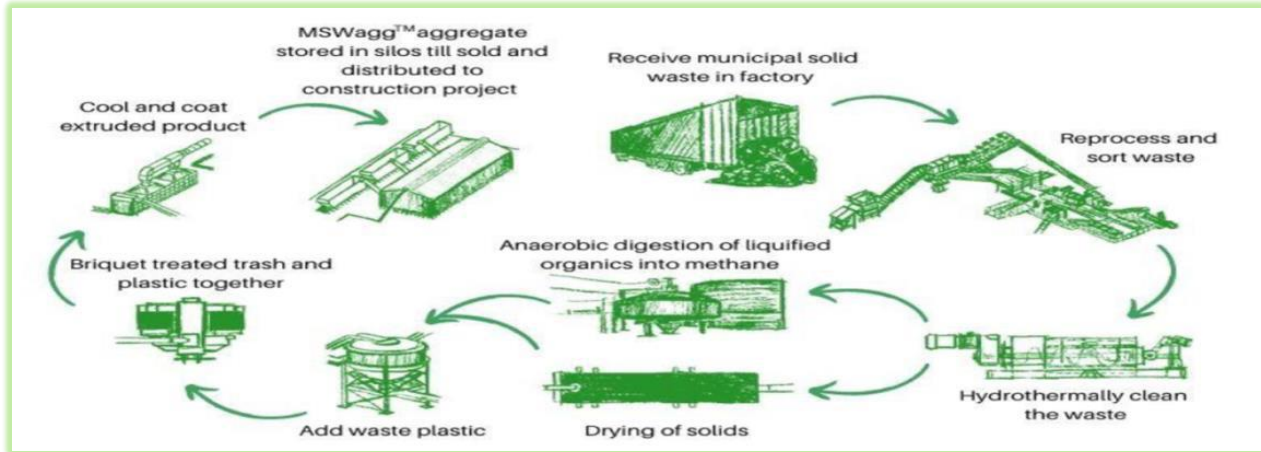


To Whom It May Concern:

This cover letter is submitted by Louis Structures LLC, the owner/operator of a recycling process, to request Initial Site Inspection at the former Kraft Cheese property located at 322 Cold Storage Road in Plymouth, Wisconsin. Our proposed solid waste processing facility design and operation are summarized in the following diagram.



Louis Structures owns a patented methodology that transforms household trash (MSW) into a manufactured aggregate called MSWagg™, suitable for replacing virgin coarse aggregate (gravel) in various construction applications. Today there are four methods to address MSW: source reduction, recycling, incineration, or landfill. Source reduction and recycling will continue to increase their contributions to the overall solution to MSW accumulation; however, MSW not addressed by those methods has historically not been cost-effective to utilize due to the organics and contamination present. According to IEA Bioenergy, landfilling waste produces approximately 154 pounds of methane per ton or a 100-yr global warming potential of 4312 pounds of CO₂/ton. We understand landfills range from 30-55% biodegradable and contribute 16% of global methane emissions annually. Our MSWagg™ process will produce an estimated 56lbs of CO₂/ton of organic matter, divert useful plastics to efficient recycling. With optimization, LS's process could potentially become a carbon-neutral process.

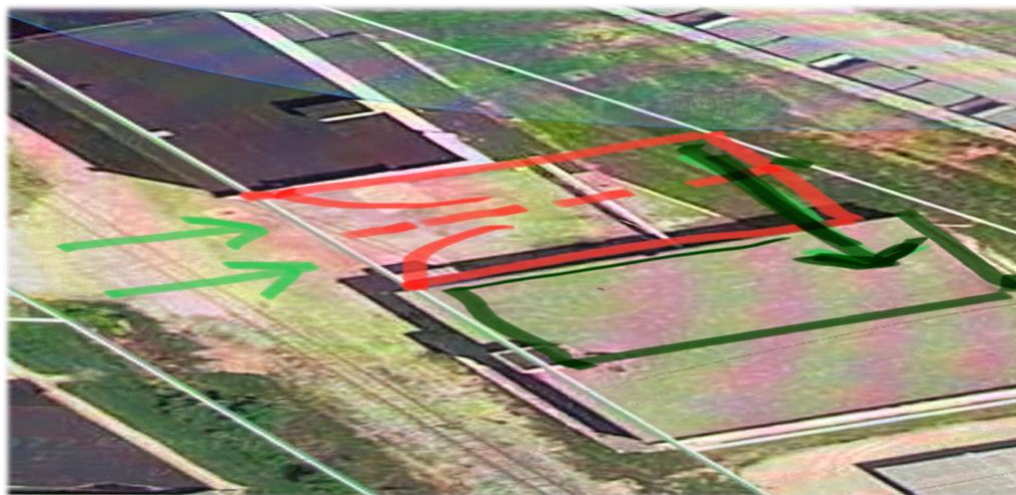
Technical feasibility: Louis Structures' technical methodology removes or sequesters all chemicals of concern and contaminants in MSW. Processing MSW into an aggregate that meets EPA and DOT standards is achieved by solubilization, suspension, dewatering, dilution, encapsulation, and sequestration. Stringent regulatory requirements are required to meet beneficial reuse acceptance of MSWagg in the construction industry. MSWagg has a shear strength of 44 degrees, and negligible long-term degradation values in dry versus in wet conditions. Louis Structures recently submitted an EPA contract application with UW-Oshkosh and Rohde Brothers /PAWL Group engineering (Plymouth, WI), which will further characterize MSWagg's process and product for uses in multiple industries.

