by Ounter's Should and other components not shown on these drawings. To be determined in field or by others.

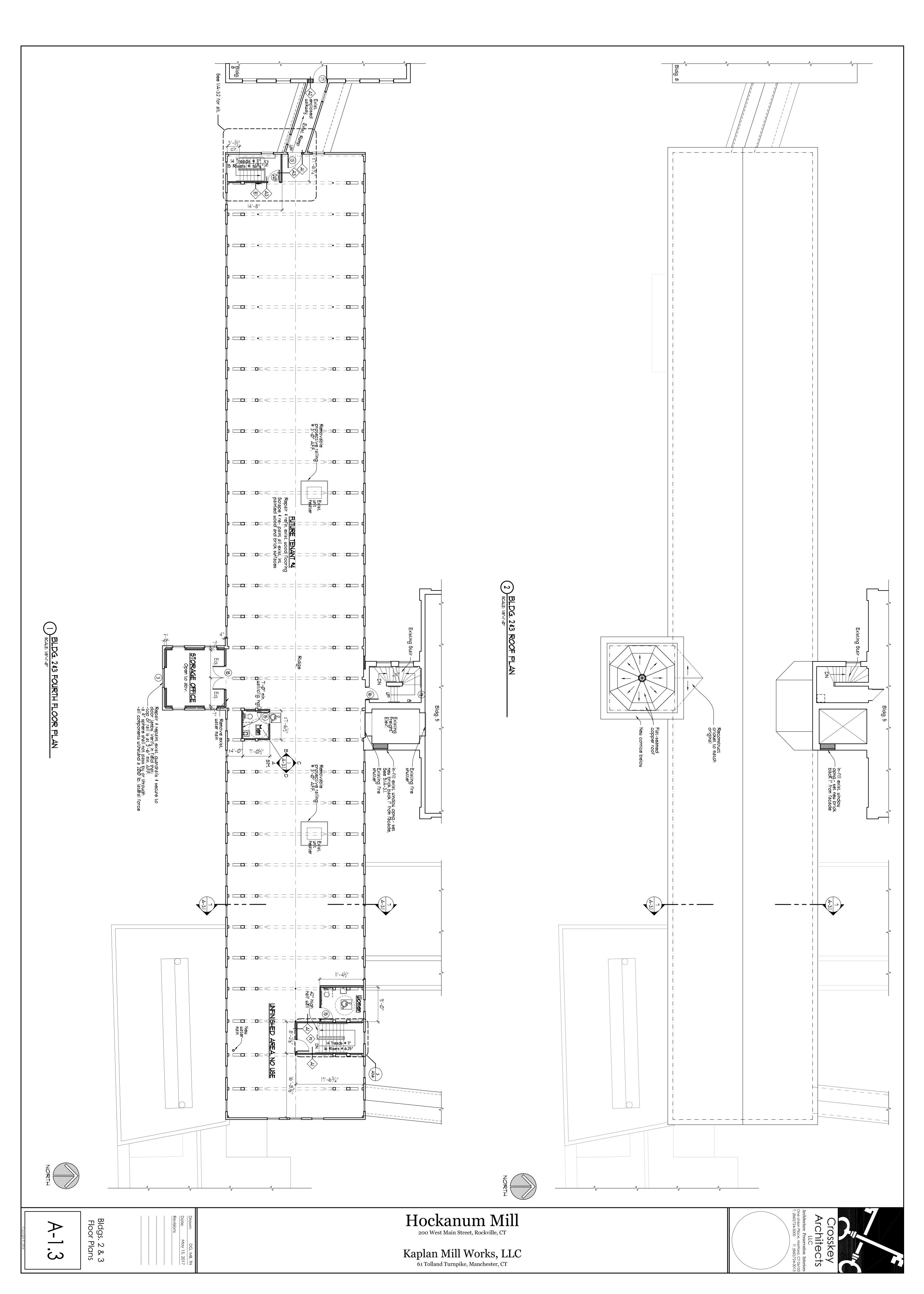


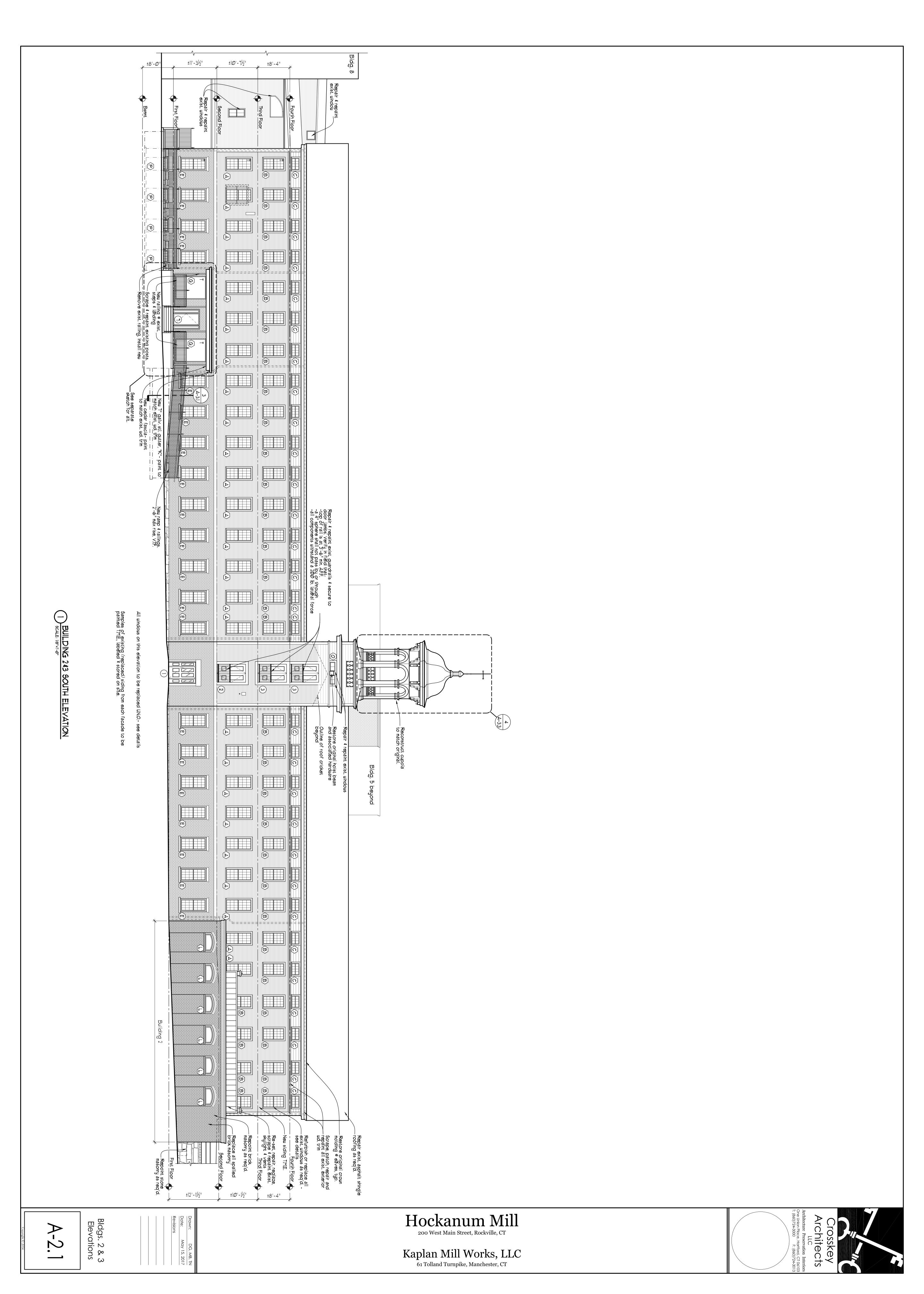


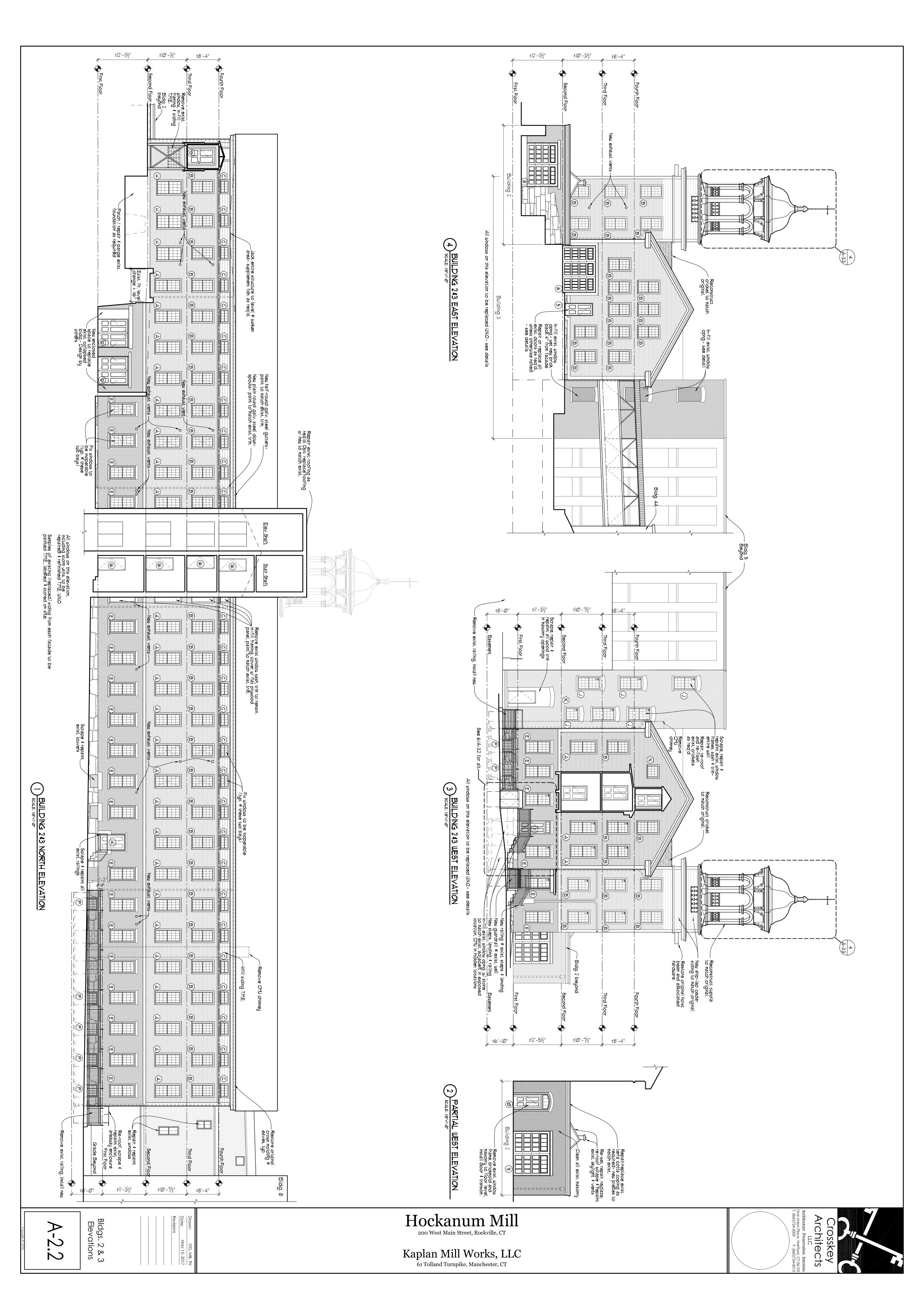


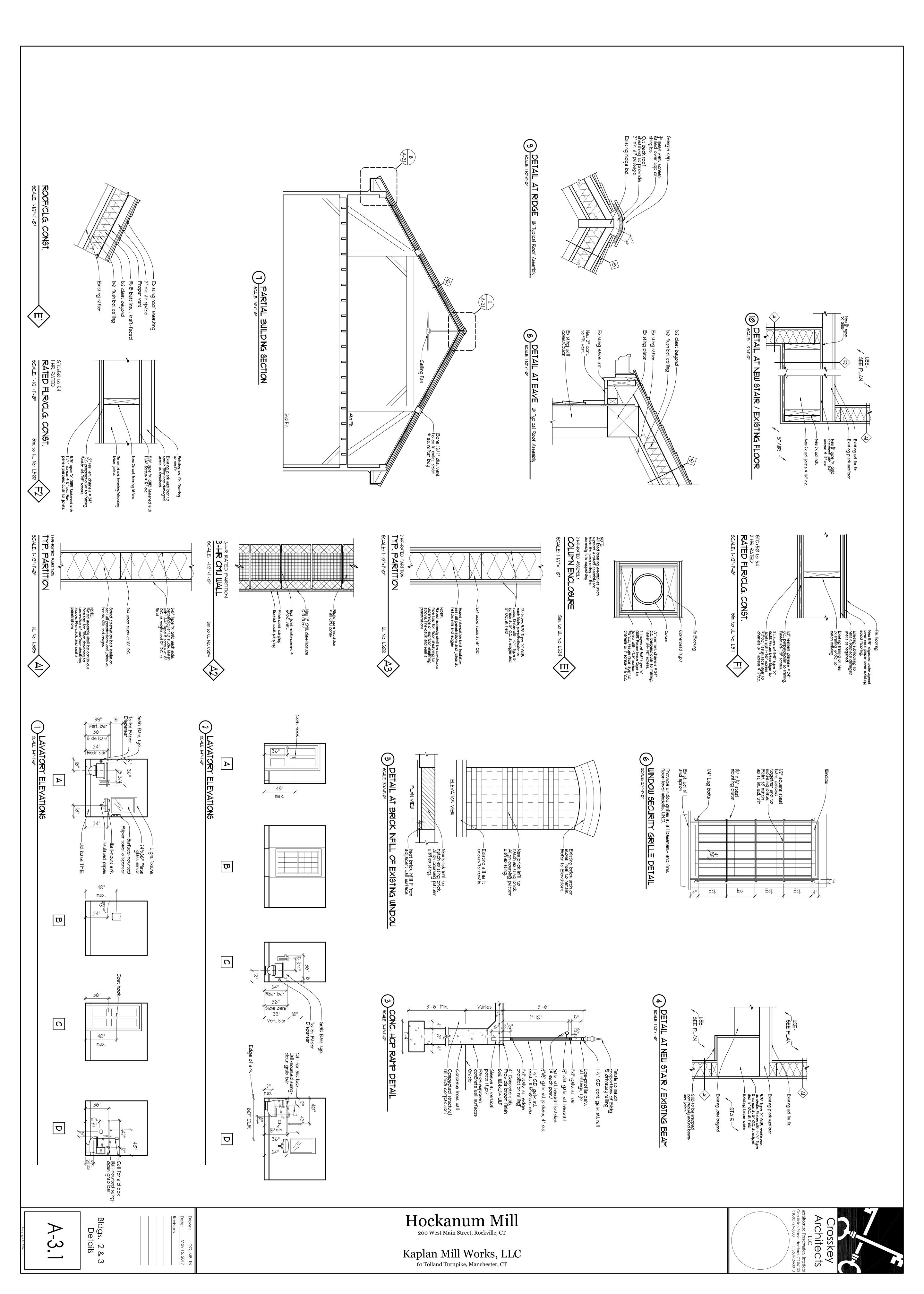


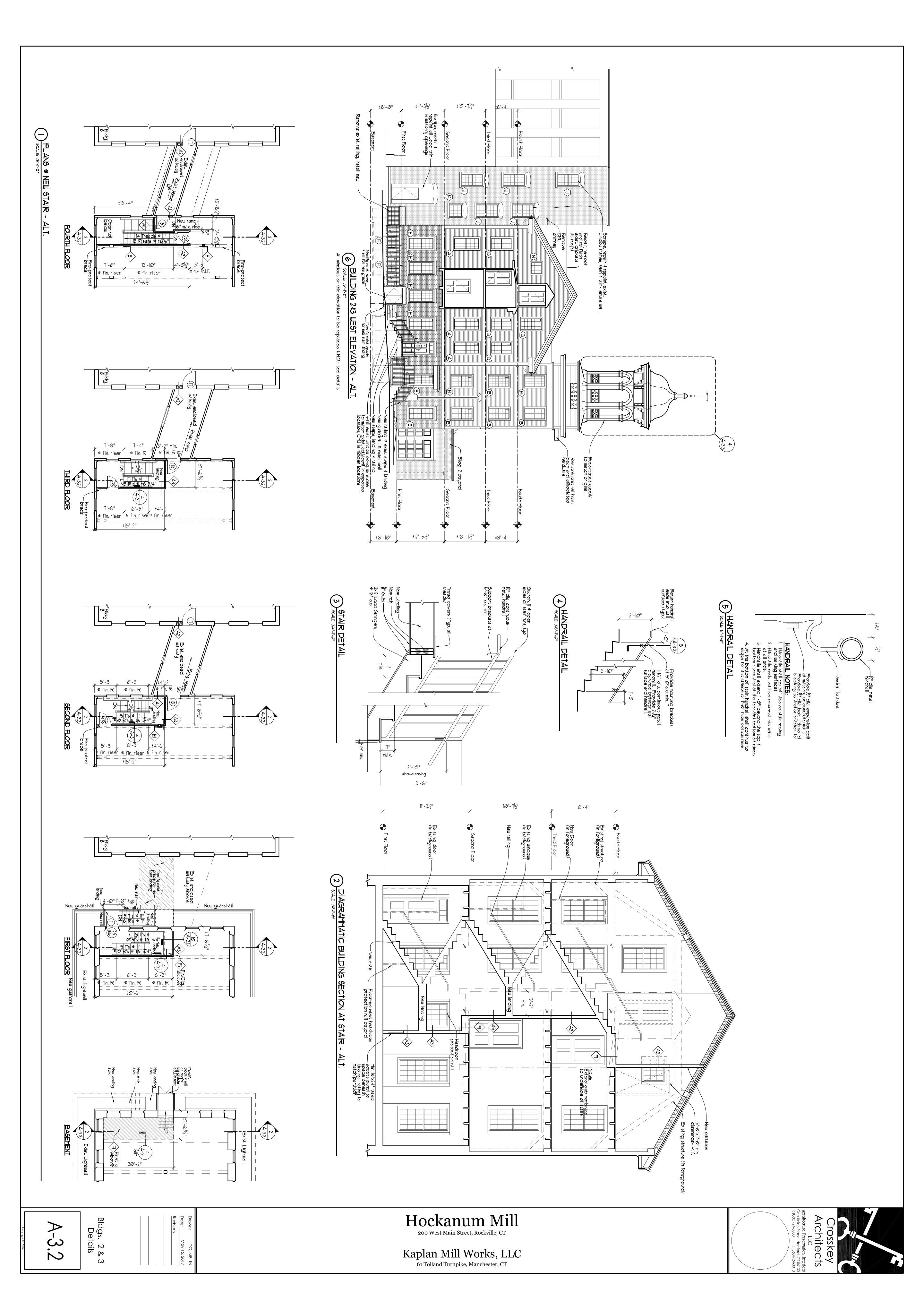


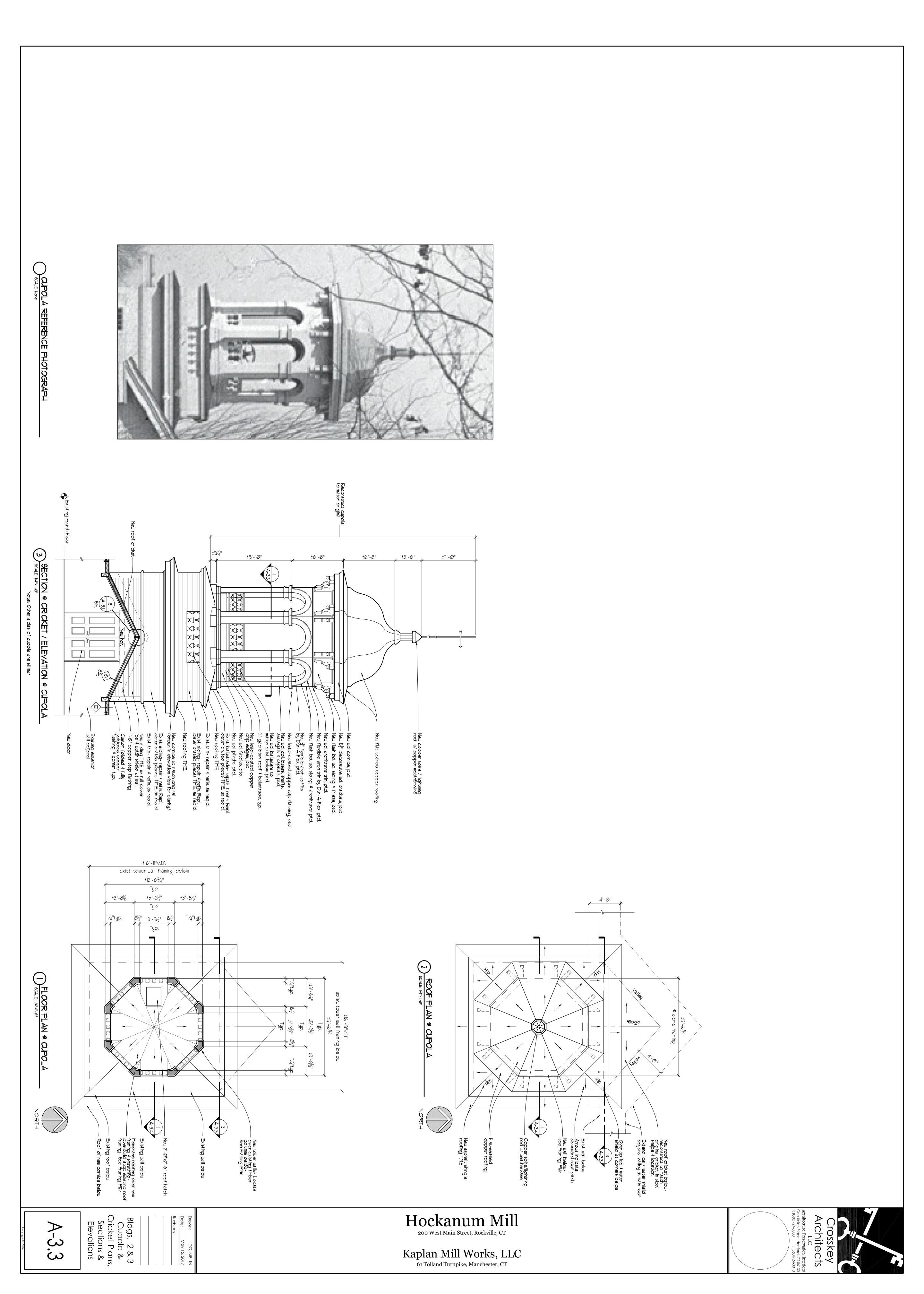


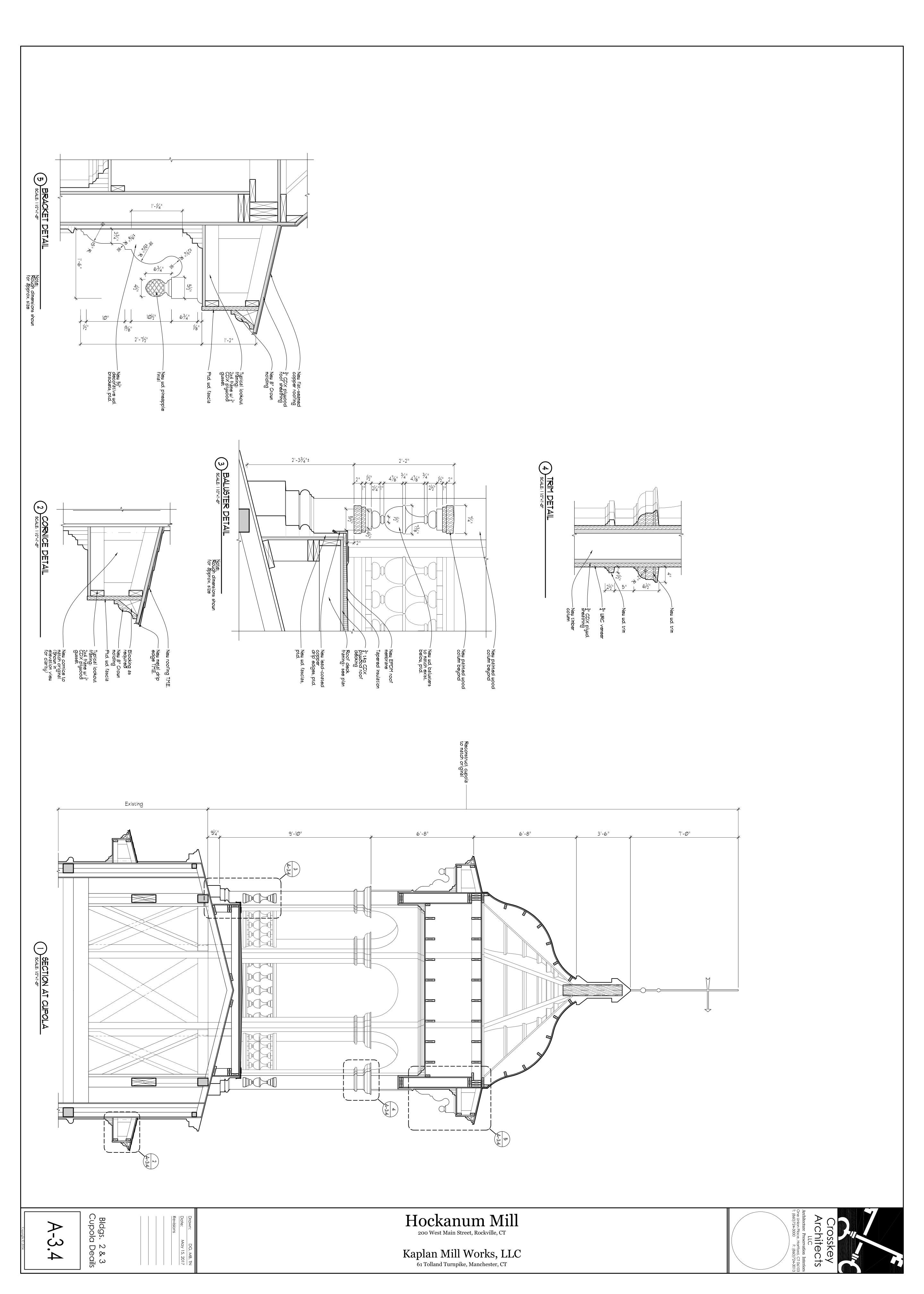


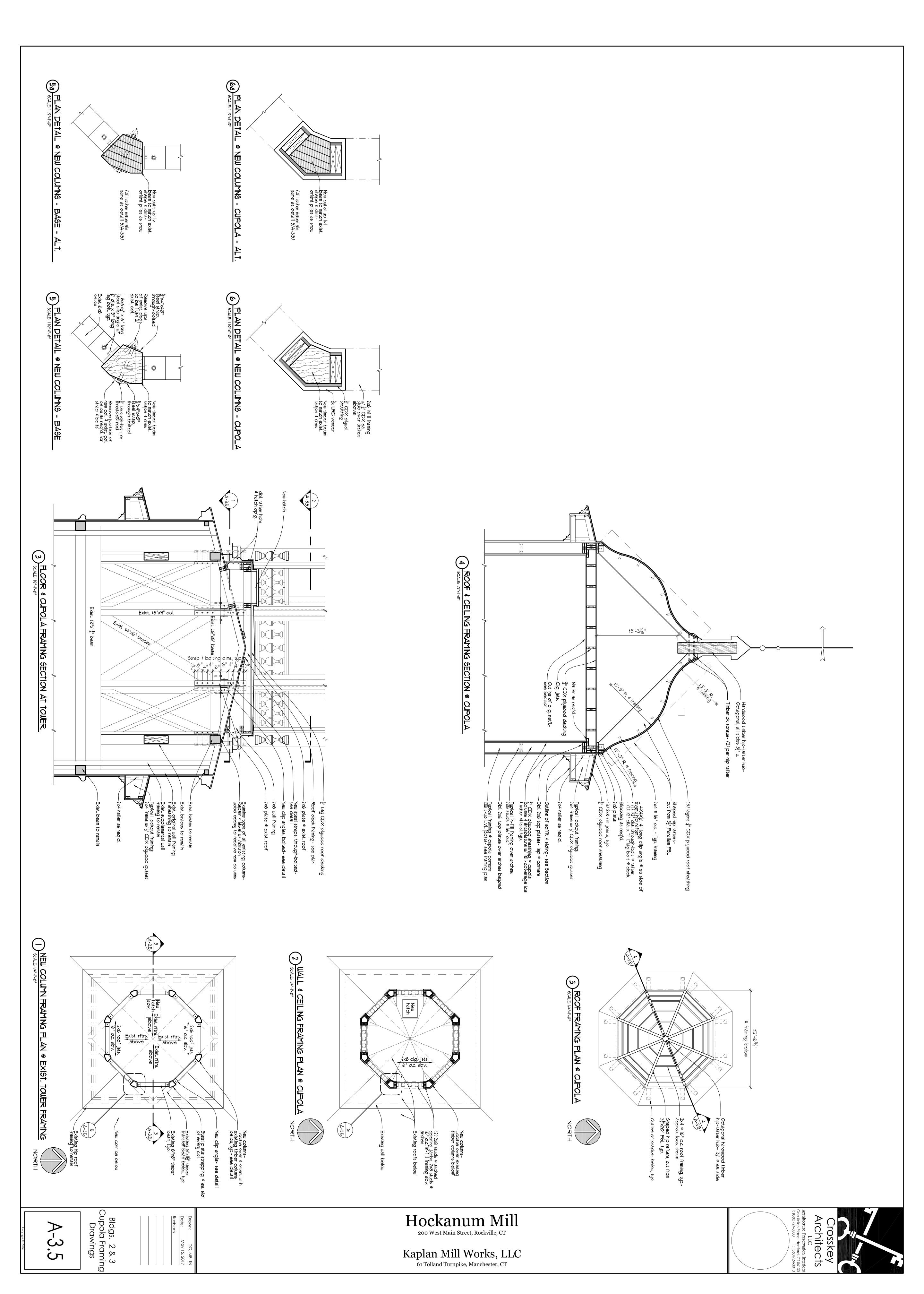


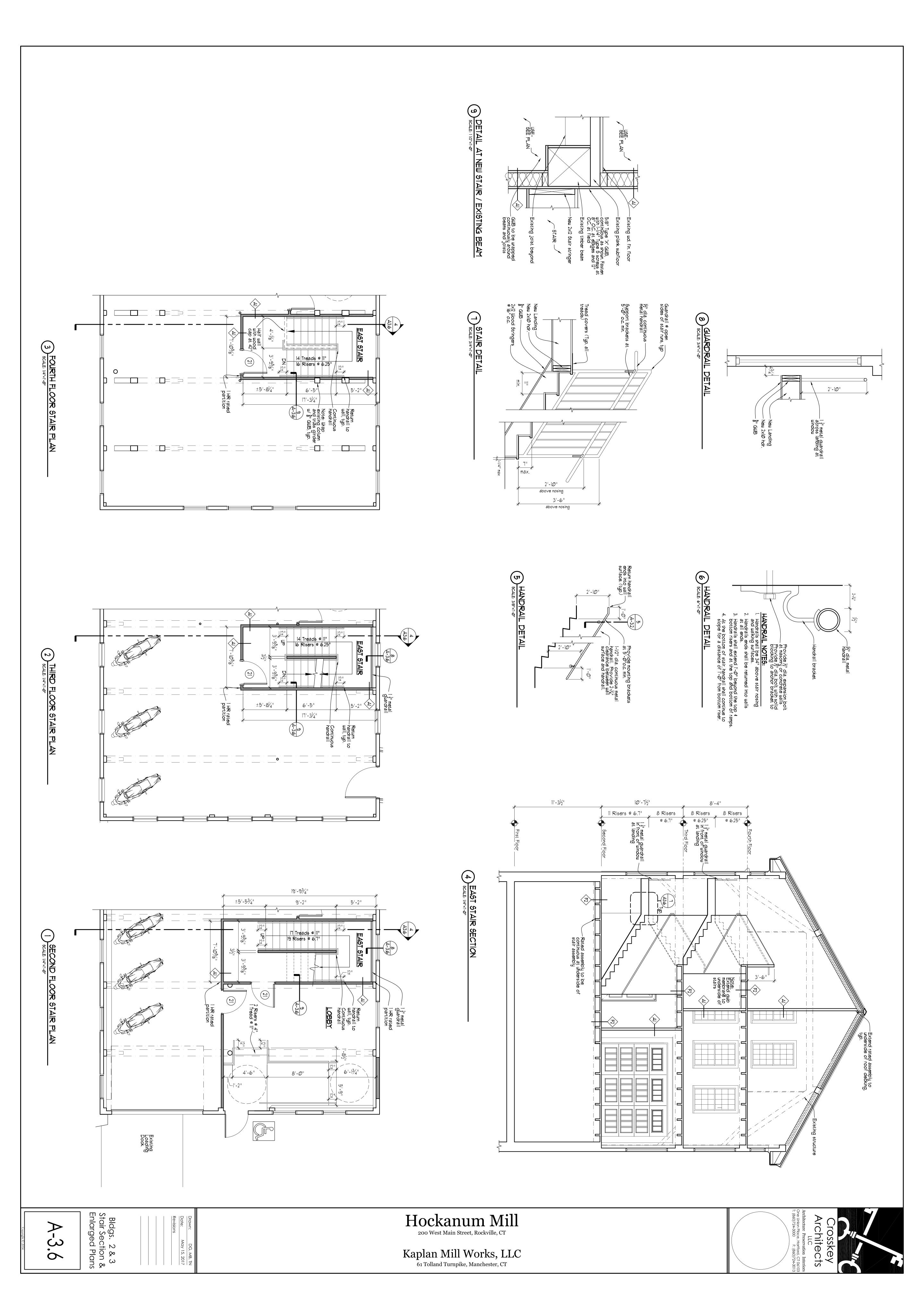


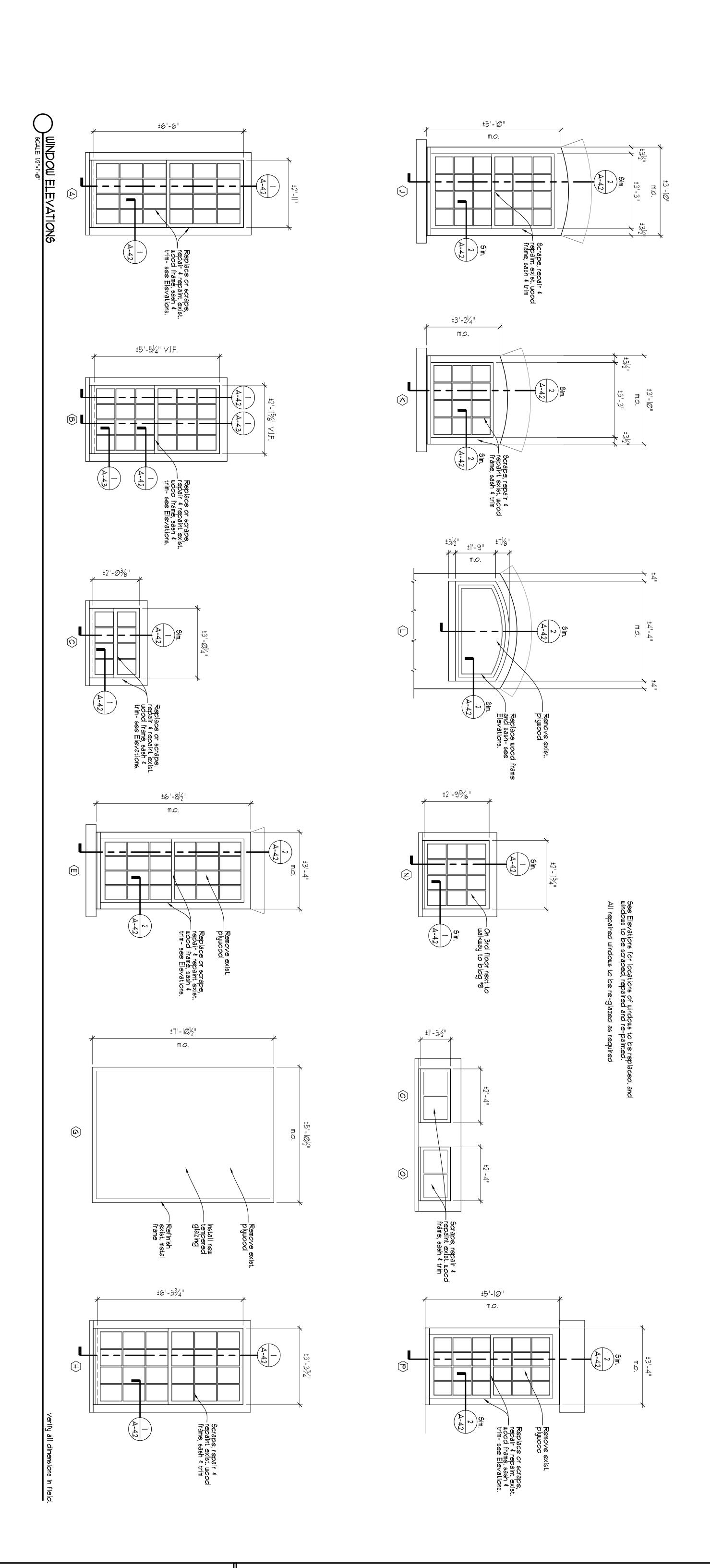




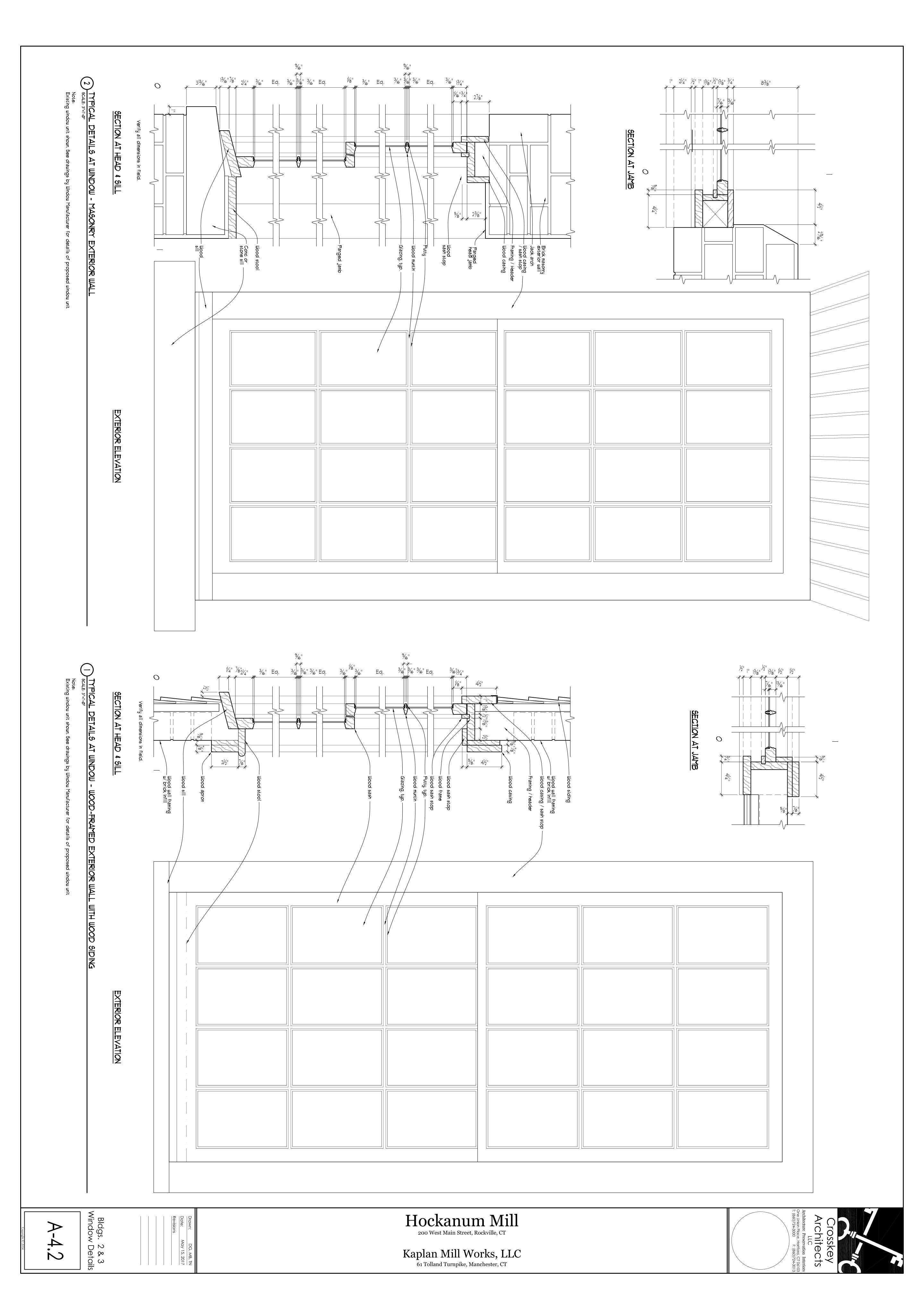


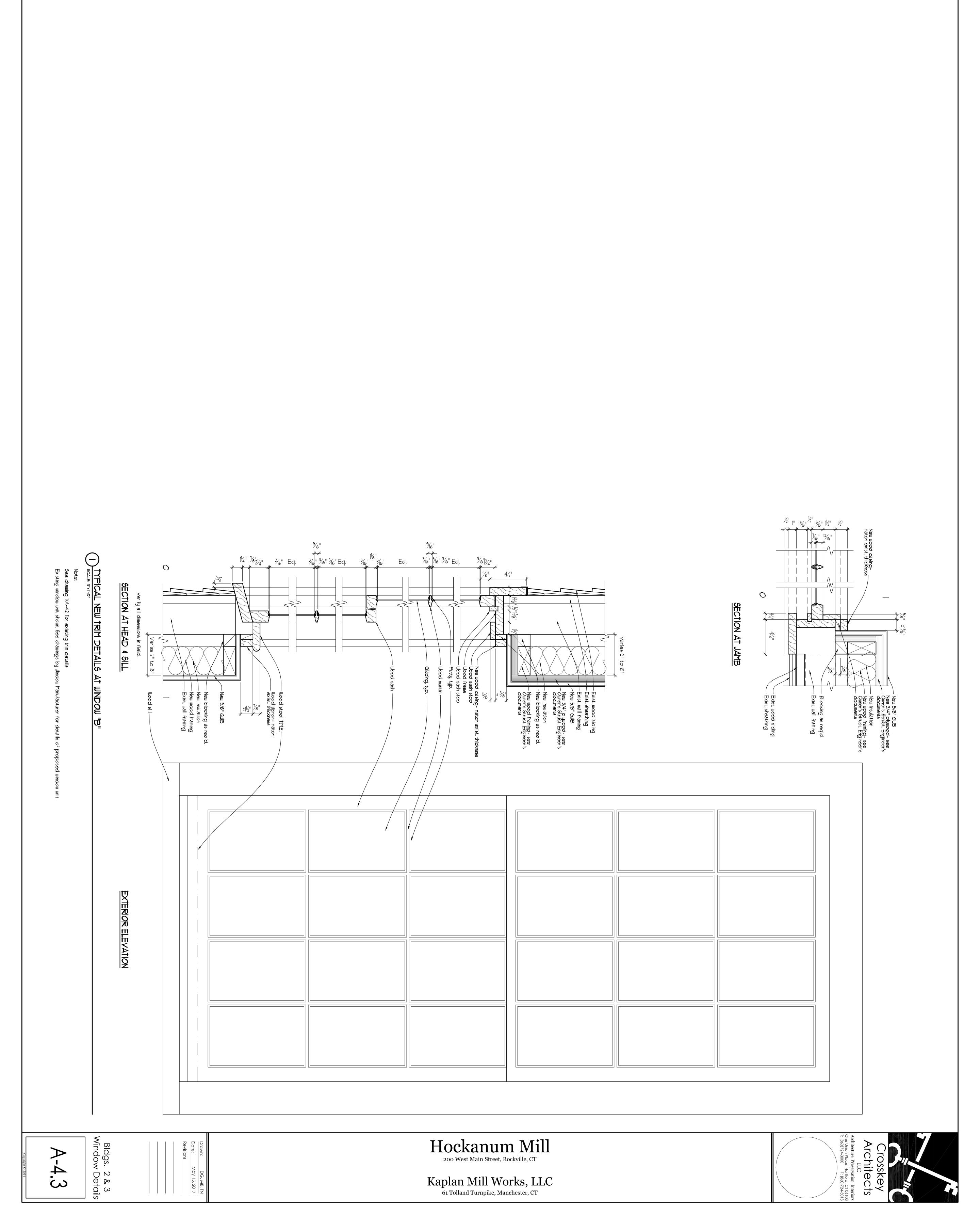


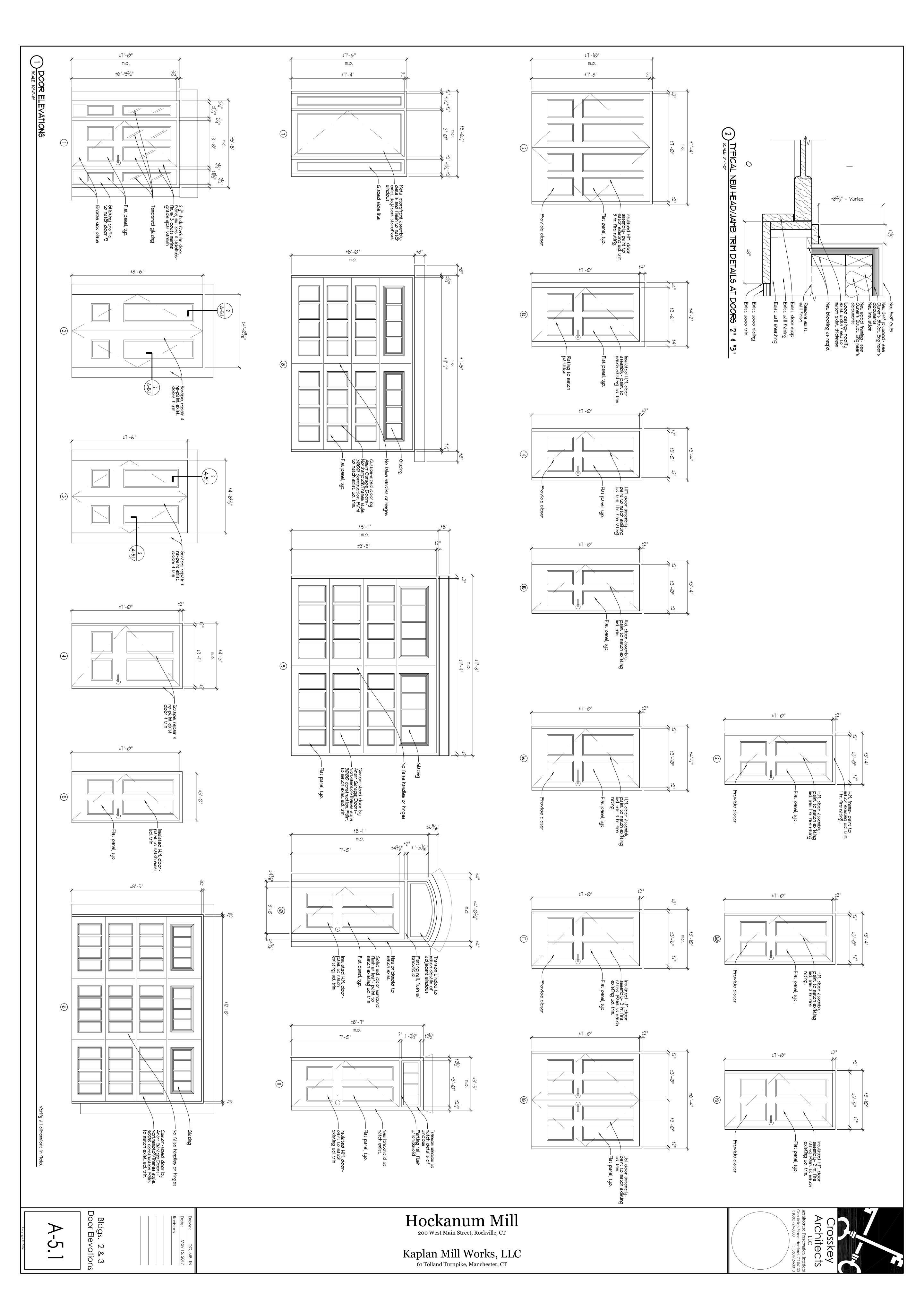




Bldgs. 2 & 3 Window Elevations







1.1. GENERAL

A. Owner's General Conditions are a part of this Division. All work shall be done in strict accordance with all applicable codes and regulations of local and State agencies and utility companies. This Contractor shall bear the cost of all fees, permits, licenses and taxes and any utility company charges in connection with the work.

1.2. SCOPE

- A. Intent of the Specifications and Drawings is to call for finished work, tested and ready for operation.
- B. Material and equipment mentioned in Specifications or show on the Drawings shall be furnished new, completely installed and adjusted, and left in a clean, safe, and satisfactory condition ready for operation. All supplied appliances and connections of every sort necessary shall be furnished and installed to the satisfaction of the Owner
- C. Apparatus, appliances, material, or work not shown on the Drawings but mentioned in the Specifications, or vice versa, or any incidental accessory items such as valves, unions, fittings, etc., necessary to make the work complete, serviceable, and perfect in all respects and ready for operation, even thought not particularly specified or show, shall be provided and installed without additional cost to the Owner.
- D. Minor details not usually show or specified, but necessary for the proper installation and operation of the work shall be inclu8ded as if specified herein.
- E. All work is new unless noted otherwise.

1.3. SUBMITTALS

- A. Submit 6 copies of manufacturer's drawings of the following to the Architect for approval.
- B. Submit 6 copies of ductwork shop drawings showing clearances with structural members and major equipment of other trades.
- C. Each submittal shall contain a complete list of all materials contained within. Include intended use for each item.
- D. Shop drawings shall consist of manufacturer's scale drawings, cuts or catalogs, including descriptive literature and complete characteristics of equipment, including dimensions, capacity, code compliance, motor and drive and testing, construction, electrical characteristics, support, all as required for this
- E. Certified performance curves shall be submitted for all fan and pumping equipment. Certified ratings shall be submitted for all operating equipment.

1.4. GUARANTEE

- A. Materials, equipment and workmanship shall have standard warranty against defects in material and workmanship. Any failure due to defective or improper material, equipment, workmanship or design shall be made good, forthwith, by and at the expense of the Contractor, including any damage done to areas, materials and other systems resulting from this failure. Guarantee period shall extend for one year from Date of Acceptance.
- B. The HVAC Contractor shall provide a guarantee covering all material and workmanship for 1 year following the date of acceptance.

1.5. DEFINITION

A, As used on Contract Documents, the term "to provide" shall mean "to furnish, install and connect completely in the specified or approved manner the item or material described."

1.6. OPERATING AND MAINTENANCE INSTRUCTIONS

A. Upon completion of the project, HVAC Contractor shall fully instruct the Owner in the operation,

adjustment and maintenance of all equipment and systems furnished.

B. The HVAC Contractor shall provide Owner with 3 sets of complete maintenance and operating instructions, and technical data, in booklet form, of all equipment and devices furnished in Contract.

1.7. CONTRACTOR'S INSPECTION

- A. Contract Drawings are diagrammatic and do NOT show every required fitting, etc. Contractor shall familiarize himself with existing site conditions, prior to submitting a bid, and shall include all equipment and accessories necessary for complete and operational systems.
