

HOCKEY = BILLIONS 2 3

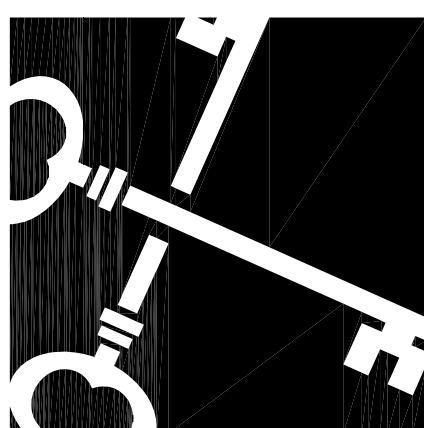
200 West Main Street

Rockville, CT





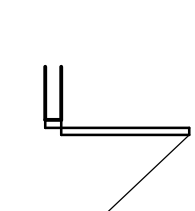
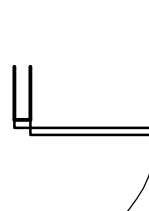
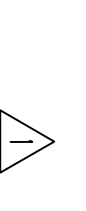


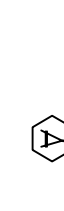
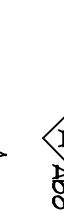





May 15, 2017

Owner:
Kaplan Mill Works, LLC
61 Tolland Turnpike
Manchester CT 06042
860-916-9784

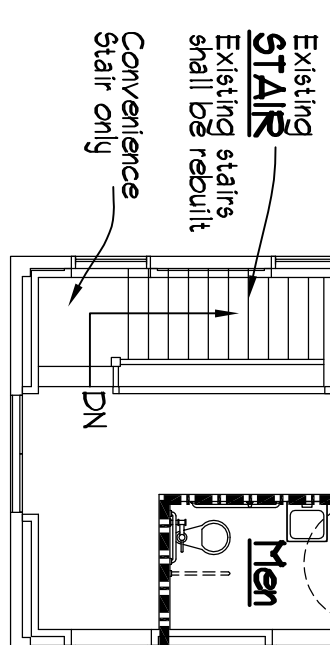
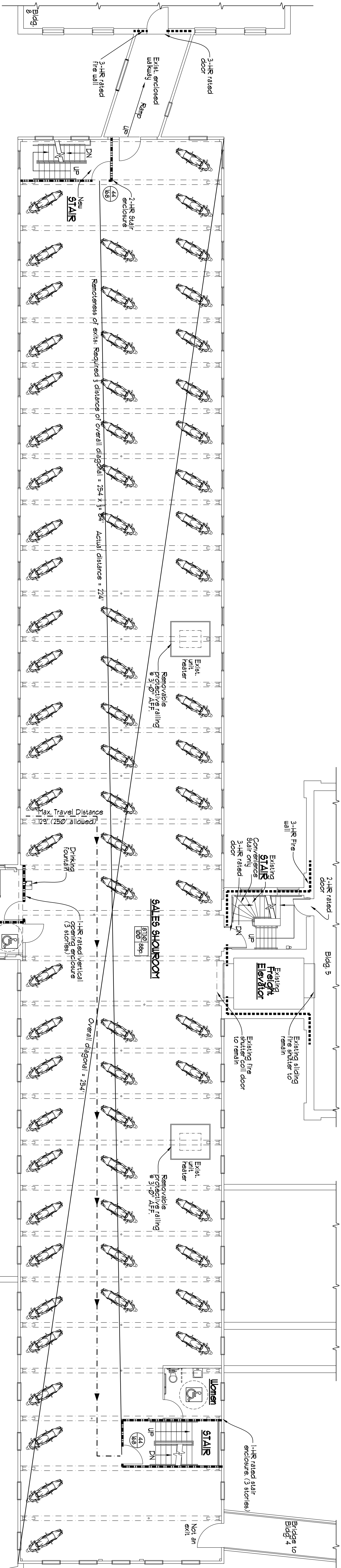
Contractor:
Rockville Construction
Manchester, CT 06042
860-916-9784



Architect:
Crosskey Architects LLC
750 Main Street
Suite 150
Hartford, CT 06103
860-124-3000

PLAN LEGEND		GENERAL NOTES	
	Indicates existing wall construction to remain in place	1.	Provide all necessary detailing of existing light fixture, LVMS and other components as required to complete the scope of work as indicated on these drawings.
	Indicates new wall construction	2.	Field-verify all dimensions and conditions prior to start of construction.
	Indicates new CMU wall construction	3.	Provide all demolition and dumpsters as is necessary to complete the work.
	Indicates new brick wall construction	4.	If provide show any conflicting information, contact Architect for clarification.
	Indicates existing door to remain	5.	Provide rebar/coping at all slab, pipe and other penetrations through rated walls, floors and ceilings. Rebar/coping shall be installed in accordance with instructions by DOW 317 or approved equal. Follow manufacturer's installation instructions.
	Indicates existing door to remain	6.	All plumbing and heating to be concealed in walls and floors, unless noted otherwise.
	Indicates new door	7.	Locate plumbing and heating piping within framing bays to greatest extent possible.
	Indicates revision to drawings	8.	When removing existing components, care must be taken to ensure that the wall is indicated to be repaired. All existing components or services in walls or on the wall shall be removed and/or relocated (lights, plumbing, etc.).
	Indicates wall type reference	9.	When removing existing components, care must be taken to ensure that the wall is indicated to be repaired. All existing components or services in walls or on the wall shall be removed and/or relocated (lights, plumbing, etc.).
	Indicates door tag reference.	10.	Patch and repair any damage to existing components which are to remain.
	Indicates window tag reference.	11.	Provide solid blocking for wall mounted accessories such as handrails, bathroom accessories, etc.
	Indicates floor / ceiling type reference	12.	Legally dispose all construction debris off site.
	Indicates interior elevation reference	13.	All finish flooring shall be refurbished unless noted otherwise. Remove existing finish and prepare surfaces as required to receive new finish.
	Indicates detail reference	14.	All new interior wood trim to be clear pine, free of knots or defects.
	Indicates detail reference	15.	All new exterior wood trim to be clear cedar, free of knots or defects.
	Indicates detail reference	16.	Mechanical, electrical and plumbing systems' designs by Owner's Consultant(s). Specific items required per Code Compliance. Alternatively, burning sheet are as follows:
		17.	Fire alarm system, fire suppression system throughout.
		18.	Emergency lighting. Follow back-up egress stairs.
		19.	Structural conditions assessment, scope of work, repair/recommendations and design by Owner's Structural Engineering Consultant.
		20.	Construction details for stairs, ramps and other components not shown on these drawings to be determined in field or by others.

[illegible]



CODE PLAN LEGEND

EXIT CAPACITY

15 Actual egress capacity of door
15 Max. allowable egress capacity of door

ROOM OCCUPANCY LOAD

500 Room area in square feet
150 Occupant load
20 Occupancy load factor

8 Direction of travel

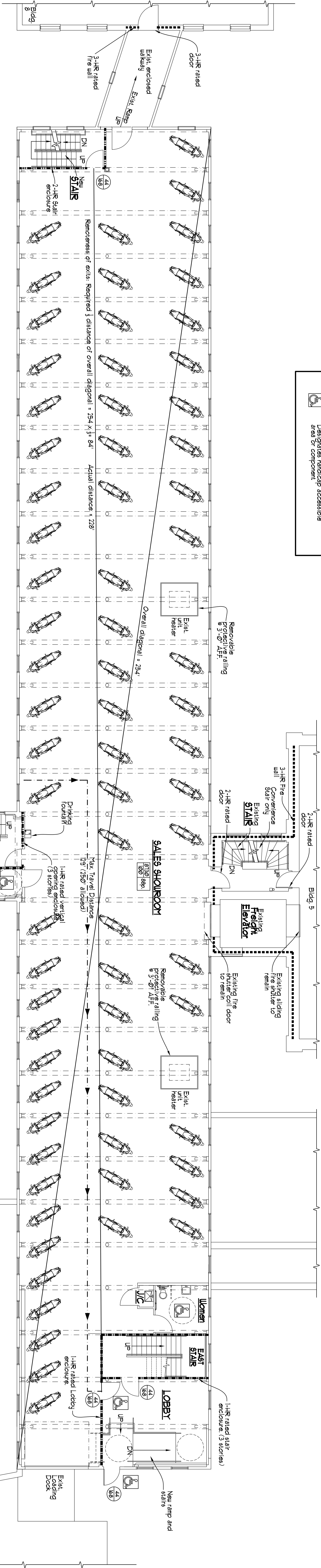
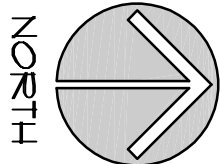
250 Max. travel distance
250 Path of max travel distance
100 Common Path of Travel

FIRE RATED SEPARATION DESIGNATIONS

3 Hour Fire Rated Wall Assembly
2 Hour Fire Rated Wall Assembly
1 Hour Fire Rated Wall Assembly
Designated handicap accessible area for component

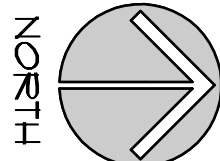
FLOOR LOADING:	ALLOWABLE	ACTUAL
	80 LB/SQ.FT.	80 LB/SQ.FT.

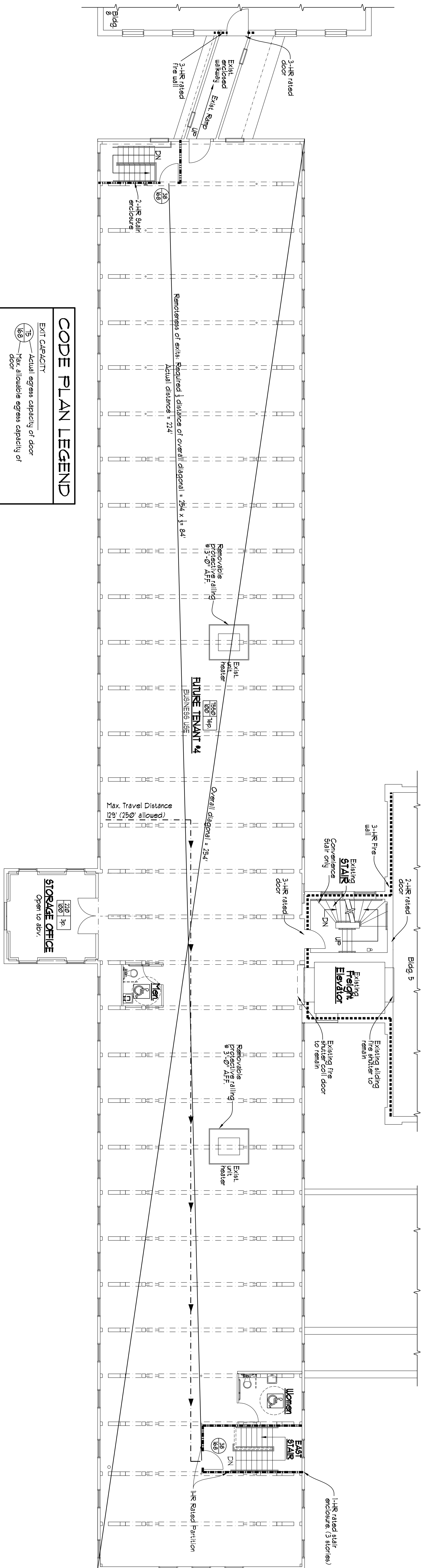
Entire floor shall be B Use group
Floor Area: 9152 SF
BLDG. 213 THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"



FLOOR LOADING:	ALLOWABLE	ACTUAL
	100 LB/SQ.FT.	125 LB/SQ.FT.

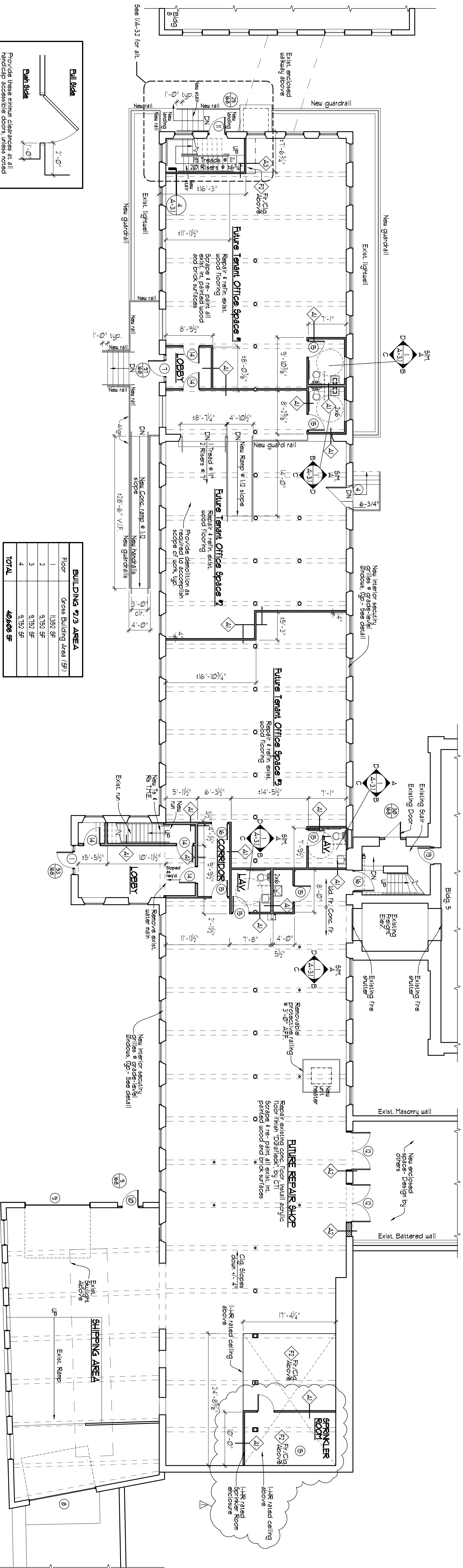
Entire floor shall be B Use group
Floor Area: 9152 SF
BLDG. 213 SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"



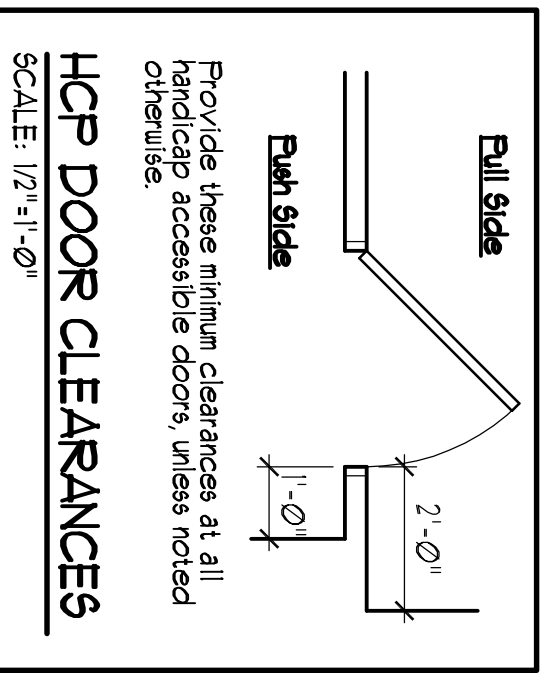


	ALLOWABLE	ACTUAL
FLOOR LOADING:	80 LBS/SF.	80 LBS/SF.

Floor Area: 9,153 SF.
BLDG. 243 FOURTH FLOOR PLAN
SCALE: 1/8"=1'-0"
NORTH

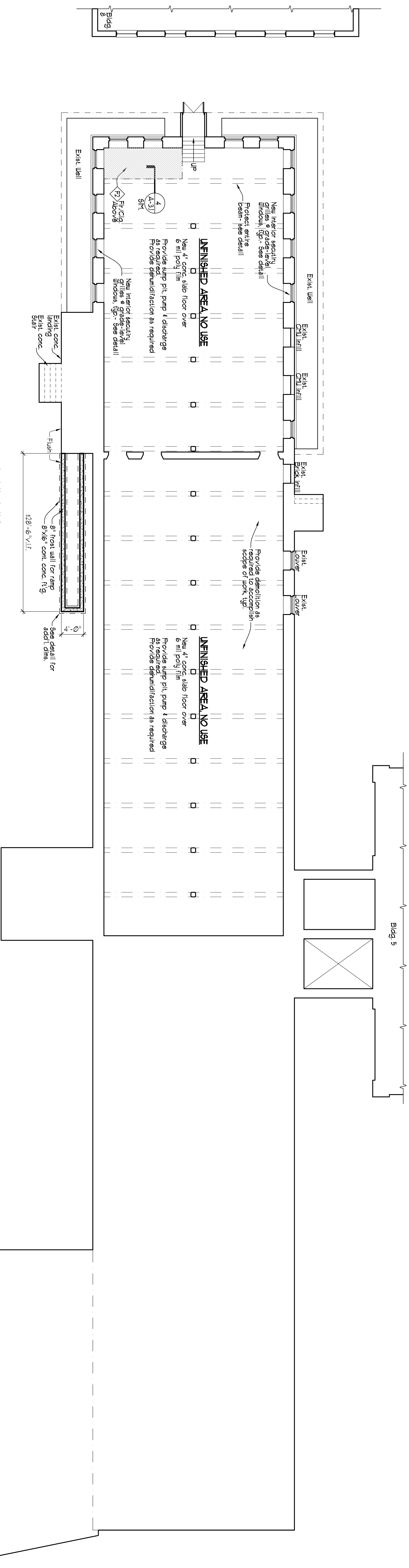
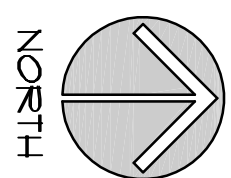


BUILDING #13 AREA	
Floor	Gross Building Area (SF)
1	11,352 SF
2	9,352 SF
3	9,352 SF
4	9,352 SF
TOTAL	40,008 SF



HOP DOOR CLEARANCES
SCALE: 1/2"=1'-0"

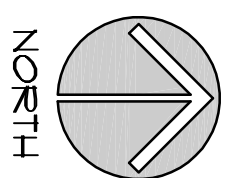
○ BLDG. 243 FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

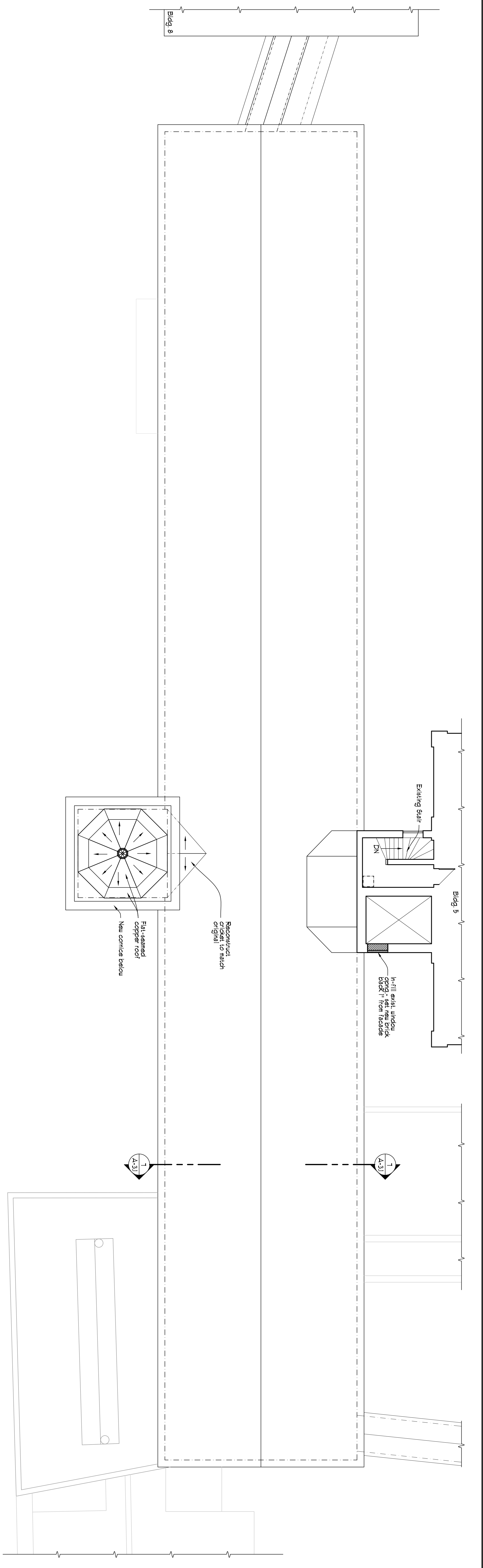


CONCRETE NOTES:

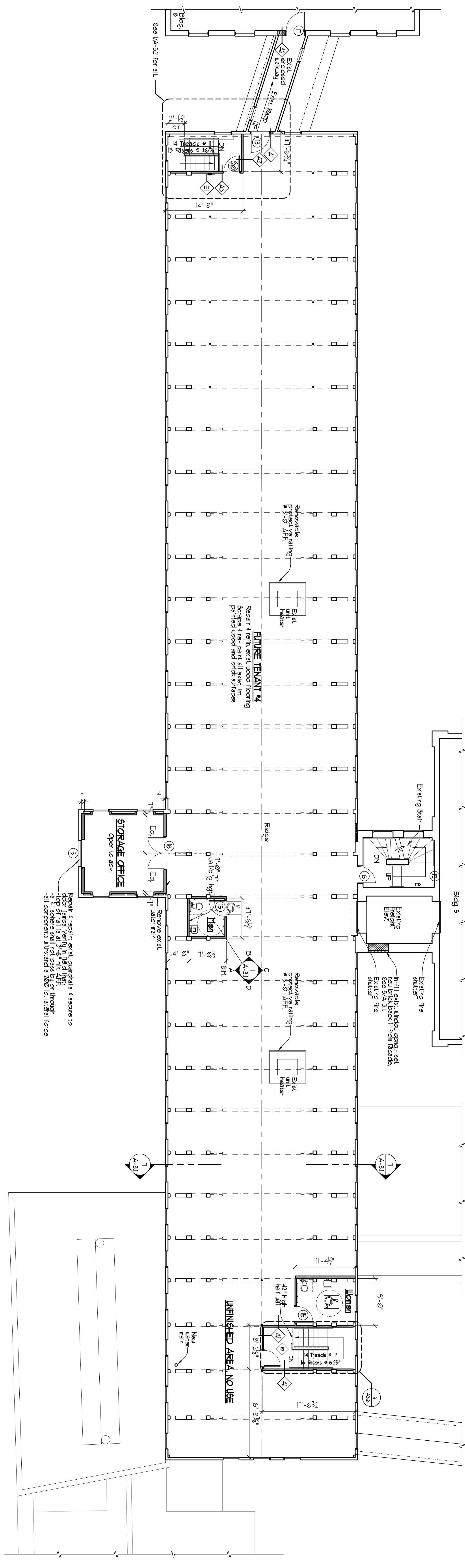
All concrete to be min. 3000 psi min.
All new footings to be a min. 3'-6" below grade
All new footings to rest upon undisturbed soil
Min. allowable soil bearing capacity to be 4000 psf
Compact soil beneath new slabs or ramps to 95% optimum bearing capacity

○ BLDG. 243 FOUNDATION / BASEMENT PLAN
SCALE: 1/8"=1'-0"

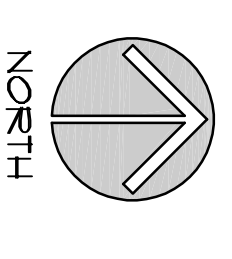


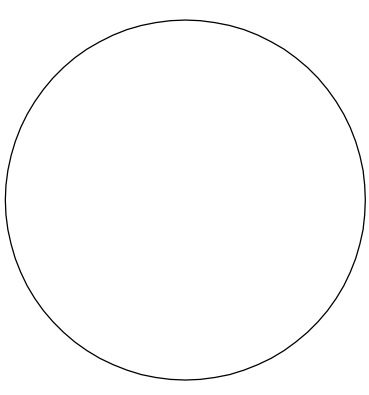


2 BLDG. 213 ROOF PLAN
SCALE 1/8"=1'-0"



1 BLDG. 213 FOURTH FLOOR PLAN
SCALE 1/8"=1'-0"

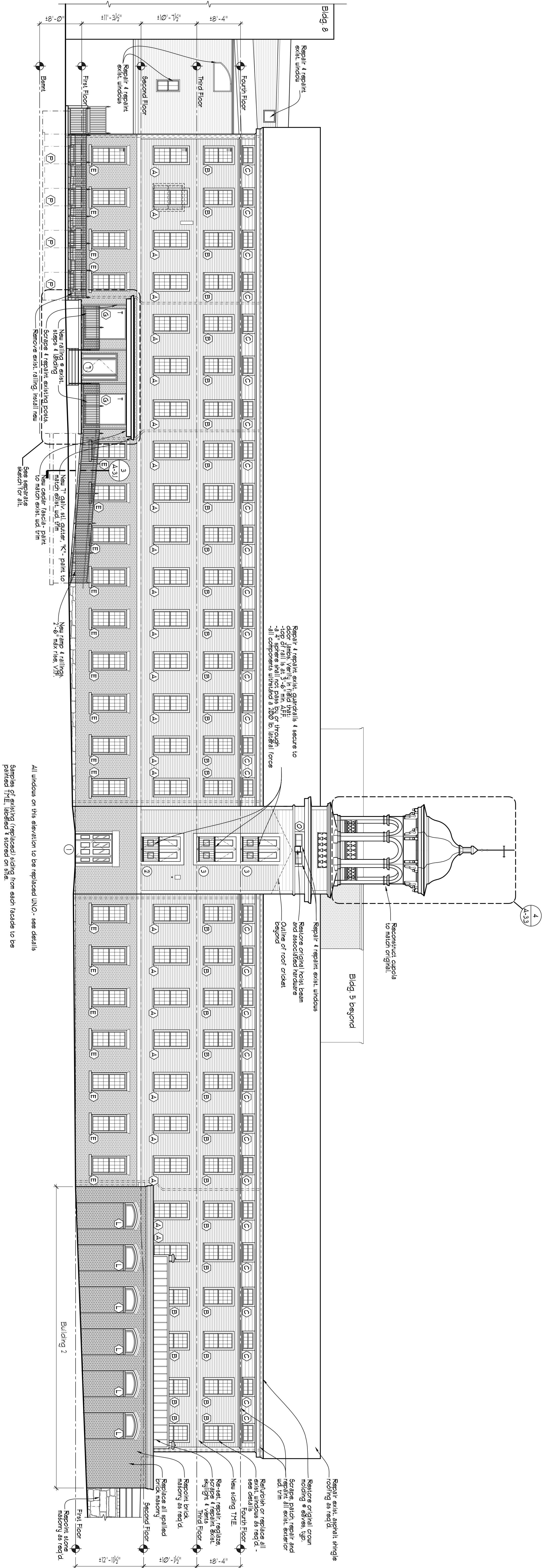




Drawn:	DG, M&B, TN
Date:	May 15, 2017
Revisions:	

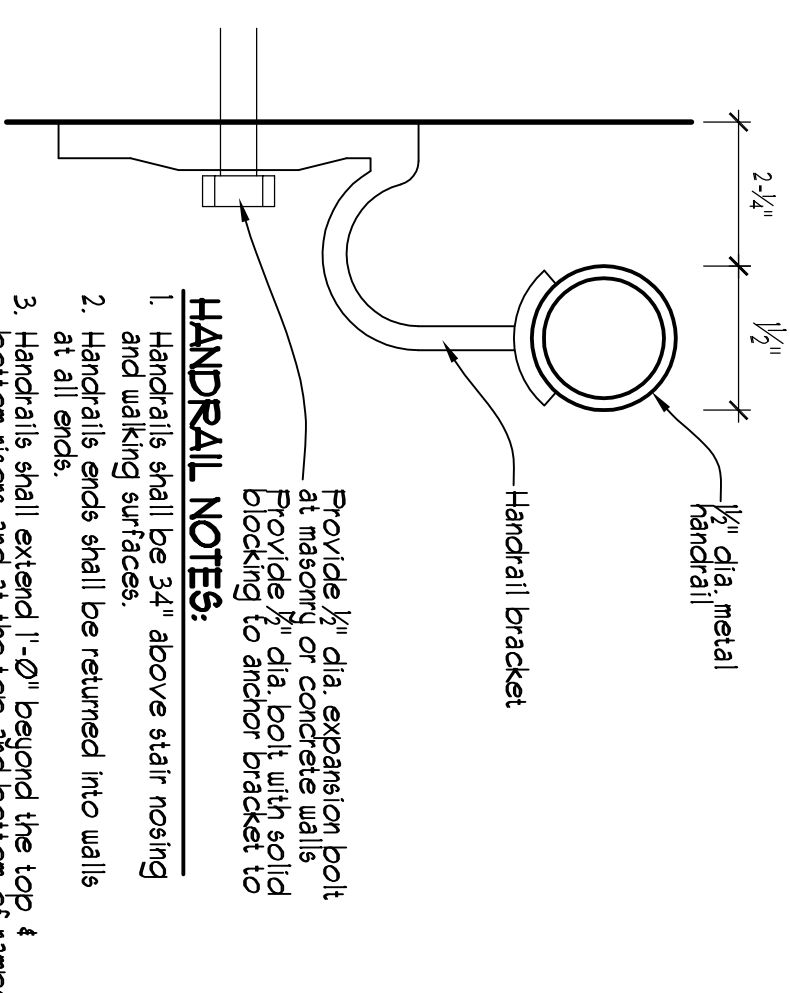
Bldgs. 2 & 3
Elevations

A-2.1

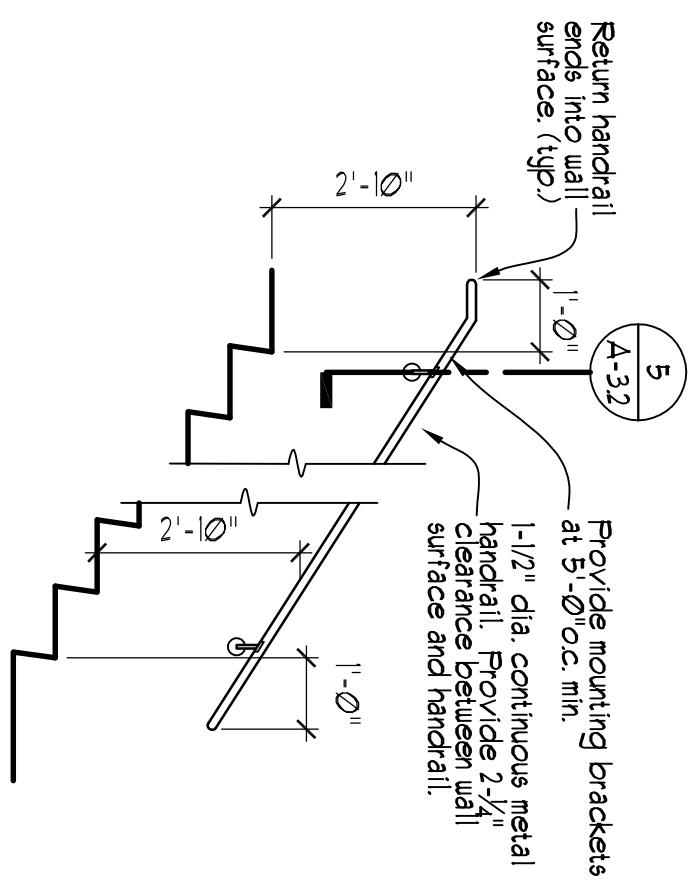


All windows on this elevation to be replaced UNO - see details
Samples of existing (replaced) siding from each facade to be painted 17E, labeled & stored on site.