Louis Structures has commercial potential in three areas: 1) Receiving MSW from disposal companies that would ordinarily dump the MSW in landfills. 2) Recovering recyclables from the MSW and selling them to commodities buyers. 3) Selling residual MSW converted to MSWagg™ to construction and road contractors as an environmentally friendly alternative to virgin aggregate.

Glacier Storage, current owners of 322 Cold Storage Road property with buildings A & B have agreed that their facility could be a site suitable to demonstrate our process at a pilot scale, using material from area industrial waste producers and potentially house a longer-term larger processing program for area municipal solid waste feeds.

The second (taller) building has five floors. Floors 2-5 also have 2 bays with an elevator used for storing cheese pallets. Each of these smaller bays could perhaps store 50 pallets each weighing 1,000lbs approximately. So essentially, the storage is 8 bays which I guesstimate could store 800 pallets or 400 tons of hydrothermally processed, dried, feedstock material. The lower level has concrete floors and could conceivably be used for the conveyor process also. On one end is more of a barn shape with taller ceilings which could be used as a repair shop. Material conveyor belts and equipment would run from one building to the other, initially all on the main floor level, connected together with an added roof structure adjoining the two existing buildings.

The main plan is to put a pole barn in-between the two buildings with two 32' x 24' garage doors, so that semis could back in, the door could shut, and then they could dump their loads entirely enclosed inside of the barn before leaving emptied of trash. See second green arrow drawing below superimposed on the first aerial photo.



A skid-loaded pretreatment system for water effluent from our hydrothermal system is planned and an air quality compliant system will be installed. The entire process will be conducted indoors and should pose no imposition to the surrounding property owners.

As we move forward, we anticipate calculating the maximum theoretical emissions (MTE) for the facility:

Air Quality Permit Application stating:

- Data of discharge air flow rates, contaminate concentrations, or emission rates.
- Stack parameters including stack diameter, stack height, and stack exhaust flow rate;
- Facility information including contact information for the responsible official.
- Process flow diagram
- Manufacturer, model numbers, and design capacities of each emission source

Water Quality Permit Application stating:

- Wastewater discharge flow rates and pollutants
- BOD and COD concentrations needed to complete the wastewater permitting

Please process our Chapter NR502 application. We are eager to get started with a pilot facility. We've been working up to this moment in time for over 5 years now. Please also see the included DNR recommendation we recently received delineating our potential pilot work with area landfills in need of drainage aggregate (up to 40,000 tons per year or more) in landfill cells that are newly being constructed in 2023 and beyond.

Regards,

Benjamin Louis Horvat



Benjamin Horvat
CEO, Louis Structures

O: (262) 800-2053 E: Benjamin@LouisStructures.com
C: (262) 721-7207 W: LouisStructures.com

Section III – Locational Criteria (Circle the appropriate responses corresponding to the facility Group above)

| | | | | | | | | | |
|---|----|-------|-------|-------|-------|-------|----|----|-------|
| 16. operated in a manner to not create a substantial bird hazard? | 16 | Y / N | Y / N | Y / N | Y / N | Y / N | NA | NA | Y / N |
|---|----|-------|-------|-------|-------|-------|----|----|-------|

Section IV – Performance Standards (ss. NR 502 04(1) and (2)(b)6 Wis. Adm. Code) Select the appropriate response.