- B. The HVAC Contractor shall examine the Architectural Drawings and the drawings and specifications of other trades to determine the extent of work. The HVAC Contractor shall visit the site and become familiar with the project and local conditions before submitting a Bid. Drawings are diagrammatic and indicate the general arrangement of systems and work included in the Contract. If so directed by the Architect or Engineer, the HVAC Contractor shall, without extra charge, make reasonable modifications in the layout to prevent conflict with those of other trades and for proper installation of work. Refer to Architect's reflected ceiling plan for exact location of air diffusers, registers and grilles. The Contractor shall coordinate locations of equipment with all trades before starting construction. Any modifications to the equipment layout required for installation shall be performed at no additional cost to the Owner.

1.8. ARRANGEMENT OF WORK

A. Work shall be coordinated between trades to prevent unnecessary interference. Work shall present a neat coordinated appearance. Install work as necessary to provide maximum possible headroom, adequate clearance and ready access for inspection, operation, safe maintenance and repair, and code conformance. Where space appears inadequate, consult Owner before proceeding with installation.

1.9. INSURANCE

- A. Furnish insurance certificates required by the Owner.
- 1.10. PERMITS, LAWS, ORDINANCES, CODES AND STANDARDS
- A. Obtain and pay for permits, inspections, licenses and certificates required. Work of this Contract shall meet State Building Code, State Fire Safety Code and other laws, rules and regulations of Local, State and Federal authorities; National Fire Protection Association #90A and #90B; BOCA Mechanical & Plumbing Codes; National Electrical Code; and local utility company requirements. Pay utility company backcharges. Equipment, materials and components listed UL Product Directories, shall bear UL labels.

1.11. FILTERS

A. Any equipment which operates with filters shall have filters and strainers installed at all times.

1.12. WORK BY OTHERS

A. The HVAC Contractor shall install all motors provided under the HVAC Contract ready for wiring by the Electrical Contractor and shall furnish and deliver to the Electrical Contractor wiring diagrams for all motor starters for installation and wiring. The HVAC Contractor shall furnish motor starters, relays and all temperature control equipment to the Electrical Contractor for installation and wiring. The General Contractor shall perform all excavation, backfill, chases, openings, cutting, patching and finish work.

1.13. FIELD MEASUREMENTS

- A. The HVAC Contractor shall verify in the field all measurements necessary for the work. Verify thermostat locations with the Owner before installation.
- B. The HVAC Contractor shall coordinate supply and return ductwork locations with structure, conduits and

1.14. WORKMANSHIP

- A. Equipment and materials shall be new, of first quality, selected and arranged to fit properly into spaces indicated. Install equipment and materials in accordance with manufacturer's recommendations.
- 1.15. COORDINATION WITH OWNER
- A. All work shall be scheduled with Owner. Interruptions in Owner's access to the site shall be subject to Owner limitations of date and duration.

1.16. OPERATION OF SERVICES AND UTILITIES

A. Shutdown of existing services and utilities shall, without exception, be coordinated with the proper utility and with the Owner as to date, time of day, and duration before any service is interrupted. Notify Owner of estimated duration of shutdown period at least ten days in advance of proposed shutdown.

1.17. PROTECTION

- A. Close open ends of work with temporary covers or plugs during construction to prevent entry of obstructing material or damaging water. Protect existing property, equipment and finishes from damage. Repair, to original condition, existing property that has been damaged during execution of the work.
- 1.18. CUTTING AND PATCHING
- A. Areas disturbed by new construction or demolition shall be patched and repaired to match existing conditions. Patch painting of ceilings shall include painting of entire ceiling of room involved. Patch painting of other surfaces shall be to nearest cut-off point.
- A. Provide necessary sleeves, caulking and flashing required to make openings waterproof.

1.20. FIREPROOFING

1.19. WATERPROOFING