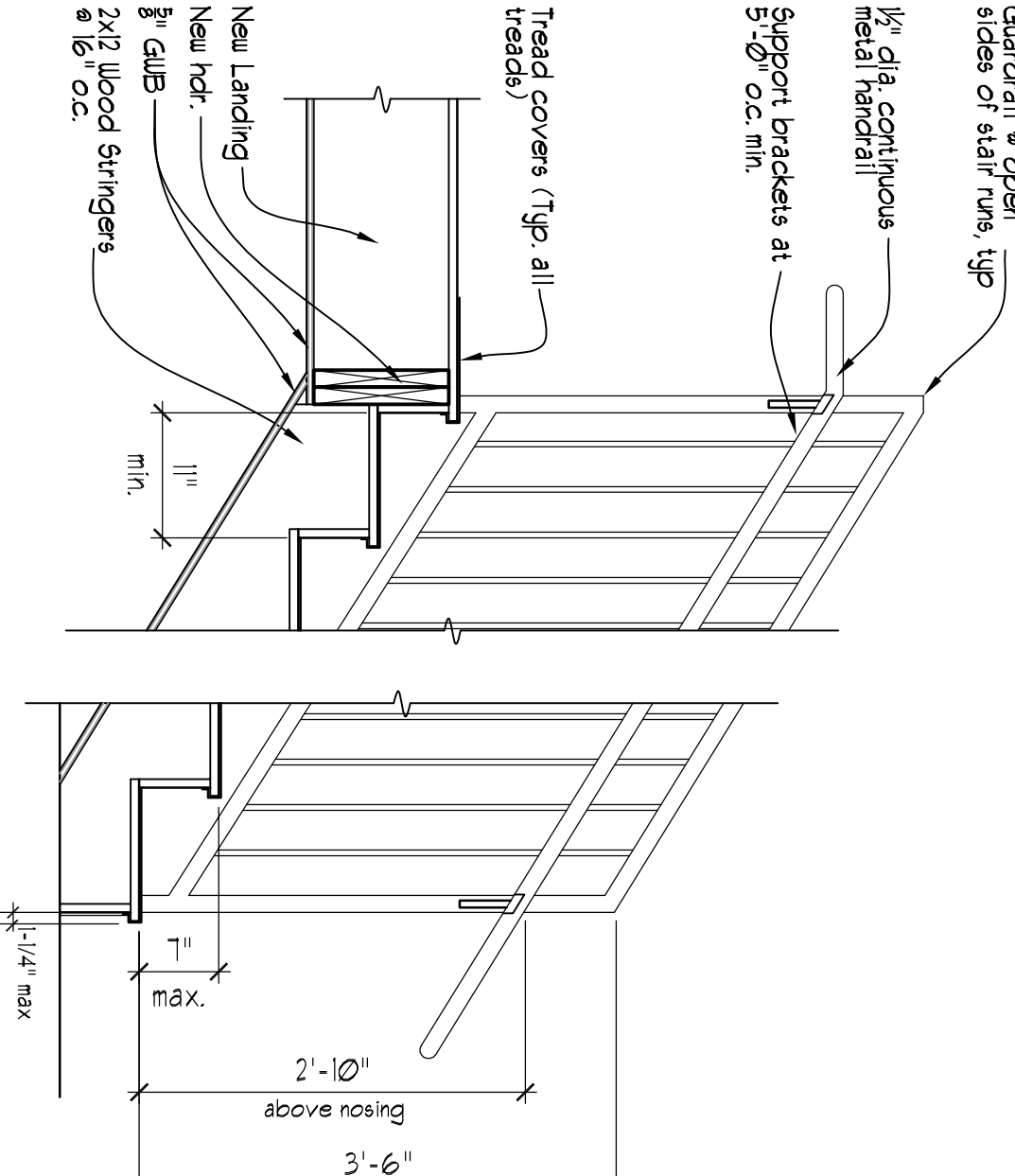
BUILDING 2 & 3 SOUTH ELEVATION
SCALE: 1/8"=1'-0"



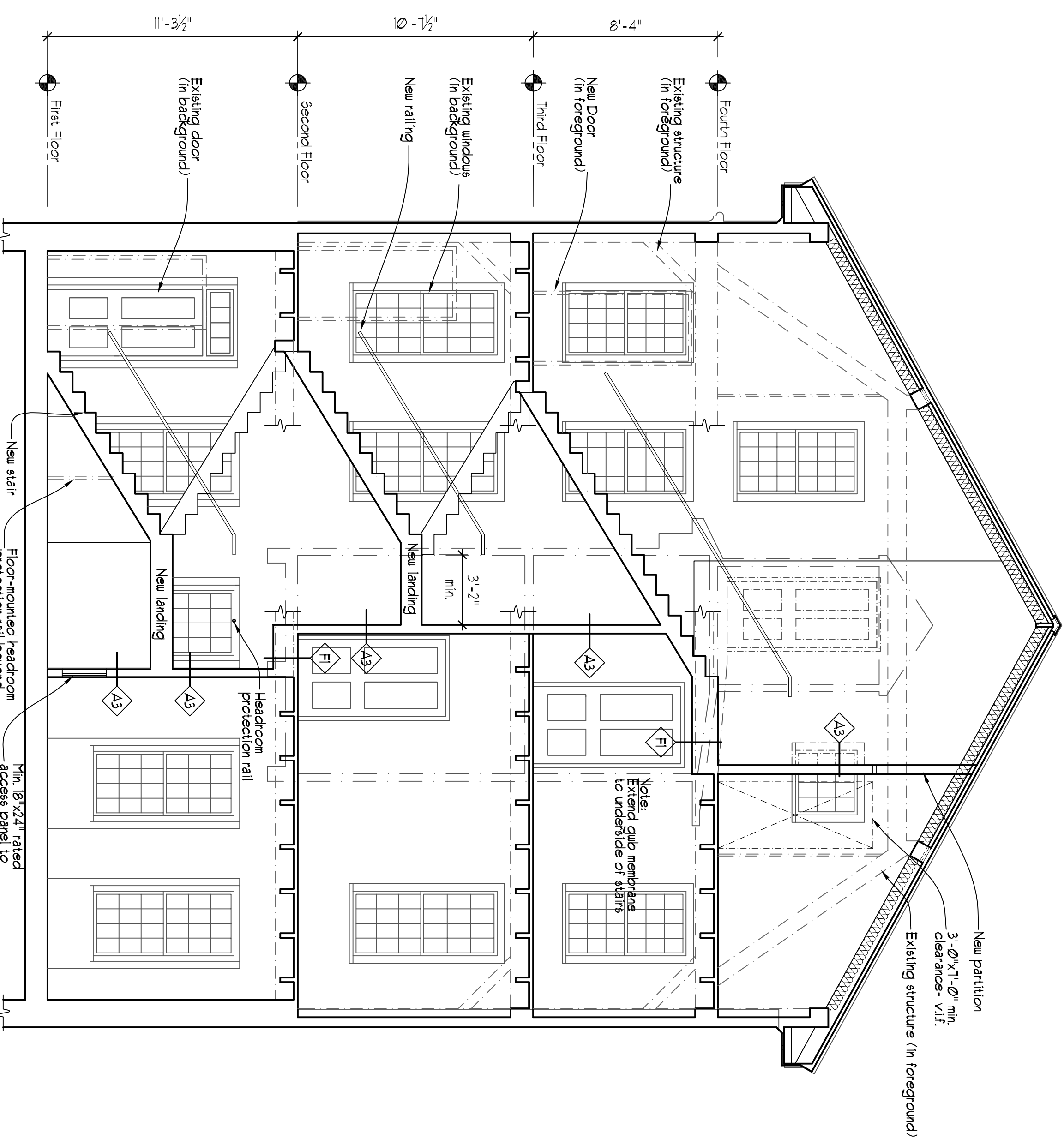
5 HANDRAIL DETAIL
SCALE: 6"x1'-0"



4 HANDRAIL DETAIL
SCALE: 3/8"x1'-0"



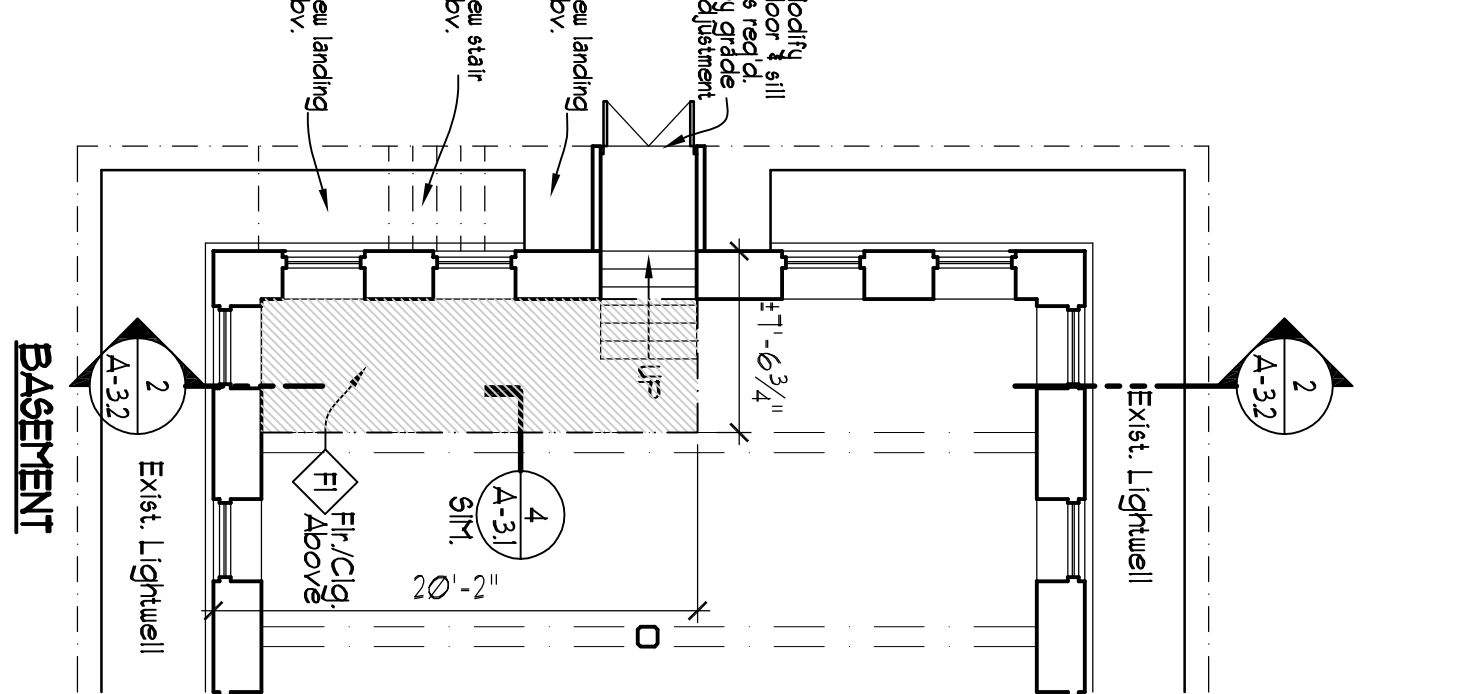
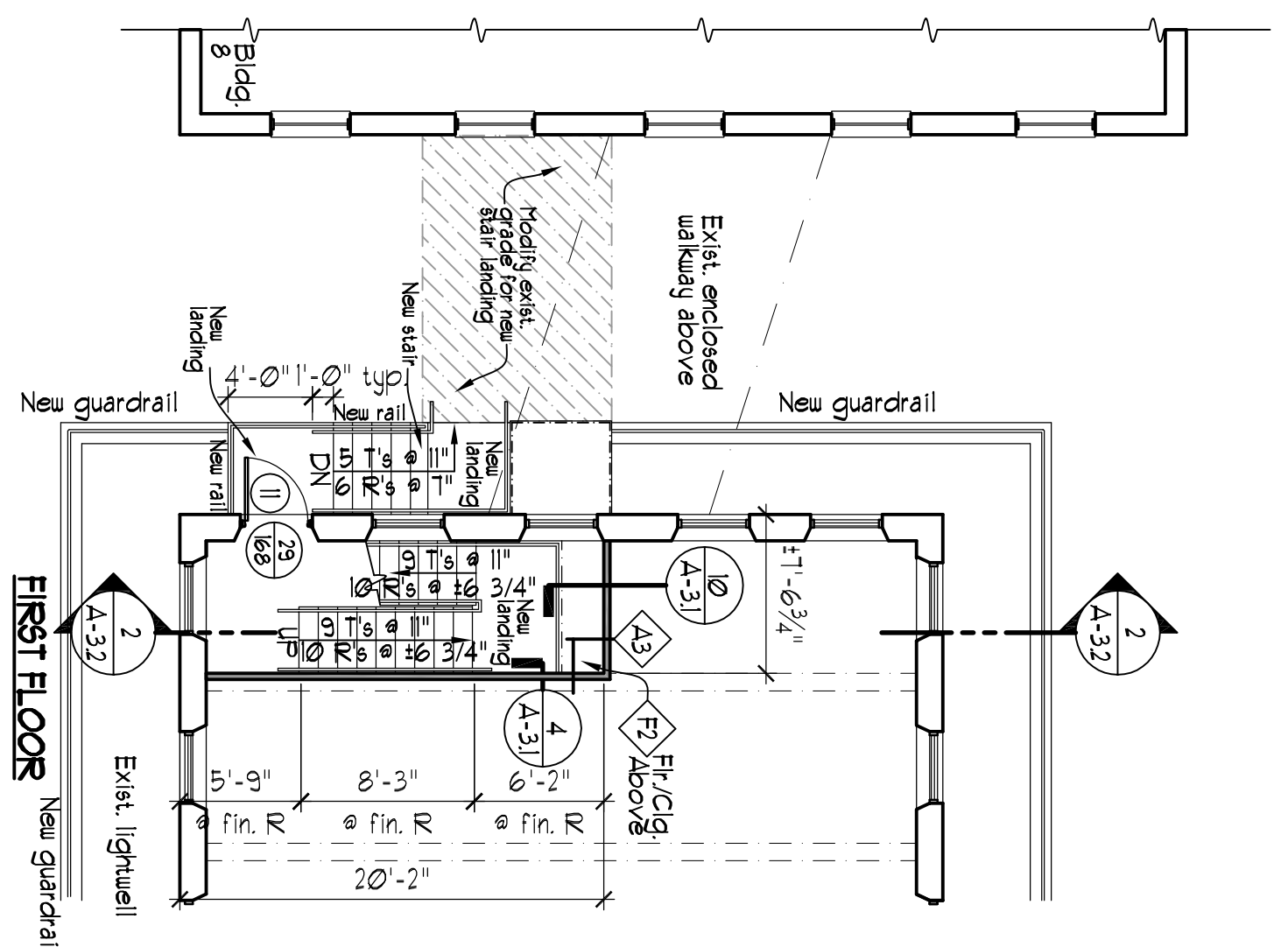
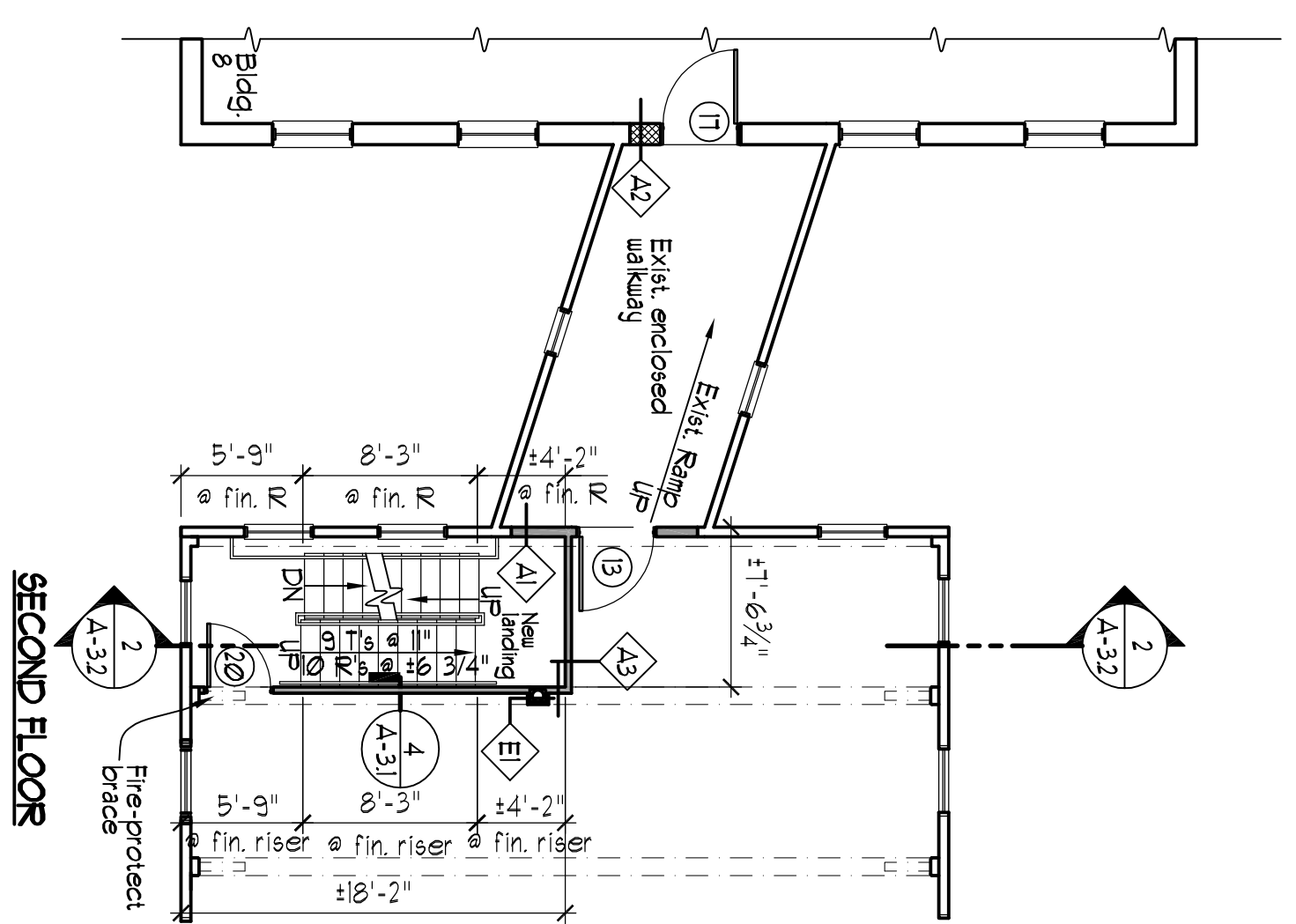
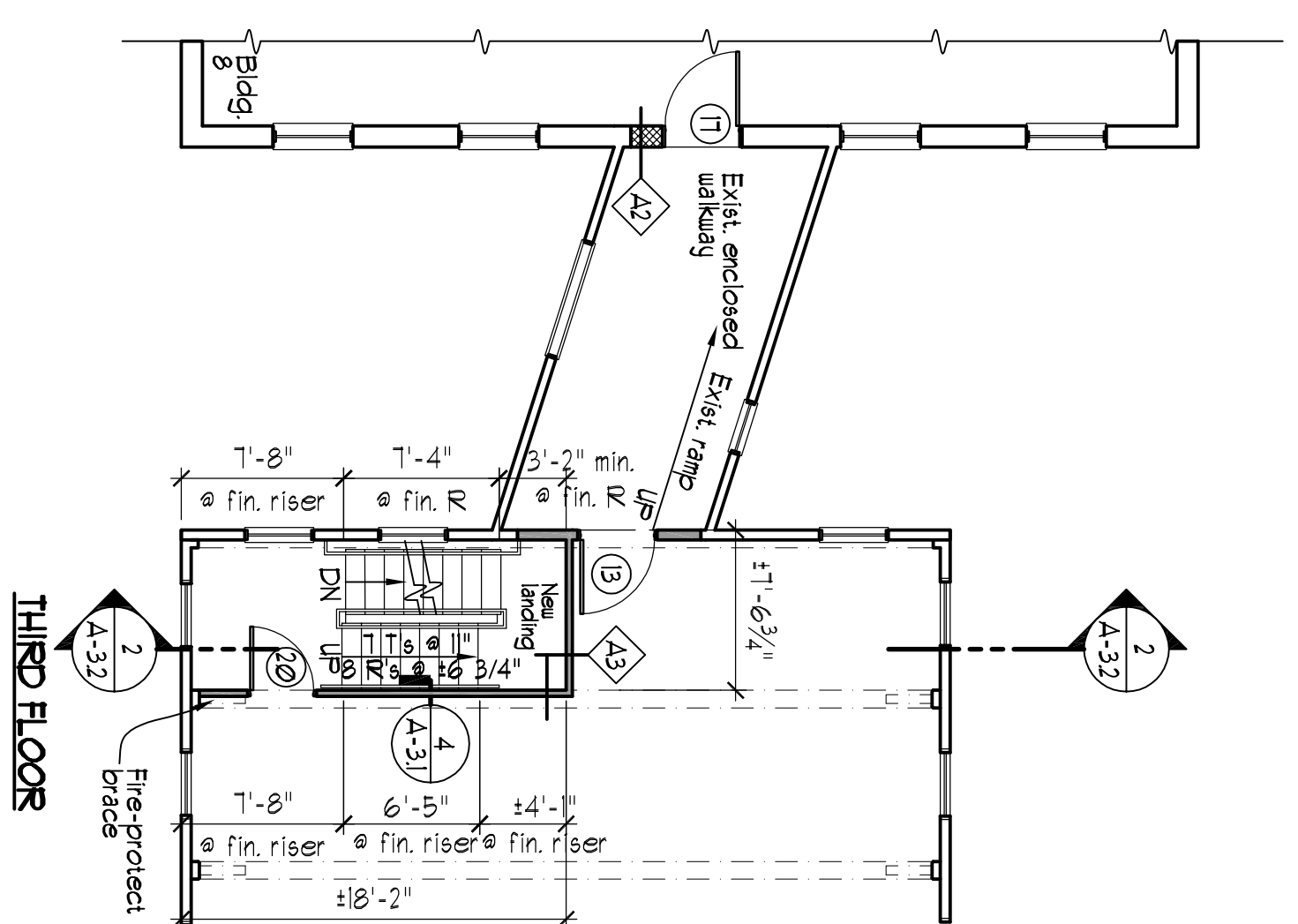
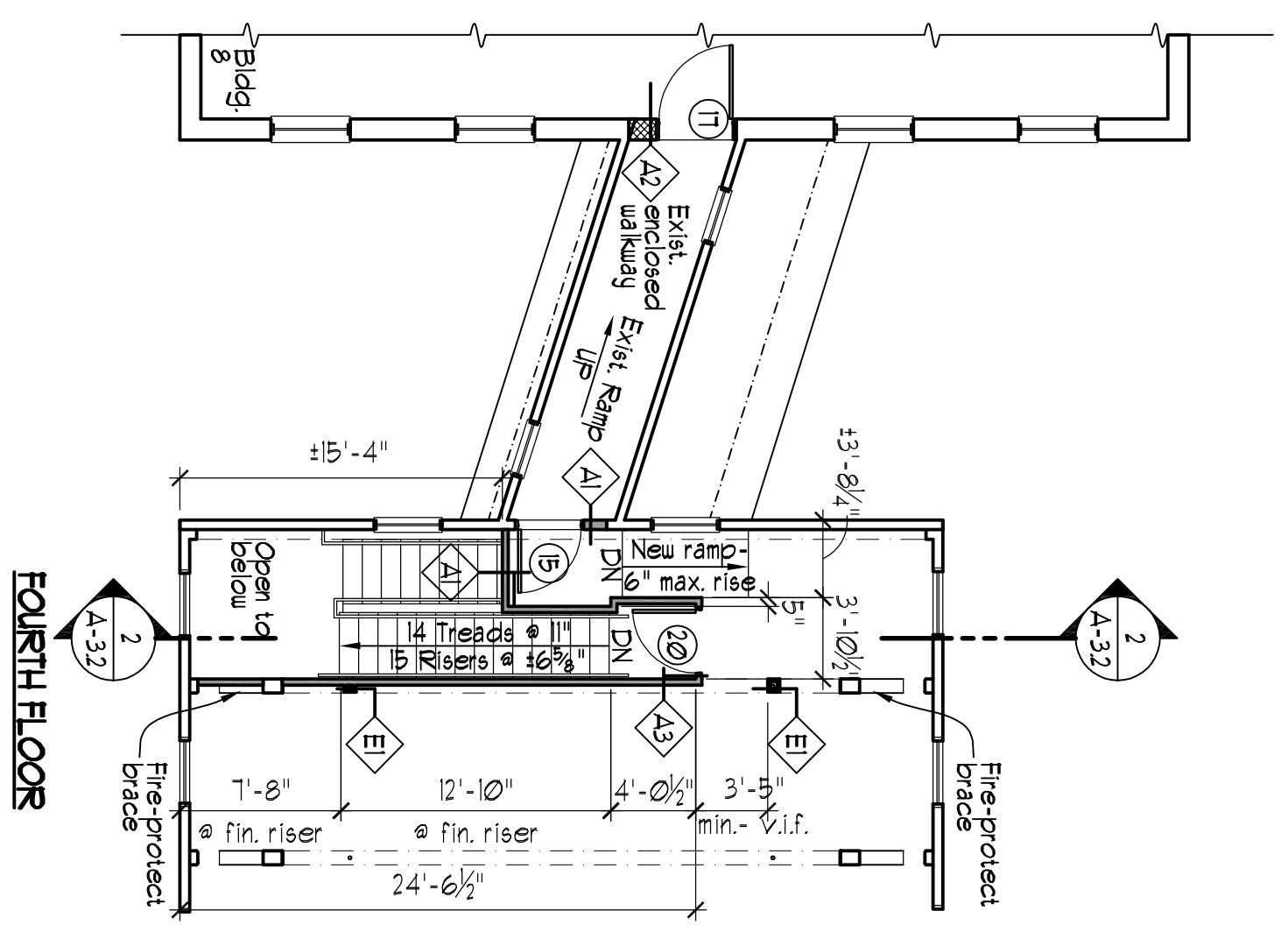
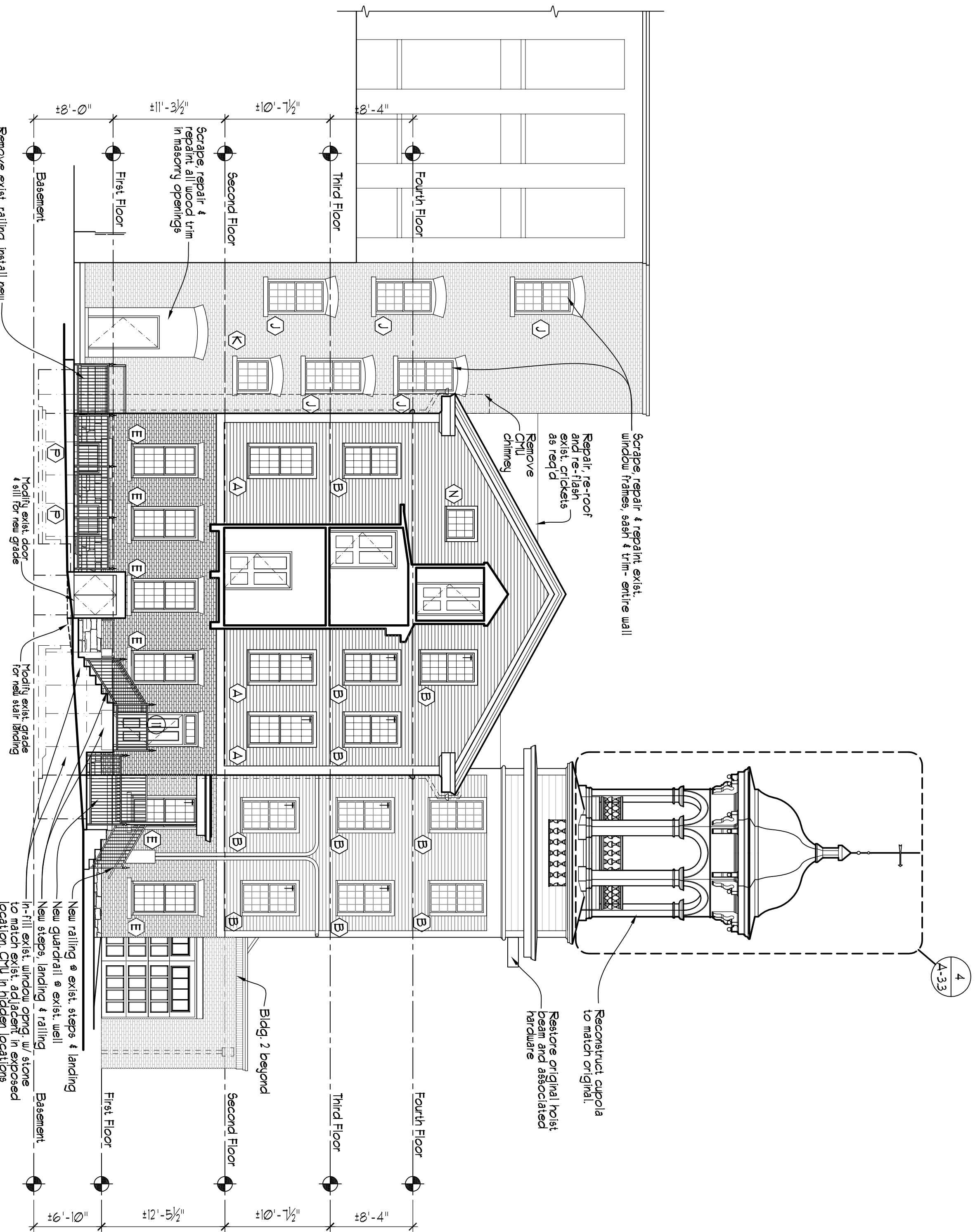
3 STAIR DETAIL
SCALE: 3/4"x1'-0"



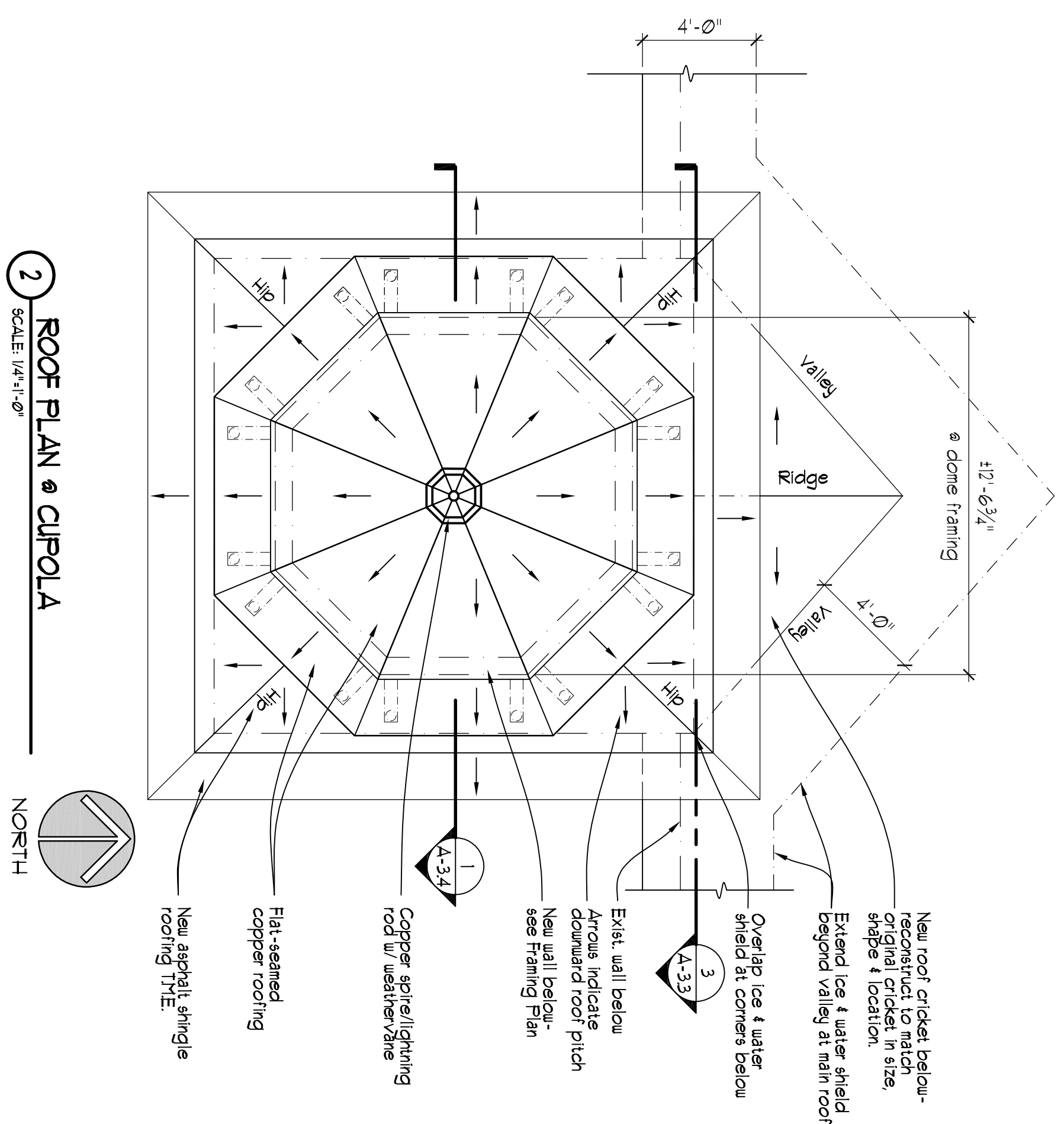
2 DIAGRAMMATIC BUILDING SECTION AT STAIR - ALT.
SCALE: 1/4"x1'-0"