- A. At closing of each working day, provide temporary firestopping in every opening cut between floors and through fire-rated partitions. Permanent firestops shall be provided around sleeves and at other permanent openings through fire-rated partitions and floors, as required. Materials used for fire stopping shall be Class A "Incombustible" with firestopping capabilities equal to that of adjacent construction.
- 1.21. BASES AND SUPPORTS
- A. Provide necessary supports, pads, bases and piers required. Equipment shall be securely attached to building structure in acceptable manner. Attachments shall be of strong and durable nature, as determined by Owner.

1.22. ACCESS

A. Provide adequately sized access doors, for access to concealed equipment and components requiring servicing or inspection. Doors shall have fire ratings equal to construction in which they are located.

1.23. TESTS

A. Perform tests required by Owner, legal authorities and agencies. Each piece of equipment, including motors and controls, shall be operated continuously for minimum one-hour test. Correct all defects appearing during tests, and repeat tests until no defects are disclosed. Final tests shall be made in Owner's presence.

SEISMIC REQUIREMENTS

- A. Submit four copies of a final inspection report which includes: Sealed certification by a structural engineer with P.E. registration in the state in which the project is located, that:
- 1. Engineer has reviewed the project.

2. Engineer has approved the use of the devices for the particular applications. 3. The devices satisfy Specification- and Code-mandated seismic criteria.

PART 2 - PRODUCTS

2.1. MATERIALS AND METHODS

A. Piping:

1. All piping shall be supported in a manner to prevent vibration or sagging. In no case shall the hanger spacing exceed the distances listed in the BOCA National Mechanical Code.

B. Ductwork:

- 1. All ductwork and accessories shall be constructed, fabricated and installed in accordance with the latest SMACNA Standards manuals for low pressure ducts, fire damper installations and flexible
- 2. Flexible ducts to air outlets shall be UL Class 1 connectors with airtight core, galvanized wire helix and pre-insulated with one (1") inch, 3/4 pcf fiberglass with a flame retardant vapor barrier. Flexmaster Type IX.
- 3. All exhaust systems ductwork shall be galvanized sheet metal, two (2") inch static pressure classification, Seal Class "C".
- 4. Furnish and install UL listed fire dampers and access doors at all duct penetrations of walls, floors, partitions, etc., that are required to have a fire resistance rating. Fire dampers, sleeves, access doors, etc., shall be constructed and installed in conformance to the manufacturer's instructions, NFPA 90A and the building official.

C. Insulation Systems:

- 1. Duct System Insulation:
- a. Insulate all outside air ductwork, exhaust ductwork on cold side of dampers, all plenums connected to louvers with 2" thick, rigid foil-faced fiberglass duct insulation.

2.2. CATEGORY III VENTING SYSTEM

A. Based on M&G DuraVent, Inc. Category III double wall venting system, UL Listed 1738. Pressure rated to 10 inches W.C.

PART 3 - EXECUTION

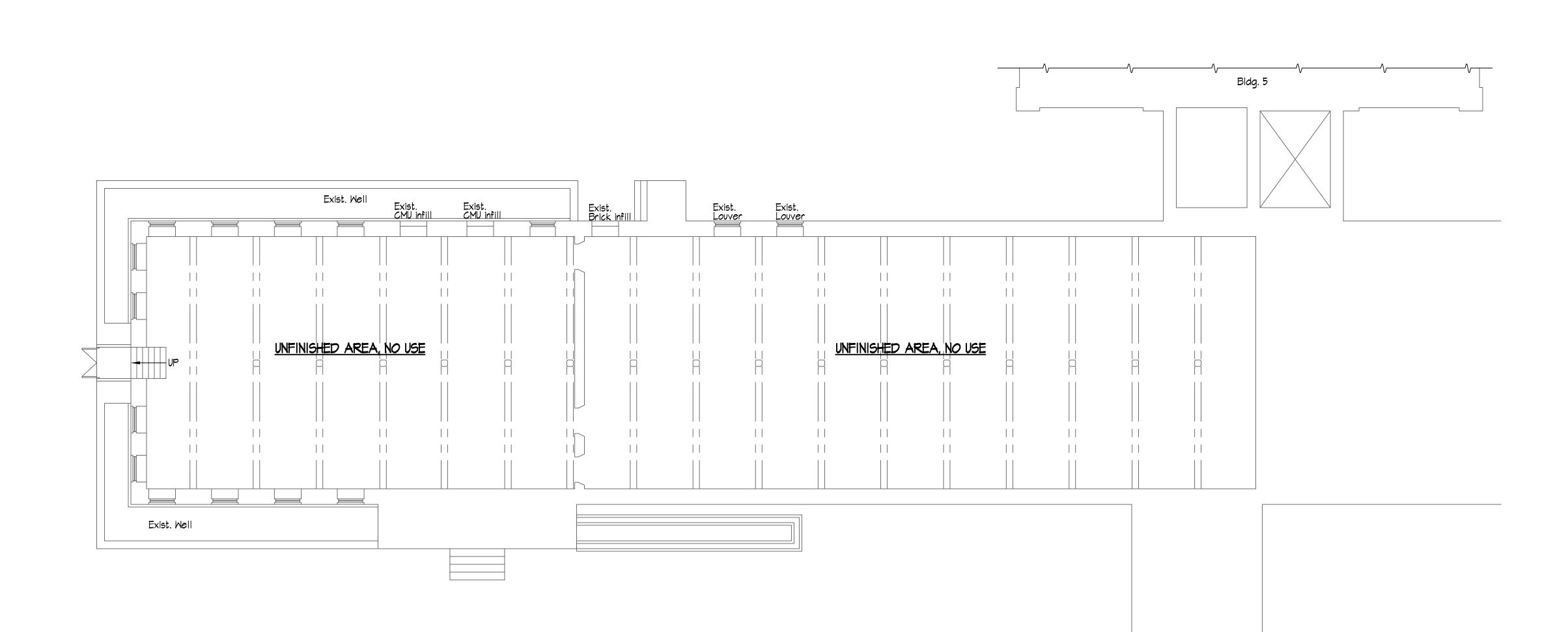
3.1 FIRE STOPS

- A. All penetrations through fire rated walls, ceilings or floors in which pipes or ducts pass shall be sealed with a UL approved fire-stop fitting classified for an hourly rating equal to the rating of the wall, ceiling or
- REMOVAL, RELOCATION AND/OR ABANDONMENT
- B. Certain items of existing equipment and piping or ductwork may be indicated for removal, relocation or abandonment. Items noted for removal shall be disconnected and turned over to the Owner or disposed of by the Contractor if the Owner so requests. Items noted for relocation are intended for reuse in another location as designated on the Drawings. It shall be the responsibility of the Contractor to remove the material from its present location, store the material in a safe place and reinstall the material in its new location. Questions regarding the suitability of the material or equipment shall be brought to the attention of the Architect/Engineer in writing. Abandonment shall be defined as abandoning in place any item so designated and shall include proper piping or ductwork termination within any occupied or open area. All abandoned pipes and ducts shall be disconnected and capped at their mains. All abandoned pipes shall be capped.

3.3 EQUIPMENT

- A. Equipment shall be installed in accordance with the manufacturer's printed instructions and
- recommendations. B. Maintain clearance to combustibles as recommended by the equipment manufacturer.
- C. Coordinate the exact location of all wall and roof penetrations with the Architect.

END OF SPECIFICATION



BLDG. 243 FOUNDATION / BASEMENT PLAN



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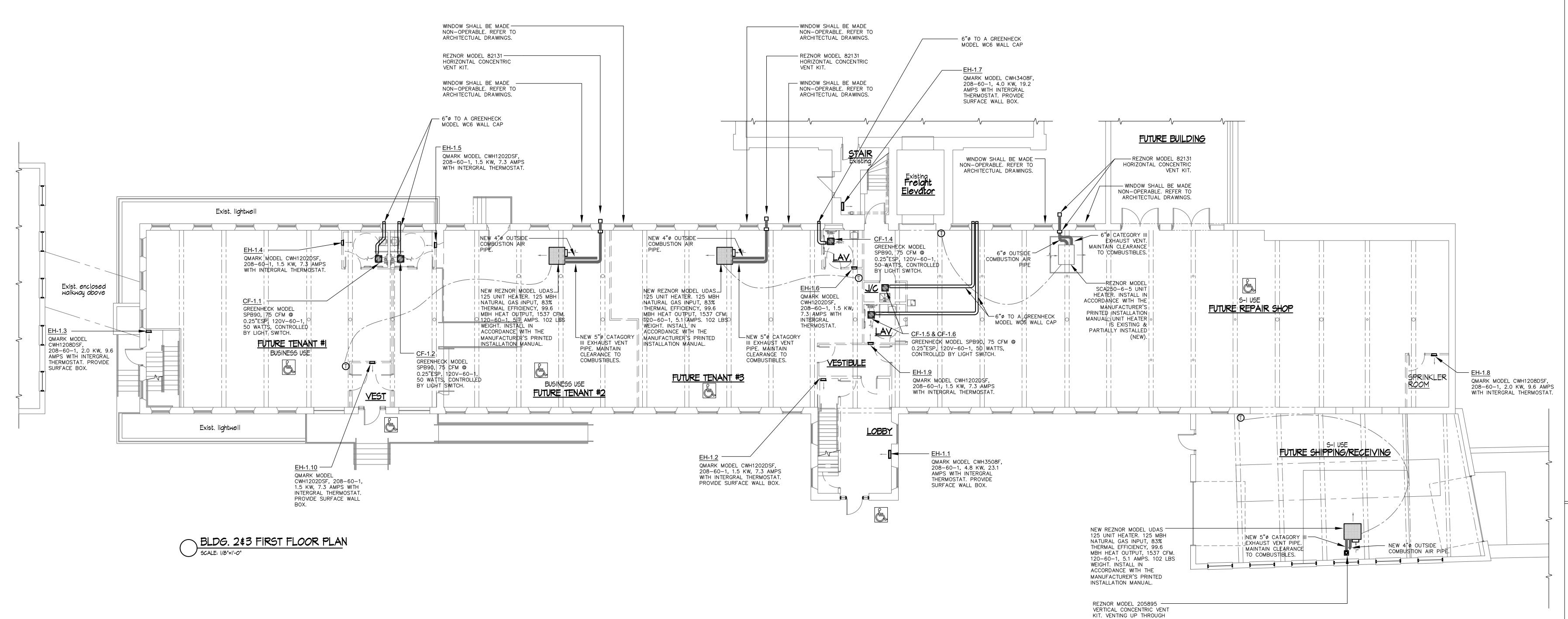
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Architecture Preservation Interiors One Union Place, Hartford, CT 06103

T: (860)724-3000 F: (860)724-3013

BASEMENT FLOOR PLAN & SPECIFICATION -MECHANICAL

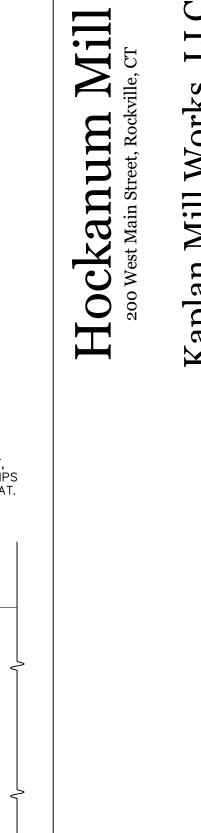


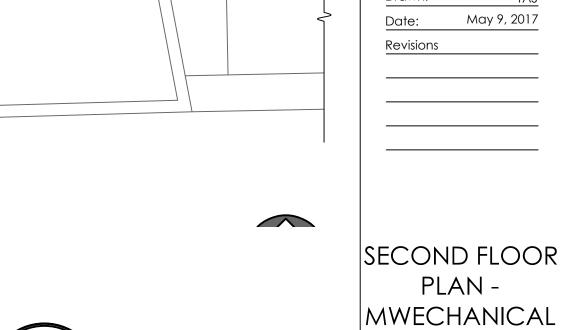
Hockanum Mill 200 West Main Street, Rockville, CT

Drawn: TAS
Date: May 9, 2017
Revisions

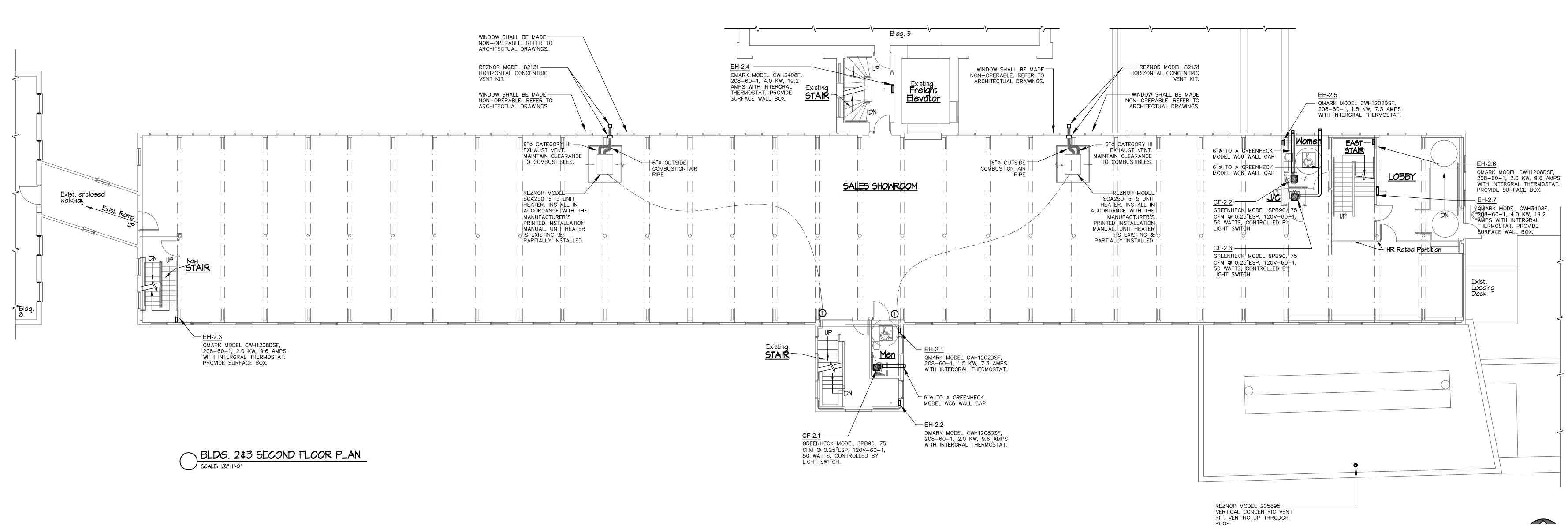
FIRST FLOOR
PLAN MECHANICAL

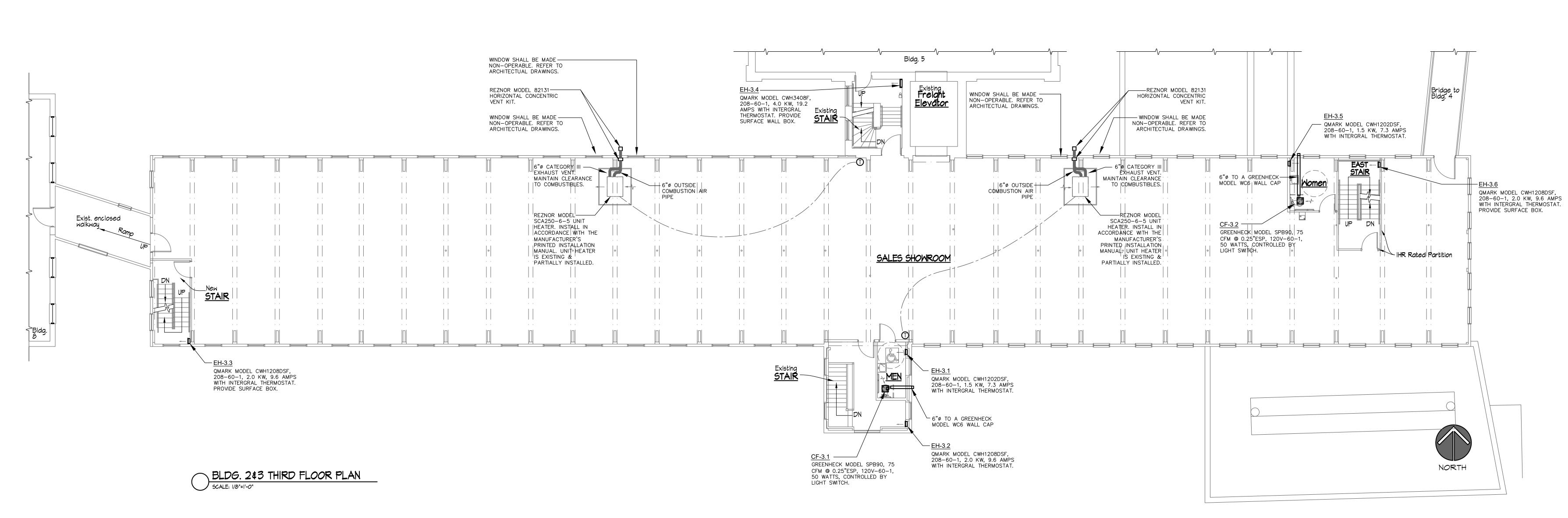






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Hockanum Mill 200 West Main Street, Rockville, CT

Drawn: TAS
Date: May 9, 2017
Revisions

THIRD FLOOR
PLAN MECHANICAL



BLDG. 2\$3 FOURTH FLOOR PLAN

Mill Hockanum

Architecture Preservation Interiors One Union Place, Hartford, CT 06103 T: (860)724-3000 F: (860)724-3013

Mill

FOURTH FLOOR

NORTH

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May 9, 2017

PLAN -MECHANICAL

- Mechanical · Electrical Engineering for Building Systems -

6. PROVIDE SEISMIC BRACING AS PER NFPA.

1. THE FIRE PROTECTION SYSTEM SHALL BE A MAINTAINING AND EXTENDING OF EXISTING "WET PIPE SYSTEM" AND AN ADDITION OF A "DRY PIPE SYSTEM" FOR THE BASEMENT SPACE.

2. COORDINATE FIRE PROTECTION WORK WITH OTHER TRADES AND STRUCTURAL

3. ALL PENETRATIONS OF RATED ASSEMBLIES TO BE SEALED WITH APPROVED FIRE RATED CAULK.

4. THE BUILDING IS TO BE FULLY SPRINKLED INCLUDING COMBUSTIBLE SPACES ABOVE CEILINGS, CONCEALED SPACES, ETC. AS PER NFPA-13 2010 AND INTERNATIONAL FIRE CODE 2012.

5. PROVIDE AUXILIARY DRAINS ON ISOLATED TRAPPED PIPING SECTION AS PER

7. THE SPRINKLER LAYOUT IS TO BE BASED ON AN ORDINARY HAZARD W/130 SQ.FT. MAX COVERAGE PER HEAD. LIGHT HAZARD SYSTEM USING 225 SQ. FT. MAX COVERAGE PER HEAD FOR BATHROOMS, CLOSETS & VESTABULES. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO

SECURE A FLOW TEST PER LOCAL WATER COMPANY GUIDELINES.

8. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR THE FINAL LOCATION OF ALL RELATED EQUIPMENT (FIRE DEPT. SIAMESE CONN., WATER GONG, ELECTRIC BELL, DRAINS, TAMPER & FLOW SWITCHES, ETC.), SPRINKLER HEADS, AND ALL ASSOCIATED PIPING. COORDINATE FINAL COUNT OF SUPERVISORY AND FLOW SWITCHES WITH DIVISION 16.

9. SPRINKLER SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND ARE SHOWN AS A GUIDE FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR A DESIGN & BUILD SERVICE AND SHALL INCLUDE IN THE BID ANY ADDITIONAL HEADS REQUIRED.

SPRINKLER COVERAGE NOTES:

. 1ST - 4TH FLOORS - MAINTAIN EXISTING WET SYSTEM SPRINKLER COVERAGE, EXTEND, ADJUST OR ADD AS NEEDED SPRINKLERS FOR ADDED ROOMS ON PLANS. ALL PIPING TO BE EXPOSED & PAINTED.

NOTE PERTAIN TO ALL DRAWINGS

2. BASEMENT - PROVIDE A DRY SYSTEM WITH UPRIGHT SPRINKLER COVERAGE. ALL PIPING TO BE EXPOSED IN UNFINISHED CEILING AREAS.

	SY	MBOL LIST
•	<u> </u>	COLD WATER PIPE (CW)
•		HOT WATER PIPE (HW) (110°F)
•		HOT WATER RECIRCULATION PIPE (HWR) (110°F)
•		HOT WATER PIPE (140°F)
•		HOT WATER CIRCULATION PIPE (140°F)
•	— s —	SANITARY PIPE (BROKEN LINE IS BELOW FLOOR)
•	— ST —	STORM PIPE
•	— EMST —	EMERGENCY STORM PIPE
•		VENT PIPE (V)
•	——cD——	CONDENSATE / DRY PIPE
•		DIRECTION OF FLOW
•	wco	WALL CLEANOUT
•	1	CHECK VALVE
•	W.S.	WASTE STACK
•	V.S.	VENT STACK
•	S.S.	SOIL STACK
•	V.T.R.	VENT THROUGH ROOF
•	×	GATE VALVE
•	₽.V	BALL VALVE
•	— G —	GAS PIPE
•		GAS SHUT OFF
•		BACKFLOW PREVENTER
•		PRESSURE REDUCING VALVE

BALANCING VALVE

• F.D. ⊘C— FLOOR DRAIN

FCO — FLOOR CLEANOUT

(VIF) VERIFY IN FIELD

GCO FINISH GRADE CLEANOUT

H.B. H
 HOSE BIBB (NON-FREEZE WHEN INDICATED)

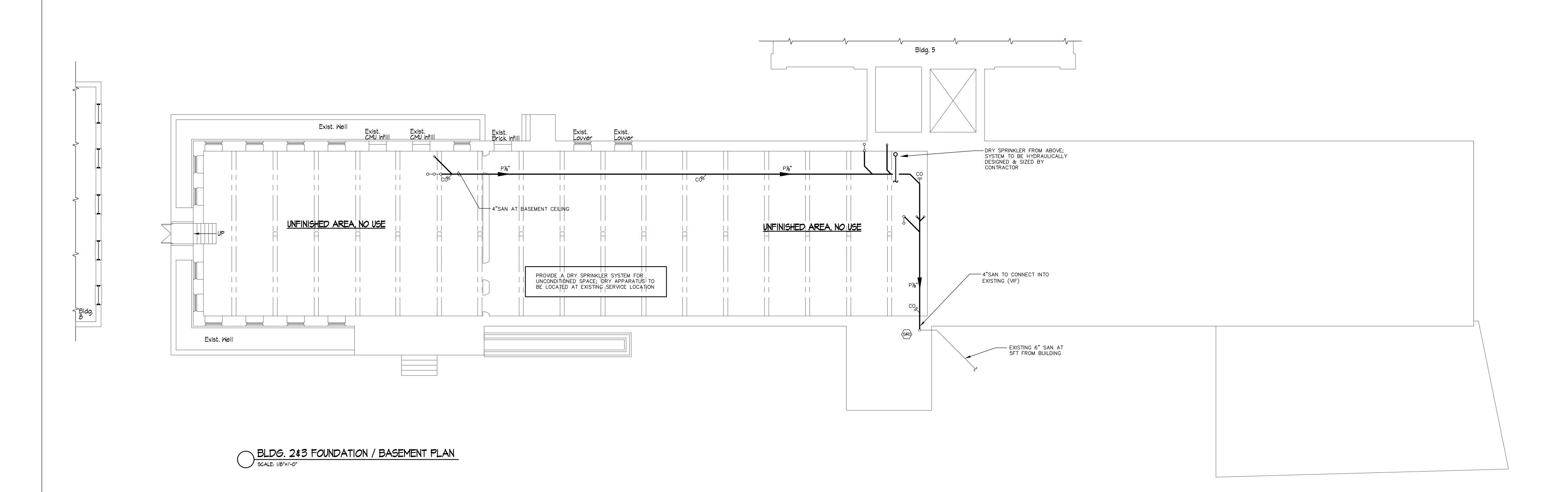
PLUMBING NOTES:

1. ALL WATER PIPING TO BE WITHIN THE HEATED ENVELOPE OF BUILDING. ALL BRANCH PLUMBING WATER PIPES TO HAVE STOP AND WASTE VALVES.

NOTES PERTAIN TO ALL DRAWINGS

- 2. PIPING AS SHOWN IS ONLY DIAGRAMMATICALLY PRESENTED; CONTRACTOR IS TO COORDINATE WITH OTHER TRADES AND NEW STRUCTURAL ELEMENTS.
- 3. ALL PENETRATIONS OF RATED ASSEMBLIES TO BE SEALED WITH APPROVED
- FIRE RATED CAULK; FIRE PENETRATION SYSTEMS SHALL MEET THE UL LISTING FOR EXISTING WALL OR FLOOR CONSTRUCTION.
- 4. PROVIDE ACCESS DOORS AS NEEDED FOR ALL SHUT-OFF VALVES AND COMPONENTS NEEDING ACCESS; COORDINATE WITH GENERAL CONTRACTOR.
- 5. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.
- 6. INSULATE EXPOSED PIPING BELOW HANDICAP LAVATORIES AND SINKS.
- 7. ALL EXTERIOR EXPOSED GAS PIPING TO BE PAINTED. 8. PROVIDE SEISMIC BRACING AS REQUIRED PER CODE.
- 9. ALL FIXTURE WATER TERMINATIONS TO BE COPPER & THROUGH THE WALLS (UNLESS ON AN EXTERIOR WALL, THEN THROUGH FLOOR TO BE PERMITTED) AND HAVE ESCUTCHEON PLATES.
- 10. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY IN THE FIELD ALL LOCATIONS AND SIZE OF EXISTING MAIN SANITARY AND WATER PIPING BEING TIED INTO AND VERIFY CONTINUITY, CONDITION AND PROPER SIZE. IF PIPING DOES NOT CONFORM TO ALL CONDITIONS THEN THE ARCHITECT & ENGINEER IS TO BE NOTIFIED.
- 11. ALL OVERHEAD PIPING AT EACH FLOOR TO BE AS HIGH AS POSSIBLE TO MAXIMIZE CLEARANCE BELOW.