6 BUILDING 213 WEST ELEVATION - ALT.
SCALE: 1/8"x1'-0"

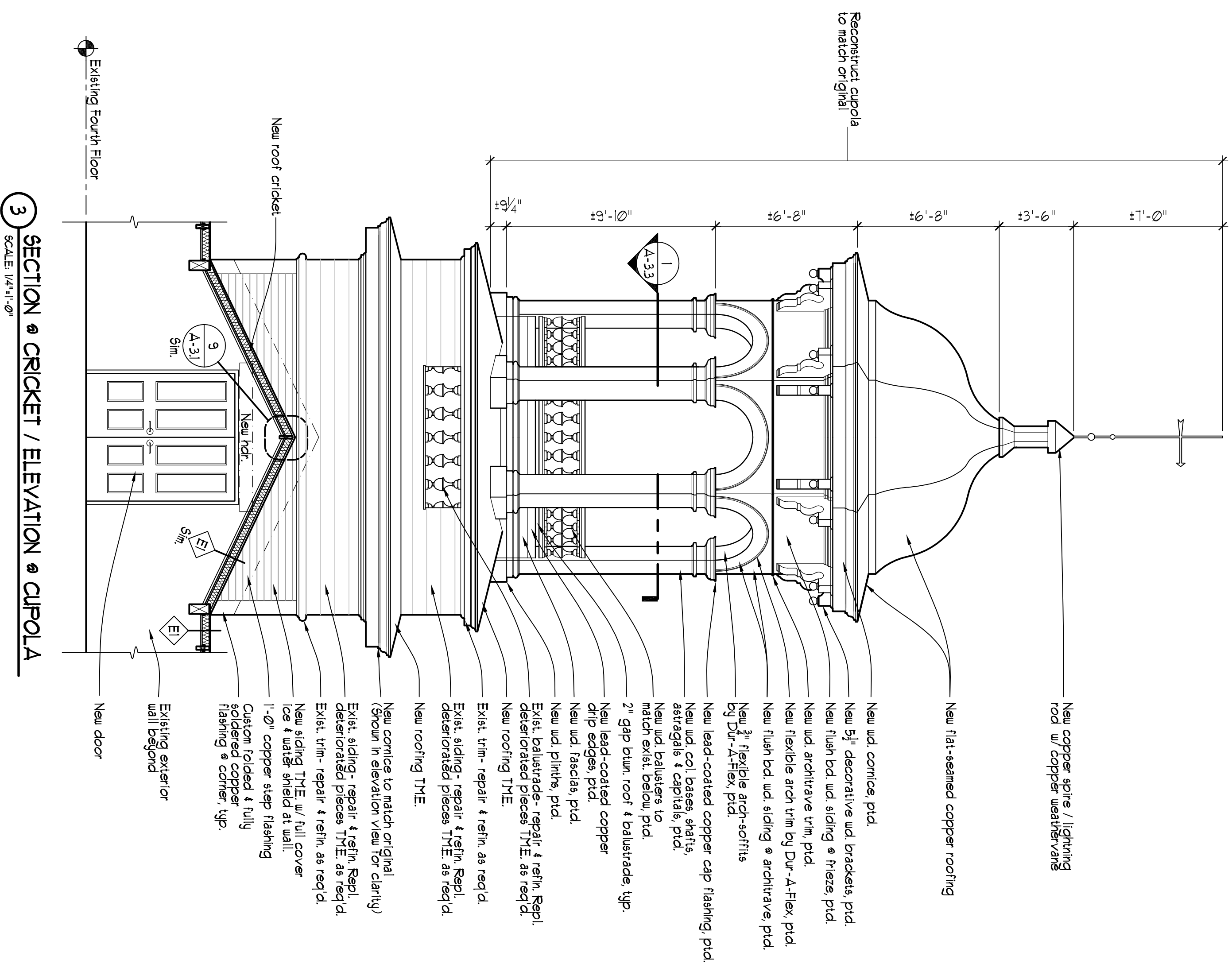
All windows on this elevation to be replaced UNO - see details



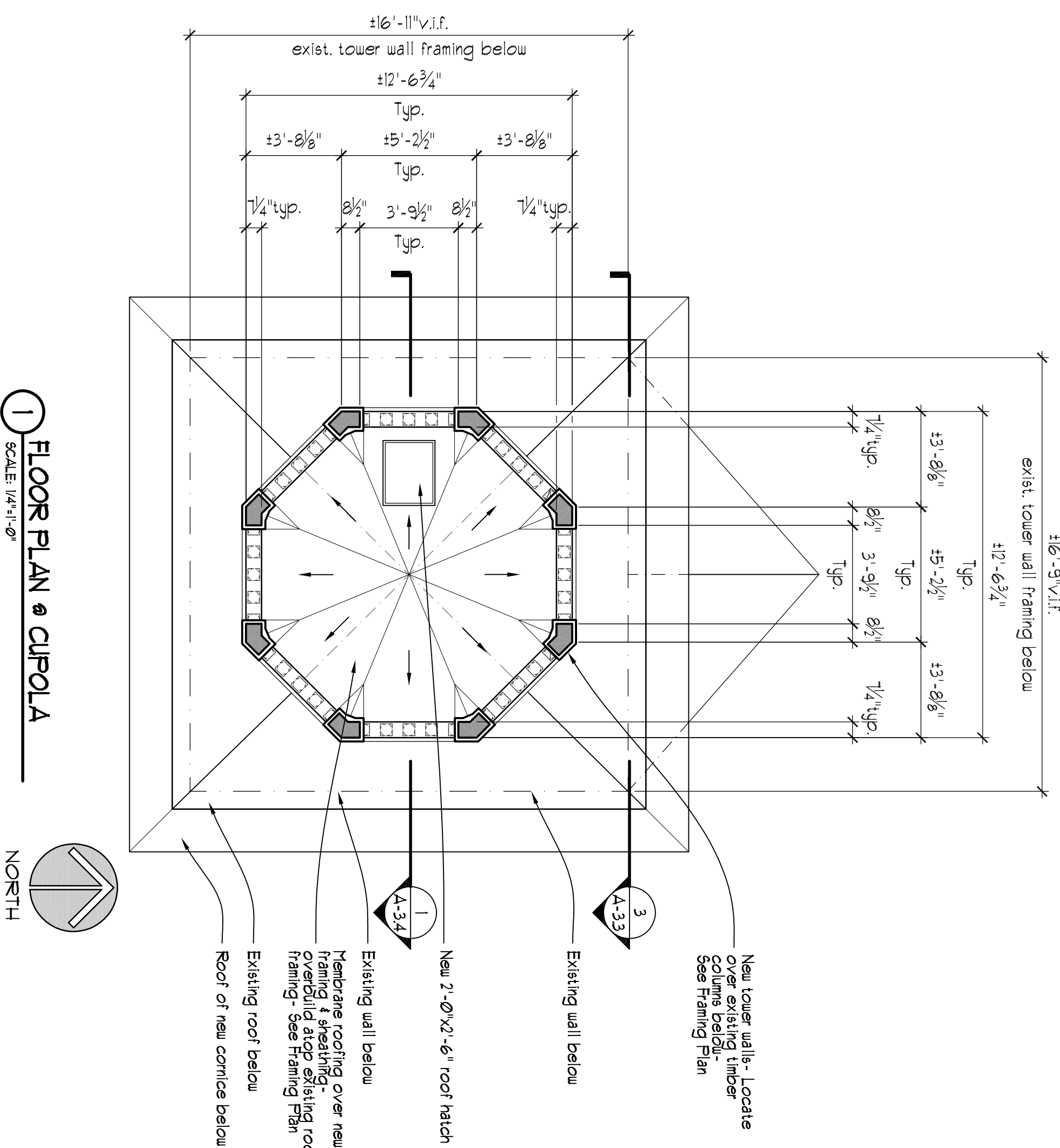
1 PLANS & NEW STAIR - ALT.
SCALE: 1/8"x1'-0"



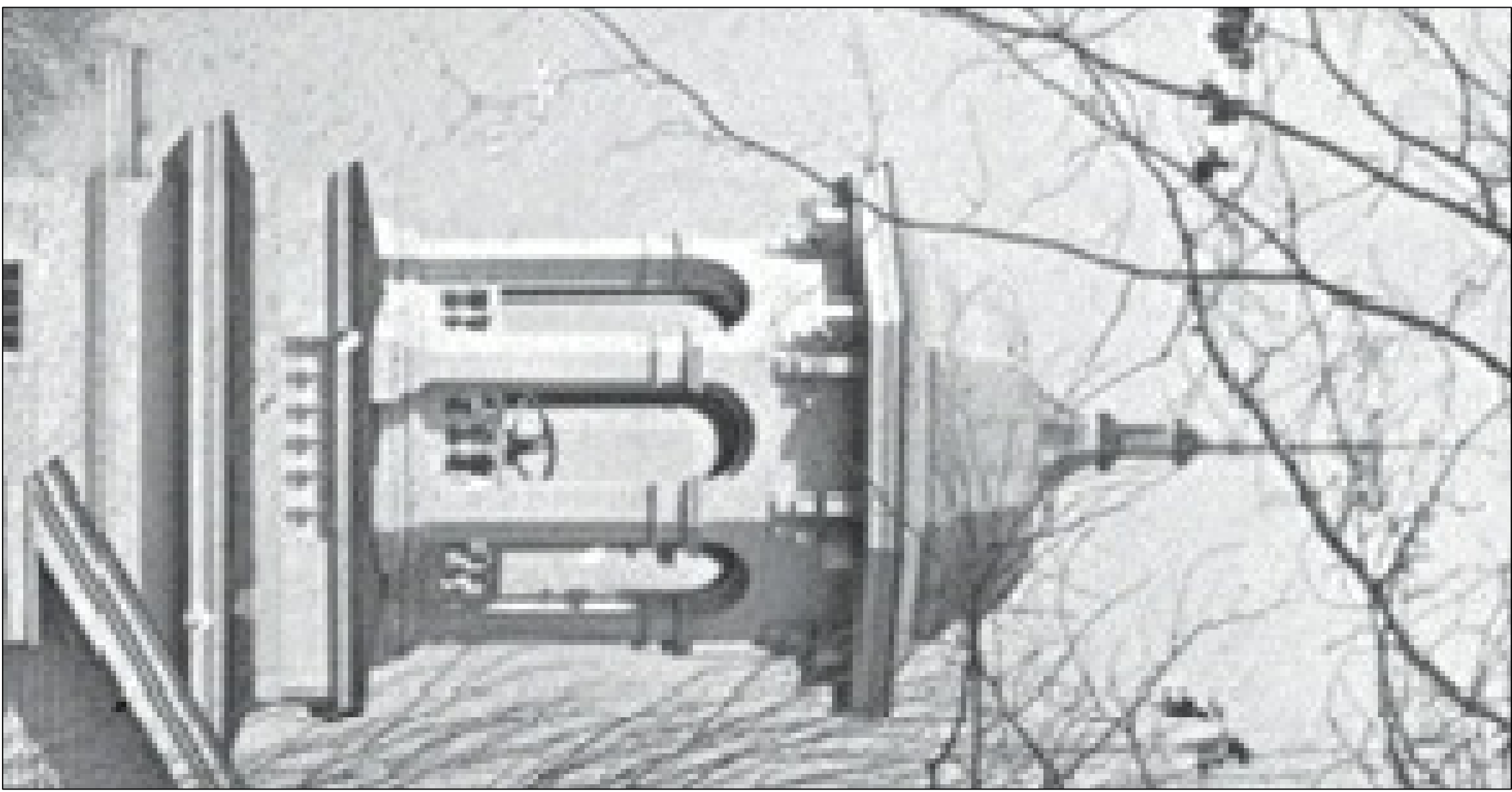
2 ROOF PLAN @ CUPOLA
SCALE: 1/4" = 1'-0"



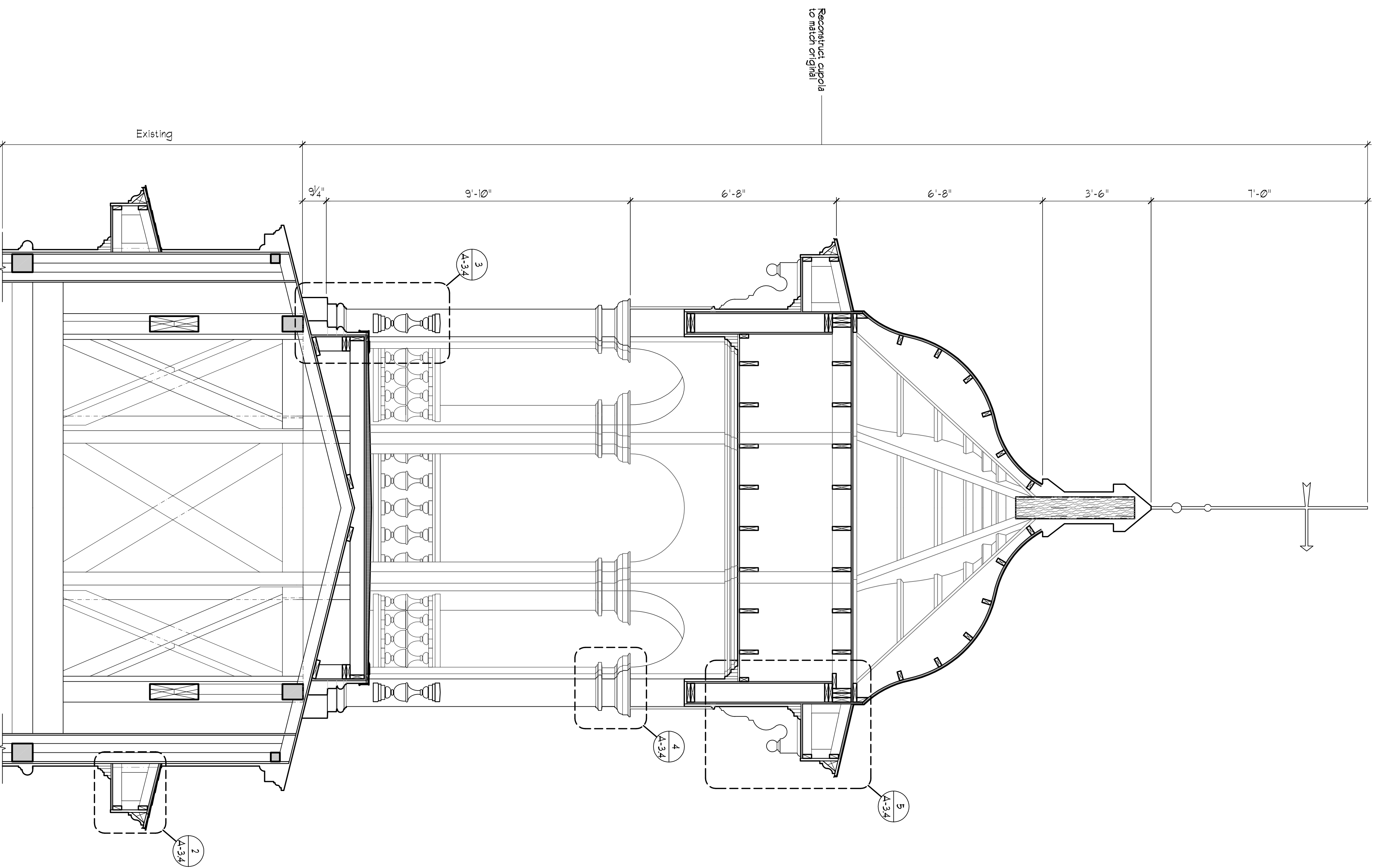
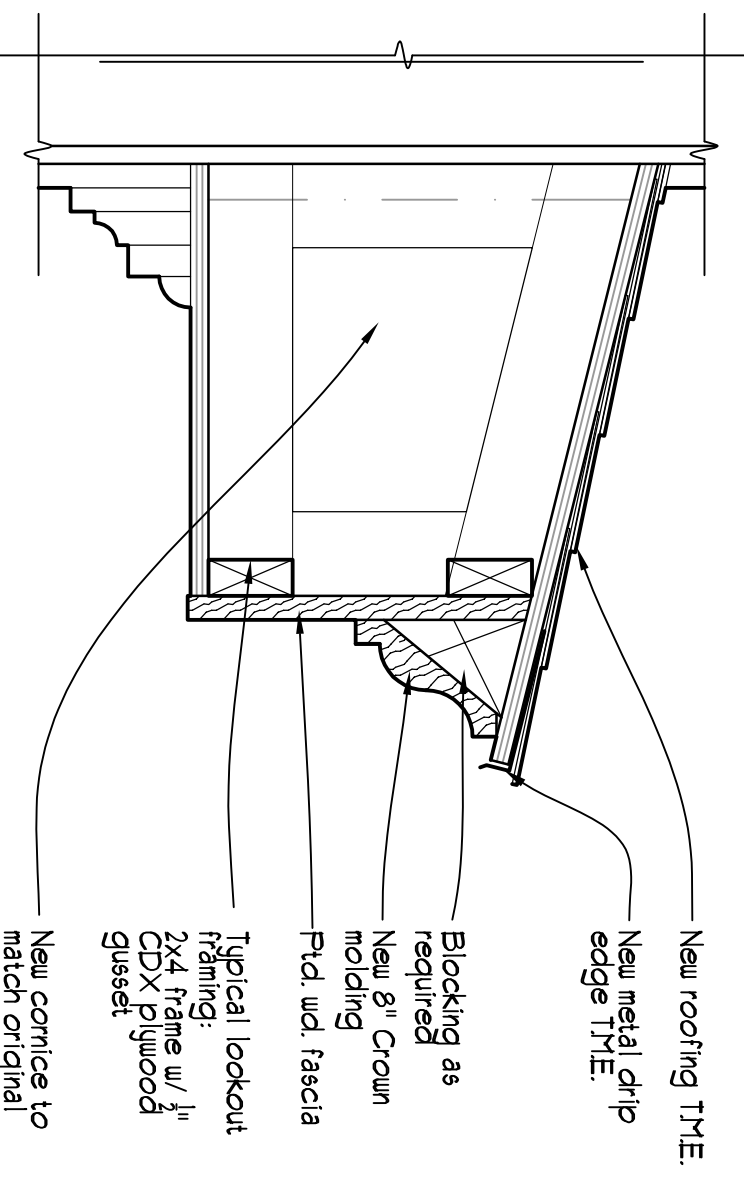
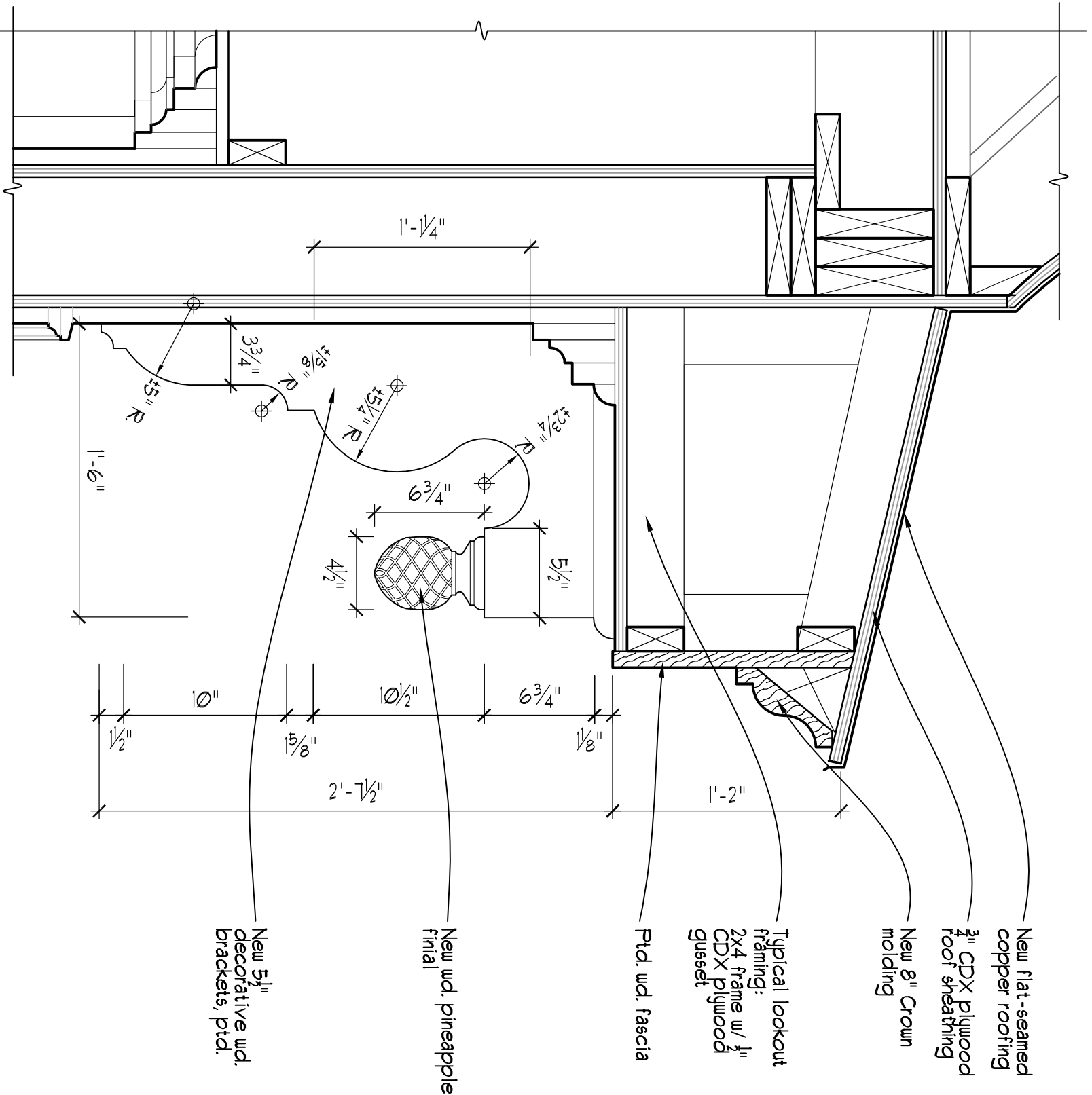
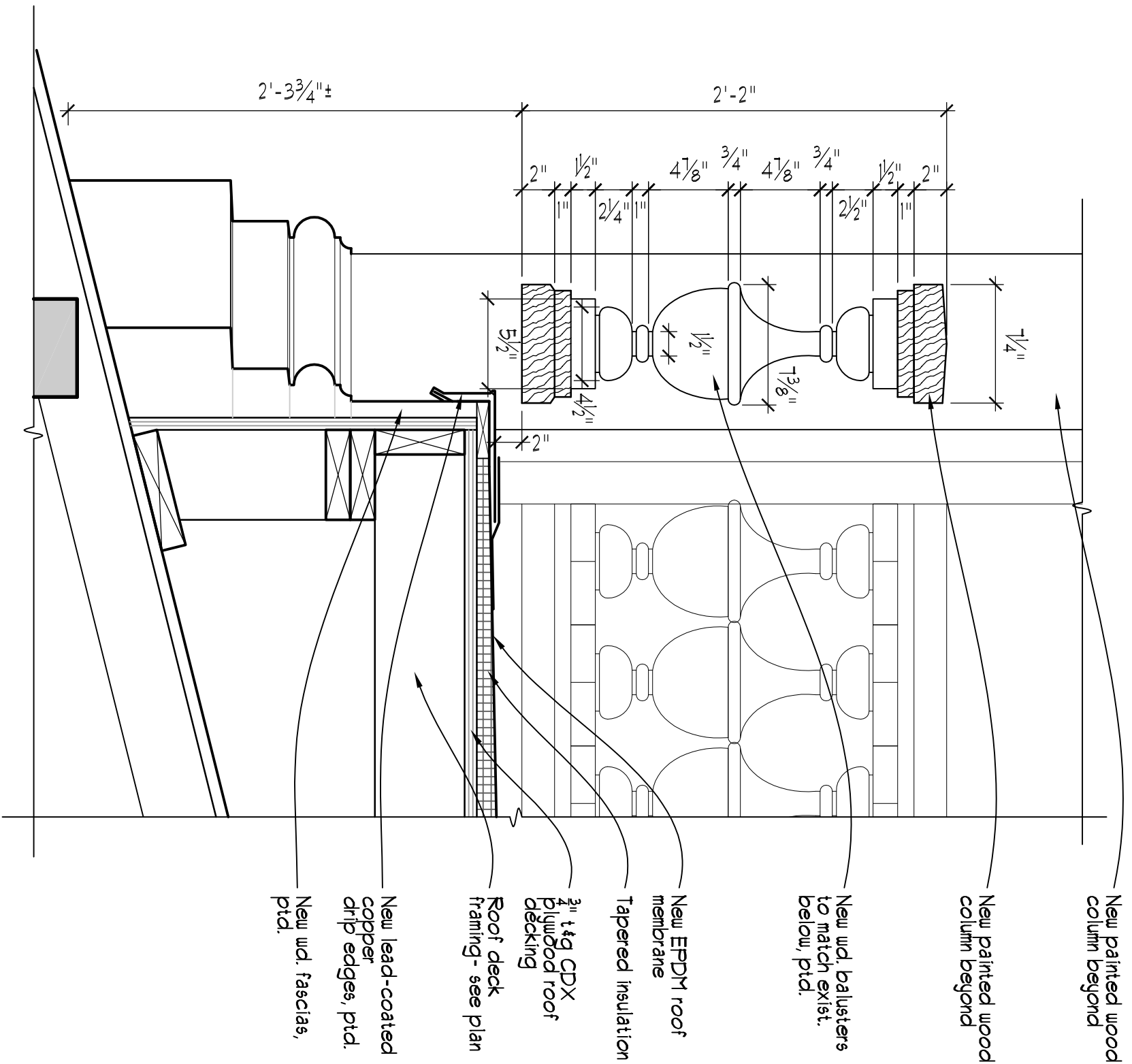
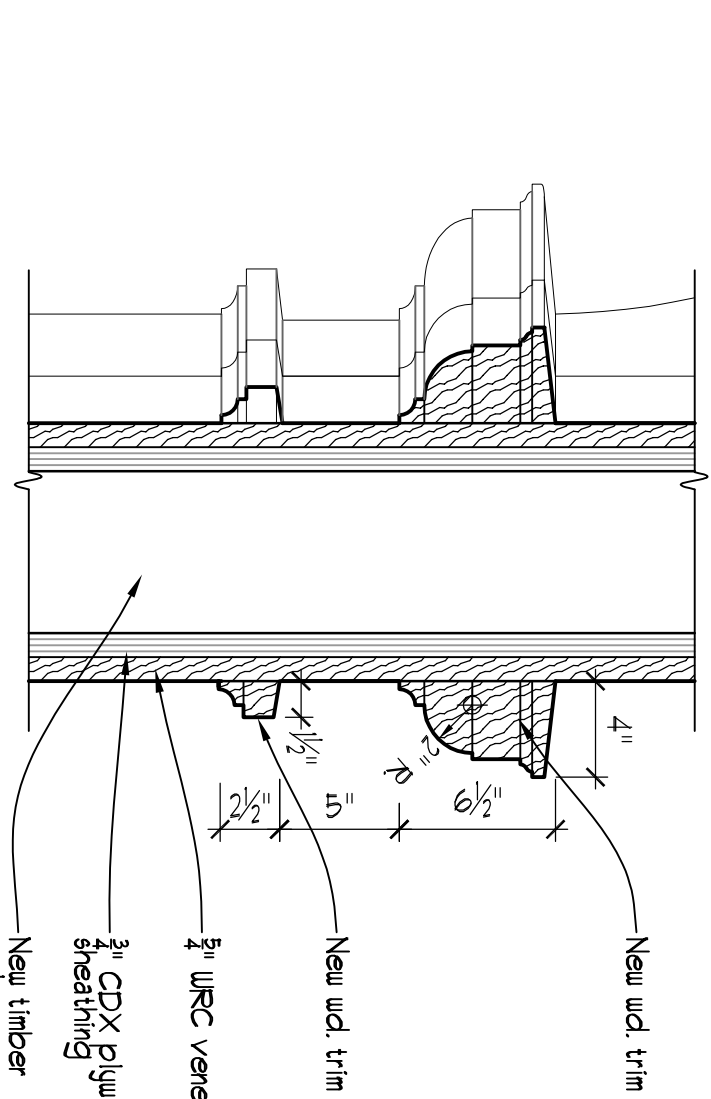
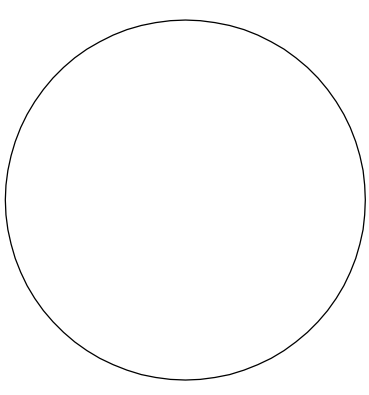
SECTION @ CRICKET / ELEVATION @ CUPOLA

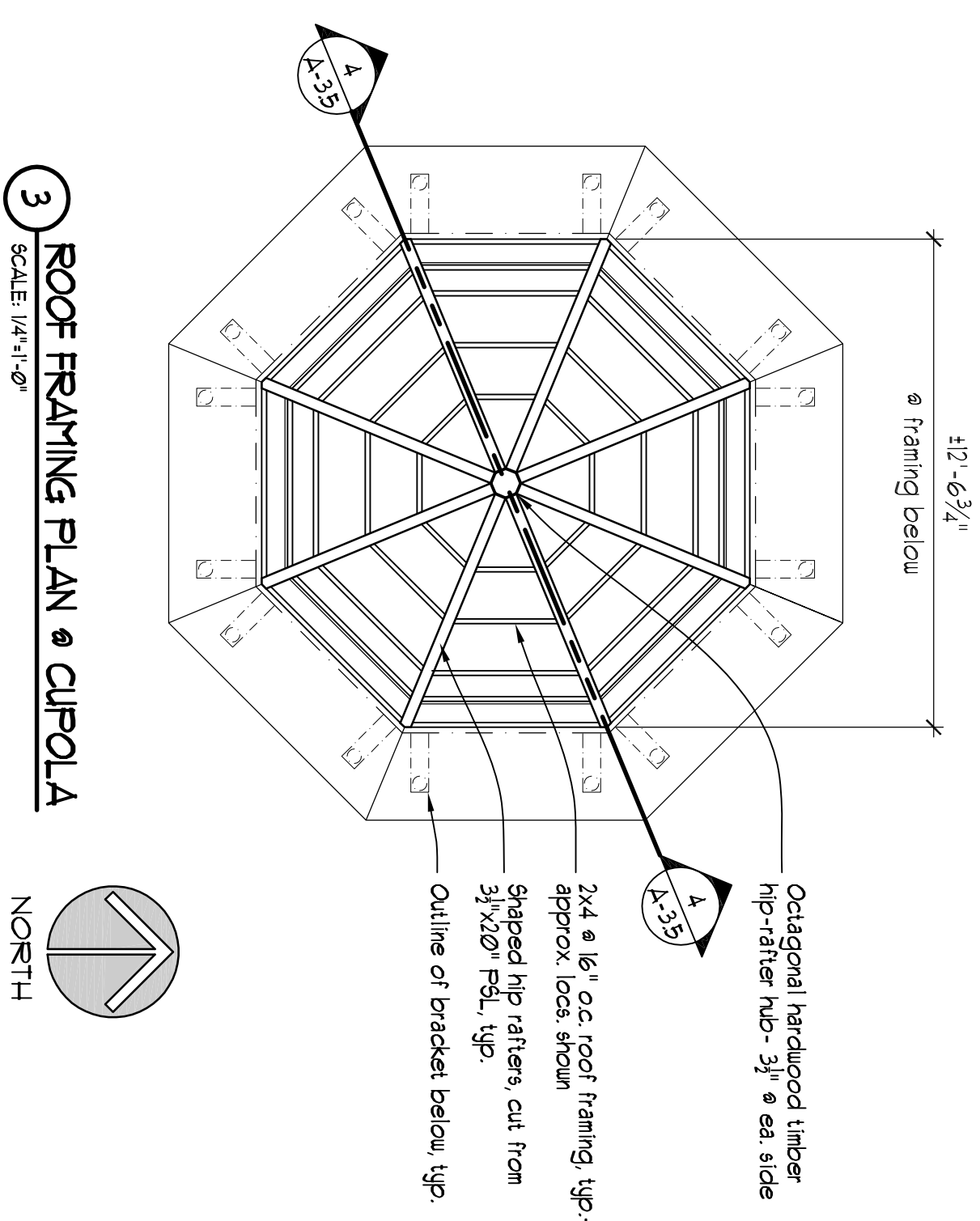


① FLOOR PLAN of CUPOLA
SCALE: 1/4" = 1'-0"

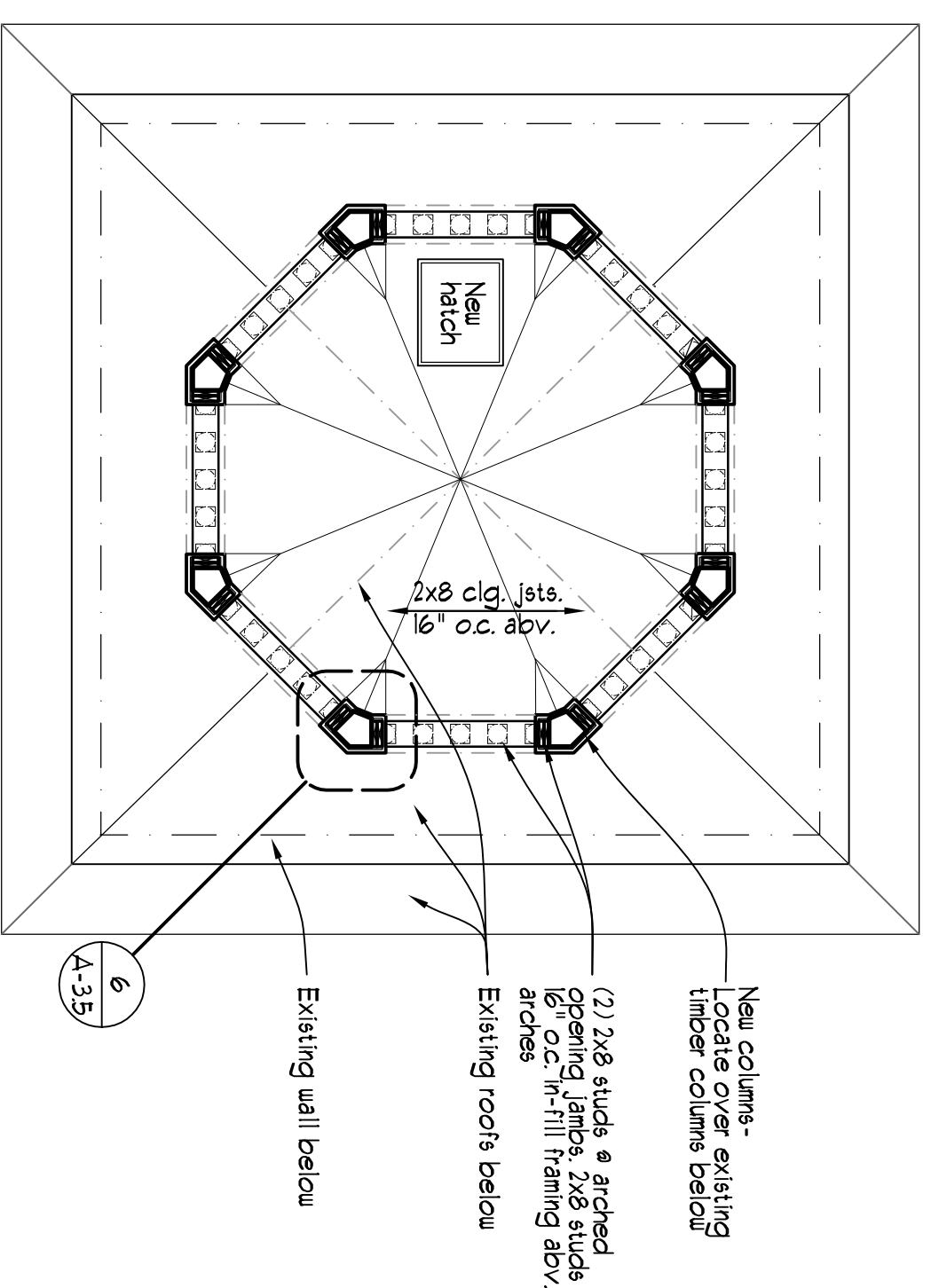


CUPOLA REFERENCE PHOTOGRAPH

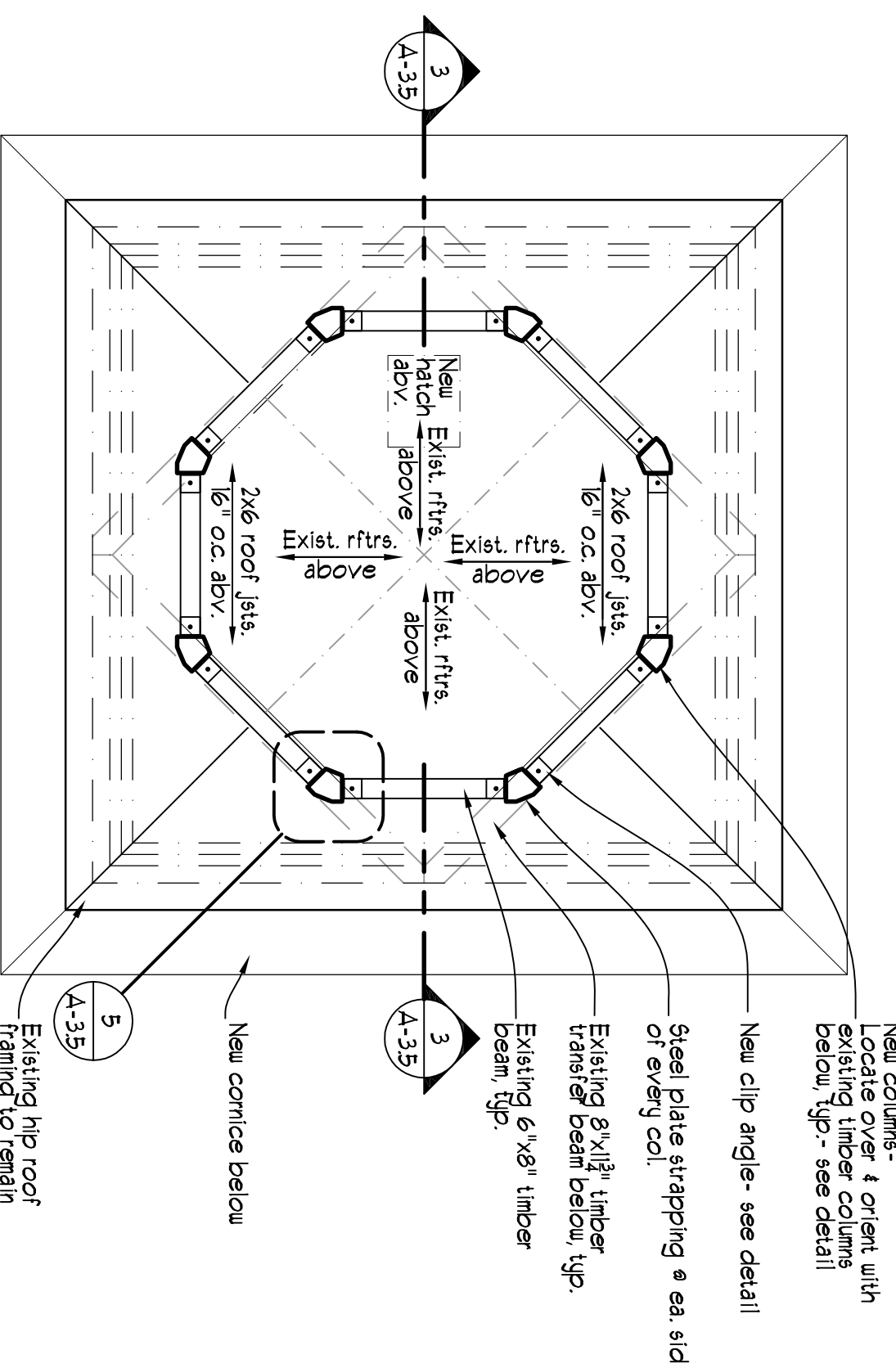




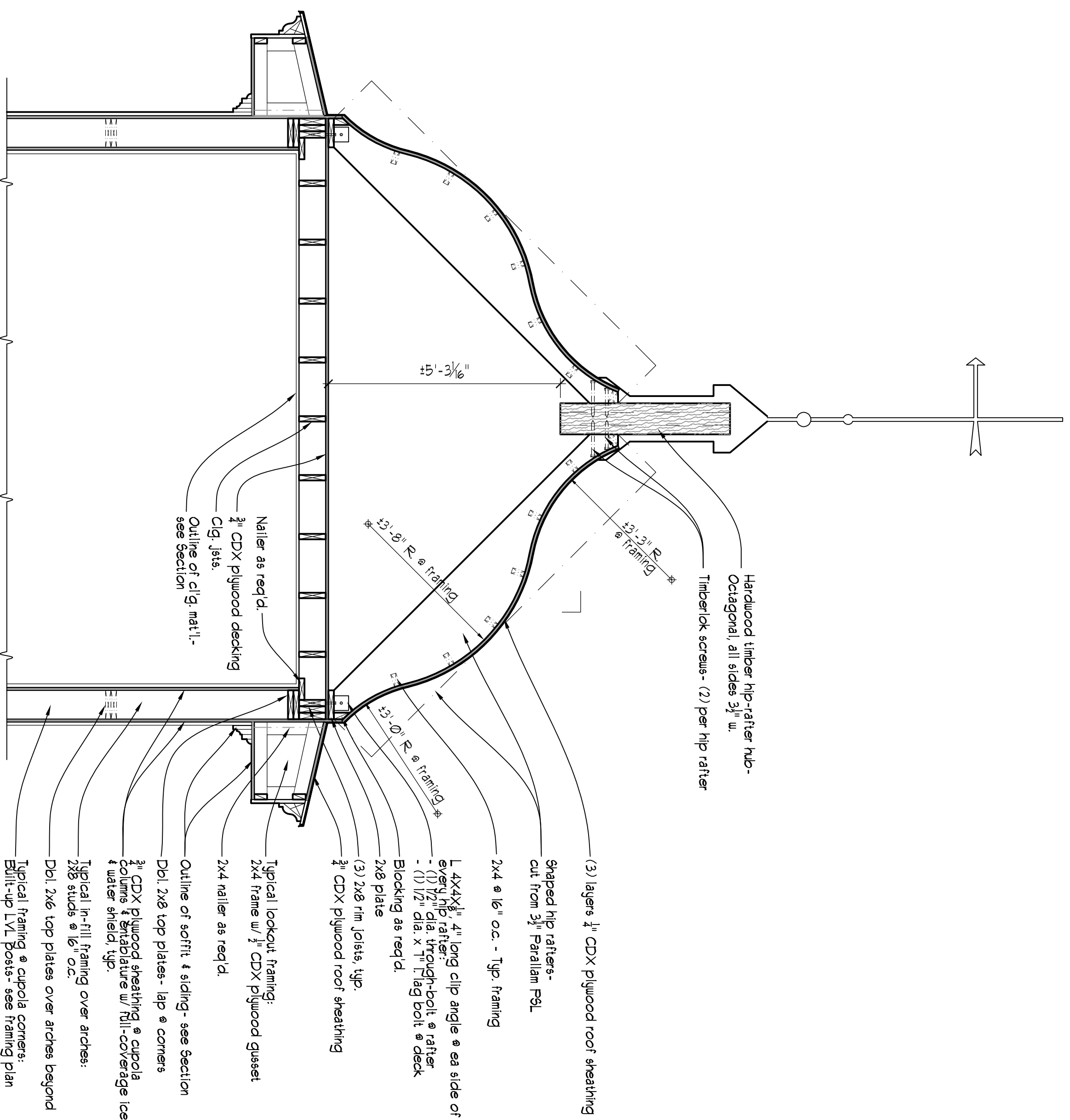
3 ROOF FRAMING PLAN @ CUPOLA
SCALE: 1/4" = 1'-0"



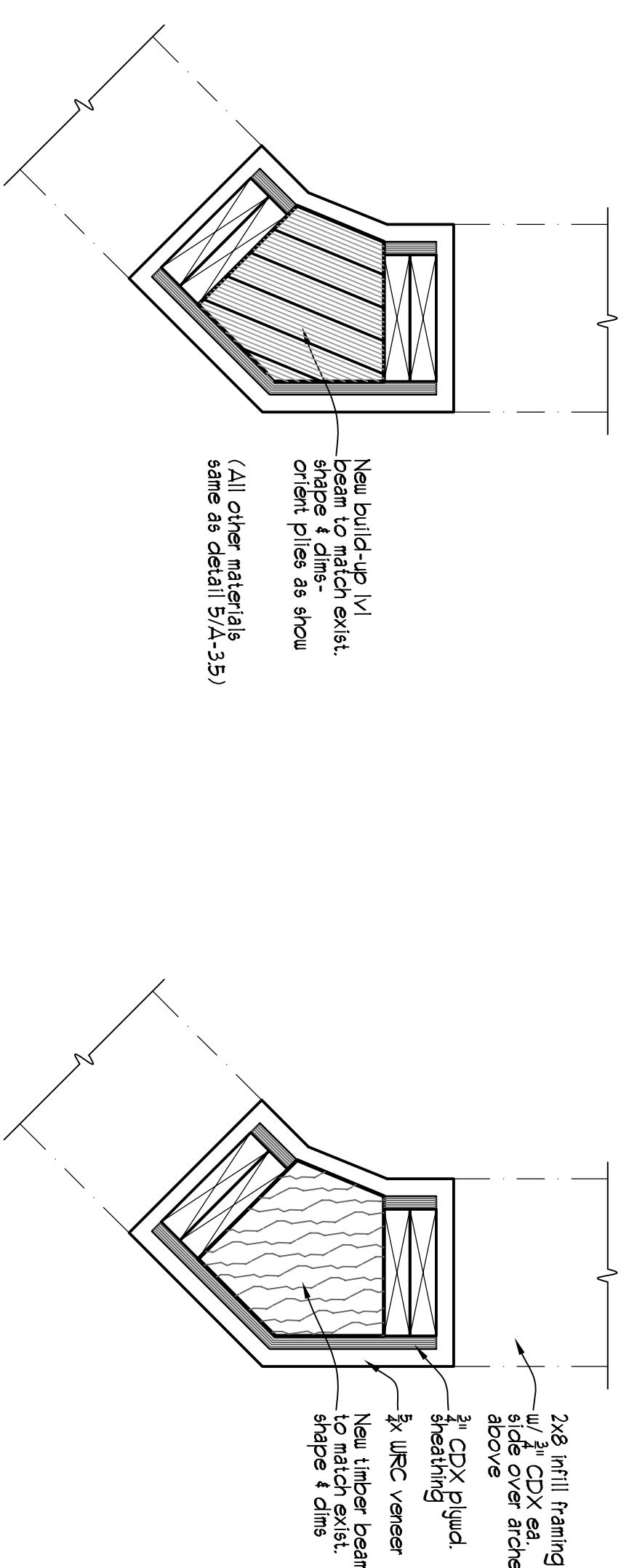
2 WALL & CEILING FRAMING PLAN @ CUPOLA
SCALE: 1/4" = 1'-0"



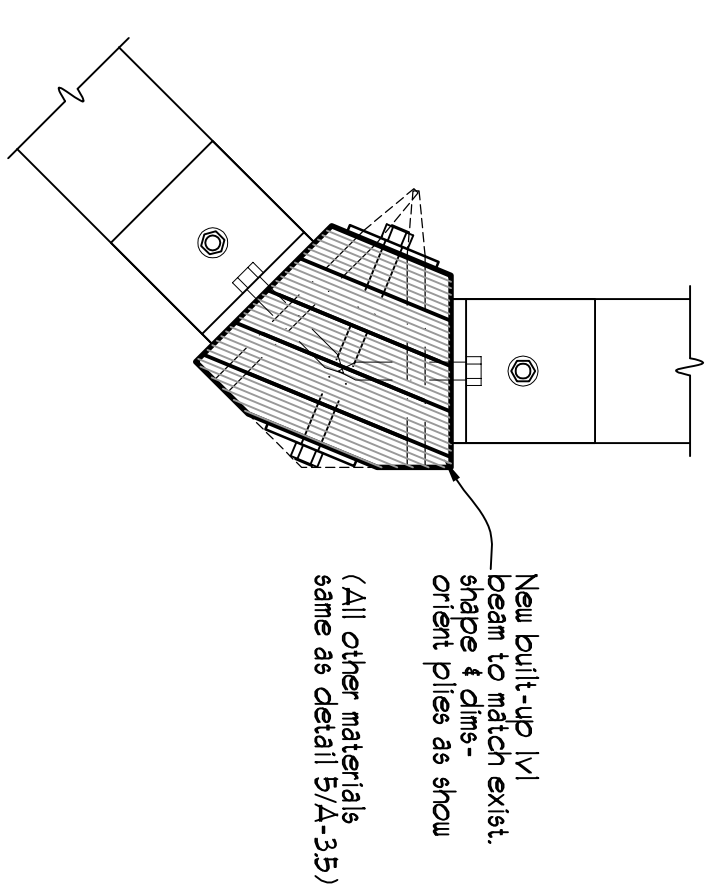
1 NEW COLUMN FRAMING PLAN @ EXIST. TOWER FRAMING
SCALE: 1/4" = 1'-0"



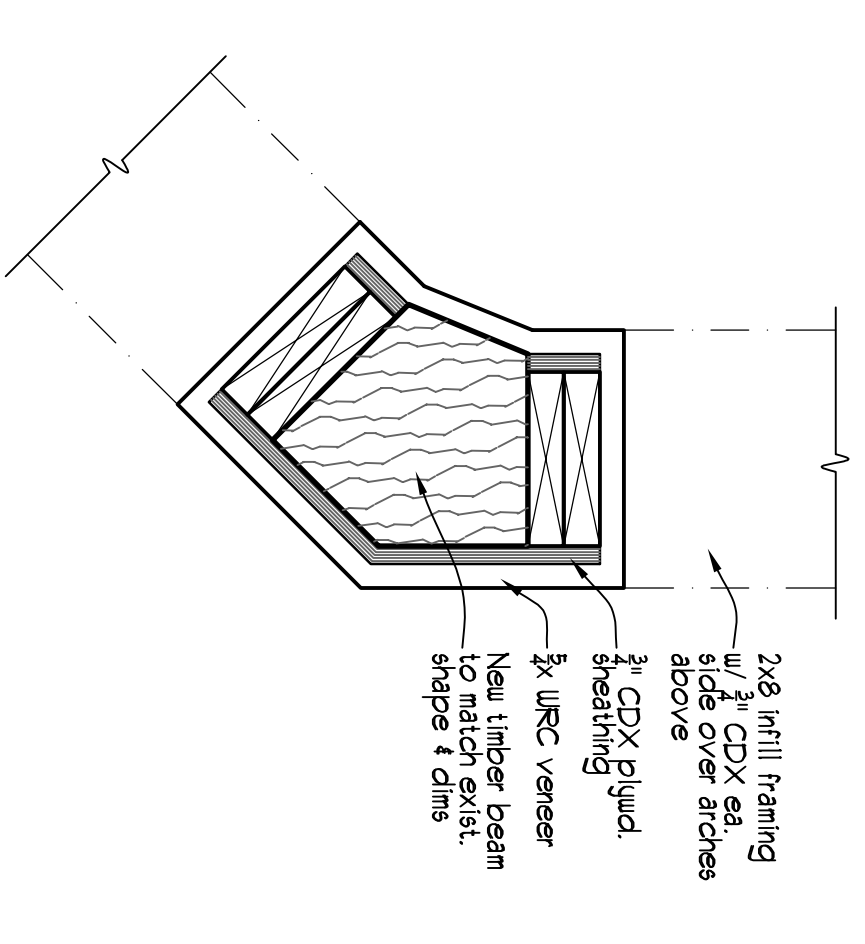
4 ROOF & CEILING FRAMING SECTION @ CUPOLA
SCALE: 1/2" = 1'-0"



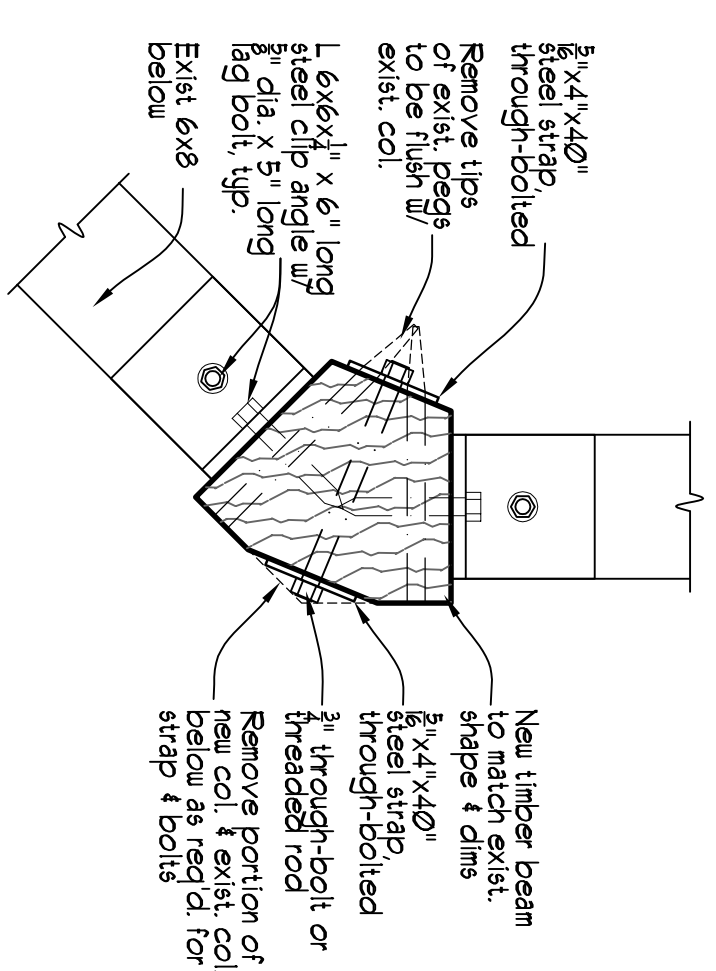
68 PLAN DETAIL @ NEW COLUMNS - CIPOLA - ALT.
SCALE: 1/2" = 1'-0"



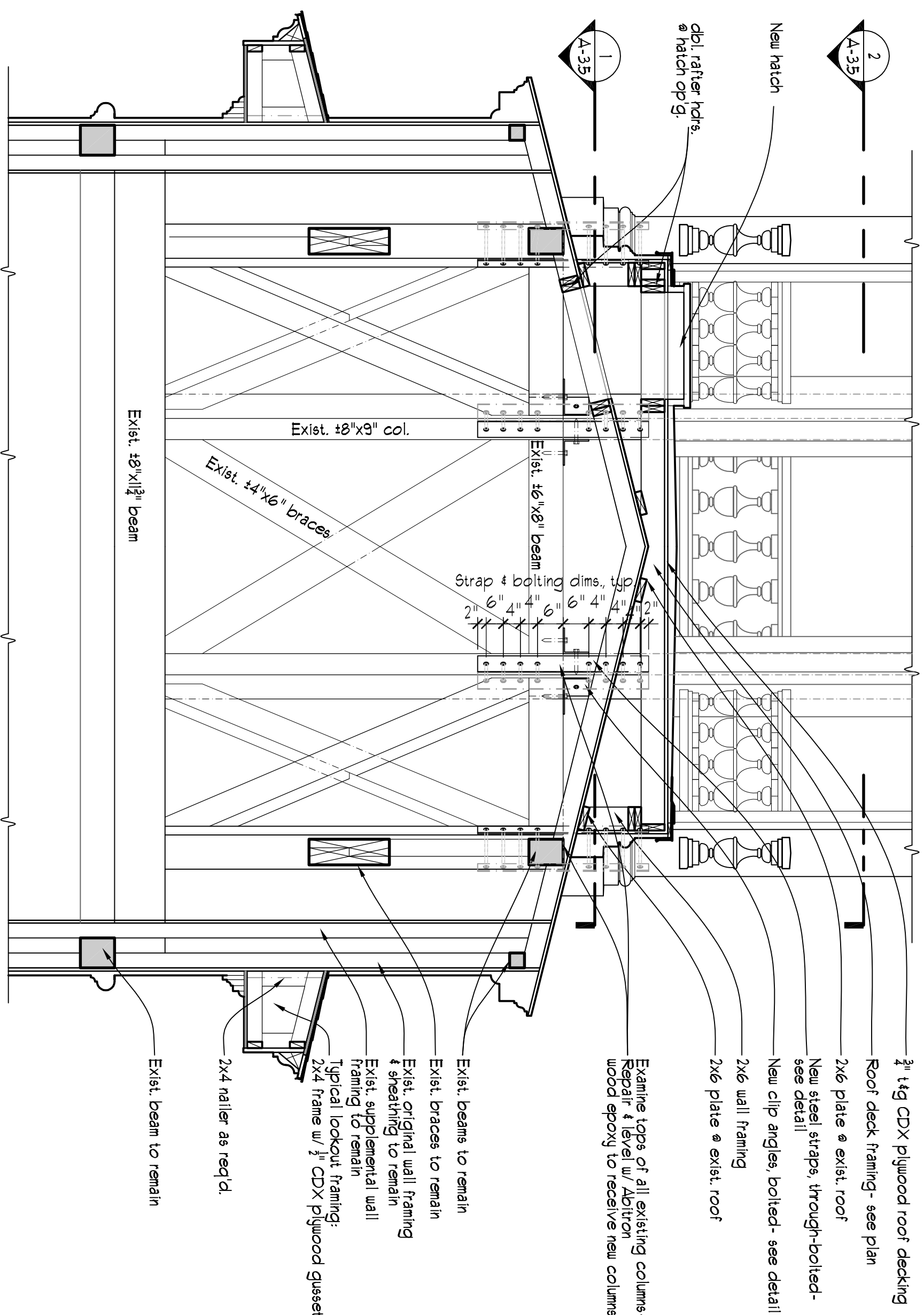
5a PLAN DETAIL - NEW COLUMNS - BASE - ALT.