SCHEDULE OF SIZING FOR ROUGHING FOR PLUMBING FIXTURES									
WATER CLOSET- TANK TYPE	1/2"CW	3"S	2"V						
LAVATORY SINK	1/2" H & CW	1-1/2"W	1-1/2"V						
WATER COOLER	1/2" CW	1-1/2"W	1-1/2"V						
SERVICE SINK	1/2" H & CW	1-1/2"W	1-1/2 " V						
HOSE BIB	3/4"CW								



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Kaplan

Mill

Hockanum

Architecture Preservation Interiors

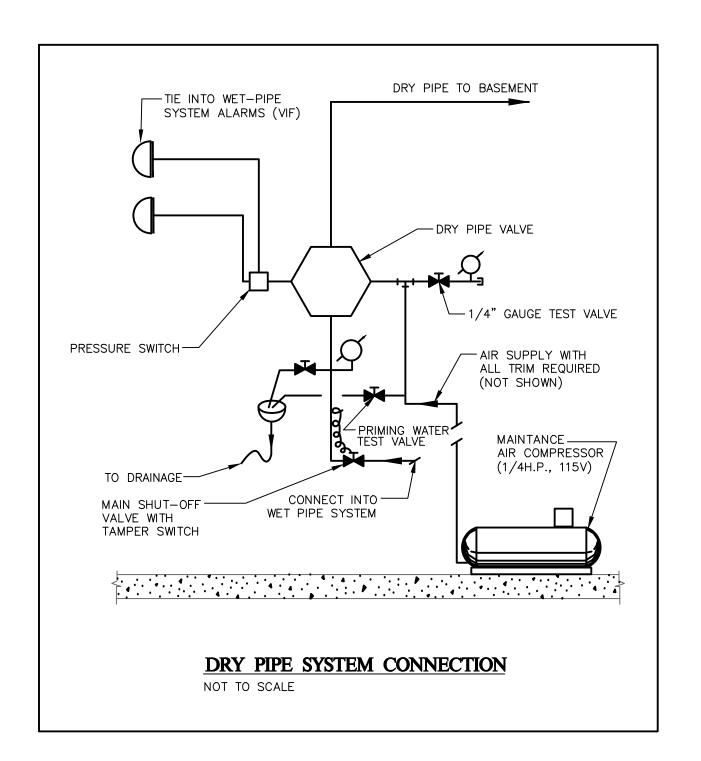
One Union Place, Hartford, CT 06103

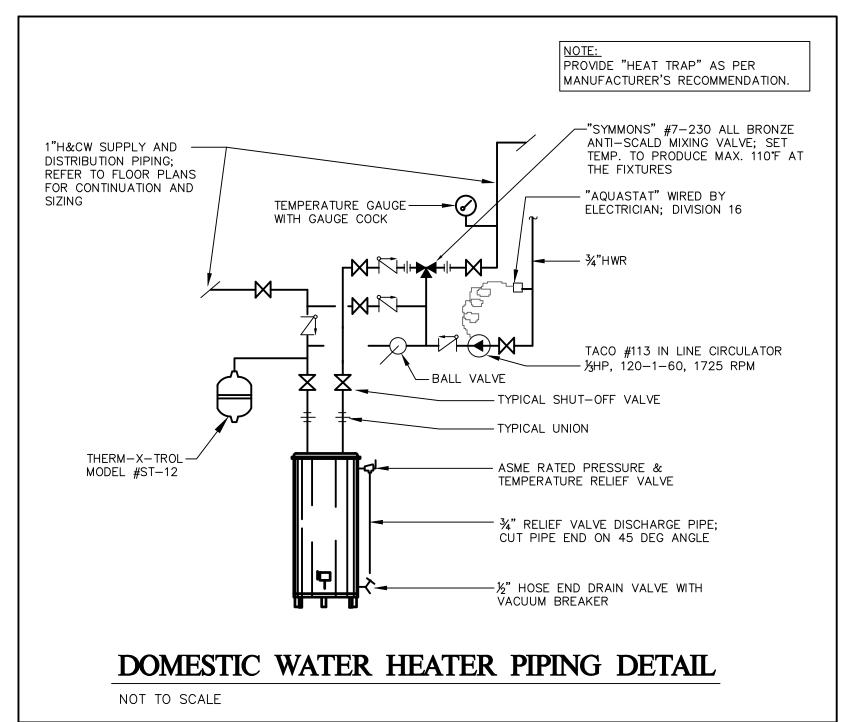
T: (860)724-3000 F: (860)724-3013

May 9, 2017

BASEMENT FLOOR PLAN -FIRE PROTECTION & PLUMBING







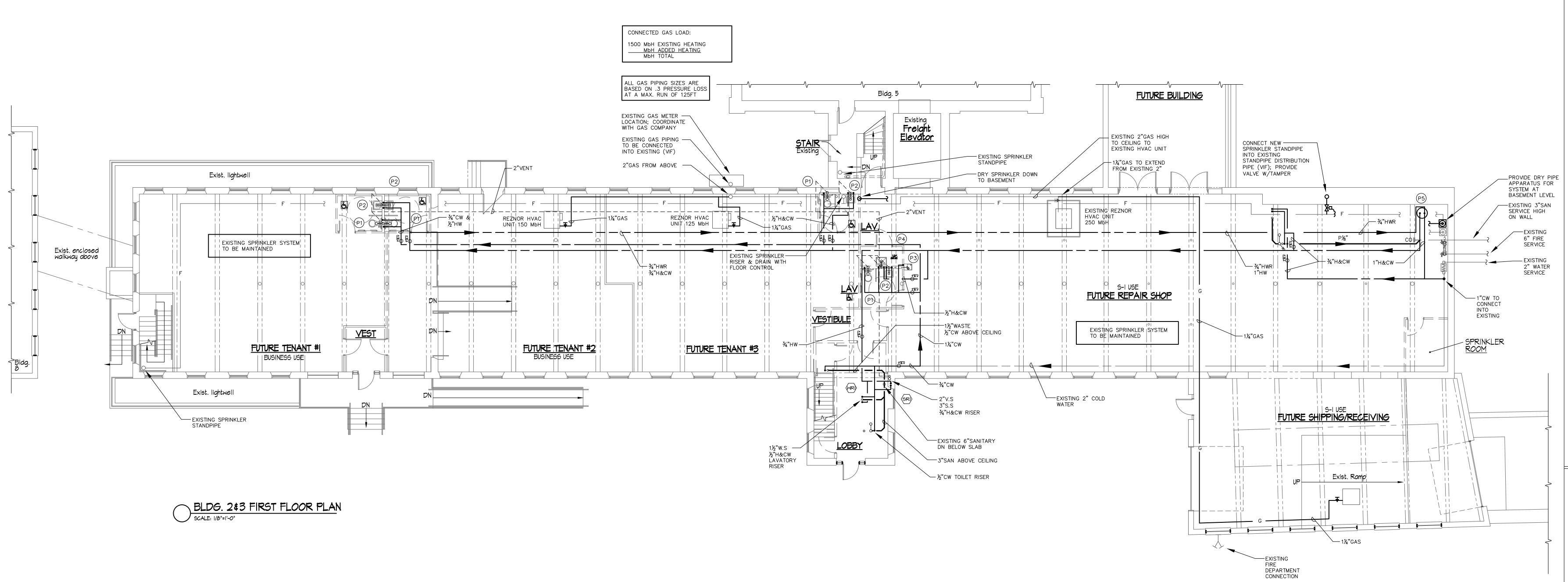
FIXTURE SCHEDULE

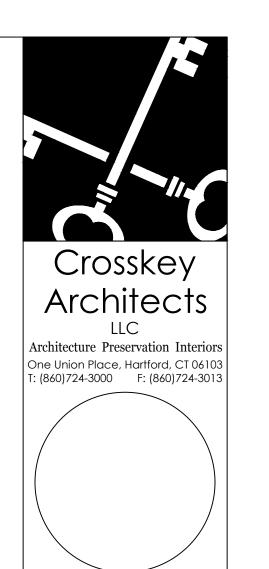
- FIXTURE: "Kohler", Highline, Comfort Height, Class Five Elongated Toilet, Model #K-3658 Vitreous china. 16½" Comfort Rim Height, 1.28 Gal. flush, Elongated bowl, Floor mounted, Floor outlet. Provide Braided supplies, stops & escutcheons. Fixture is ADA Compliant.

 Seat: "Olsonite" #47 Elongated bowl, open front seat LESS cover.
- FIXTURE: "Kohler", Brenham, Wall mounted lavatory, Model #K-1997-4 Vitreous china, 4" center holes, concealed arms. Provide with wall carrier, Braided supplies, stops & escutcheons, 1¼" 17ga chrome P-trap, Front overflow, 22"x19¾" size. Undersink protection by "TRUEBRO LAV GUARD" Model #103.

 Trim: "Symmons" Model #S-20-2-G-W-.5, 6" Lever chrome finish Faucet with grid drain assembly, vandal resistant ½GPM aerator. Fixture is ADA Compliant.
- P3 "ELKAY", Model #EZ4, Water Cooler, Single level wheelchair access model, includes LK464 drain and trap assembly. Fixture is ADA compliant.
- FIXTURE: "Fiat", Service Sink, Model #MSB-2424 Molded-stone mop service sink.

 Trim: "Fiat", Service Faucet, Model #830-AA. 30" hose & bracket Model #832-AA, Mop bracket Model #889CC, Wall guard Model #MSG 2424.
- (P5) "A.O. Smith", Model #DEN-30, Commercial Electric Water Heater, 30 Gal. capacity, Non-Simultaneous double element element operation, single-phase, 208V, 4500/4500 Watt, 20 GPH recovery at 90°F temperature rise, glass lined, thick permafoam insulation, anode protection and a T&P relief valve.
- H.B.I ANSI/ASSE 1011; Non—freezing area, chrome plated hose thread spout, lock shield and removable key and integral vacuum breaker. Hydrant shall be Model #44—VB—PC and manufactured by Woodford or approval equal.
- H.B.E ANSI/ASSE 1019; Non-freeze, self-draining type with chrome plated hose thread spout, lock shield and removable key and integral vacuum breaker. Hydrant shall be Model #25C an manufactured by Woodford or approval equal.
- W.C.O. "J.R. Smith" #4400 Series—U Duco C.I. Spigot Ferrule with cast bronze taper thread plug. Chrome plated bronze round frame and vandal proof screws.
- F.C.O. "J.R. Smith" #4020—U Series, No—hub outlet. Duco C.I. Cleanout with round adjustable scoriated nickel bronze top. Vandal proof top.





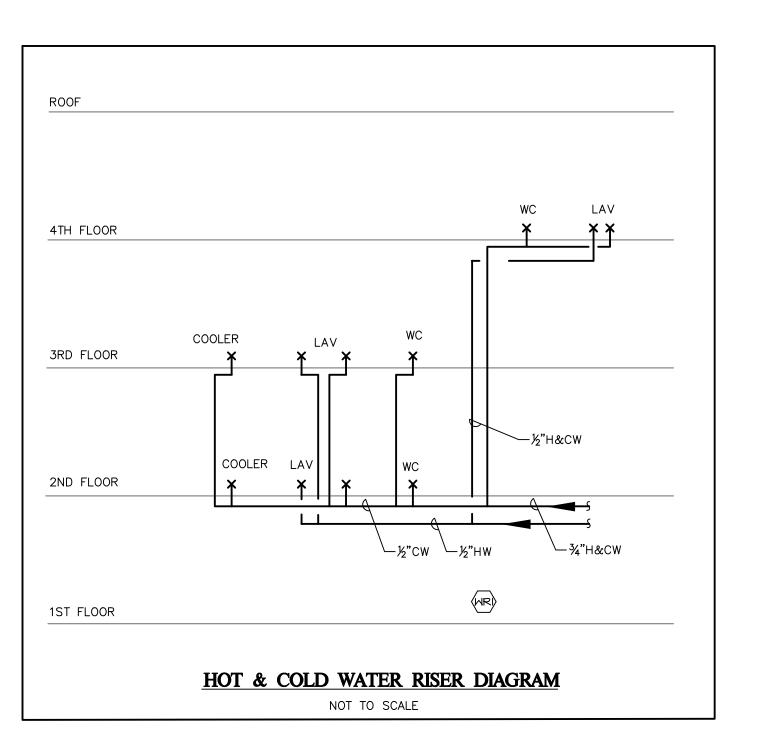
Hockanum Mill 200 West Main Street, Rockville, CT

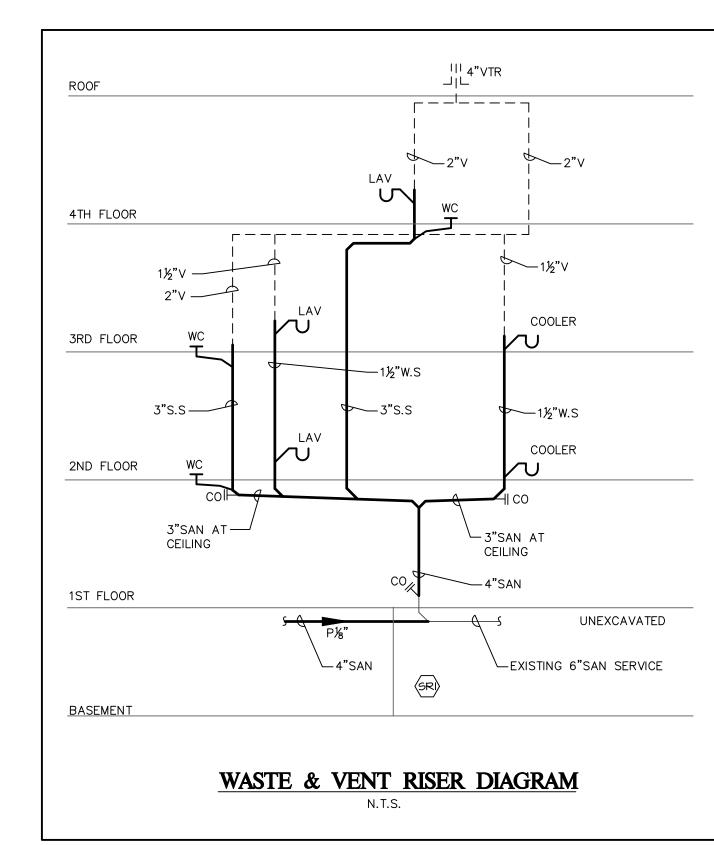
Drawn: RJM
Date: May 9, 2017
Revisions

FIRST FLOOR
PLAN - FIRE
PROTECTION &
PLUMBING

FP-1.2

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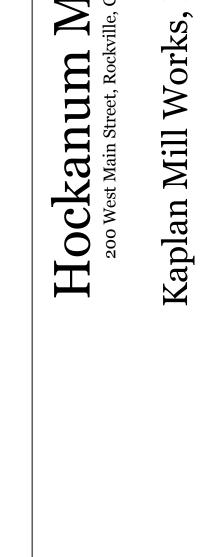




Crosskey

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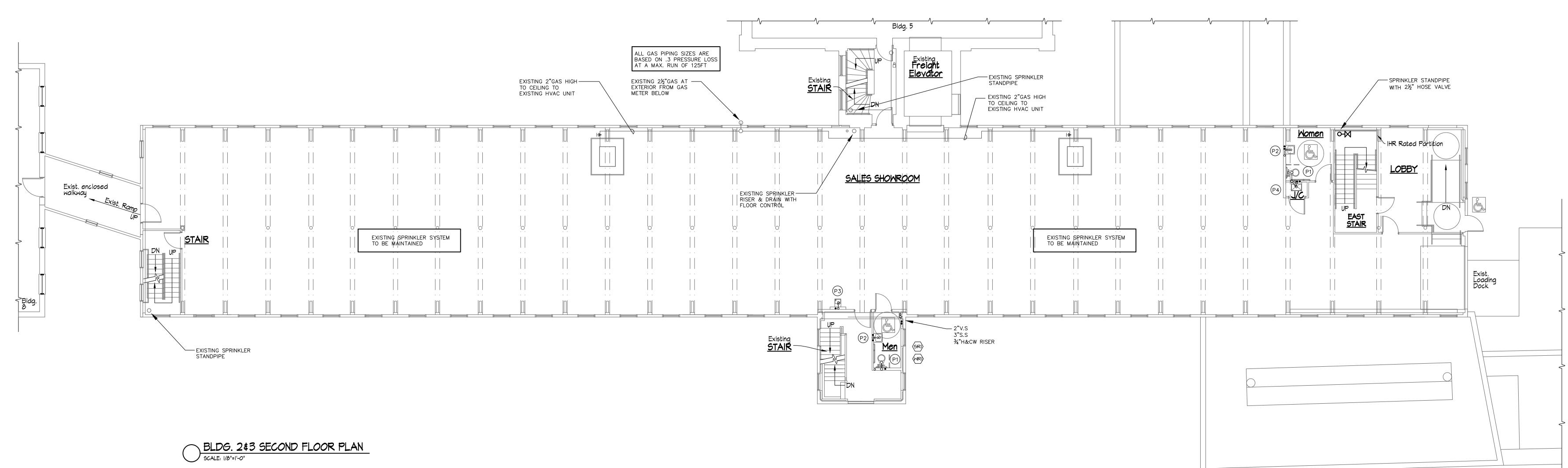


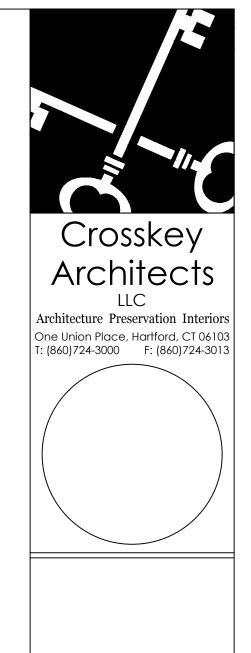
May 9, 2017

SECOND FLOOR
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200 West Main Street, Rockville, CT
Kaplan Mill Works, LLC

Drawn: RJM
Date: May 9, 2017
Revisions

THIRD FLOOR
PLAN - FIRE
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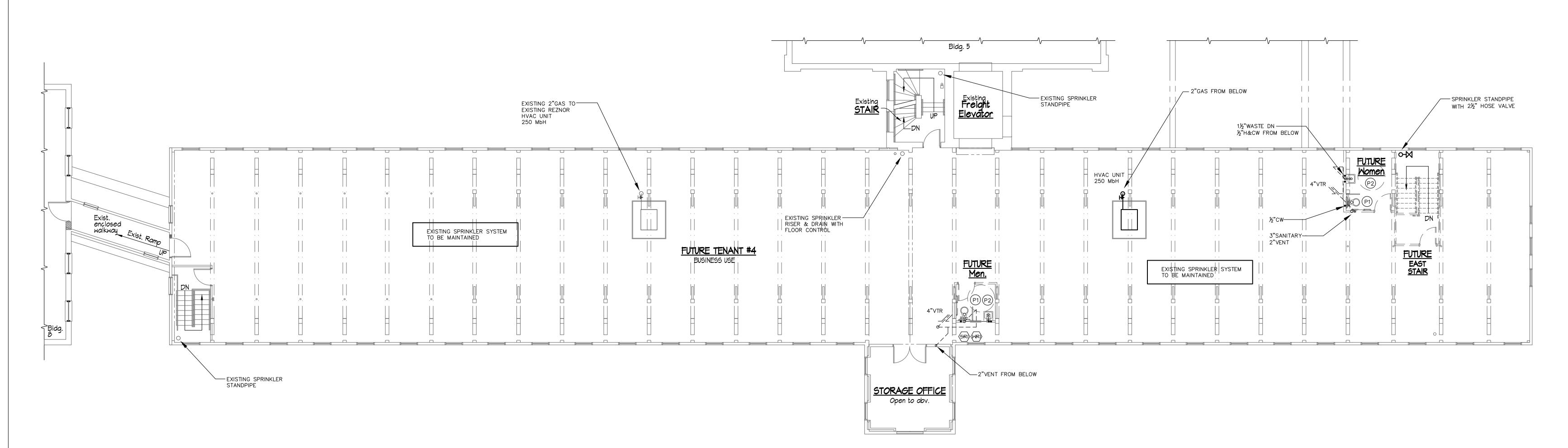
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Hockanum Mi 200 West Main Street, Rockville, CT Kaplan Mill Works, L

Drawn: RJM
Date: May 9, 2017
Revisions

FOURTH FLOOR
PLAN - FIRE
PROTECTION &
PLUMBING

FP-1.5



BLDG. 2&3 FOURTH FLOOR PLAN

SCALE: 1/8"=1'-0"



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FIRE PROTECTION AND PLUMBING SPECIFICATIONS

PART I. WET-PIPE SPRINKLER SYSTEM

1.00 GENERAL

A. Intent of the specifications is to call for finished work, tested and ready for operation.

B. Material and equipment mentioned in specifications or shown on the drawings shall be furnished new, completely installed and adjusted, and left in a clean, safe, and satisfactory condition ready for operation.