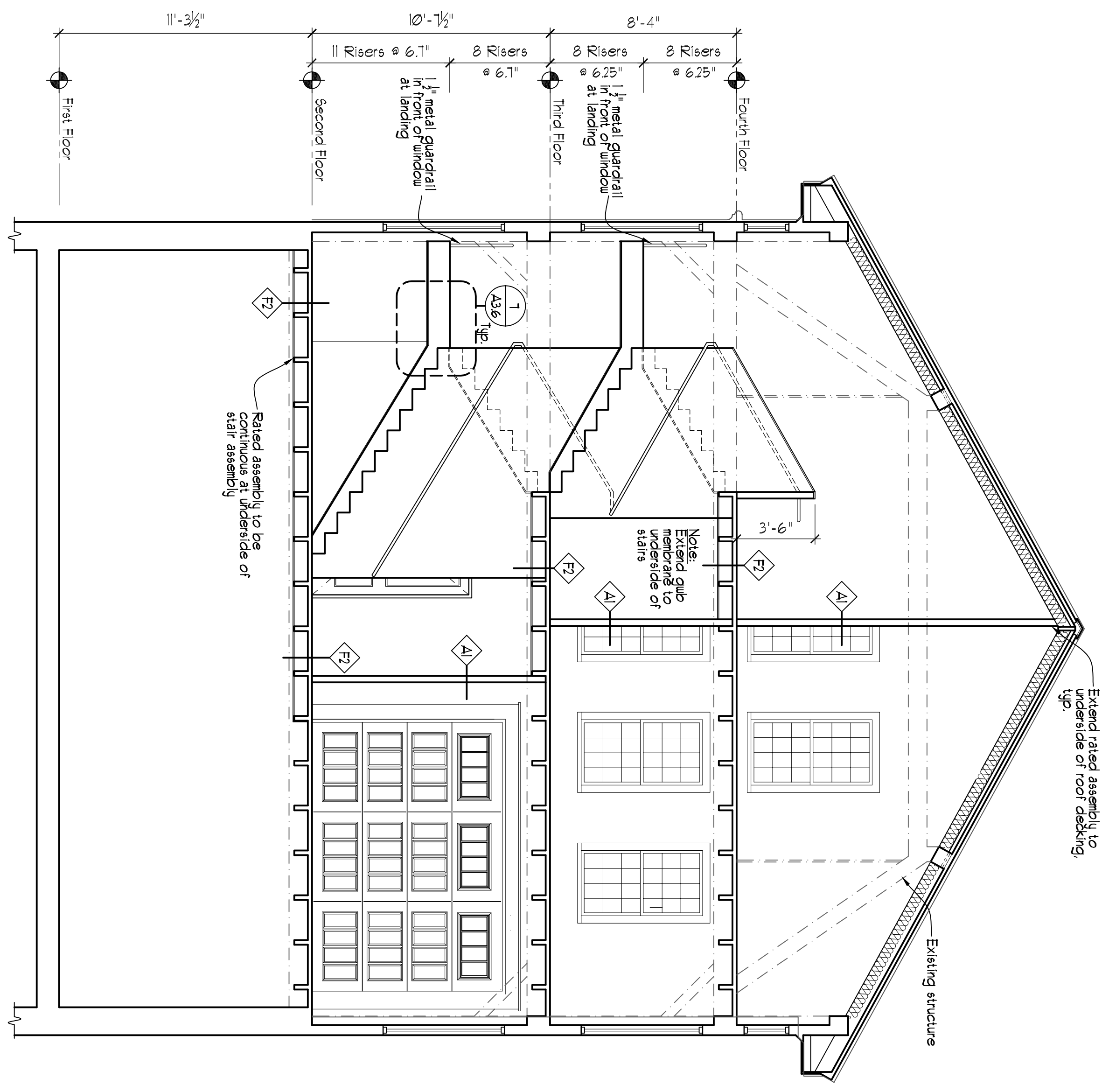
6 PLAN DETAIL @ NEW COLUMNS - CUPOLA
SCALE: 1/4" = 1'-0"



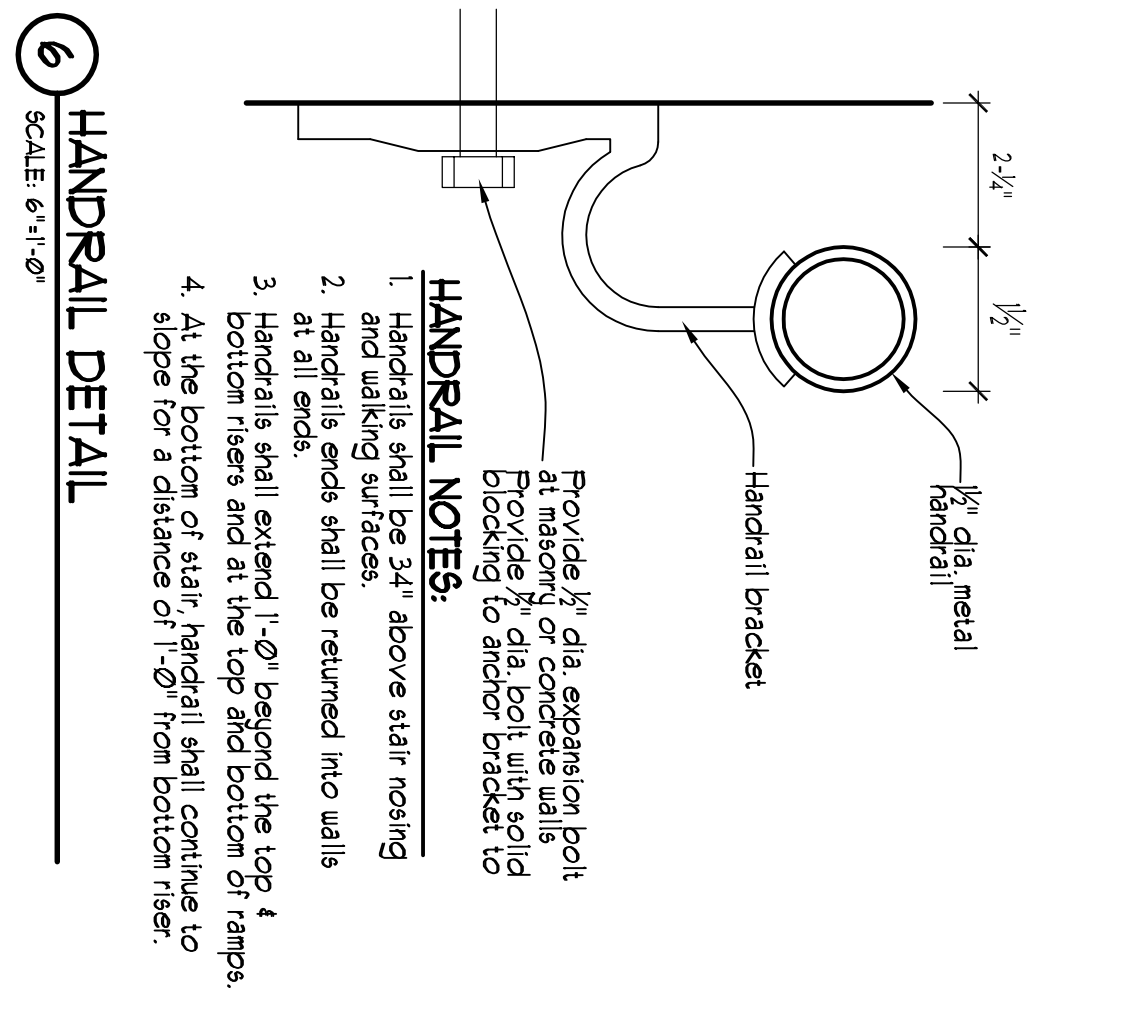
5 PLAN DETAIL - NEW COLUMNS - BASE



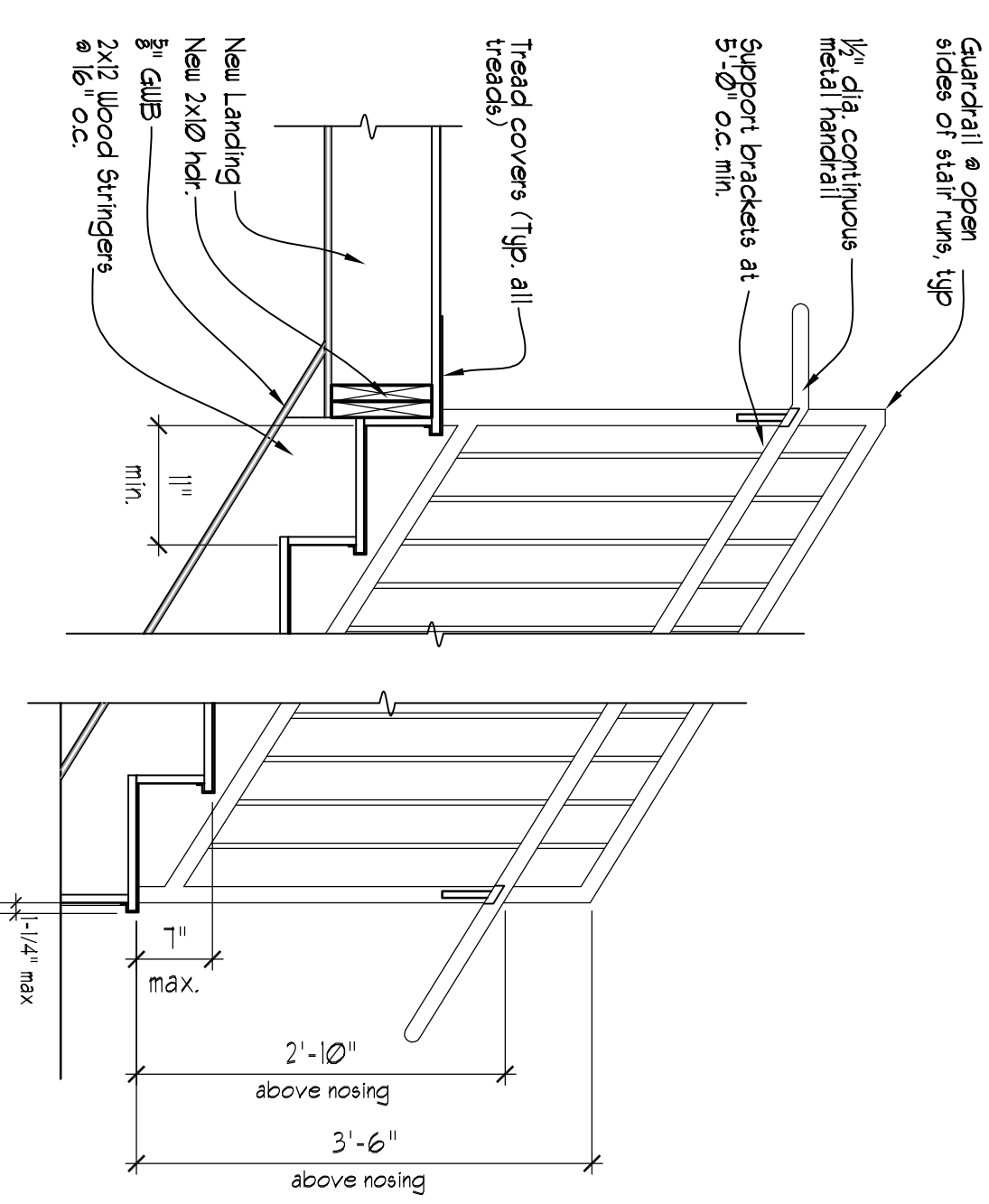
3 FLOOR & CIPOLA FRAMING SECTION AT TOWER
SCALE: 1/2" = 1'-0"



4 EAST STAIR SECTION
SCALE 1/4"=1'-0"



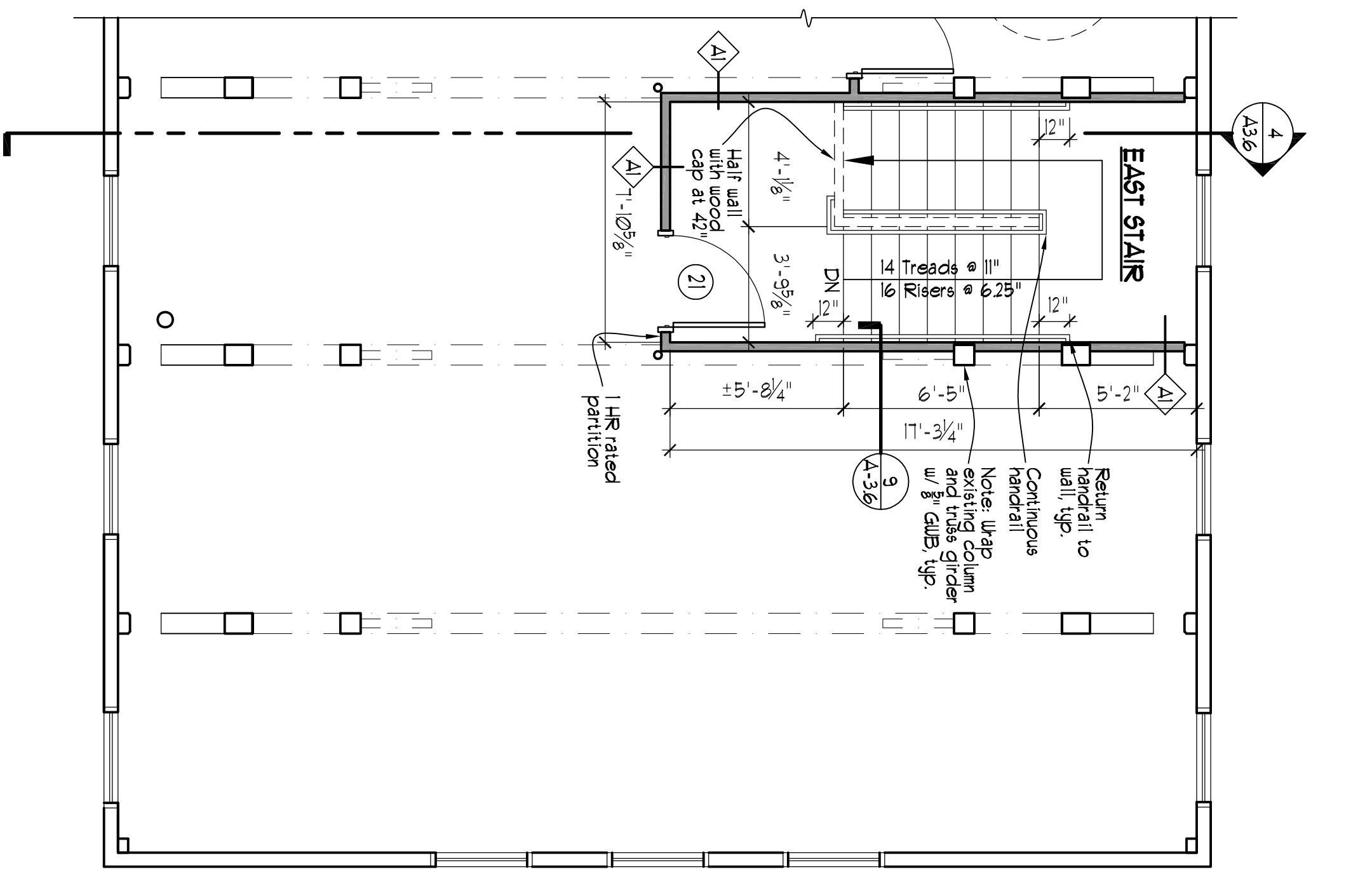
6 HANDRAIL DETAIL
SCALE 6/16"=1'-0"



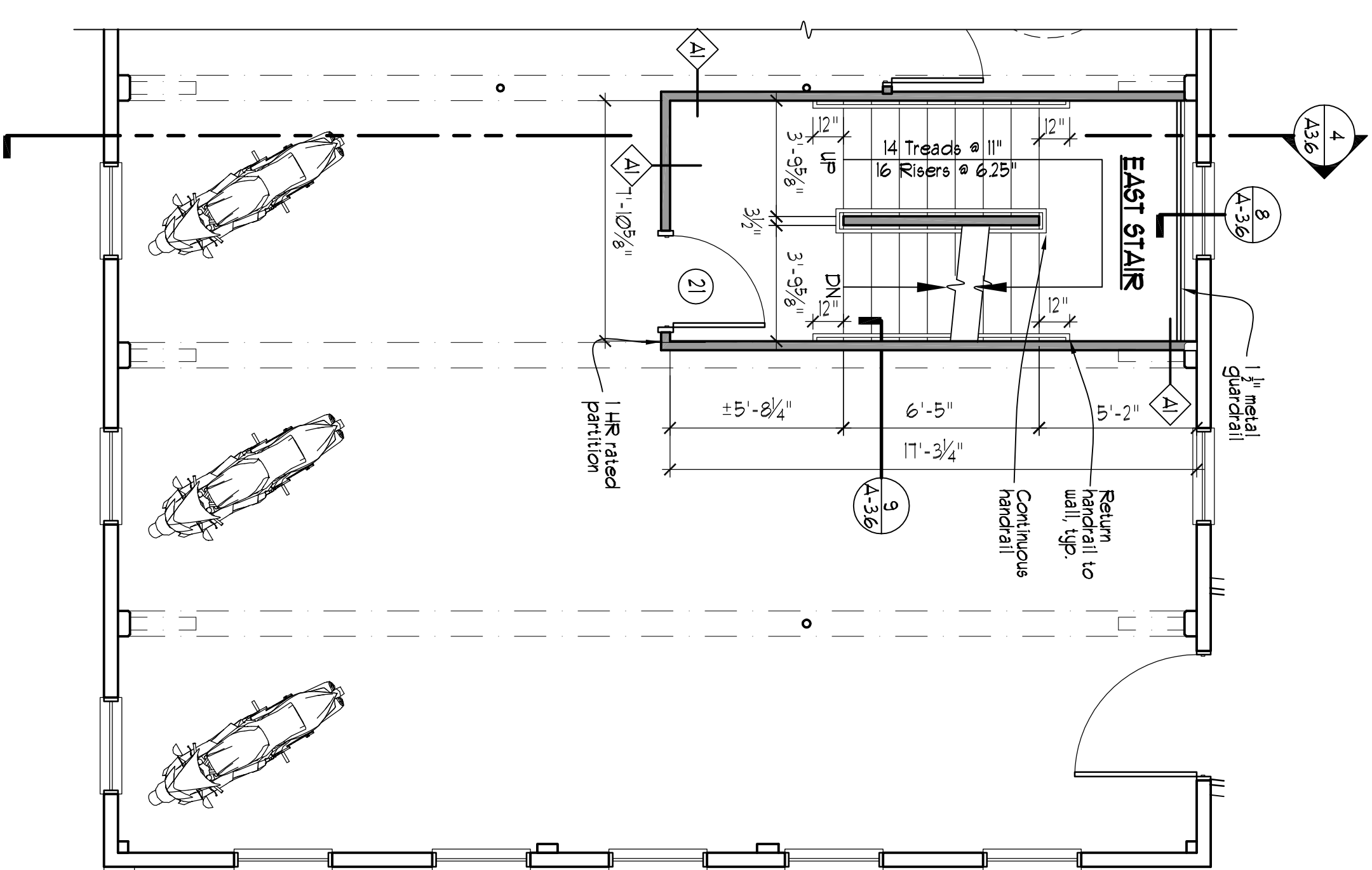
8 GUARDRAIL DETAIL
SCALE 3/4"=1'-0"

7 STAIR DETAIL
SCALE 3/4"=1'-0"

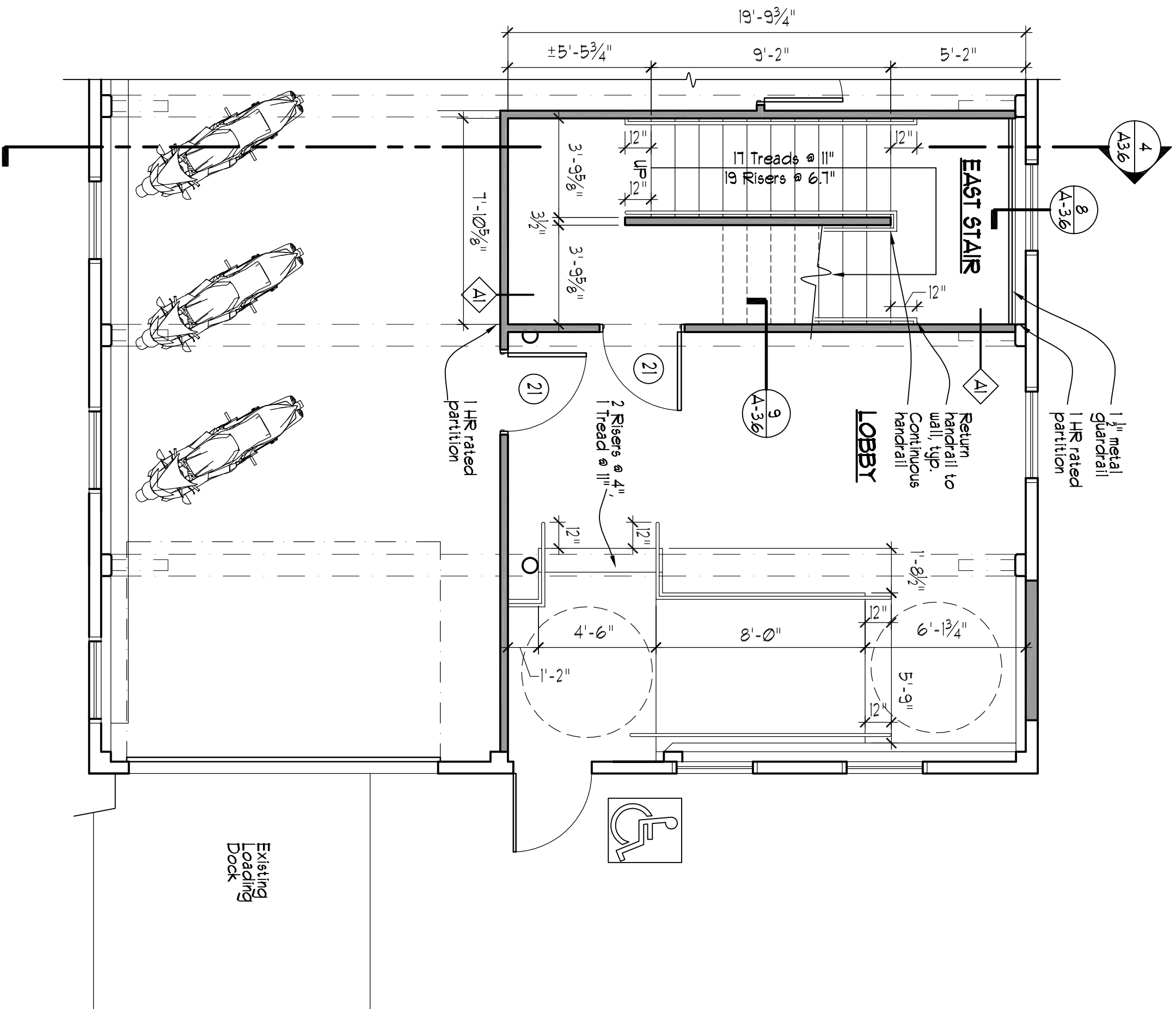
9 DETAIL AT NEW STAIR / EXISTING BEAM
SCALE 1/2"=1'-0"



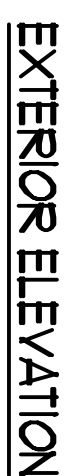
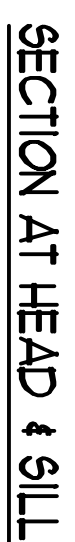
3 FOURTH FLOOR STAIR PLAN
SCALE 1/4"=1'-0"



2 THIRD FLOOR STAIR PLAN
SCALE 1/4"=1'-0"



1 SECOND FLOOR STAIR PLAN
SCALE 1/4"=1'-0"



2 TYPICAL DETAILS AT WINDOW - MASONRY EXTERIOR WALL

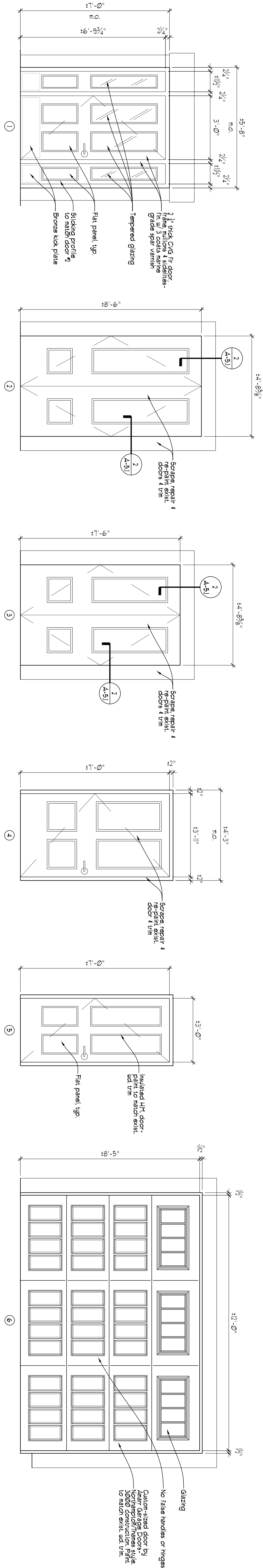
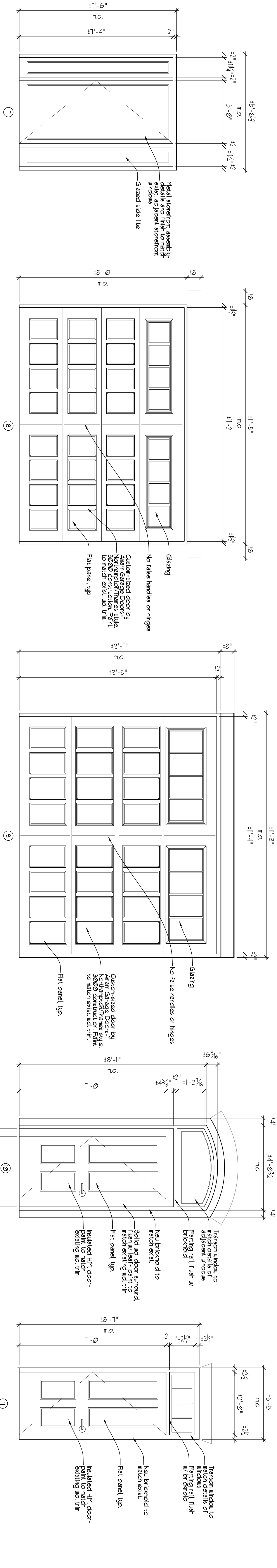
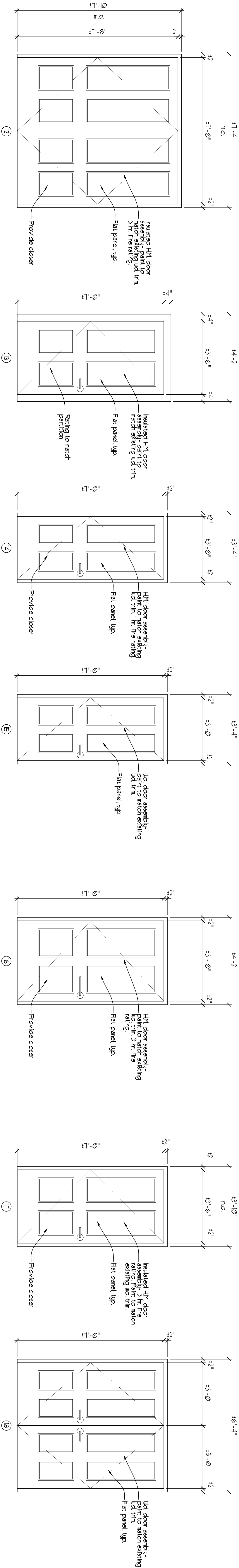
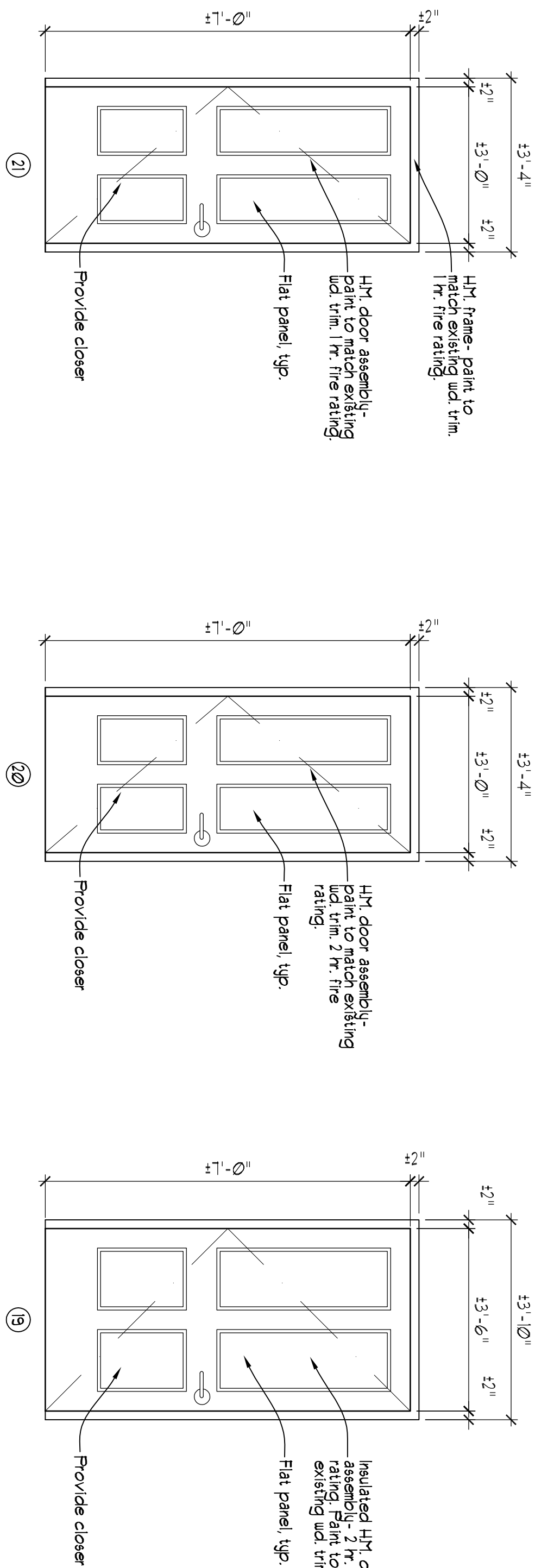
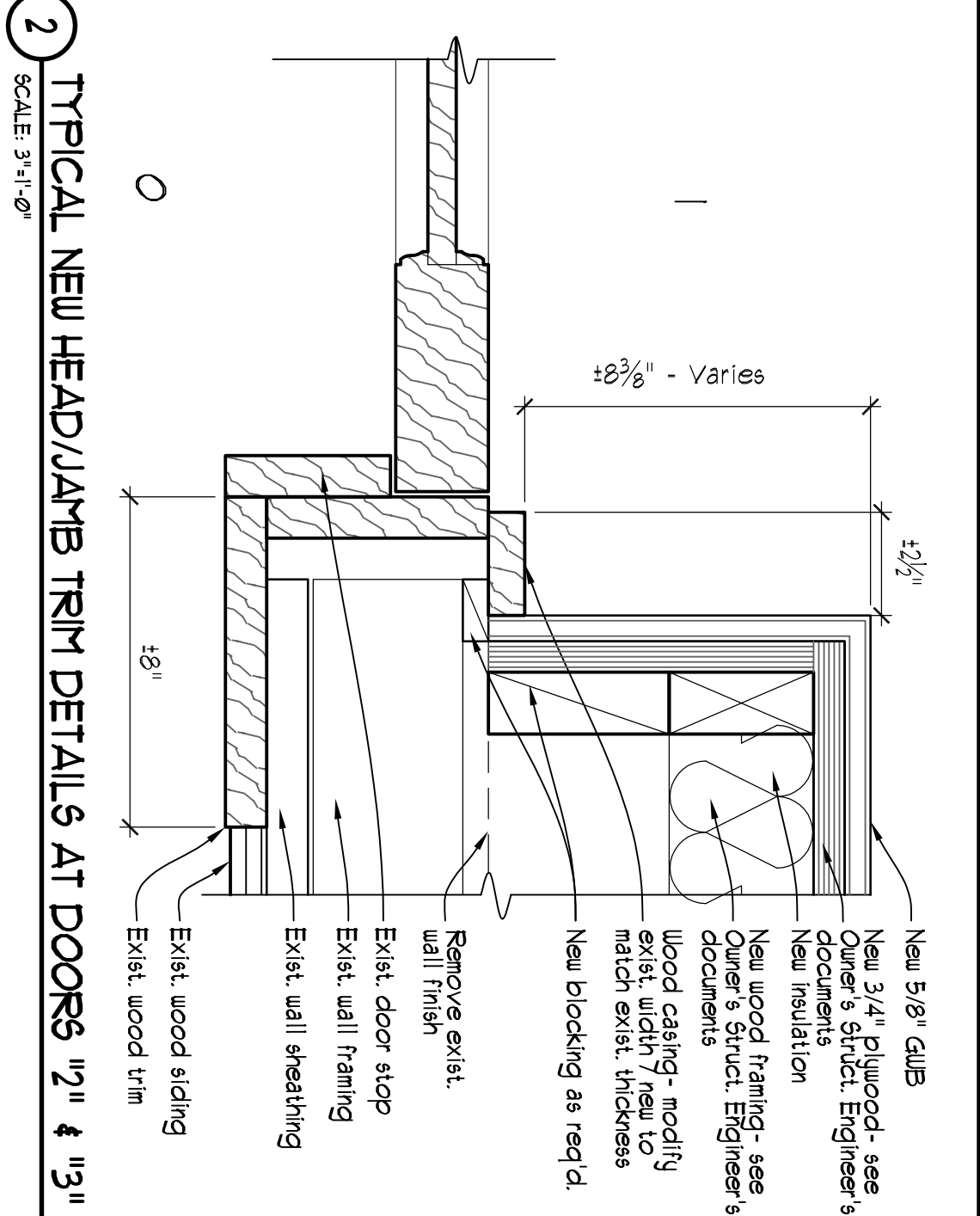
SCALE: 3"=1'-0"

Existing window unit shown. See drawings by Window Manufacturer for details of proposed window unit.

① TYPICAL DETAILS AT WINDOW - WOOD-FRAMED EXTERIOR WALL WITH WOOD SIDING

SCALE: 3"=1'-0"

Existing window unit shown. See drawings by Window Manufacturer for details of proposed window unit.



1 DOOR ELEVATIONS

SCALE 1/4"=1'-0"

A-5.1

Bldgs. 2 & 3
Door Elevations

Drawn: DGC, MAB, TN
Date: May 15, 2017
Revisions:

Hockanum Mill
200 West Main Street, Rockville, CT
Kaplan Mill Works, LLC
61 Tolland Turnpike, Manchester, CT

Verify all dimensions in field.

PART 1 - GENERAL

A. Owne

- ## 1.2. SCOPE

- ### 1.3. SUBMITTALS

- #### 1.4. GUARANTEE

- ### 1.5. DEFINITION

- ## 1.6. OPERATING AND MAINTENANCE INSTRUCTIONS

- ### 1.7. CONTRACTOR'S INSPECTION

- ### 1.8. ARRANGEMENT OF WORK

- ## 1.9. INSURANCE

- #### 1.10. PERMITS, LAWS, ORDINANCES, CODES AND STANDARDS

- ## 1.11. FILTERS

- ### 1.12. WORK BY OTHERS

- ### 1.13. FIELD MEASUREMENTS

- #### 1.14. WORKMANSHIP

- ### 1.15. COORDINATION WITH OWNER

- and with the Owner as to date, time of day, and

- ### 1.18. CUTTING AND PATCHING

- ### 1.19. WATERPROOFING

- ## 1.20. FIREPROOFING

- ## 1.21. BASES AND SUPPORTS

- ## 1.22. ACCESS

- ### 1.23. TESTS



END OF SPECIFICATION

- ## 1.24. SEISMIC REQUIREMENTS

- ## PART 2 - PRODUCTS

2.1. MATERIALS AND METHODS

2.1. MATERIALS AND METHODS

- ### C. Insulation Systems:

- ## 2.2. CATEGORY III VENTING SYSTEM

- ### PART 3 - EXECUTION

PART 3 - EXECUTION

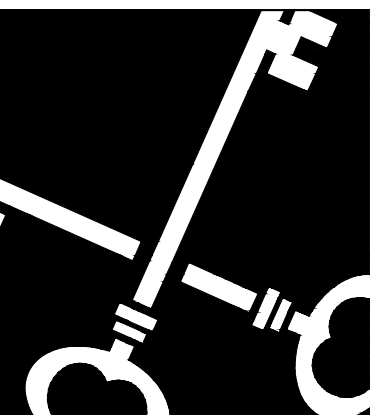
- ### 3.1 FIRE STOPS

- ### 3.2 REMOVAL, RELOCATION AND/OR ABANDONMENT

- ### 3.3 EQUIPMENT

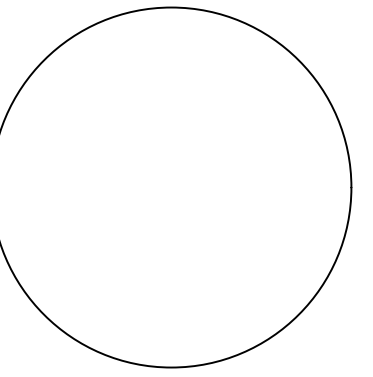
- B. Maintain clearance to combustibles as recommended by the equipment manufacturer.

- C. Coordinate the exact location of all wall and roof penetrations with the Architect.



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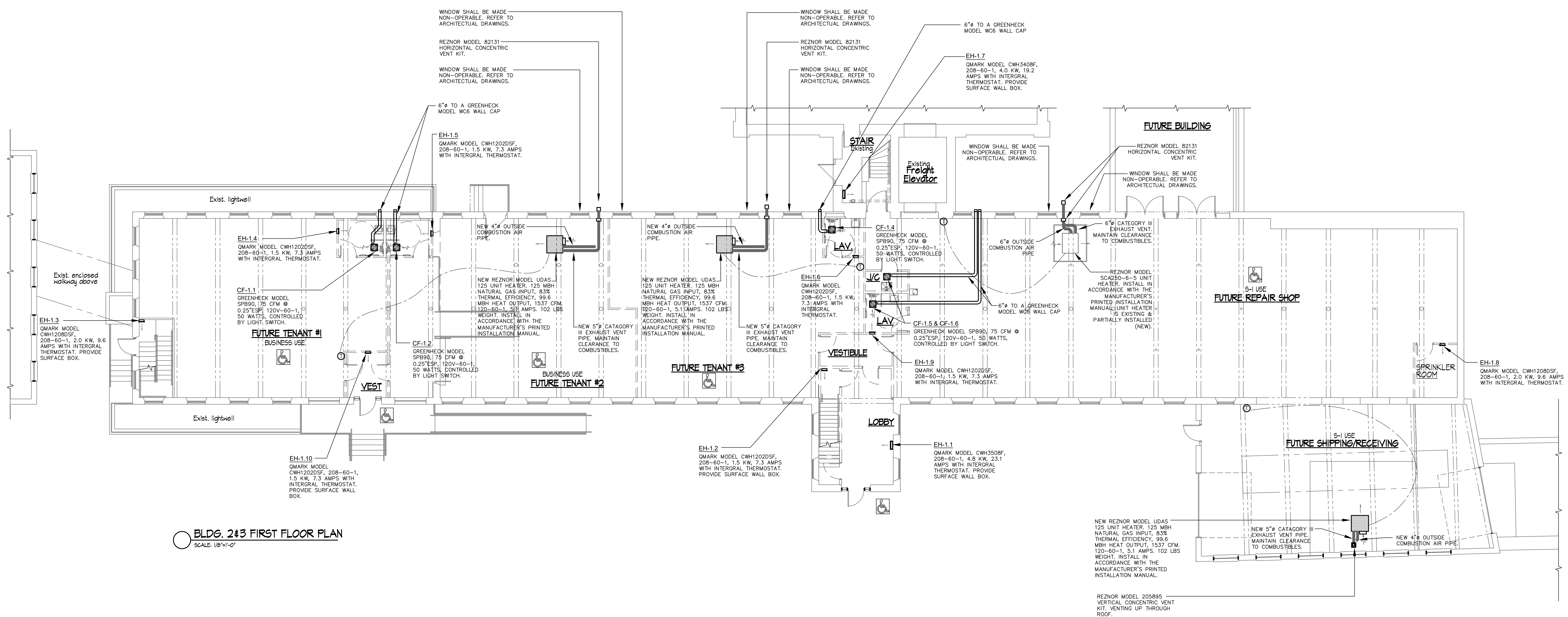
Drawn:	TAS
Date:	May 9, 2017
Revisions	

FIRST FLOOR
PLAN -
MECHANICAL

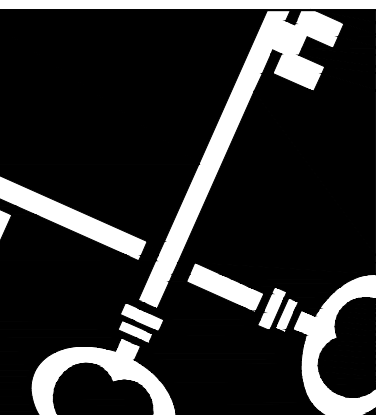
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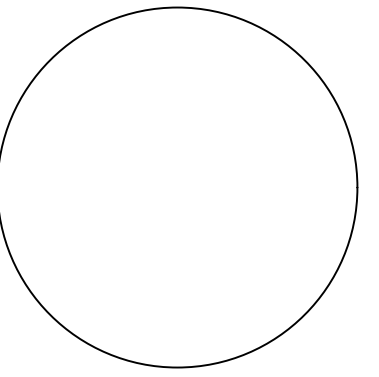


BLDG. 243 FIRST FLOOR PLAN
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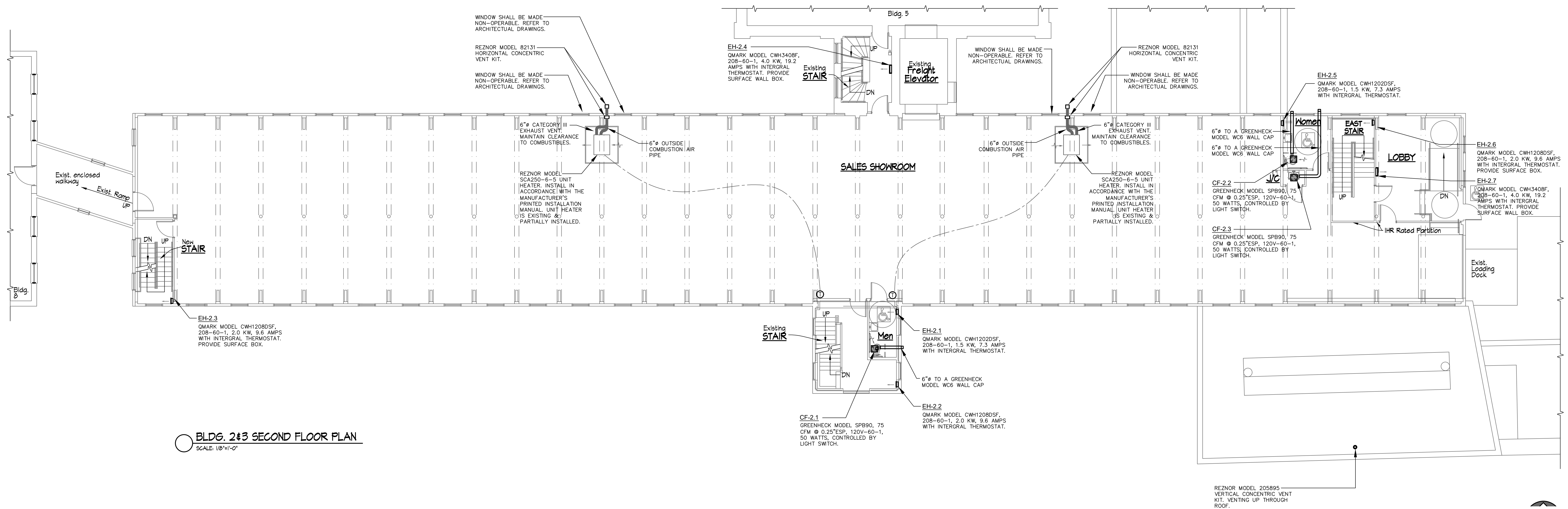
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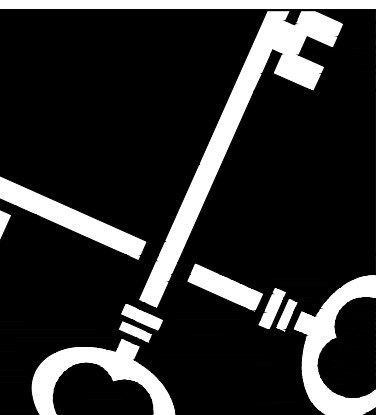
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Revisions	

SECOND FLOOR
PLAN -
MMECHANICAL

M-1.3

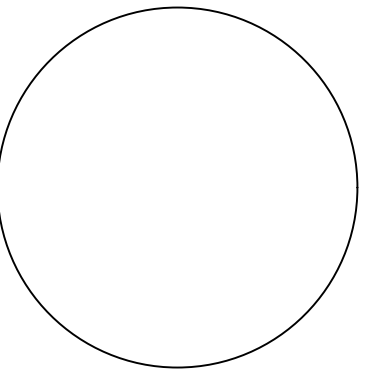
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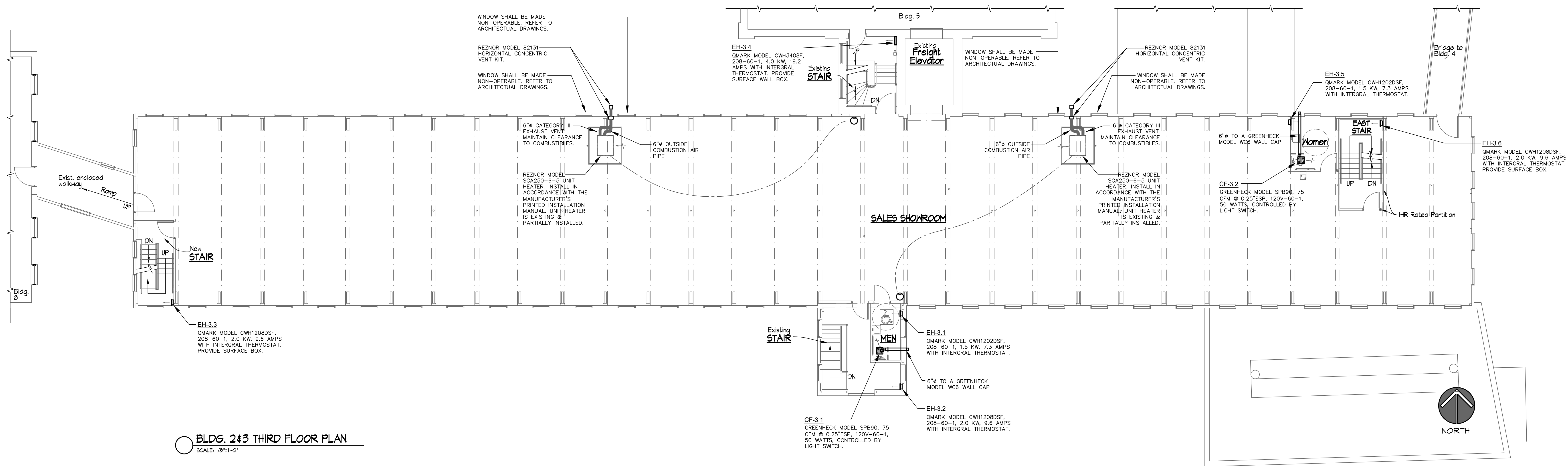
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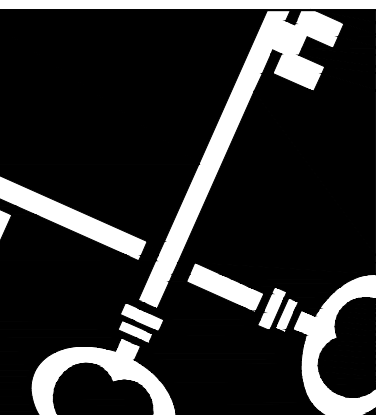
THIRD FLOOR
PLAN -
MECHANICAL

M-1.4

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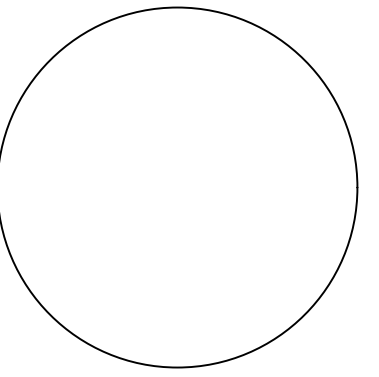
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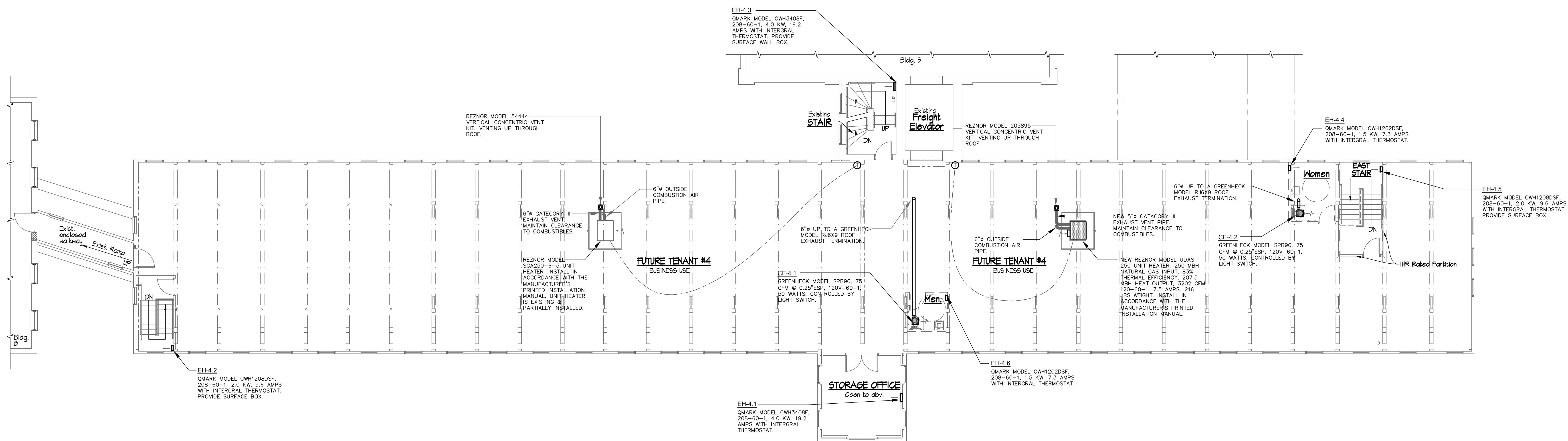
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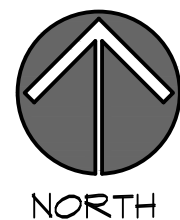


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BLDG. 2#3 FOURTH FLOOR PLAN
SCALE: 1/8\"/>



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FOURTH FLOOR PLAN -
MECHANICAL

M-1.5

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FIRE PROTECTION NOTES

- NOTE PERTAIN TO ALL DRAWINGS
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 ELEMENTS.
 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 NFPA-13.
 6. PROVIDE SEISMIC BRACING AS PER NFPA.
 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 & VESTIBULES. 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. SIAMISE CONN., WATER CONG. 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

- NOTE PERTAIN TO ALL DRAWINGS
1. 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.
 2. BASEMENT - PROVIDE A DRY SYSTEM WITH UPRIGHT SPRINKLER COVERAGE. ALL PIPING TO BE EXPOSED IN UNFINISHED CEILING AREAS.

SYMBOL LIST

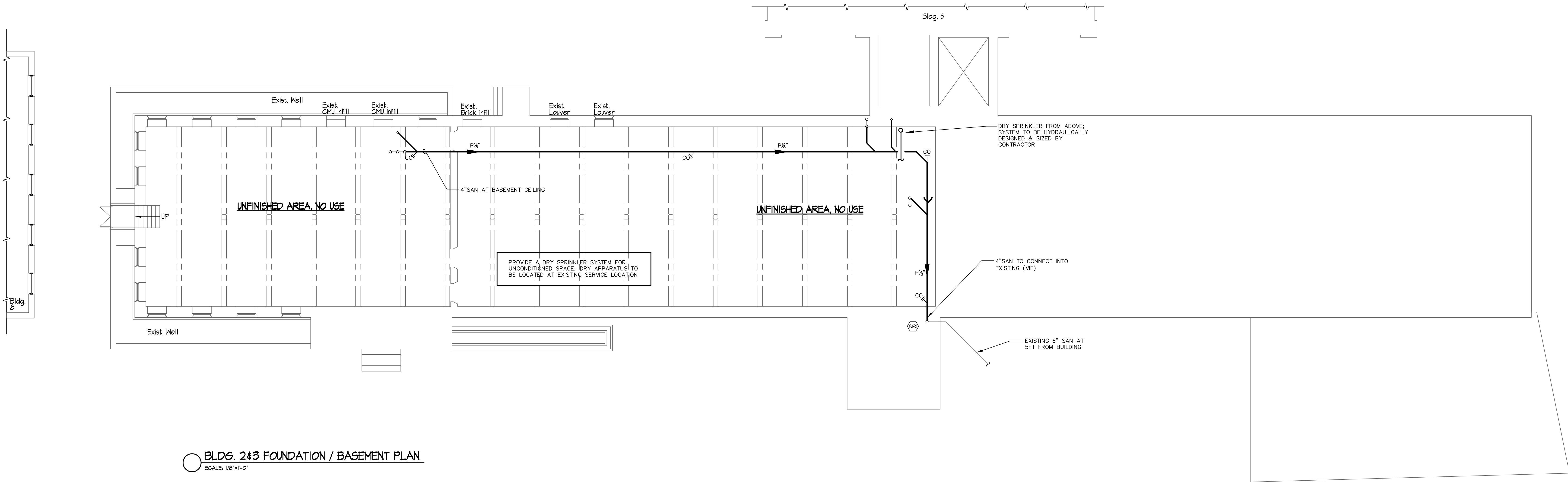
• ———	COLD WATER PIPE (CW)
• ———	HOT WATER PIPE (HW) (110°F)
• ———	HOT WATER REDCIRCULATION PIPE (HWR) (110°F)
• ———	HOT WATER PIPE (140°F)
• ———	HOT WATER CIRCULATION PIPE (140°F)
• — S —	SANITARY PIPE (BROKEN LINE IS BELOW FLOOR)
• — ST —	STORM PIPE
• — EMST —	EMERGENCY STORM PIPE
• — V —	VENT PIPE (V)
• — CD —	CONDENSATE / DRY PIPE
• ———	DIRECTION OF FLOW
• WCO	WALL CLEANDOUT
• —	CHECK VALVE
• W.S.	WASTE STACK
• V.S.	VENT STACK
• S.S.	SOIL STACK
• V.T.R.	VENT THROUGH ROOF
• —	GATE VALVE
• —	BALL VALVE
• — G —	GAS PIPE
• —	GAS SHUT OFF
• —	BACKFLOW PREVENTER
• —	PRESSURE REDUCING VALVE
• —	BALANCING VALVE
• H.B. —	HOSE BIBB (NON-FREEZE WHEN INDICATED)
• F.D. —	FLOOR DRAIN
• FCO —	FLOOR CLEANDOUT
• FGGC —	FINISH GRADE CLEANDOUT
• (VF)	VERIFY IN FIELD

PLUMBING NOTES

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



BLDG. 2&3 FOUNDATION / BASEMENT PLAN
SCALE: 1/8"=1'-0"

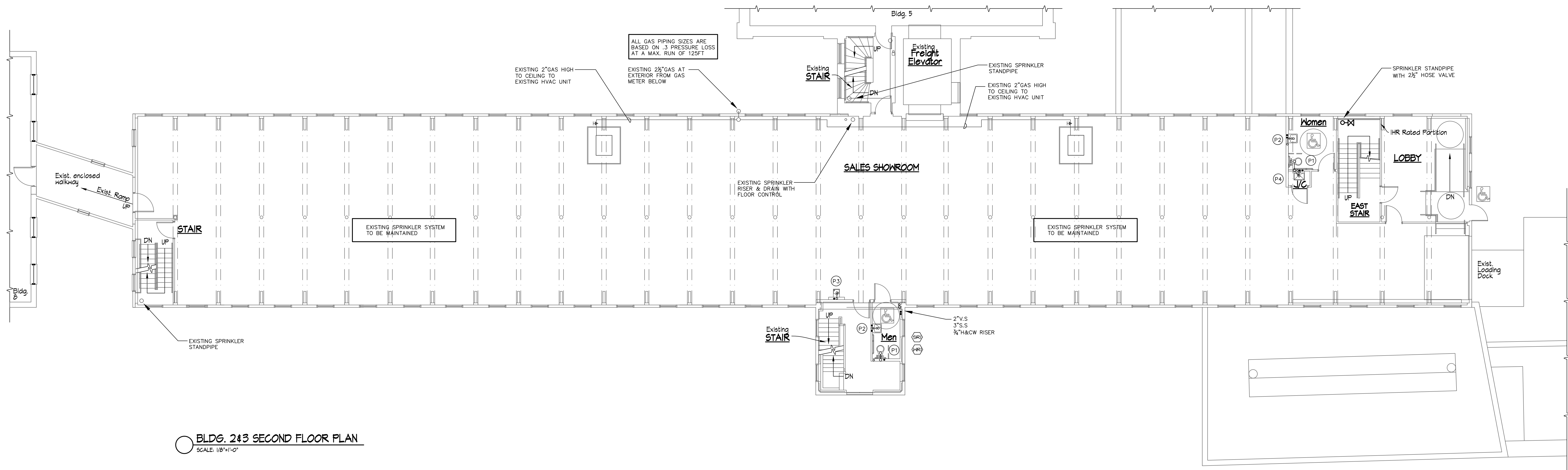
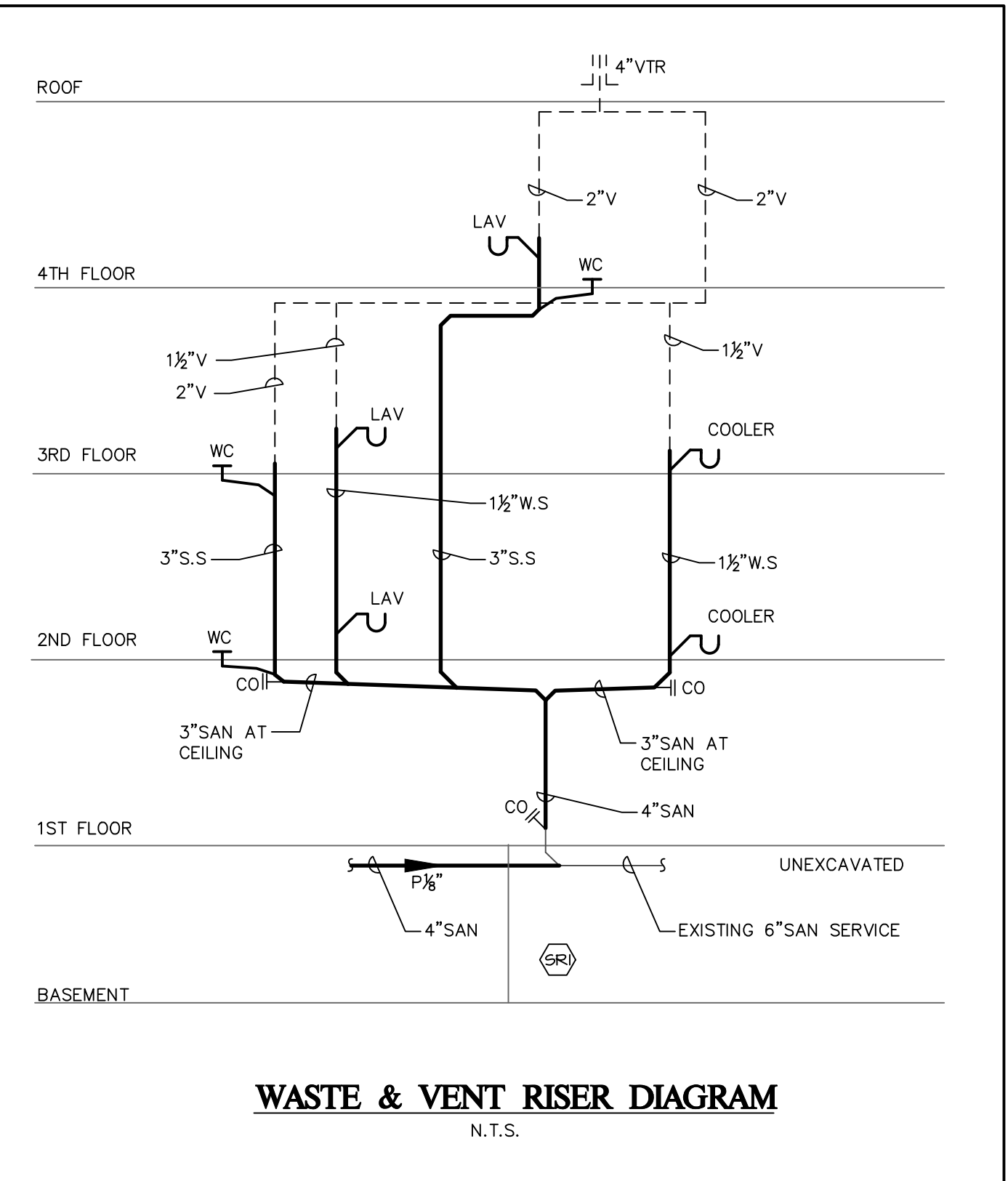
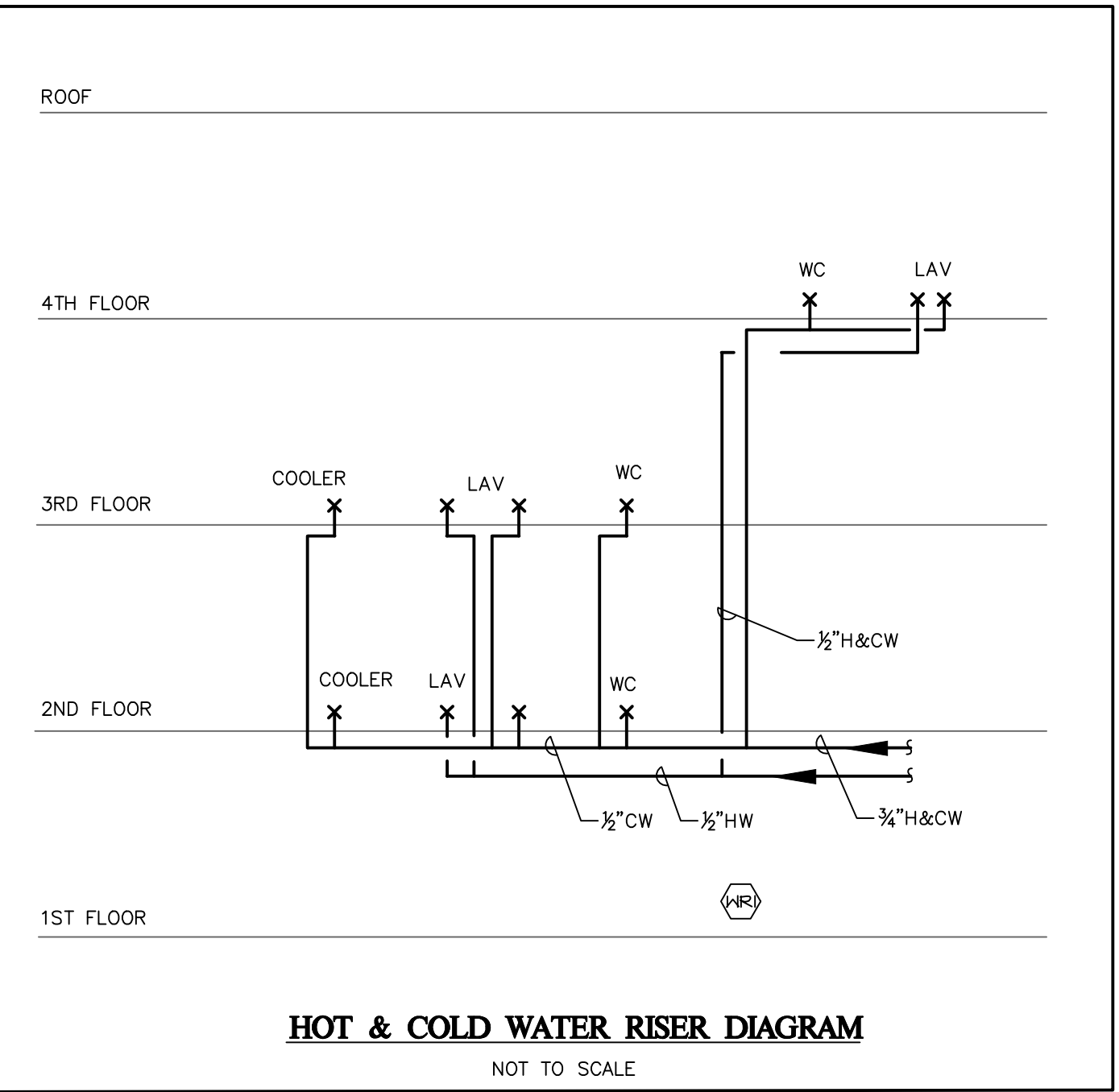
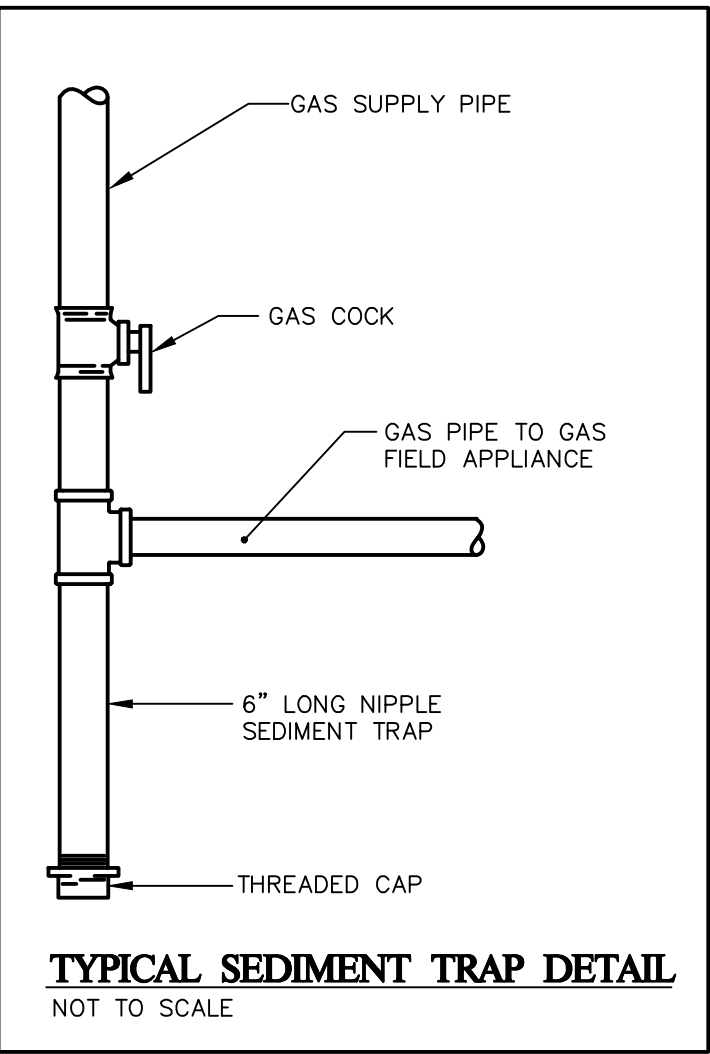
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Date:	May 9, 2017
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BASEMENT
FLOOR PLAN -
FIRE PROTECTION
& PLUMBING