C. Minor details not usually shown or specified, but necessary for the proper installation and operation of the work shall be included as if specified herein.

D. Prior to submitting a bid, visit the site of the work, inspect the existing building and conditions so as to determine if these conditions will affect the work. Bidders are cautioned that they will be held responsible for any assumptions made regarding existing conditions.

E. Equipment and materials furnished or required shall be new, without blemish or fault, equipment shall bear labels attesting to approval by Underwriters Laboratories, AGA, or other recognized testing laboratory where specified or required to have such approval.

F. Where no specific indication as to type or quality is indicated, a first—class article shall be furnished.

G. Fully insure all employees, material and furnished work as required by the General Conditions of the contract.

H. Unless otherwise indicated, the work for each section shall include all scaffolding, rigging, hoisting and services necessary to deliver, install, erect in place all items as specified. Remove such handling materials when no longer needed.

1.01 WORK INCLUDEDA. Wet-pipe fire protection system Modification & Dry-pipe addition.

B. Sprinkler heads.

C. Coordination with existing conditions.

D. Sprinkler system and devices signage.

E. Hangers and supports for sprinkler installation.

1.02 REFERENCES

A. NFPA—13 — Installation of Sprinkler Systems, 2010 Edition.

B. International Fire Code, 2012 Edition with "Connecticut State Fire Code Amendments".

C. International Building Code, 2012 Edition. "With Connecticut Supplements"

D. NFPA 220 — Types of Building Construction, 2010 Edition.

1.03 SYSTEMS DESCRIPTION

A. Modify and Extend existing wet—pipe sprinkler system as indicated.

A. Modify and Extend existing wet—pipe sprinkler system as indicate

B. The piping layout and head locations indicated on the Contract Drawings are diagrammatic. The Contractor is responsible for a complete, fully coordinated installation.

C. Coordinate existing structural elements and building construction for adequate coverage.

D. System shall be designed to meet NFPA—13 Standard, Engineer's requirements, Fire Marshal's requirements.

1.04 QUALITY ASSURANCE

A. Design and installation to conform to NFPA-13.

B. Equipment and Components: Bear UL.

C. Additional coverage shall conform to referenced code above.

D. System design and installation shall meet the requirements of the local Fire Marshal.

1.05 SUBMITTALS

A. Submit shop drawings and product data for approval.

B. Submit manufacturer's data, drawings, and installation instructions for all equipment and specialties.

C. Submit installation shop drawings, including major building structural components, detailed pipe layout, elevations, hanger and support locations, seismic brace locations, and components and accessories. Show all changes in ceiling elevation, obstructions. Coordinate these shop drawings with all building elements, including, but not limited to, mechanical system, electrical systems, structural systems, architectural components, reflected ceilings, etc. Provide dimensioning of critical areas.

D. Shop Drawings shall be $\frac{1}{4}$ equals 1'-0" scale minimum.

E. After successful review by Architect and Engineer, submit shop drawings to Owner's insurance underwriter and local Fire Marshal for approval. Submit proof of approval to Architect/Engineer. Any deviation from approved plans must require approval from the Fire Marshal and Architect/Engineer.

PART 2 PRODUCTS

2.01 SPRINKLER HEADS

A. Coordinate new head with same manufacturer as existing.

1. Adjustable pendent chrome type.

2. Upright brass heads.

3. Dry Sidewall heads.2.02 PIPING

2.02 PIPINGA. Provide schedule 40 steel piping (threaded).

PART 3 EXECUTION

3.01 PREPARATION

A. Coordinate work of this Section with other affected work.

B. The Contractor shall field verify prior to the installation of the sprinkler system the location of exposed structure and other building elements. The Contractor shall furnish and install the appropriate sprinkler head type and spacing per NFPA for this application.

3.02 INSTALLATION — PIPING

A. Place pipe runs to minimize obstruction to other work and existing construction. Provide pipe offsets to avoid all obstructions and interferences.

B. The Contractor may be allowed to deviate from the design drawings with the permission of the Engineer. The Contractor shall be responsible for any additional expenses that the deviation may require.

C. Hangers and supports shall be in accordance with the requirements of Section 6-1 of NFPA-13 for Sprinkler piping.

D. Where necessary or directed by the Fire Marshal, provide intermediate pipe support members, connecting these members into existing building structure.

3.03 DELIVERY, STORAGE AND HANDLINGA. Provide temporary caps.

B. Maintain caps in place until installation.

3.04 EXTRA STOCK

A. Provide extra sprinkler heads under provisions of NFPA—13. Provide extra sprinkler heads in proportion to the type of heads installed.

B. Provide suitable wrenches for each head type.

C. Provide sprinkler head cabinets to store the extra supply of heads and wrenches in locations designated.

3.05 CLEANING

A. Flush entire piping system of foreign matter.

3.06 SYSTEM TESTS

A. Hydrostatically test entire refurbished system.

B. Test shall be witnessed by authority having jurisdiction.

II. PLUMBING SPECIFICATIONS

1.01 SCOPE

A. All plumbing equipment, materials and accessories necessary to complete the plumbing system as shown on drawings and described, or as required to put the system in operation, are a part of this Contract.

B. Work shall include furnishing all labor and materials, equipment, and tools necessary to install a complete plumbing system as shown on Drawings and/or called for in the specifications, Including all pipe valves, fittings, fixtures, drains, insulation, miscellaneous specialties and accessories. Contractor, to identify in field all existing sanitary, vent, cold water and hot water in order to connect new plumbing lines.

C. The plumbing system for the building shall consist of, but not be limited to, the following:

1. A complete gravity sanitary system, vent and drain pipes to be connected into existing sanitary/vent system.

2. A complete system of hot and cold water piping system to fixtures.

3. Insulation of piping, as hereinafter described.

4. A complete gas system to new HVAC, including connection into existing piping.

1.02 SOIL, WASTE, VENT AND DRAINAGE LINES

A. All offsets shall be made at an angle of not more than 45 degrees, and all horizontal runs shall have a pitch of not less than ½" to the foot (½" for piping under 3"). Branch, waste and vent connections shall be run to the house drain or vent stacks as shown on the Drawings. Vertical vent pipes may be connected to a stacks as shown on the Drawings. Vertical vent pipes may be connected to a one main vent riser above fixtures serving other fixtures, the vent line shall be extended 3 ft. above the floor on which the fixtures are located vent line before being connected to the other vent lines, so as to prevent the use of any vent line as a waste.

B. All changes in pipe size shall be made with reducing fittings or recessed reducers, Y—fittings, and ½" or ½6" bends or combination Y— and ½" bends shall be used where possible.

C. Sanitary long sweep bends and T's shall be used for connections to branch lines for fixtures and on vertical runs on pipe. Long turn fittings shall be used wherever conditions permit. Long sweep fittings shall be used on all horizontal to vertical runs.

D. Soil, waste, and vent branch piping installed above floor slab in walls shall be plastic pipe type "PVC" Schedule 40 with fittings. Joints to be solvent—cemented. Soil & waste piping installed below floor slab shall be plastic pipe type "PVC" Schedule 40 with fittings. Joints to be solvent—cemented. (Contractor to use plenum rated materials as required.)

1.03 CLEANOUTS

A. The plumbing contractor shall provide cleanouts, of same size as line served up to 4", at changes in direction of drain lines of 90 degrees or more, and elsewhere as

B. Cleanouts shall have raised heads and shall be located and installed so that they may be readily accessible and removable for cleaning lines.

.04 WATER PIPING

A. Plumbing contractor shall supply and install valves, a complete system of hot and cold water piping, plumbing fixtures, etc., all as shown on Plumbing Drawings.

B. Hot and cold water piping shall be hard drawn copper tubing Type "L". Joints to be 95—5 solder.

C. Pipe sizes shall be not less than sized indicated on Drawings and specified herein.

1.05 GAS PIPING

1.07 UNIONS

threads.

A. Gas piping shall be schedule 40 black steel pipe.

B. Plumbing contractor shall commence with gas pipe to equipment as shown on plans. Plumbing contractor shall be responsible for any charges for the complete gas

1.06 CONNECTIONS TO FIXTURES

A. All branches from mains shall be equipped with stop and waste valves.

B. Connections shall be made from the top of the mains, unless otherwise specified. Branches shall drain toward the mains. The piping installation shall be so arranged that the entire system can be drained through accessible valves at low points. The plumbing contractor shall provide the necessary valves.

A. Where union connections are installed on pipe 1" in diameter and smaller, they shall be of brass composition "B".

B. All piping shall be provided at intervals with unions to permit alterations and repairs.

1.08 VALVES

A. The entire plumbing system shall be provided with valves, so located that they may be operated, repaired and/or replaced with a minimum of effort.

B. The following list of valves is intended only as a guide to the plumbing contractor:

Ball Valves, ¼" - 4" - WATTS B6000 Series.
 Gate Valves, ¼" - 4" - WATTS GV Series.

3. Globe Valves, ¼" - 2" - WATTS GLV Series.

1.13 PLUMBING FIXTURES — GENERAL REQUIREMENTS

4. Stop and Waste Valves, 1" and smaller — WATTS Series SWS.

C. Valves shall be Crane, Jenkins, Red & White or Nibco, located as shown on Drawings, and on all branch mains.

1.09 PIPE SUPPORTS

A. Piping shall be supported form the building structure by means of approved hangers and supports. Pipeline shall be supported to maintain required grading and pitching of lines to prevent vibration and to secure piping in place, and shall be so arranged as to provide for expansion and contraction.

B. The spacing of hangers shall not be greater than 4 ft. center to center for pipe smaller than 1".

C. Vertical lines shall be adequately supported at their bases by a suitable hanger in place with the horizontal line near the riser.

1.10 PIPE SLEEVES AND RECESSES

D. Hangers for copper tubing shall be copper plated, equal to Grinnell No. 97 CP. All other hangers shall be adjustable clevis hangers. Hanger rods shall have machine

A. The plumbing contractor shall furnish and install sleeves in connection with all piping passing through masonry. Plumbing contractor shall be responsible for location, setting and anchoring of sleeves in a substantial manner so that they will not be displaced. Plumbing pipes run in sleeves shall be made Fireproof by Contractor. Fire protection system shall meet the UL listing for existing wall or floor construction.

B. Where recesses are required for piping, the plumbing contractor shall instruct the various trades as to sizes and locations required in advance of construction.

1.11 ESCUTCHEONS

A. Where un—insulated, exposed pipes pass through floors, finished walls, or finished ceilings, they shall be fitted with neat, heavy spun or stamped escutcheons, firmly secured to pipes. Escutcheons shall be of sufficient outside diameter to amply cover the sleeve openings for pipes. Escutcheons shall be nonferrous metal, chromium plated.

1.12 INSULATION OF PIPING

A. All insulation and covering on pipe and tubing to meet the IBC2003 Section 719.7 for flame spread index.

B. Hot Water Lines: All hot water pipes shall be insulated with closed cell elastomeric insulation, ¾" thick, as manufactured by Armstrong Corporation, Johns-Manville, or

approved thermal equal.

C. Cold Water Lines: All cold water pipes, including horizontal and vertical runs, shall be insulated with closed cell elastomeric insulation, ½" thick, with factory applied vapor barrier jacket, as manufactured by Armstrong Corporation, Johns—Manville, or approved thermal equal.

A. Plumbing contractor shall furnish and install all fixtures in accordance with the Drawings and with the schedule.

B. Where escutcheons are not furnished with plumbing fixtures, the plumbing contractor shall supply them.

C. Each fixture shall be separately trapped, using the type and size of trap required by the Plumbing Code.

D. Unless otherwise specified, faucets and all exposed fittings shall be chromium plated.

E. All low voltage wire for fixtures and or faucets shall be provided and installed by contractor.

quality.

1.14 INSTALLATION

F. The Owner and the Architect shall be the final judges as to whether fixtures fulfill the requirements of the specifications and as to whether they are of a suitable

A. Plumbing contractor shall furnish, set, seal and connect all fixtures and accessories shown and specified, including all necessary supports, connections, fittings and parts required to fully complete the plumbing installation.

1.15 ACCESS DOORS

A. Where access doors in walls or ceilings are required for valves, traps, etc., they shall be of flush type with anchor, frame and hinged panel as manufactured by Milcor or Zurn. Access doors shall be furnished by plumbing contractor to the General Contractor who will install them.

1.16 TESTING AND START—UP

A. Test all drainage piping, including vents to a minimum of 10 feet head for 2 hours without leakage or any drop in water level.

B. Test all hot and cold water piping hydraulically to 150 psig for 24 hours without leaks or loss of pressure.

C. Flush all piping to remove all dirt and debris before starting up any system.

D. Check the water flow at faucet. Run full flow tests for each system and correct any noise, vibration, or water hammer.

E. Perform disinfection of domestic water piping system, as required by Code.

F. Test the final gas distribution entirely as per Code.

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Drawn: RJM
Date: May 9, 2017
Revisions

SPECIFICATION -FIRE PROTECTION & PLUMBING

FP-2.1

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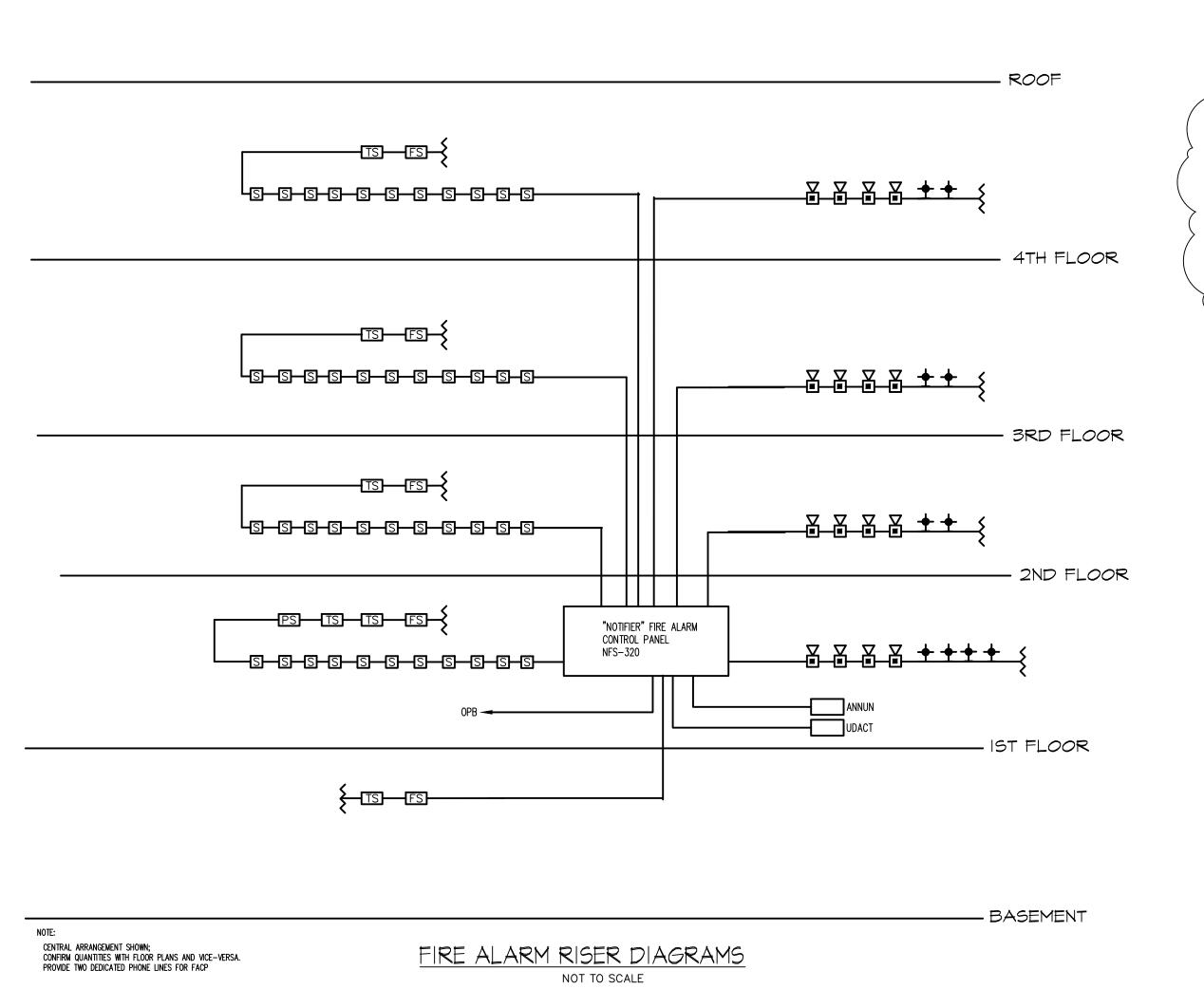
Kaplan Mill Works,

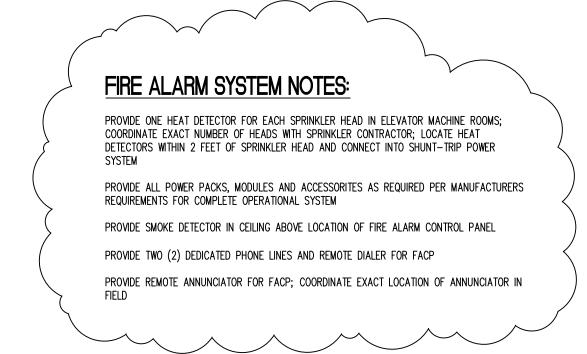
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FM COMMENTS 8-4-17

BASEMENT FLOOR PLAN ACORN
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YPE	MFG.	CATALOG #	DESCRIPTION	LAMPS	VOLTAGE
Α	ANP LIGHTING	CAT# W516 021LD N W 35K RTC BLC FINISH	WAREHOUSE SHADE - CEILING MOUNT	18 WATT LED	120
В	ANP LIGHTING	CAT# WM 1926 M009LDN N 35K FINISH	WAREHOUSE SHADE - 12" WALL MOUNT (VANITY)	18 WATT LED	120
С	DAYBRITE	CAT# T2 32 UNV 1/2EB	4' 2 LIGHT T-8 FLUORESCENT TEMP LIGHT	2-T8 32 WATT LAMPS	120
D	ANP LIGHTING	CAT# W514MO13LD N N 35K WM35 FINISH	WAREHOUSE SHADE - 14" WALL MOUNT (EXTERIOR)	18 WATT LED	120
E	EXITRONIX	CAT# LED52 WH	EMERGENCY LIGHT	INC	120
E1	EXITRONIX	CAT# LED52 WH R2	EMERGENCY LIGHT WITH REMOTE HEAD CAPABILITY	INC	120
E2	EXITRONIX	CAT# 2RL52WH	REMOTE EMERGENCY LIGHT HEAD	INC	12
Х	EXITRONIX	CAT# VEX U BP WB WH	EXIT LIGHT.	INC	120
XHC	EXITRONIX	CAT# CT70E WB WH	HANDICAP EXIT LIGHT.	INC	120
XE	EXITRONIX	CAT# VLEDC 51	COMBINATION EXIT AND EMERGENCY LIGHT	INC	120
				INC	120

PROJECT NO:		•	PANEL:		MP1A		DATE:	5/9/1
LOCATION: 4TH FLOO			MOUNTING	MOUNTING:			FEED:	TO
VOLTAGE: 1		208	SOURCE:		MDP		BUS AMP:	100
WIRE:	4		COND:		1 1/4"		BRKR:	ML
PHASE:	3	1	WIRE:		#2 AWG		GROUND:	#6 AW
	LOAD		СВ		СВ		LOAD	
CKT	DESCRIPTION	WATTS	AMP		AMP	WATTS	DESCRIPTION	CKT
1	EH1.1	2400	2P-20	Α	2P-20	2000	EH1.7	2
3	ll ll	2400	П	В		2000	П	4
5	EH1.2	750	2P-20	С	20	1000	EH1.8	6
7		750	П	Α	20	1000		8
9	EH4.3	750	2P-20	В	20	750	EH1.9	10
11	ll II	750	Ш	С	20	750	l II	12
13	EH1.4	750	2P-20	Α	20	750	EH1.10	14
15		750		В	20	750		16
17	EH1.5	750	2P-20	С	20	615	UH-1	18
19		750	П	Α	20	615	UH-1	20
21	EH1.6	750	2P-20	В	20	615	UH-3	22
23	ll II	750	Ш	C	20	615	UH-4	24
25	WATER HEATER	2250	2P-20	Α	20			26
27		2250		В	20			28
29			20	С	20			30
TOTAL W	ATTS/PH: A=	11265	B=		11015	C=	5980 TOTAL WATTS:	28260
							TOTAL AMPS:	78.4

1. VERIFY BREAKERS WITH NAMEPLATE RATINGS OF EQUIPMENT IN FIELD. 2. PROVIDE SIX (6) 20A-1P SPARE BREAKERS. 3. PROVIDE FULL COPPER BUSSING.