FP-1.1



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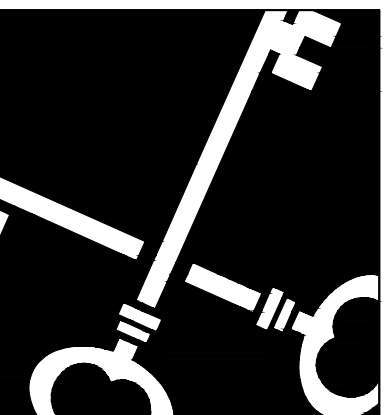
Drawn: RJM
Date: May 9, 2017
Revisions:

SECOND FLOOR PLAN - FIRE PROTECTION & PLUMBING

FP-1.3

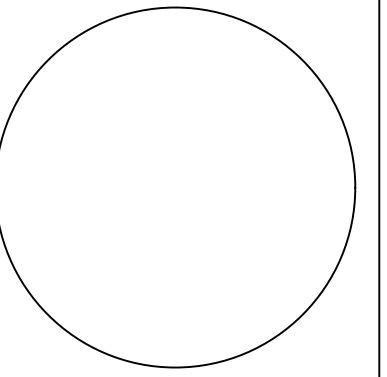
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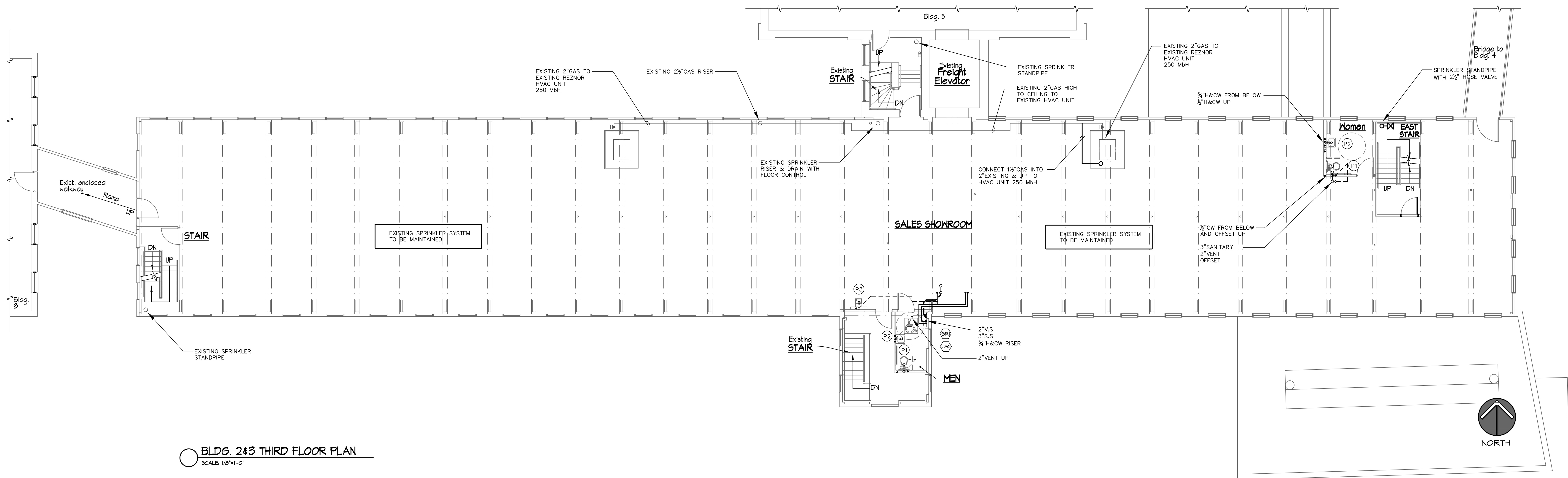
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THIRD FLOOR
PLAN - FIRE
PROTECTION &
PLUMBING

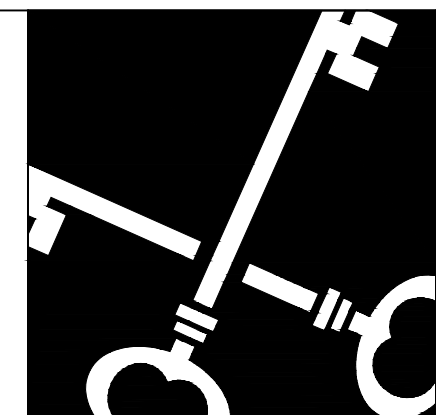
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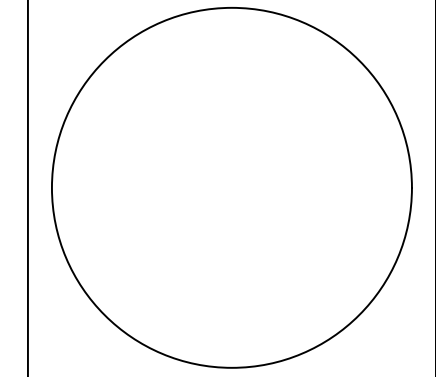
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BLDG. 2+3 THIRD FLOOR PLAN
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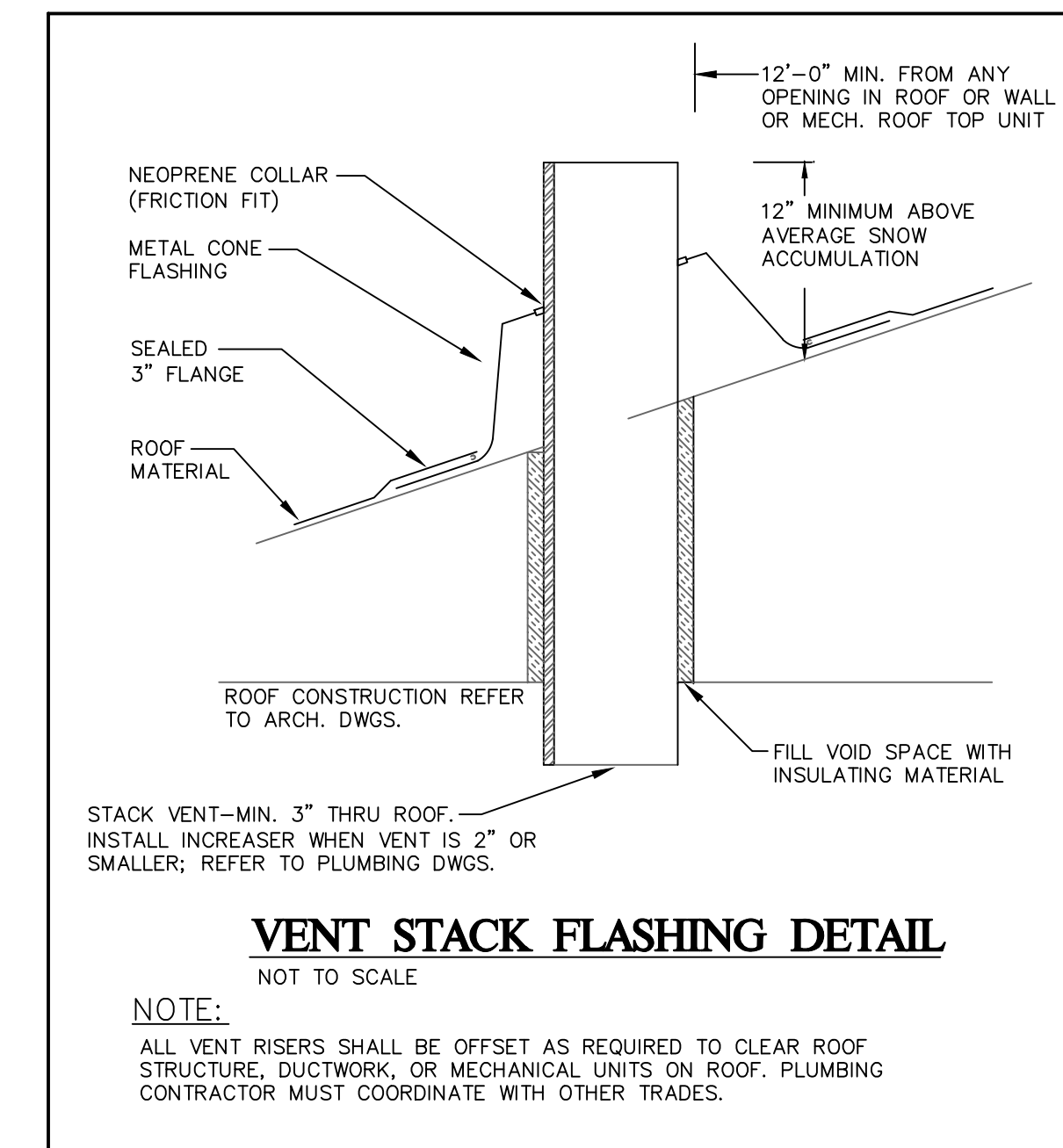
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FOURTH FLOOR
PLAN - FIRE
PROTECTION &
PLUMBING

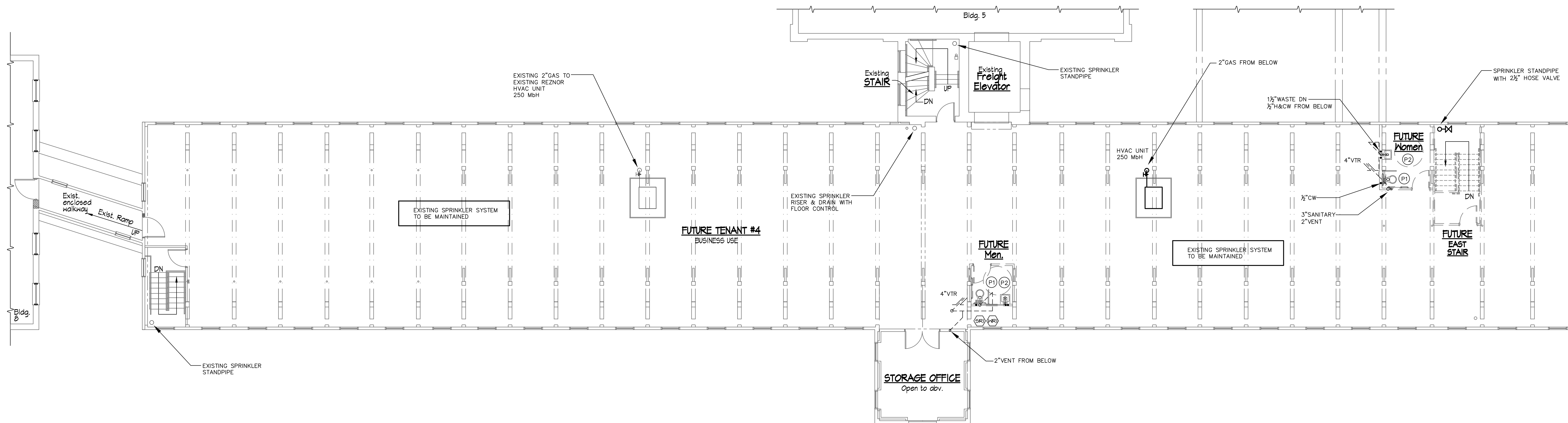
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NOTE:

ALL VENT RISERS SHALL BE OFFSET AS REQUIRED TO CLEAR ROOF STRUCTURE, DUCTWORK, OR MECHANICAL UNITS ON ROOF. PLUMBING CONTRACTOR MUST COORDINATE WITH OTHER TRADES.



BLDG. 2#3 FOURTH FLOOR PLAN
SCALE: 1/8\"/>



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 INCLUDED

- A. 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.
- 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 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

- A. 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 HANDLING

- A. 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 1/8" to the foot (1/8" 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 1/8" or 1/2" bends or combination Y- and 1/8" bends shall be used where possible.
- C. Sanitary long sweep bends and Y'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 required by the Plumbing Code.
- B. Cleanouts shall have raised heads and shall be located and installed so that they may be readily accessible and removable for cleaning lines.

1.04 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

- 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 service.

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.

1.07 UNIONS

- 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:
1. Ball Valves, 1/2" – 4" – WATTS B6000 Series.
 2. Gate Valves, 1/2" – 4" – WATTS GV Series.
 3. Globe Valves, 1/2" – 2" – WATTS GLV Series.
 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 from 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.
- 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 threads.

1.10 PIPE SLEEVES AND RECESSES

- 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 sieve 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, 3/4" 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, 1/2" thick, with factory applied vapor barrier jacket, as manufactured by Armstrong Corporation, Johns-Manville, or approved thermal equal.

1.13 PLUMBING FIXTURES – GENERAL REQUIREMENTS

- 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.
- 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 quality.

1.14 INSTALLATION

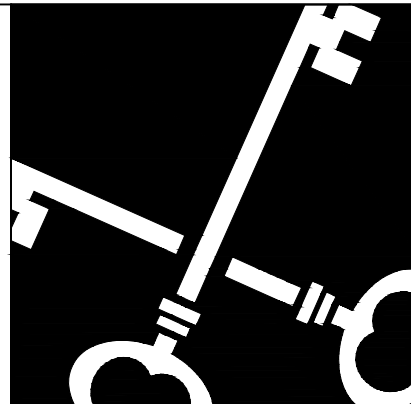
- A. Plumbing contractor shall furnish, set, seal and connect all fixtures and accessories shown and specified, including all necessary supports, connections, fittings and parts required to fully complete the plumbing installation.

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.

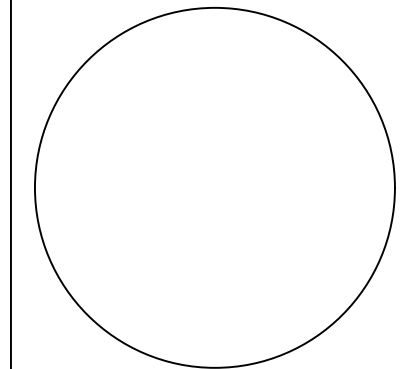
1.16 TESTING AND START-UP

- 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.



**Crosskey
Architects**
LLC

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



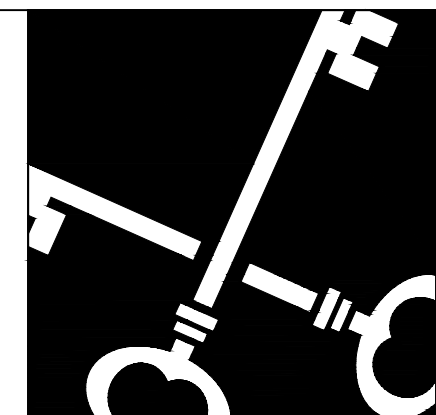
Hockanum Mill
200 West Main Street, Rockville, CT

Kaplan Mill Works, LLC

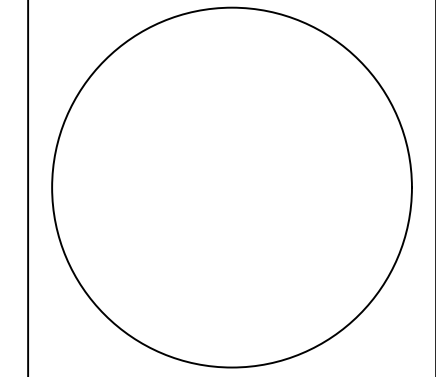
Drawn:	RJM
Date:	May 9, 2017
Revisions	

SPECIFICATION -
FIRE PROTECTION
& PLUMBING

FP-2.1



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



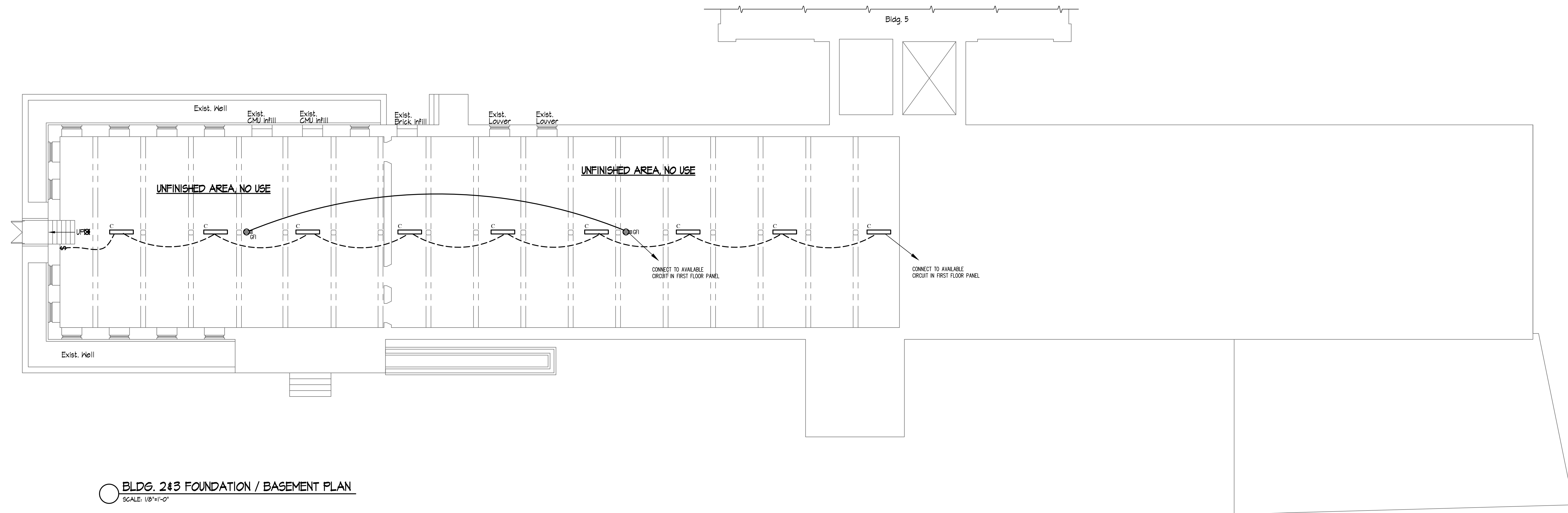
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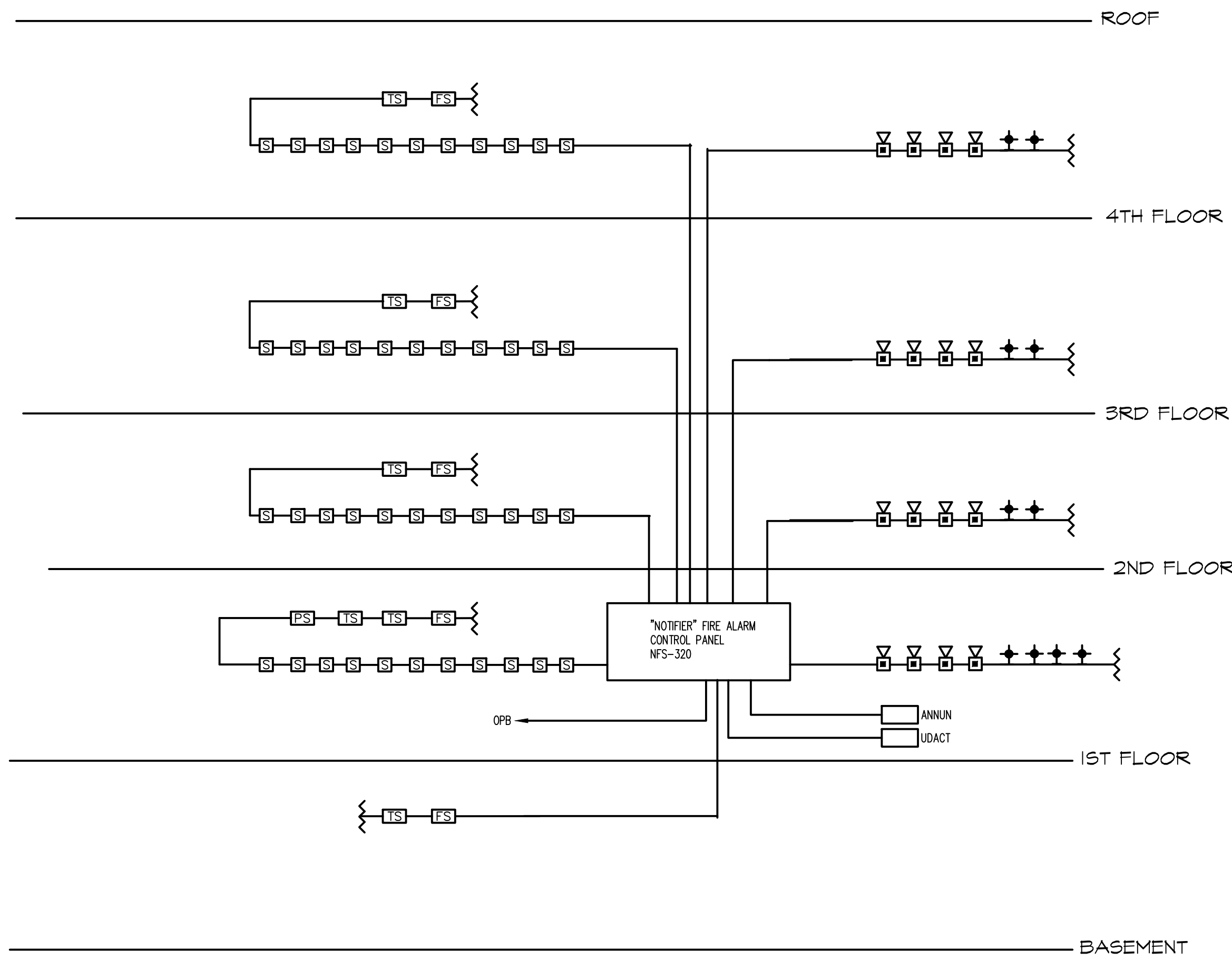
Drawn:	SES
Date:	May 9, 2017
Revisions	
1	FM COMMENTS 8-4-17

BASEMENT
FLOOR PLAN

E-1.1

 **acorn**
Consulting Engineers Inc.
- Mechanical - Electrical Engineering for Building Systems -
P.O. Box 311 Farm Village Plaza • 244 Farm Village Road
West Simsbury, CT 06092 • (860) 651-1949 • fax (860) 651-1957
www.acornengineers.com





FIRE ALARM SYSTEM NOTES:

PROVIDE ONE HEAT DETECTOR FOR EACH SPRINKLER HEAD IN ELEVATOR MACHINE ROOMS. COORDINATE EXACT NUMBER OF HEADS WITH SPRINKLER CONTRACTOR. LOCATE HEAT DETECTORS WITHIN 2 FEET OF SPRINKLER HEAD AND CONNECT INTO SHUNT-TRIP POWER SYSTEM.

PROVIDE ALL POWER PACKS, MODULES AND ACCESSORIES AS REQUIRED PER MANUFACTURERS REQUIREMENTS FOR COMPLETE OPERATIONAL SYSTEM.

PROVIDE SMOKE DETECTOR IN CEILING ABOVE LOCATION OF FIRE ALARM CONTROL PANEL.

PROVIDE TWO (2) DEDICATED PHONE LINES AND REMOTE DIALER FOR FAC.

PROVIDE REMOTE ANNUNCIATOR FOR FAC; COORDINATE EXACT LOCATION OF ANNUNCIATOR IN FIELD.

LIGHTING FIXTURE SCHEDULE

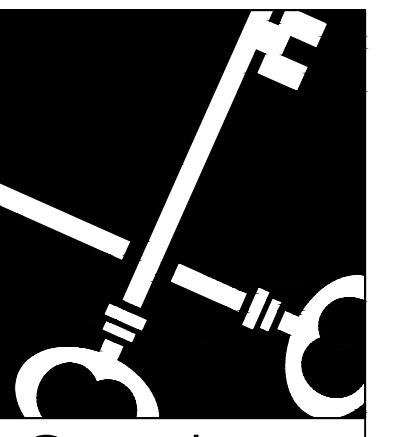
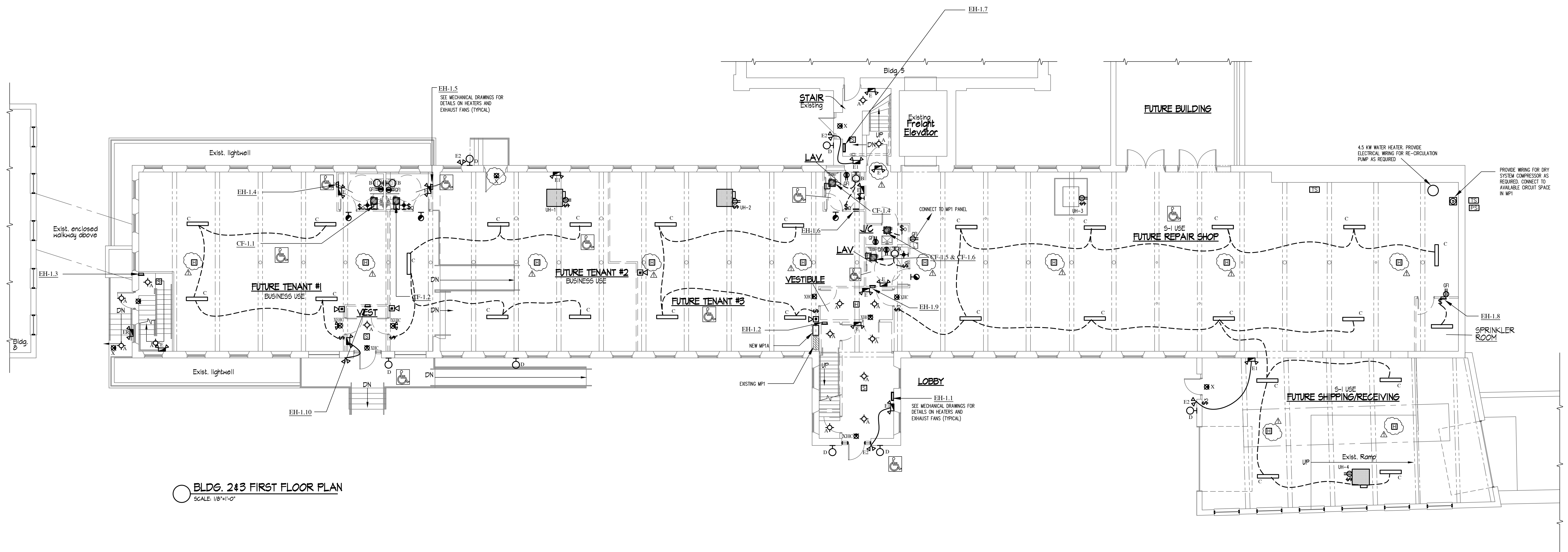
TYPE	MFG.	CATALOG #	DESCRIPTION	LAMPS	VOLTAGE
A	ANP	CAT# W516 021LD N W 35K RTC BLC FINISH	WAREHOUSE SHADE - CEILING MOUNT	18 WATT LED	120
B	ANP	CAT# WM 1926 M009LDN N 35K FINISH	WAREHOUSE SHADE - 12" WALL MOUNT (VANITY)	18 WATT LED	120
C	DAYBRITE	CAT# T2 32 UNV 1/2EB	4' 2 LIGHT T-8 FLUORESCENT TEMP LIGHT	2-TB 32 WATT LAMPS	120
D	ANP	CAT# W514M013LD 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
X	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 S1	COMBINATION EXIT AND EMERGENCY LIGHT	INC	120
				INC	120

PROJECT NO:	17047	PANEL:	MP1A	DATE:	5/9/17
LOCATION:	4TH FLOOR	MOUNTING:	SURFACE	FEED:	TOP
VOLTAGE:	120/ 208	SOURCE:	MDP	BUS AMP:	100
WIRE:	4	COND:	1 1/4"	BRKR:	MLO
PHASE:	3	WIRE:	#2 AWG	GROUND:	#6 AWG

CKT	LOAD DESCRIPTION	WATTS	CB AMP	CB	WATTS	LOAD DESCRIPTION	CKT
1	EH1.1	2400	2P-20	A	2000	EH1.7	2
3		2400		B	2000		4
5	EH1.2	750	2P-20	C	20	EH1.8	6
7		750		A	20		8
9	EH4.3	750	2P-20	B	20	EH1.9	10
11		750		C	20		12
13	EH1.4	750	2P-20	A	20	EH1.10	14
15		750		B	20		16
17	EH1.5	750	2P-20	C	20	UH-1	18
19		750		A	20	UH-1	20
21	EH1.6	750	2P-20	B	20	UH-3	22
23		750		C	20	UH-4	24
25	WATER HEATER	2250	2P-20	A	20		26
27		2250		B	20		28
29			20	C	20		30
TOTAL WATTS/PH:		A= 11265	B= 11015	C= 5980	TOTAL WATTS: 28260		TOTAL AMPS: 78.4

NOTES:

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



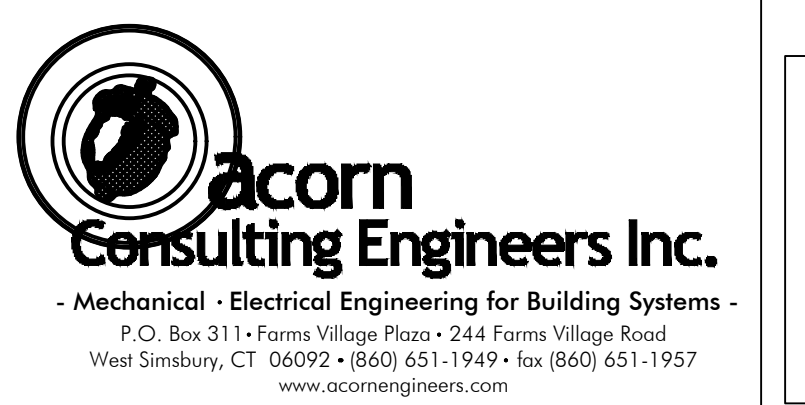
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One Union Place, Hartford, CT 06103
T: (860) 724-3000 F: (860) 724-3013

Hockanum Mill
200 West Main Street, Rockville, CT
Kaplan Mill Works, LLC

Drawn: SES
Date: May 9, 2017
Revisions
FM COMMENTS 8-4-17

FIRST FLOOR
PLAN

E-1.2



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ELECTRIC SYMBOL LIST	
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTERTOP
	TYPICAL LIGHTING FIXTURES (see schedule)
	TYPICAL LIGHTING FIXTURES WITH BATTERY BACKUP (see schedule)
	SINGLE POLE WALL SWITCH
	WALL SWITCH; 3 DENOTES THREE WAY; 4 DENOTES FOUR WAY
	SWITCH WITH THERMAL OVERLOAD
	WIRE CONCEALED IN WALLS OR CEILING
	SWITCHED CIRCUIT
	HOMERUN TO SERVICE PANEL; NUMBER OF WIRES INDICATED
	EXIT SIGN WITH BATTERY BACKUP (see schedule)
	CALL-FOR-AID DOME LIGHT
	CALL-FOR-AID PULL STATION
	CIRCUIT BREAKER PANEL BOARD - VOLTAGE NOTED
	EMERGENCY LIGHT WITH BATTERY PACK
	DISCONNECT SWITCH
	JUNCTION BOX
	REMOTE EMERGENCY HEAD
	GROUND FAULT CIRCUIT INTERRUPTER
	WEATHERPROOF

ELECTRICAL POWER NOTES:

- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- 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/E.C. IF ANY DISCREPANCIES OR DISCREPANCIES ARE NOTED. DO NOT PROCEED WITHOUT ARCHITECTURAL APPROVAL.
- 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.
- 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.
- 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.
- ELECTRICAL OUTLET PLATE GASKETS SHALL BE INSTALLED IN ALL RECEPTACLES, SWITCHES OR OTHER ELECTRICAL BOXES IN WALLS SEPARATING CONDITIONED AND UNCONDITIONED SPACE.
- 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.
- MANUAL FIRE ALARM PULL BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT.
- 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.
- THE MINIMUM MOUNTING HEIGHT OF THE COMBINATION HORN/STROBES SHALL BE 80 INCHES AFF TO THE BOTTOM AND MINIMUM OF 8 INCHES BELOW THE FINISHED CEILING TO THE TOP.
- 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.
- CONNECT ALL BATHROOM EXHAUST FANS TO ASSOCIATED LIGHT SWITCH UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO HVAC CONTROL WIRING; COORDINATE ALL REQUIREMENTS WITH DIV 15.
- ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED.
- HEIGHT OF UNIT PANELS IN HC AND HC ADAPTABLE UNITS SHALL BE 48" AFF TO HIGHEST BREAKER.
- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF PLUGS AND LIGHTS IN BATHROOMS.

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.
- 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.
- ALL LIGHT FIXTURES IN CEILING SHALL BE BRACED TO THE BUILDING STRUCTURE AND NOT TO THE CEILING.
- EMERGENCY LIGHTING UNITS AND EMERGENCY BALLASTS SHALL BE WIRED INTO ASSOCIATED LIGHTING CIRCUITS AHEAD OF ANY SWITCHED LEISS FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING.
- COORDINATE LOCATIONS AND DIRECTIONAL ARROWS OF ALL EXIT SIGNS WITH ARCHITECTURAL EGRESS PLAN.
- PROVIDE HOUSING FOR LIGHTING FIXTURE WHERE REQUIRED; COORDINATE WITH ARCHITECTURAL PLANS.
- 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:

- WHERE NEW CIRCUITS ARE TO BE 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.
- ALL NEW CIRCUITRY SHALL BE COMPLETE WITH REQUIRED BRANCH CIRCUIT PROTECTION AND GROUNDING CONNECTIONS.
- 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 AUTHORITY.
- 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 WATCHES.
- EXISTING SYSTEMS AFFECTED BY NEW WORK SHALL BE TESTED COMPLETELY FOR INTEGRITY AND PROPER OPERATION. RE-TESTED CIRCUITS UP-STREAM AND DOWN-STREAM OF DEVICES BEING REMOVED.
- 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 SIGNED. NO EXTRA CHARGES WILL BE ALLOWED.
- THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENTS, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES TO BE SELECTED BY THE ARCHITECT.
- 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.
- 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.
- ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED.
- E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.
- ALL CONDUIT AND WIRING SHALL BE TYPE THIN OR THIN UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER THAN #6 AWG, TYPE XHHW WILL BE ACCEPTED.
- 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 STRANDED, SHIELDED.
- ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED.
- 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.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.

PROJECT NO:	17047	PANEL:	MDPA	DATE:	5/8/17
LOCATION:	2ND FLOOR	MOUNTING:	SURFACE	FEED:	TOP
VOLTAGE:	120/ 208	SOURCE:	MDPA	BUS AMP:	100
WIRE:	4	COND:	1 1/4"	BRKR:	MLO
PHASE:	3	WIRE:	#2 AWG	GROUND:	#6 AWG

CKT	LOAD DESCRIPTION	WATTS	CB AMP	CB AMP	WATTS	LOAD DESCRIPTION	CKT	
1	EH2.1	750	2P-20	A	750	EH2-5	2	
3		750		B			4	
5	EH2.2	1000	2P-20	C	2P-20	1000	EH2-6	6
7		1000		A		1000		8
9	EH2.3	1000	2P-20	B	2P-20	2000	EH2-7	10
11		1000		C		2000		12
13	EH2.4	2000	2P-20	A	20	960	UH-1	14
15		2000		B	20	960	UH-2	16
17	REST ROOM RECEPT	360	20	C	20			18
19			20	A	20			20
21			20	B	20			22
23			20	C	20			24
25			20	A	20			26
27			20	B	20			28
29			20	C	20			30

TOTAL WATTS/PH:	A= 6460	B= 7460	C= 5360	TOTAL WATTS: 19280
				TOTAL AMPS: 53.5

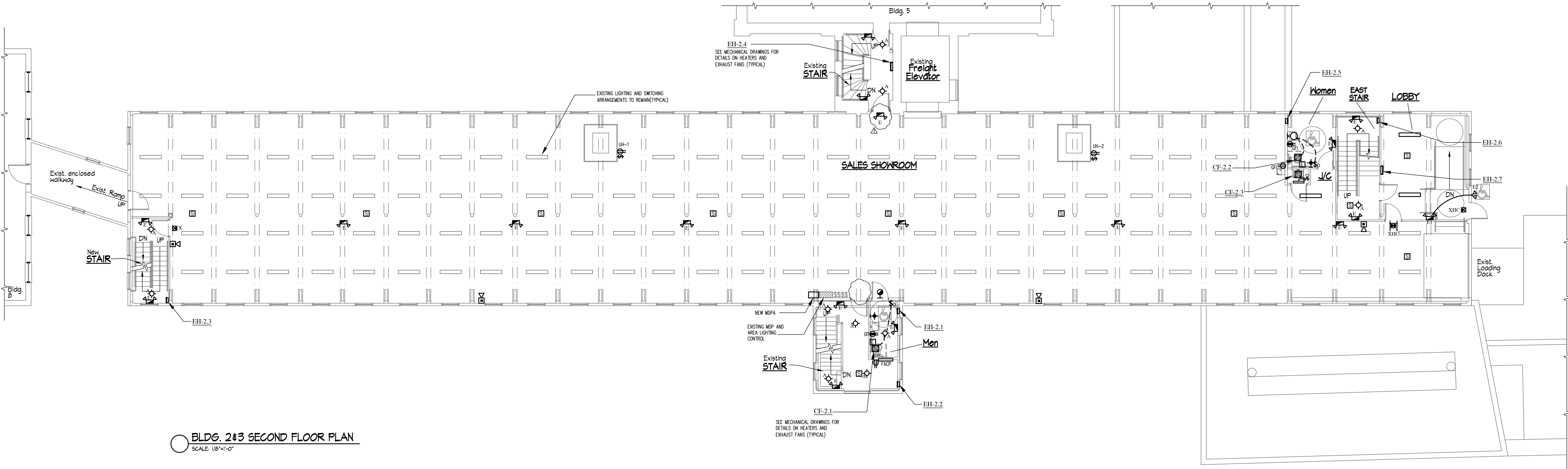
NOTES:

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

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

3. PROVIDE FULL COPPER BUSSING.

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



BLDG. 2#3 SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

ELECTRIC SYMBOL LIST	
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTERTOP
	TYPICAL LIGHTING FIXTURES (see schedule)
	TYPICAL LIGHTING FIXTURES WITH BATTERY BACKUP (see schedule)
	SINGLE POLE WALL SWITCH
	WALL SWITCH; 3 DENOTES THREE WAY; 4 DENOTES FOUR WAY
	SWITCH WITH THERMAL OVERLOAD
	WIRE CONCEALED IN WALLS OR CEILING
	SWITCHED CIRCUIT
	HOMERUN TO SERVICE PANEL; NUMBER OF WIRES INDICATED
	EXIT SIGN WITH BATTERY BACKUP (see schedule)
	CALL-FOR-AID DOME LIGHT
	CALL-FOR-AID PULL STATION
	CIRCUIT BREAKER PANEL BOARD - VOLTAGE NOTED
	EMERGENCY LIGHT WITH BATTERY PACK
	DISCONNECT SWITCH
	JUNCTION BOX
	REMOTE EMERGENCY HEAD
	GROUND FAULT CIRCUIT INTERRUPTER
	WEATHERPROOF

ELECTRICAL POWER NOTES:

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- 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.
- 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.
- ELECTRICAL OUTLET PLATE GASKETS SHALL BE INSTALLED IN ALL RECEPTACLES, SWITCHES OR OTHER ELECTRICAL BOXES IN WALLS SEPARATING CONDITIONED AND UNCONDITIONED SPACE.
- 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.
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- 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.
- THE MINIMUM MOUNTING HEIGHT OF THE COMBINATION HORN/STROBES SHALL BE 80 INCHES AFF TO THE BOTTOM AND MINIMUM OF 5 INCHES BELOW THE FINISHED CEILING TO THE TOP.
- 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.
- CONNECT ALL BATHROOM EXHAUST FANS TO ASSOCIATED LIGHT SWITCH UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO HVAC CONTROL WIRING; COORDINATE ALL REQUIREMENTS WITH OH 15
- ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED
- HEIGHT OF UNIT PANELS IN HC AND HC ADAPTABLE UNITS SHALL BE 48" AFF TO HIGHEST BREAKER.
- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF PLUGS AND LIGHTS IN BATHROOMS.

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 CEILING.
- EMERGENCY LIGHTING UNITS AND EMERGENCY BALLASTS SHALL BE WIRED INTO ASSOCIATED LIGHTING CIRCUITS AHEAD OF ANY SWITCHED LEADS FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING.
- COORDINATE LOCATIONS AND DIRECTIONAL ARROWS OF ALL EXIT SIGNS WITH ARCHITECTURAL EGRESS PLAN.
- PROVIDE HC HOUSING FOR LIGHTING FIXTURE WHERE REQUIRED; COORDINATE WITH ARCHITECTURAL PLANS.
- 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:

- WHERE NEW CIRCUITS ARE TO BE 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.
- ALL NEW CIRCUITRY SHALL BE COMPLETE WITH REQUIRED BRANCH CIRCUIT PROTECTION AND GROUNDING CONNECTIONS.
- 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 AUTHORITY.
- 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 WATCHES.
- EXISTING SYSTEMS AFFECTED BY NEW WORK SHALL BE TESTED COMPLETELY FOR INTEGRITY AND PROPER OPERATION. RE-TESTED CIRCUITS UP-STREAM AND DOWN-STREAM OF DEVICES BEING REMOVED.
- 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:

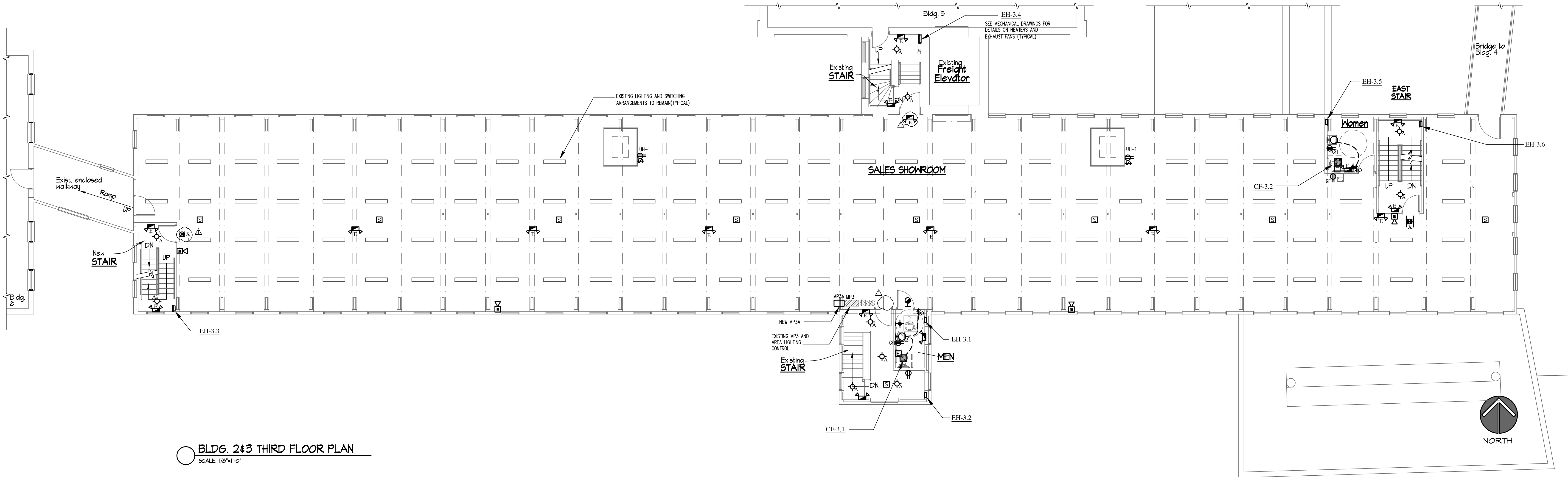
- ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE BUILDING CODES.
- E.C. SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL INSPECTION AND OBTAIN A CERTIFICATE OF "ELECTRICAL INSPECTION". THIS CERTIFICATE SHALL BE PRESENTED WITH REQUEST FOR FINAL 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 SIGNED. NO EXTRA CHARGES WILL BE ALLOWED.
- THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENTS, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES TO BE SELECTED BY THE ARCHITECT.
- 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.
- 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.
- ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED.
- E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.
- ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS OTHERWISE NOTED TO BE EXPOSED.
- ALL CONDUIT AND WIRING SHALL BE TYPE THWN OR THW UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER THAN #10 AWG, TYPE THWN WILL BE ACCEPTED.
- 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 STRANDED, SHIELDED.
- ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED.
- 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.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.

PROJECT NO:	17047	PANEL:	MP3A	DATE:	5/8/17
LOCATION:	2ND FLOOR	MOUNTING:	SURFACE	FEED:	TOP
VOLTAGE:	120/ 208	SOURCE:	MDPA	BUS AMP:	100
WIRE:	4	COND:	1 1/4"	BRKR:	MLO
PHASE:	3	WIRE:	#2 AWG	GROUND:	#6 AWG

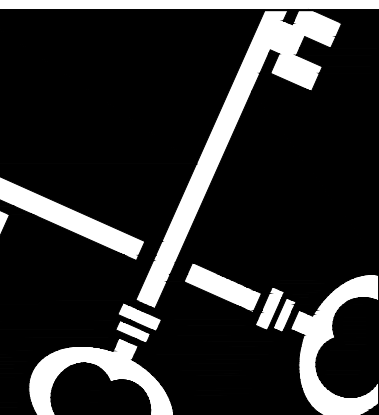
CKT	LOAD DESCRIPTION	WATTS	CB AMP	CB	WATTS	LOAD DESCRIPTION	CKT
1	EH3.1	750	2P-20	A	750	EH3-5	2
3		750		B			4
5	EH3.2	1000	2P-20	C	1000	EH3-6	6
7		1000		A			8
9	EH3.3	1000	2P-20	B			10
11		1000		C			12
13	EH3.4	2000	2P-20	A	960	UH-1	14
15		2000		B	960	UH-2	16
17			20	C	20		18
19			20	A	20		20
21			20	B	20		22
23			20	C	20		24
25			20	A	20		26
27			20	B	20		28
29			20	C	20		30

TOTAL WATTS/PH: A= 6460 B= 5460 C= 3000 TOTAL WATTS: 14920 TOTAL AMPS: 41.4

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

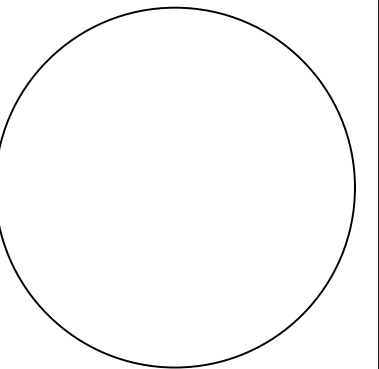


BLDG. 2#3 THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"



Crosskey
Architects
LLC

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



Hockanum Mill
200 West Main Street, Rockville, CT

Kaplan Mill Works, LLC

Drawn: SES
Date: May 9, 2017
Revisions
FM COMMENTS 8-4-17

THIRD FLOOR
PLAN

E-1.4

ELECTRIC SYMBOL LIST	
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTERTOP
	TYPICAL LIGHTING FIXTURES (see schedule)
	TYPICAL LIGHTING FIXTURES WITH BATTERY BACKUP (see schedule)
	SINGLE POLE WALL SWITCH
	WALL SWITCH; 3 DENOTES THREE WAY; 4 DENOTES FOUR WAY
	SWITCH WITH THERMAL OVERLOAD
	WIRE CONCEALED IN WALLS OR CEILING
	SWITCHED CIRCUIT
	HOMERUN TO SERVICE PANEL; NUMBER OF WIRES INDICATED
	EXIT SIGN WITH BATTERY BACKUP (see schedule)
	CALL-FOR-AID DOME LIGHT
	CALL-FOR-AID PULL STATION
	CIRCUIT BREAKER PANEL BOARD - VOLTAGE NOTED
	EMERGENCY LIGHT WITH BATTERY PACK
	DISCONNECT SWITCH
	JUNCTION BOX
	REMOTE EMERGENCY HEAD
	GROUND FAULT CIRCUIT INTERRUPTER
	WEATHERPROOF

- ELECTRICAL POWER NOTES:**
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
 - 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/EC OF ANY DISCREPANCIES IF DISCREPANCIES ARE NOTED. DO NOT PROCEED WITHOUT ARCHITECTURAL APPROVAL.
 - 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.
 - 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.
 - E.C. SHALL SUPPLY AND INSTALL FEEDERS, FUSES AND CIRCUIT BREAKERS TO MATCH THE NAME-PLATE RATINGS OF ALL EQUIPMENT. THIS SHALL BE INCLUDED IN THE INITIAL BID PROPOSAL AND NO EXTRAS WILL BE ACCEPTED.
 - ELECTRICAL OUTLET PLATE GASKETS SHALL BE INSTALLED IN ALL RECEPTACLES, SWITCHES OR OTHER ELECTRICAL BOXES IN WALLS SEPARATING CONDITIONED AND UNCONDITIONED SPACE.
 - 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.
 - MANUAL FIRE ALARM PULL BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT.
 - 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.
 - 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.
 - 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.
 - CONNECT ALL BATHROOM EXHAUST FANS TO ASSOCIATED LIGHT SWITCH UNLESS OTHERWISE NOTED.
 - ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO HVAC CONTROL WIRING, COORDINATE ALL REQUIREMENTS WITH DVI 15.
 - ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED.
 - HEIGHT OF UNIT PANELS IN HC AND HC ADAPTABLE UNITS SHALL BE 48" AFF TO HIGHEST BREAKER.
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- 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.
- 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.

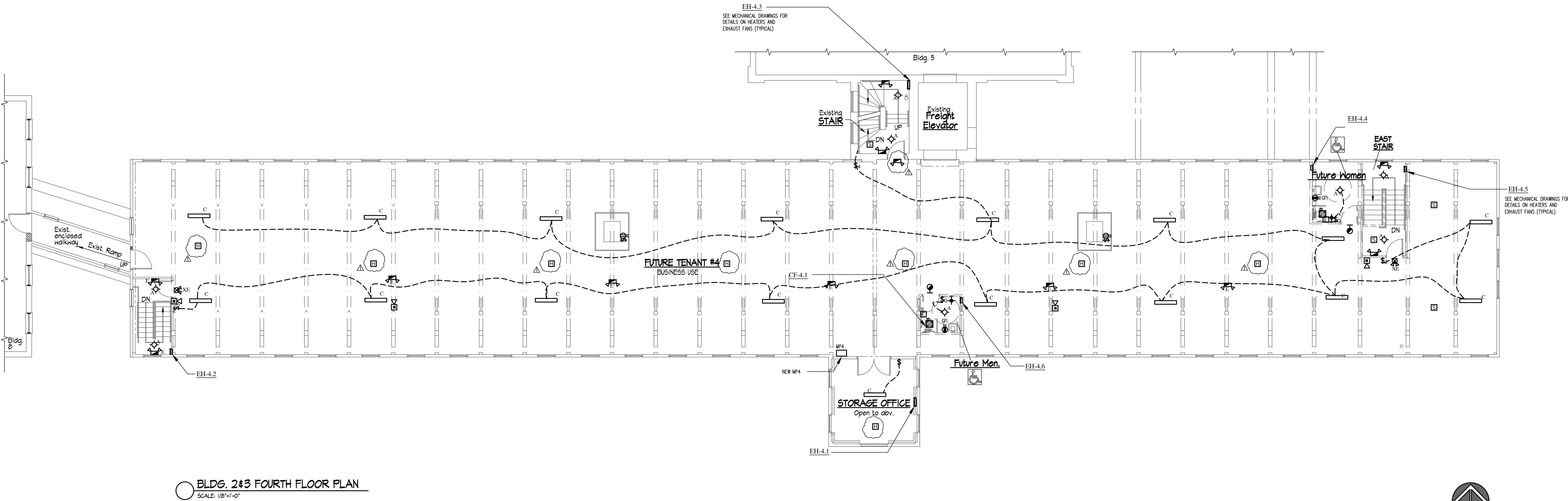
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 - THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.
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 - E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.
 - ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS OTHERWISE NOTED TO BE EXPOSED.
 - ALL WIRING SHALL BE TYPE THHN OR THW UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER THAN #6 AWG, TYPE XHHW WILL BE ACCEPTED.
 - 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 STRANDED, SHIELDED.
 - CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED.
 - ALL DRAWINGS ARE SCHEMATIC IN NATURE; ALL DEVICES SHALL BE INSTALLED IN ALL AREAS AND LIVING SPACES PER REQ. AND SHALL BE DIMENSIONED IN FIELD TO MEET PROPER CODES; ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION DURING BID PROCESS AND/OR ADVISED IN FIELD DURING CONSTRUCTION.
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PROJECT NO:	17047	PANEL:	MP3A	DATE:	5/8/17
LOCATION:	4TH FLOOR	MOUNTING:	SURFACE	FEED:	TOP
VOLTAGE:	120/ 208	SOURCE:	MDP	BUS AMP:	100
WIRE:	4	COND:	1 1/4"	BRKR:	MLO
PHASE:	3	WIRE:	#2 AWG	GROUND:	#6 AWG

CKT	LOAD DESCRIPTION	WATTS	CB AMP	CB AMP	WATTS	LOAD DESCRIPTION	CKT	
1	EH4.1	750	2P-20	A	2P-20	EH4-5	2	
3		750		B		750	4	
5	EH4.2	1000	2P-20	C	20	1080	LIGHTS	6
7		1000		A	20		8	
9	EH4.3	1000	2P-20	B	20		10	
11		1000		C	20		12	
13	EH4.4	2000	2P-20	A	20	960	UH-1	14
15		2000		B	20	960	UH-2	16
17			20	C	20		18	
19			20	A	20		20	
21			20	B	20		22	
23			20	C	20		24	
25			20	A	20		26	
27			20	B	20		28	
29			20	C	20		30	
TOTAL WATTS/PH:		A= 5460	B= 5460	C= 3080	TOTAL WATTS: 14000			
		TOTAL AMPS: 38.9						

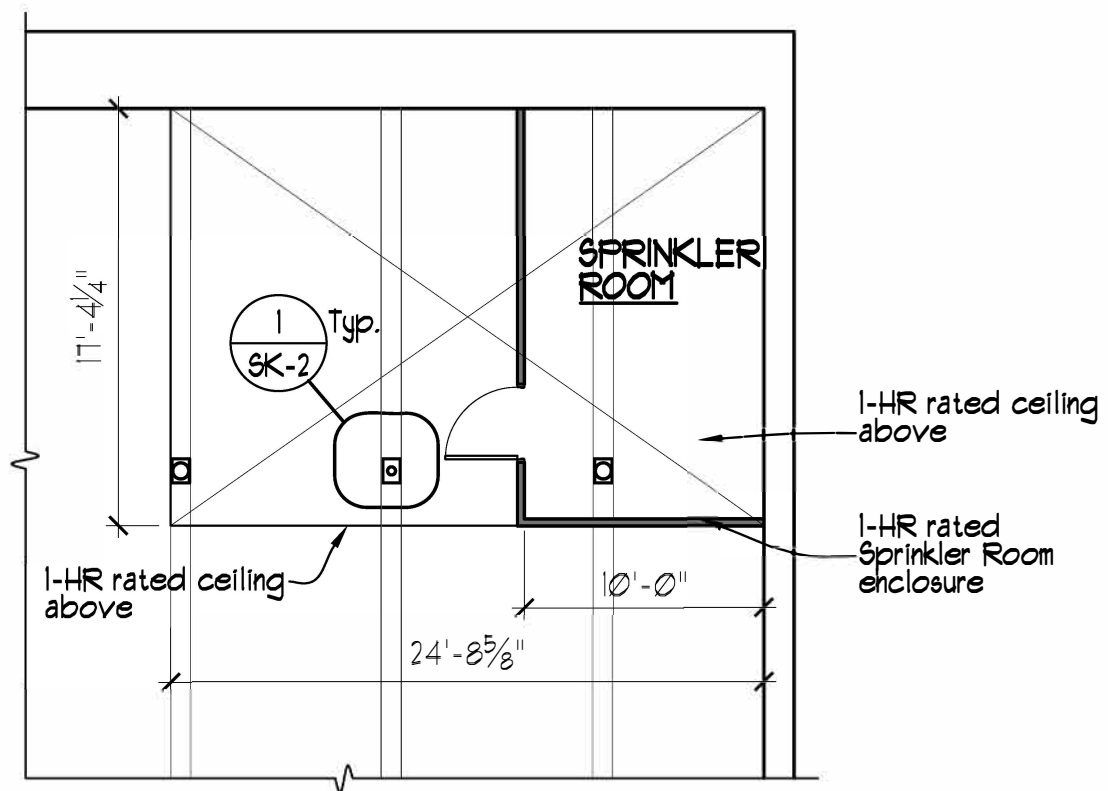
NOTES:

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



BLDG. 2#3 FOURTH FLOOR PLAN
SCALE: 1/8"=1'-0"





1 PARTIAL FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

Hockanum Mill

200 West Main Street, Rockville, CT

Use with sheet: SK-2

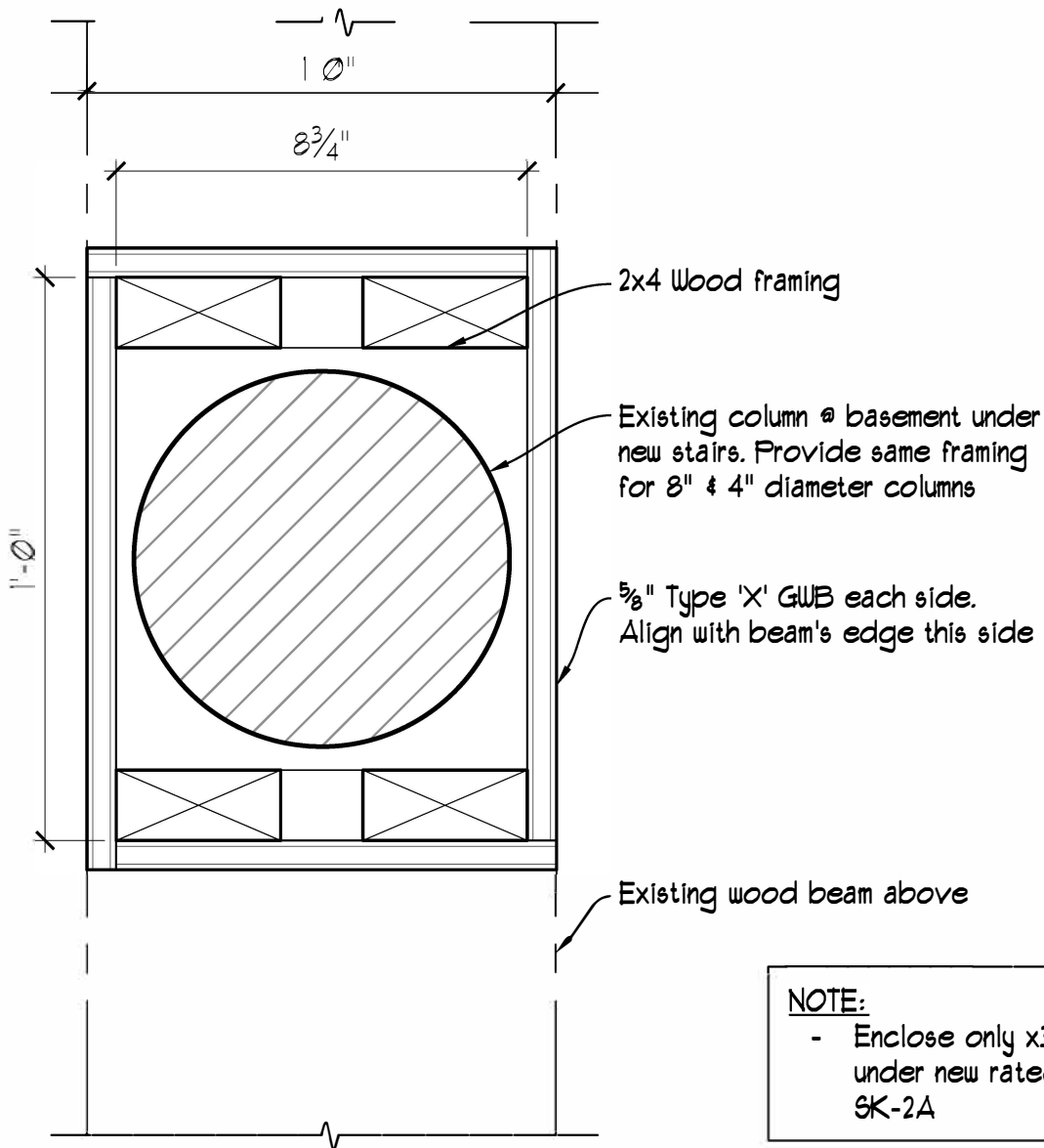
Scale: 3"=1'-0"



CrosskeyArchitects LLC
Architecture Preservation Interiors
750 Main Street, Hartford, CT 06103

T: (860)724-3000
F: (860)724-3013
Drawn: MeB
Date: 08/31/2017
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SK-2A



NOTE:

- Enclose only x3 basement columns under new rated entry. See SK-2A



RATED COLUMN ENCLOSURE DETAIL

SCALE: 3"=1'-0"

UL No. U419

Hockanum Mill

200 West Main Street, Rockville, CT

Use with sheet: SK-2A

Scale: 3"=1'-0"



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SK-2