EH-1.5

SEE MECHANICAL DRAWINGS FOR DETAILS ON HEATERS AND EXHAUST FANS (TYPICAL) FUTURE BUILDING 4.5 KW WATER HEATER. PROVIDE ELECTRICAL WIRING FOR RE-CIRCULATION PUMP AS REQUIRED Exist. lightwell PROVIDE WIRING FOR DRY
SYSTEM COMPRESSOR AS
REQUIRED. CONNECT TO
AVAILABLE CIRCUIT SPACE
IN MP1 S-I USE FUTURE REPAIR SHOP Exist. enclosed walkway above Exist. lightwell EH-1.1

SEE MECHANICAL DRAWINGS FOR DETAILS ON HEATERS AND EXHAUST FANS (TYPICAL) Exist. Ramp BLDG. 2\$3 FIRST FLOOR PLAN

SCALE: 1/8"=1'-0"

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FIRST FLOOR PLAN

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Mill

Hockanum

Kaplan

May 9, 2017

FM COMMENTS 8-4-17

El	LECTRIC SYMBOL LIST							
ф	DUPLEX RECEPTACLE OUTLET							
•	DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTERTOP							
О О • Н	TYPICAL LIGHTING FIXTURES (see schedule)							
	TYPICAL LIGHTING FIXTURES WITH BATTERY BACKUP (see schedule)							
\$	SINGLE POLE WALL SWITCH							
\$3 \$4	WALL SWITCH; 3 DENOTES THREE WAY; 4 DENOTES FOUR WAY							
\$ _T	SWITCH WITH THERMAL OVERLOAD							
	WIRE CONCEALED IN WALLS OR CEILING							
/\	SWITCHED CIRCUIT							
	HOMERUN TO SERVICE PANEL; NUMBER OF WIRES INDICATED							
\otimes	EXIT SIGN WITH BATTERY BACKUP (see schedule)							
9	CALL-FOR-AID DOME LIGHT							
E	CALL—FOR—AID PULL STATION							
	CIRCUIT BREAKER PANEL BOARD — VOLTAGE NOTED							
4	EMERGENCY LIGHT WITH BATTERY PACK							
Ē	DISCONNECT SWITCH							
U U	JUNCTION BOX							
7	REMOTE EMERGENCY HEAD							
GFI	GROUND FAULT CIRCUIT INTERRUPTER							
WP	WEATHERPROOF							

ELECTRICAL POWER NOTES:

ALL WORK IS NEW UNLESS OTHERWISE NOTED.

2. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND LOCATIONS. VERIFY WITH ARCHITECTURAL PLANS AND COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT/G.C. OF ANY DISCREPANCIES IF DISCREPANCIES ARE NOTED. DO NOT PROCEED WITHOUT ARCHITECTURAL APPROVAL.

3. HVAC AND PLUMBING EQUIPMENT ARE SHOWN FOR REFERENCE ONLY. E.C. SHALL COORDINATE EXACT LOCATIONS AND POWER REQUIREMENTS OF APPLICABLE HVAC AND PLUMBING EQUIPMENT WITH MECHANICAL DRAWINGS. E.C. SHALL MAKE ALL FINAL CONNECTIONS TO ALL CONTROLS, OWNER-SUPPLIED EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT AS NEEDED.

4. E.C. SHALL PROVIDE DISCONNECT SWITCHES AND STARTERS AS REQUIRED FOR ALL EQUIPMENT WHERE THE DISCONNECT SWITCH IS NOT PROVIDED WITH THE EQUIPMENT OR BY OTHERS. 5. E.C. SHALL SUPPLY AND INSTALL FEEDERS, FUSES AND CIRCUIT BREAKERS TO MATCH THE NAME-PLATE RATING OF ALL EQUIPMENT. THIS SHALL BE INCLUDED IN THE INITIAL BID PROPOSAL AND NO EXTRAS WILL BE ACCEPTED.

6. ELECTRICAL OUTLET PLATE GASKETS SHALL BE INSTALLED IN ALL RECEPTACLES, SWITCHES OR OTHER ELECTRICAL BOXES IN WALLS SEPARATING CONDITIONED AND UNCONDITIONED SPACE. 7. ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED. 8. MANUAL FIRE ALARM PULL BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT.

9. THE HEIGHT OF THE MANUAL FIRE ALARM PULL BOXES SHALL BE A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48 INCHES MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX.

10. THE MINIMUM MOUNTING HEIGHT OF THE COMBINATION HORN/STROBES SHALL BE 80 INCHES AFF TO THE BOTTOM AND MINIMUM OF 6 INCHES BELOW THE FINISHED CEILING TO THE TOP. 11. COMBINATION HORN STROBES SHALL HAVE A SOUND LEVEL RATING FROM A MINIMUM OF 75 dBA AND A MAXIMUM OF 120 dba. The following must be achieved: A minimum of 15 dba over average AMBIENT SOUND LEVEL. A MINIMUM OF 90 dBA IN MECHANICAL ROOMS. ALL STROBES OUTPUTS SHALL BE

12. CONNECT ALL BATHROOM EXHAUST FANS TO ASSOCIATED LIGHT SWITCH UNLESS OTHERWISE NOTED. 13. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO HVAC CONTROL WIRING; COORDINATE ALL REQUIREMENTS WITH DIV 15

14. ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED 15. HEIGHT OF UNIT PANELS IN HC AND HC ADAPTABLE UNITS SHALL BE 48" AFF TO HIGHEST BREAKER. 16. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF PLUGS AND LIGHTS IN

ELECTRICAL LIGHTING NOTES:

REFER TO ARCHITECTURAL REFLECTIVE CEILING PLANS FOR EXACT LOCATIONS OF CEILING MOUNTED LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES INDOORS AND OUTDOORS.

2. ALL LIGHT FIXTURES IN CEILING SHALL BE BRACED TO THE BUILDING STRUCTURE AND NOT TO THE 3. EMERGENCY LIGHTING UNITS AND EMERGENCY BALLASTS SHALL BE WIRED INTO ASSOCIATED LIGHTING CIRCUITS AHEAD OF ANY SWITCHED LEGS FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING.

4. COORDINATE LOCATIONS AND DIRECTIONAL ARROWS OF ALL EXIT SIGNS WITH ARCHITECTURAL EGRESS 5. PROVIDE IC HOUSING FOR LIGHTING FIXTURE WHERE REQUIRED; COORDINATE WITH ARCHITECTURAL

6. FLOOR PROXIMITY EXIT SIGNS SHALL BE MOUNTED NOT LESS THAN 6 INCHES AND NO MORE THAN 18 INCHES ABOVE THE FINISHED FLOOR AND WITH THE NEAREST EDGE WITHIN 4 INCHES OF THE DOOR.

CONNECTIONS TO EXISTING CONDITIONS: 1. WHERE NEW CIRCUITS ARE TO ADDED TO EXISTING PANELBOARDS, CONFIRM THAT PANEL HAS

SUFFICIENT SPACE AND CAPACITY FOR NEW LOADS. 2. MODIFY EXISTING PANEL DIRECTORIES TO REFLECT NEW CIRCUITS, ADDED OR DELETED.

3. WHERE NOT SPECIFICALLY INDICATED, NEW CIRCUITS ARE TO BE EXTENDED TO THE NEAREST APPROPRIATE PANEL. 4. ALL NEW CIRCUITRY SHALL BE COMPLETE WITH REQUIRED BRANCH CIRCUIT PROTECTION AND GROUNDING CONNECTIONS.

5. ANY WORK REQUIRING THE SHUT-DOWN OF ELECTRICAL SERVICE TO THE BUILDING AND/OR ANY PORTION THEREOF, THE E.C. SHALL MAKE ARRANGEMENTS WITH THE OWNER AND ANY OTHER CONCERNED 6. CERTAIN SYSTEMS, SUCH AS THE FIRE ALARM SYSTEM, SECURITY SYSTEM, ETC...MAY REQUIRE

STAND-BY WATCHES DURING SHUT-DOWN. E.C. SHALL ARRANGE AND PAY FOR ANY SUCH STAND-BY

7. EXISTING SYSTEMS AFFECTED BY NEW WORK SHALL BE TESTED COMPLETELY FOR INTEGRITY AND PROPER OPERATION. RE-FEED CIRCUITS UP-STREAM AND DOWN-STREAM OF DEVICES BEING REMOVED. 8. MAKE ANY REVISIONS TO THE EXISTING WORK FOUND NECESSARY TO MAINTAIN ORIGINAL OPERATION. FURNISH AND INSTALL ALL NECESSARY ELECTRICAL EQUIPMENT AND DEVICES AS NEEDED AT NO ADDITIONAL ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE BUILDING CODES.

2. E.C. SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL INSPECTION AND OBTAIN A CERTIFICATE OF "ELECTRICAL INSPECTION". THIS CERTIFICATE SHALL BE PRESENTED WITH REQUEST FOR FINAL PAYMENT. 3. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND OPERATING ELECTRICAL SYSTEM. THE E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUIT, EQUIPMENT, MATERIAL, ETC. AS REQUIRED., EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THE QUESTIONS SHALL BE SETTLED BEFORE BID SUBMISSION AND CONTRACT SIGNING. NO EXTRA CHARGES WILL BE ALLOWED.

4. THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.

5. REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENTS, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES TO BE SELECTED BY THE ARCHITECT. 6. ALL ELECTRICAL EQUIPMENT SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE LOCAL AND

STATE BUILDING CODE. 7. ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, STEMS, CHAINS, ETC. SHALL BE FURNISHED AND INSTALLED BY E.C.

8. ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED. 9. ALL WIRING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED FOR PROPER CONNECTIONS AND SHORT CIRCUITS PRIOR TO THE TURNING OVER OF WORK AS A COMPLETE UNIT.

10. ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED. 11. E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.

12. ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS OTHERWISE NOTED TO BE EXPOSED.

THAN #6 AWG, TYPE XHHW WILL BE ACCEPTED. 14. CONDUCTORS SIZED #10 AWG AND SMALLER SHALL BE SOLID WIRE CONDUCTORS. CONDUCTORS SIZED LARGER THAN #10 AWG SHALL BE STRANDED TYPE. COMMUNICATIONS AND CONTROL WIRE SHALL BE #14 GAUGE STRANDËD, SHIELDED.

13. ALL WIRING SHALL BE TYPE THWN OR THW UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER

15. ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED 16. ALL DRAWINGS ARE SCHEMATIC IN NATURE; ALL DEVICES SHALL BE INSTALLED IN ALL AREAS AND LIVING SPACES PER NEC AND SHALL BE DIMENSIONED IN FIELD TO MEET PROPER CODES; ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION DURING BID PROCESS AND/OR ADJUSTED IN FIELD DURING CONSTRUCTION

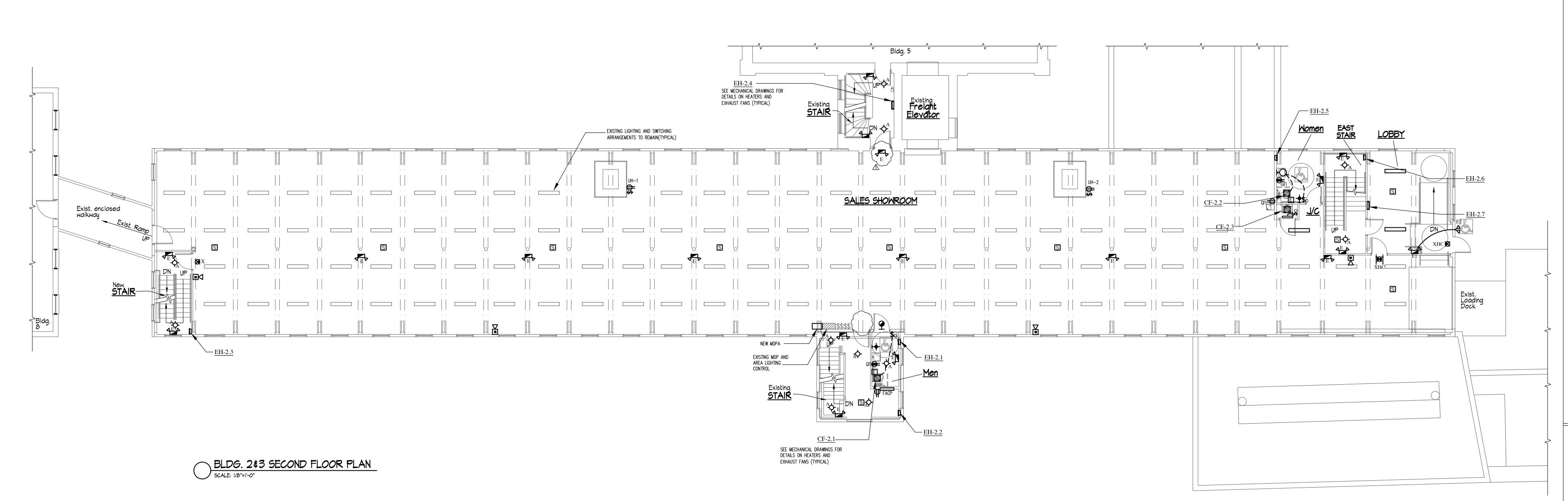
17. ALL WORK IS NEW UNLESS OTHERWISE NOTED.

PROJECT	ECT NO: 17047		PANEL:		MDPA		DATE:		5/8/17
LOCATIO	CATION: 2ND FLOOR		MOUNTING:		SURFACE		FEED:		TOP
VOLTAGE	DLTAGE: 120/ 208		SOURCE:		MDPA		BUS AMP:		100
WIRE:		4	COND:		1 1/4"		BRKR:		MLC
PHASE:	:	3	WIRE:		#2 AWG		GROUND:		#6 AWG
	LOAD		СВ		СВ		LOAD		
CKT	DESCRIPTION	WATTS	AMP		AMP	WATTS	DESCRIPTION		CKT
1	EH2.1	750	2P-20	Α	2P-20	750	EH2	2-5	2
3		750	П	В		750			4
5	EH2.2	1000	2P-20	С	2P-20	1000	EH2	2-6	6
7	П	1000		Α		1000			8
9	EH2.3	1000	2P-20	В	2P-20	2000	EH2	2-7	10
11	П	1000	П	С		2000	I		12
13	EH2.4	2000	2P-20	Α	20	960	UH	-1	14
15	II	2000	П	В	20	960	UH	-2	16
17	REST ROOM RECEPT	360	20	С	20				18
19			20	Α	20				20
21			20	В	20				22
23			20	С	20				24
25			20	Α	20				26
27			20	В	20				28
29			20	С	20				30
TOTAL W	/ATTS/PH: A	= 6460	B=		7460	C=	5360	TOTAL WATTS:	19280
								TOTAL AMPS:	53.5

1. VERIFY BREAKERS WITH NAMEPLATE RATINGS OF EQUIPMENT IN FIELD.

2. PROVIDE SIX (6) 20A-1P SPARE BREAKERS.

3. PROVIDE FULL COPPER BUSSING.





Architecture Preservation Interiors One Union Place, Hartford, CT 06103 T: (860)724-3000 F: (860)724-3013

Mill Hockanum

May 9, 2017 $\stackrel{\frown}{\rm I}$ fm Comments 8-4-17

SECOND FLOOR PLAN

El	LECTRIC SYMBOL LIST					
ф	DUPLEX RECEPTACLE OUTLET					
•	DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTERTOP					
О О О О	TYPICAL LIGHTING FIXTURES (see schedule)					
	TYPICAL LIGHTING FIXTURES WITH BATTERY BACKUP (see schedule)					
\$	SINGLE POLE WALL SWITCH					
\$3 \$4	WALL SWITCH; 3 DENOTES THREE WAY; 4 DENOTES FOUR WAY					
\$ _T	SWITCH WITH THERMAL OVERLOAD					
	WIRE CONCEALED IN WALLS OR CEILING					
/\	SWITCHED CIRCUIT					
	HOMERUN TO SERVICE PANEL; NUMBER OF WIRES INDICATED					
\otimes	EXIT SIGN WITH BATTERY BACKUP (see schedule)					
9	CALL-FOR-AID DOME LIGHT					
E	CALL—FOR—AID PULL STATION					
	CIRCUIT BREAKER PANEL BOARD — VOLTAGE NOTED					
	EMERGENCY LIGHT WITH BATTERY PACK					
Ē	DISCONNECT SWITCH					
J O	JUNCTION BOX					
~	REMOTE EMERGENCY HEAD					
GFI	GROUND FAULT CIRCUIT INTERRUPTER					
WP	WEATHERPROOF					

ELECTRICAL POWER NOTES:

ALL WORK IS NEW UNLESS OTHERWISE NOTED.

2. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND LOCATIONS. VERIFY WITH ARCHITECTURAL PLANS AND COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT/G.C. OF ANY DISCREPANCIES IF DISCREPANCIES ARE NOTED. DO NOT PROCEED WITHOUT ARCHITECTURAL APPROVAL.

3. HVAC AND PLUMBING EQUIPMENT ARE SHOWN FOR REFERENCE ONLY. E.C. SHALL COORDINATE EXACT LOCATIONS AND POWER REQUIREMENTS OF APPLICABLE HVAC AND PLUMBING EQUIPMENT WITH MECHANICAL DRAWINGS. E.C. SHALL MAKE ALL FINAL CONNECTIONS TO ALL CONTROLS, OWNER—SUPPLIED EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT AS NEEDED.

4. E.C. SHALL PROVIDE DISCONNECT SWITCHES AND STARTERS AS REQUIRED FOR ALL EQUIPMENT WHERE THE DISCONNECT SWITCH IS NOT PROVIDED WITH THE EQUIPMENT OR BY OTHERS.

5. E.C. SHALL SUPPLY AND INSTALL FEEDERS, FUSES AND CIRCUIT BREAKERS TO MATCH THE NAME-PLATE RATING OF ALL EQUIPMENT. THIS SHALL BE INCLUDED IN THE INITIAL BID PROPOSAL AND NO EXTRAS WILL BE ACCEPTED.

6. ELECTRICAL OUTLET PLATE GASKETS SHALL BE INSTALLED IN ALL RECEPTACLES, SWITCHES OR OTHER ELECTRICAL BOXES IN WALLS SEPARATING CONDITIONED AND UNCONDITIONED SPACE.

7. ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED.

8. MANUAL FIRE ALARM PULL BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE

ENTRANCE TO EACH EXIT. 9. THE HEIGHT OF THE MANUAL FIRE ALARM PULL BOXES SHALL BE A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48 INCHES MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX.

10. THE MINIMUM MOUNTING HEIGHT OF THE COMBINATION HORN/STROBES SHALL BE 80 INCHES AFF TO THE BOTTOM AND MINIMUM OF 6 INCHES BELOW THE FINISHED CEILING TO THE TOP.

11. COMBINATION HORN STROBES SHALL HAVE A SOUND LEVEL RATING FROM A MINIMUM OF 75 dBA AND A MAXIMUM OF 120 dBA. THE FOLLOWING MUST BE ACHIEVED: A MINIMUM OF 15 dBA OVER AVERAGE AMBIENT SOUND LEVEL. A MINIMUM OF 90 dBA IN MECHANICAL ROOMS. ALL STROBES OUTPUTS SHALL BE 110 CANDELA.

12. CONNECT ALL BATHROOM EXHAUST FANS TO ASSOCIATED LIGHT SWITCH UNLESS OTHERWISE NOTED.
 13. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO HVAC CONTROL WIRING; COORDINATE ALL REQUIREMENTS WITH DIV 15

14. ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED
15. HEIGHT OF UNIT PANELS IN HC AND HC ADAPTABLE UNITS SHALL BE 48" AFF TO HIGHEST BREAKER.
16. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF PLUGS AND LIGHTS IN

ELECTRICAL LIGHTING NOTES:

REFER TO ARCHITECTURAL REFLECTIVE CEILING PLANS FOR EXACT LOCATIONS OF CEILING MOUNTED LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES INDOORS AND OUTDOORS.
 ALL LIGHT FIXTURES IN CEILING SHALL BE BRACED TO THE BUILDING STRUCTURE AND NOT TO THE

3. EMERGENCY LIGHTING UNITS AND EMERGENCY BALLASTS SHALL BE WIRED INTO ASSOCIATED LIGHTING CIRCUITS AHEAD OF ANY SWITCHED LEGS FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING.

4. COORDINATE LOCATIONS AND DIRECTIONAL ARROWS OF ALL EXIT SIGNS WITH ARCHITECTURAL EGRESS

5. PROVIDE IC HOUSING FOR LIGHTING FIXTURE WHERE REQUIRED; COORDINATE WITH ARCHITECTURAL PLANS.6. FLOOR PROXIMITY EXIT SIGNS SHALL BE MOUNTED NOT LESS THAN 6 INCHES AND NO MORE THAN

18 INCHES ABOVE THE FINISHED FLOOR AND WITH THE NEAREST EDGE WITHIN 4 INCHES OF THE DOOR.

CONNECTIONS TO EXISTING CONDITIONS:

1. WHERE NEW CIRCUITS ARE TO ADDED TO EXISTING PANELBOARDS, CONFIRM THAT PANEL HAS SUFFICIENT SPACE AND CAPACITY FOR NEW LOADS.

MODIFY EXISTING PANEL DIRECTORIES TO REFLECT NEW CIRCUITS, ADDED OR DELETED.
 WHERE NOT SPECIFICALLY INDICATED, NEW CIRCUITS ARE TO BE EXTENDED TO THE NEAREST

APPROPRIATE PANEL.

4. ALL NEW CIRCUITRY SHALL BE COMPLETE WITH REQUIRED BRANCH CIRCUIT PROTECTION AND GROUNDING CONNECTIONS.

PORTION THEREOF, THE E.C. SHALL MAKE ARRANGEMENTS WITH THE OWNER AND ANY OTHER CONCERNED AUTHORITY.

6. CERTAIN SYSTEMS, SUCH AS THE FIRE ALARM SYSTEM, SECURITY SYSTEM, ETC...MAY REQUIRE STAND—BY WATCHES DURING SHUT—DOWN. E.C. SHALL ARRANGE AND PAY FOR ANY SUCH STAND—BY

5. ANY WORK REQUIRING THE SHUT-DOWN OF ELECTRICAL SERVICE TO THE BUILDING AND/OR ANY

7. EXISTING SYSTEMS AFFECTED BY NEW WORK SHALL BE TESTED COMPLETELY FOR INTEGRITY AND PROPER OPERATION. RE-FEED CIRCUITS UP-STREAM AND DOWN-STREAM OF DEVICES BEING REMOVED.

8. MAKE ANY REVISIONS TO THE EXISTING WORK FOUND NECESSARY TO MAINTAIN ORIGINAL OPERATION. FURNISH AND INSTALL ALL NECESSARY ELECTRICAL EQUIPMENT AND DEVICES AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL GENERAL NOTES:

ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE BUILDING CODES.

E.C. SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL INSPECTION AND OBTAIN A CERTIFICATE OF "ELECTRICAL INSPECTION". THIS CERTIFICATE SHALL BE PRESENTED WITH REQUEST FOR FINAL PAYMENT.
 IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND OPERATING ELECTRICAL SYSTEM. THE E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUIT, EQUIPMENT, MATERIAL, ETC. AS REQUIRED., EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THE QUESTIONS SHALL BE SETTLED BEFORE BID SUBMISSION AND CONTRACT SIGNING. NO EXTRA CHARGES WILL BE ALLOWED.

4. THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.

5. REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENTS, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES TO BE SELECTED BY THE ARCHITECT.

6. ALL ELECTRICAL EQUIPMENT SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE LOCAL AND STATE BUILDING CODE.

ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, STEMS, CHAINS, ETC. SHALL BE FURNISHED AND INSTALLED BY E.C.
 ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN

3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED.

9. ALL WRING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED FOR PROPER CONNECTIONS AND SHORT CIRCUITS PRIOR TO THE TURNING OVER OF WORK AS A COMPLETE UNIT.

10. ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED.

11. E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.

12. ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS OTHERWISE NOTED TO BE EXPOSED.

13. ALL WIRING SHALL BE TYPE THWN OR THW UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER THAN #6 AWG, TYPE XHHW WILL BE ACCEPTED.
 14. CONDUCTORS SIZED #10 AWG AND SMALLER SHALL BE SOLID WIRE CONDUCTORS. CONDUCTORS SIZED LARGER THAN #10 AWG SHALL BE STRANDED TYPE. COMMUNICATIONS AND CONTROL WIRE SHALL BE #14

15. ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED

16. ALL DRAWINGS ARE SCHEMATIC IN NATURE; ALL DEVICES SHALL BE INSTALLED IN ALL AREAS AND LIVING SPACES PER NEC AND SHALL BE DIMENSIONED IN FIELD TO MEET PROPER CODES; ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION DURING BID PROCESS AND/OR ADJUSTED IN FIELD DURING CONSTRUCTION

17. ALL WORK IS NEW UNLESS OTHERWISE NOTED.

GAUGE STRANDËD, SHIELDED.

PROJECT N	NO: 17047		PANEL:		MP3A		DATE:	5/8/17	
LOCATION				MOUNTING:			FEED:	TO	
VOLTAGE:					MDPA			100	
WIRE: 4		200	COND:		1 1/4"		BRKR:	MLO	
PHASE:	3		WIRE:		#2 AWG		GROUND:	#6 AW(
PHASE:		<u> </u>						#6 AVV	
	LOAD		СВ		СВ		LOAD		
CKT	DESCRIPTION	WATTS	AMP		AMP	WATTS	DESCRIPTION	СКТ	
1	EH3.1	750	2P-20	Α	2P-20	750	EH3-5	2	
3		750		В		750		4	
5	EH3.2	1000	2P-20	C	2P-20	1000	EH3-6	6	
7	П	1000		Α		1000	11	8	
9	EH3.3	1000	2P-20	В				10	
11	П	1000		С				12	
13	EH3.4	2000	2P-20	Α	20	960	UH-1	14	
15	П	2000		В	20	960	UH-2	16	
17			20	С	20			18	
19			20	Α	20			20	
21			20	В	20			22	
23			20	С	20			24	
25			20	Α	20			26	
27			20	В	20			28	
29			20	С	20			30	
TOTAL WA	ATTS/PH: A=	6460	B=		5460	C=	3000 TOTAL WATTS	5: 14920	
	-						TOTAL AMPS:	41.4	

1. VERIFY BREAKERS WITH NAMEPLATE RATINGS OF EQUIPMENT IN FIELD.
2. PROVIDE SIX (6) 20A-1P SPARE BREAKERS.

3. PROVIDE SIX (6) 20A-1P SPARE BREA

SALS SORGON

SALS

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Hockanum Mill 200 West Main Street, Rockville, CT

Drawn: SES

Date: May 9, 2017

Revisions

FM COMMENTS 8-4-17

THIRD FLOOR PLAN

E-1.4

El	LECTRIC SYMBOL LIST						
Ф	DUPLEX RECEPTACLE OUTLET						
P	DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTERTOP						
О О Н	TYPICAL LIGHTING FIXTURES (see schedule)						
	TYPICAL LIGHTING FIXTURES WITH BATTERY BACKUP (see schedule)						
\$	SINGLE POLE WALL SWITCH						
\$3 \$4	WALL SWITCH; 3 DENOTES THREE WAY; 4 DENOTES FOUR WAY						
\$т	SWITCH WITH THERMAL OVERLOAD						
	WIRE CONCEALED IN WALLS OR CEILING						
/\	SWITCHED CIRCUIT						
	HOMERUN TO SERVICE PANEL; NUMBER OF WIRES INDICATED						
\otimes	EXIT SIGN WITH BATTERY BACKUP (see schedule)						
9	CALL-FOR-AID DOME LIGHT						
E	CALL-FOR-AID PULL STATION						
	CIRCUIT BREAKER PANEL BOARD - VOLTAGE NOTED						
4	EMERGENCY LIGHT WITH BATTERY PACK						
Ē	DISCONNECT SWITCH						
J ()	JUNCTION BOX						
≺	REMOTE EMERGENCY HEAD						
GFI	GROUND FAULT CIRCUIT INTERRUPTER						
WP	WEATHERPROOF						

ELECTRICAL POWER NOTES:

LEVER OF THE BOX.

BATHROOMS.

 ALL WORK IS NEW UNLESS OTHERWISE NOTED. 2. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND LOCATIONS. VERIFY WITH ARCHITECTURAL PLANS AND COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT/G.C. OF ANY DISCREPANCIES IF DISCREPANCIES ARE NOTED. DO NOT PROCEED WITHOUT ARCHITECTURAL APPROVAL.

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- 15. HEIGHT OF UNIT PANELS IN HC AND HC ADAPTABLE UNITS SHALL BE 48" AFF TO HIGHEST BREAKER. 16. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF PLUGS AND LIGHTS IN

ELECTRICAL LIGHTING NOTES:

REFER TO ARCHITECTURAL REFLECTIVE CEILING PLANS FOR EXACT LOCATIONS OF CEILING MOUNTED LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES INDOORS AND OUTDOORS. 2. ALL LIGHT FIXTURES IN CEILING SHALL BE BRACED TO THE BUILDING STRUCTURE AND NOT TO THE

EMERGENCY LIGHTING UNITS AND EMERGENCY BALLASTS SHALL BE WIRED INTO ASSOCIATED LIGHTING CIRCUITS AHEAD OF ANY SWITCHED LEGS FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING. 4. COORDINATE LOCATIONS AND DIRECTIONAL ARROWS OF ALL EXIT SIGNS WITH ARCHITECTURAL EGRESS

6. FLOOR PROXIMITY EXIT SIGNS SHALL BE MOUNTED NOT LESS THAN 6 INCHES AND NO MORE THAN 18 INCHES ABOVE THE FINISHED FLOOR AND WITH THE NEAREST EDGE WITHIN 4 INCHES OF THE DOOR.

5. PROVIDE IC HOUSING FOR LIGHTING FIXTURE WHERE REQUIRED; COORDINATE WITH ARCHITECTURAL

CONNECTIONS TO EXISTING CONDITIONS:

1. WHERE NEW CIRCUITS ARE TO ADDED TO EXISTING PANELBOARDS, CONFIRM THAT PANEL HAS SUFFICIENT SPACE AND CAPACITY FOR NEW LOADS. 2. MODIFY EXISTING PANEL DIRECTORIES TO REFLECT NEW CIRCUITS, ADDED OR DELETED.

APPROPRIATE PANEL. 4. ALL NEW CIRCUITRY SHALL BE COMPLETE WITH REQUIRED BRANCH CIRCUIT PROTECTION AND

3. WHERE NOT SPECIFICALLY INDICATED, NEW CIRCUITS ARE TO BE EXTENDED TO THE NEAREST

5. ANY WORK REQUIRING THE SHUT-DOWN OF ELECTRICAL SERVICE TO THE BUILDING AND/OR ANY PORTION THEREOF, THE E.C. SHALL MAKE ARRANGEMENTS WITH THE OWNER AND ANY OTHER CONCERNED 6. CERTAIN SYSTEMS, SUCH AS THE FIRE ALARM SYSTEM, SECURITY SYSTEM, ETC...MAY REQUIRE STAND-BY WATCHES DURING SHUT-DOWN. E.C. SHALL ARRANGE AND PAY FOR ANY SUCH STAND-BY

7. EXISTING SYSTEMS AFFECTED BY NEW WORK SHALL BE TESTED COMPLETELY FOR INTEGRITY AND PROPER OPERATION. RE-FEED CIRCUITS UP-STREAM AND DOWN-STREAM OF DEVICES BEING REMOVED. 8. MAKE ANY REVISIONS TO THE EXISTING WORK FOUND NECESSARY TO MAINTAIN ORIGINAL OPERATION. FURNISH AND INSTALL ALL NECESSARY ELECTRICAL EQUIPMENT AND DEVICES AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE BUILDING CODES.

2. E.C. SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL INSPECTION AND OBTAIN A CERTIFICATE OF "ELECTRICAL INSPECTION". THIS CERTIFICATE SHALL BE PRESENTED WITH REQUEST FOR FINAL PAYMENT. 3. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND OPERATING ELECTRICAL SYSTEM. THE E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUIT, EQUIPMENT, MATERIAL, ETC. AS REQUIRED., EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THE QUESTIONS SHALL BE SETTLED BEFORE BID SUBMISSION AND CONTRACT SIGNING. NO EXTRA CHARGES WILL BE ALLOWED.

4. THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.

5. REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENTS, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES TO BE SELECTED BY THE ARCHITECT.

6. ALL ELECTRICAL EQUIPMENT SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE LOCAL AND STATE BUILDING CODE.

7. ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, STEMS, CHAINS, ETC. SHALL BE FURNISHED AND INSTALLED BY E.C.

8. ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED.

9. ALL WIRING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED FOR PROPER CONNECTIONS AND SHORT CIRCUITS PRIOR TO THE TURNING OVER OF WORK AS A COMPLETE UNIT.

10. ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED. 11. E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.

12. ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS OTHERWISE NOTED TO BE EXPOSED.

13. ALL WIRING SHALL BE TYPE THWN OR THW UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER THAN #6 AWG, TYPE XHHW WILL BE ACCEPTED. 14. CONDUCTORS SIZED #10 AWG AND SMALLER SHALL BE SOLID WIRE CONDUCTORS. CONDUCTORS SIZED

LARGER THAN #10 AWG SHÄLL BE STRANDED TYPE. COMMUNICATIONS AND CONTROL WIRE SHALL BE #14 GAUGE STRANDED, SHIELDED.

15. ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED 16. ALL DRAWINGS ARE SCHEMATIC IN NATURE; ALL DEVICES SHALL BE INSTALLED IN ALL AREAS AND LIVING SPACES PER NEC AND SHALL BE DIMENSIONED IN FIELD TO MEET PROPER CODES; ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION DURING BID PROCESS AND/OR ADJUSTED IN FIELD DURING CONSTRUCTION

17. ALL WORK IS NEW UNLESS OTHERWISE NOTED.

PROJECT NO: 17047		PANEL:			МР3А		DATE:		5/8/17	
LOCATION	N: 4TH F	LOOR		MOUNTING	:	SURFACE		FEED:		TOP
VOLTAGE:	:	120/ 2	208	SOURCE:		MDP		BUS AMP:		100
WIRE:		4		COND:		1 1/4"		BRKR:		MLO
PHASE:		3		WIRE:		#2 AWG		GROUND:		#6 AWG
	LOAD			СВ		СВ		LOAD		
CKT	DESCRIPTION		WATTS	AMP		AMP	WATTS	DESCRIPTION		CKT
1	EH4.1		750	2P-20	Α	2P-20	750	EH4	l - 5	2
3			750		В		750			4
5	EH4.2		1000	2P-20	C	20	1080	LIGH	ITS	6
7			1000		Α	20				8
9	EH4.3		1000	2P-20	В	20				10
11			1000		С	20				12
13	EH4.4		2000	2P-20	Α	20	960	UH	-1	14
15			2000		В	20	960	UH	-2	16
17				20	C	20				18
19				20	Α	20				20
21				20	В	20				22
23				20	C	20				24
25				20	Α	20				26
27				20	В	20				28
29				20	С	20				30
TOTAL W	ATTS/PH:	A=	5460	B=		5460	C=	3080	TOTAL WATTS:	14000
									TOTAL AMPS:	38 9

1. VERIFY BREAKERS WITH NAMEPLATE RATINGS OF EQUIPMENT IN FIELD.

2. PROVIDE SIX (6) 20A-1P SPARE BREAKERS. 3. PROVIDE FULL COPPER BUSSING.

SEE MECHANICAL DRAWINGS FOR DETAILS ON HEATERS AND EXHAUST FANS (TYPICAL) SEE MECHANICAL DRAWINGS FOR DETAILS ON HEATERS AND EXHAUST FANS (TYPICAL) STORAGE OFFICE

BLDG. 2\$3 FOURTH FLOOR PLAN





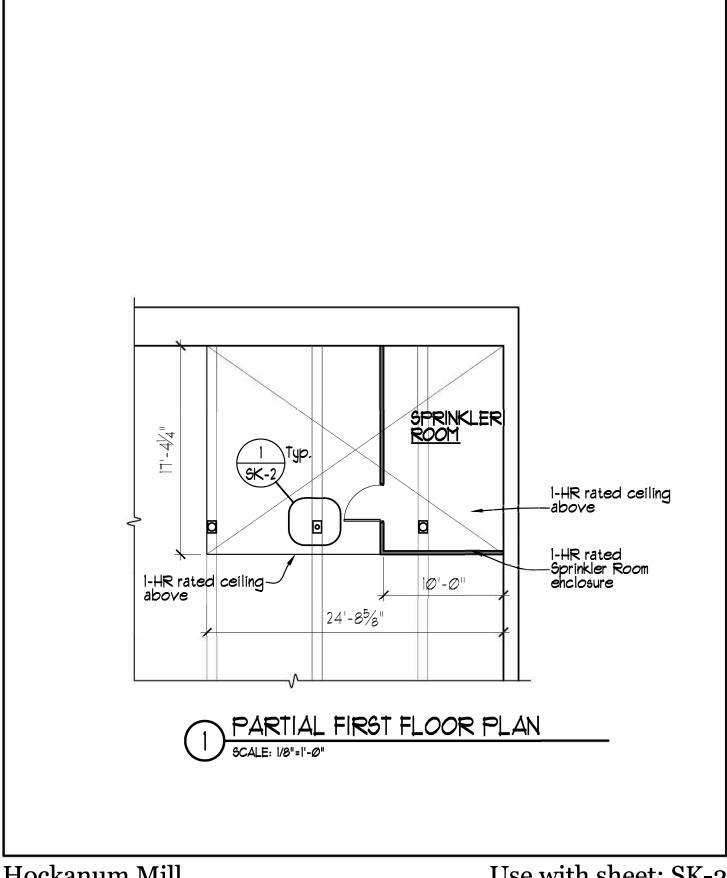
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Mill

May 9, 2017 \overline{I} fm Comments 8-4-17

FOURTH FLOOR PLAN



Hockanum Mill

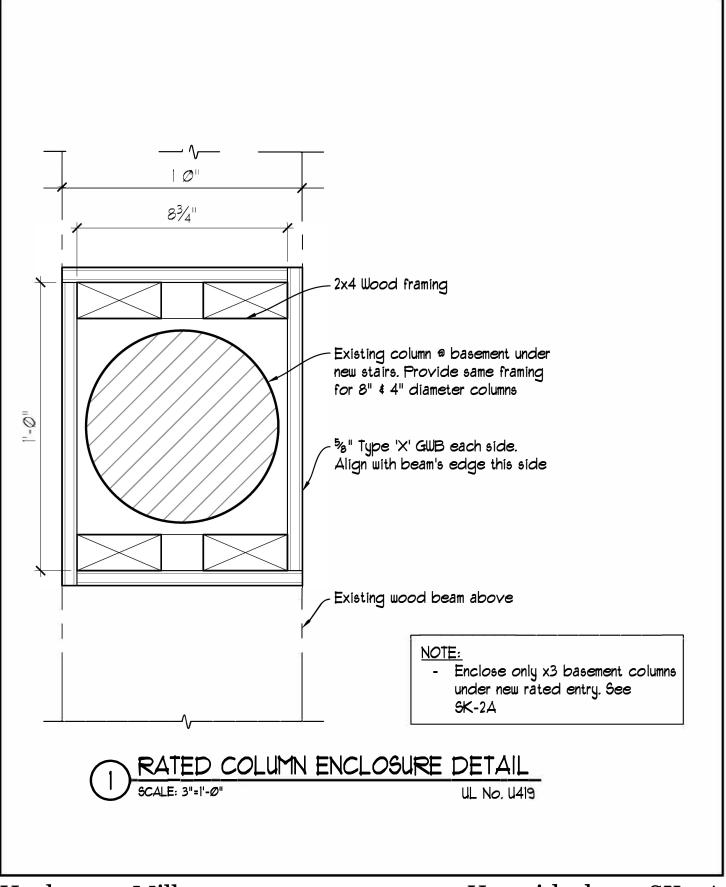
Use with sheet: SK-2

200 West Main Street, Rockville, CT

Scale: 3"=1'-0"







Hockanum Mill

Use with sheet: SK-2A

200 West Main Street, Rockville, CT

Scale: 3"=1'-0"