Will the proposed solid waste activity cause:

- 1. a detrimental effect on any surface water? Y / N
- 2. an impact on any wetlands? (If the facility will impact a wetland, ch. NR 103 applies.) Y / N
- 3. a detrimental effect on groundwater quality? Y / N
- 4. a detrimental impact on groundwater quality or a ch. NR 140 groundwater quality standard to be exceeded? Y / N
- 5. a significant adverse impact on critical habitat areas? Y / N
- 6. concentration of explosive gases which exceed 25% of the lower explosive limit for such gases in structures, soils or air beyond the facility property boundary? Y / N

Section V – Attachments (s. NR 502 04(2) Wis. Adm. Code)

The following supporting documents are provided with this Initial Site Inspection request:

- 1. A regional map or aerial image with 1" = 500' minimum scale showing existing land use activities with the image scale and north arrow identified. This document should have markings outlining a ¼ mile radius around the proposed facility. The proposed facility property boundary, surface waters, floodplains, public parks, roadways, water supply wells and residences within that radius should be labeled.
- A site plan that shows the layout of the proposed site would also be helpful. A suggested scale would be 1" = 100' maximum. This document would have markings outlining the limits of the proposed activity on the property and could be used to show storm water drainage patterns and control structures within the property.
- 2. Documentation that you believe supports and justifies the Department issuing an exemption for any "no" response in Section III above or "yes" in Section IV (select the appropriate box):
 - a. Not Applicable Yes: Section III Locational Criteria (questions #1-15) exemption request(s) attached
 - b. Not Applicable Yes: Section IV Performance Standards (questions #1-6) exemption request(s) attached

Section VI – Applicant Certification

I certify that, to the best of my knowledge, the information provided herein is accurate and was prepared in compliance with all applicable requirements in ch. NR 502, Wis. Adm. Code:

| | | |
|---|-------------------------------|--|
| Authorized Representative (Print) Benjamin Louis Horvat | Title Founder / CEO | Telephone Number 262-721-7207 |
| Applicant Mailing Address 1505 S.12th Street | City Sheboygan | State ZIP Code WI 53081 |
| Signature <i>Benjamin Horvat</i> | Date Signed 8-29-22 | Email Address benjamin@LouisStructures.com |

For Department Use Only

| Assigned Staff Name | Date Received | Response Date | Assigned FID # |
|--|---|---------------|----------------|
| _____ <input type="radio"/> Yes <input type="radio"/> No | WDNR Bureau of Endangered Resources <i>Natural Heritage Inventory</i> identified no critical habitat areas or State or local natural areas on the proposed facility? | | |
| _____ <input type="radio"/> Yes <input type="radio"/> No | WDNR Bureau of Facilities and Lands <i>Historical and Archaeological Site Maps</i> identified no historical, scientific, or archeological areas on the proposed facility? | | |
| _____ <input type="checkbox"/> | Non-complex facility with office review of submittals and databases only | | |

Preliminary Opinion based upon department review of submitted information:

- The facility, as proposed, appears to meet all the applicable performance and location standards.
- The facility, as proposed, has some conflicts with performance and location standards. Sufficient information has been provided to demonstrate, circumstances which warrant exemptions from those standards.
- The facility, as proposed, does not appear to meet applicable performance and location standards. Insufficient information has been provided issue exemptions from those standards. If the project is pursued, the applicant will need to address these issues.

Plan of Operation Status for this facility:

- The facility type identified in Section II does not require department approval of a Plan of Operation Report.
- A Plan of Operation has been submitted and reviewed. A Plan of Operation Approval is part of the ISI response.
- A submitted Plan of Operation Report has not provided adequate information for the department to issue a decision at this time. Additional information will need to be submitted prior to the Department issuing a determination.
- A Plan of Operation Report has not been submitted. To pursue this proposal a plan of operation must be submitted as specified in applicable sections of ch. NR 502, Wis. Adm. Code.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Madison Headquarters
101 South Webster St., P.O. Box 7921
Madison, WI 53707-7921

Page 1
Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



June 28, 2022

National Science Foundation
2415 Eisenhower Avenue
Alexandria, Virginia 22314

Subject: Grant Request, MSWagg Lightweight Aggregate

Dear Grant Application Reviewer:

The Waste and Materials Management Program of the Wisconsin Department of Natural Resources understands that the National Science Foundation will be considering an application by Louis Structures to fund work with landfill owners and engineers to evaluate their product, MSWagg, for use as a drainage layer above the liner of solid waste landfills. The company contends that this material has the potential to fill a need for landfills, while utilizing solid wastes to meet that need.

As state solid waste regulators, we recognize the value of continued practical research into new landfill technology such as the materials used as a part of the lining system for solid waste landfills. Every landfill requires over 1,500 cubic yards of drainage material per acre of liner, and it is one of the most expensive components of landfill construction. These materials need to function essentially indefinitely. Of particular interest in this case is the compatibility of MSWagg with leachate, which is the liquid that percolates through the wastes in the landfill. The qualities of leachate, such as pH, vary over time in a landfill and these qualities could chemically interact with the drainage materials and affect them. Research on this topic could prove helpful to the regulatory community should this technology be proposed for use at full scale.

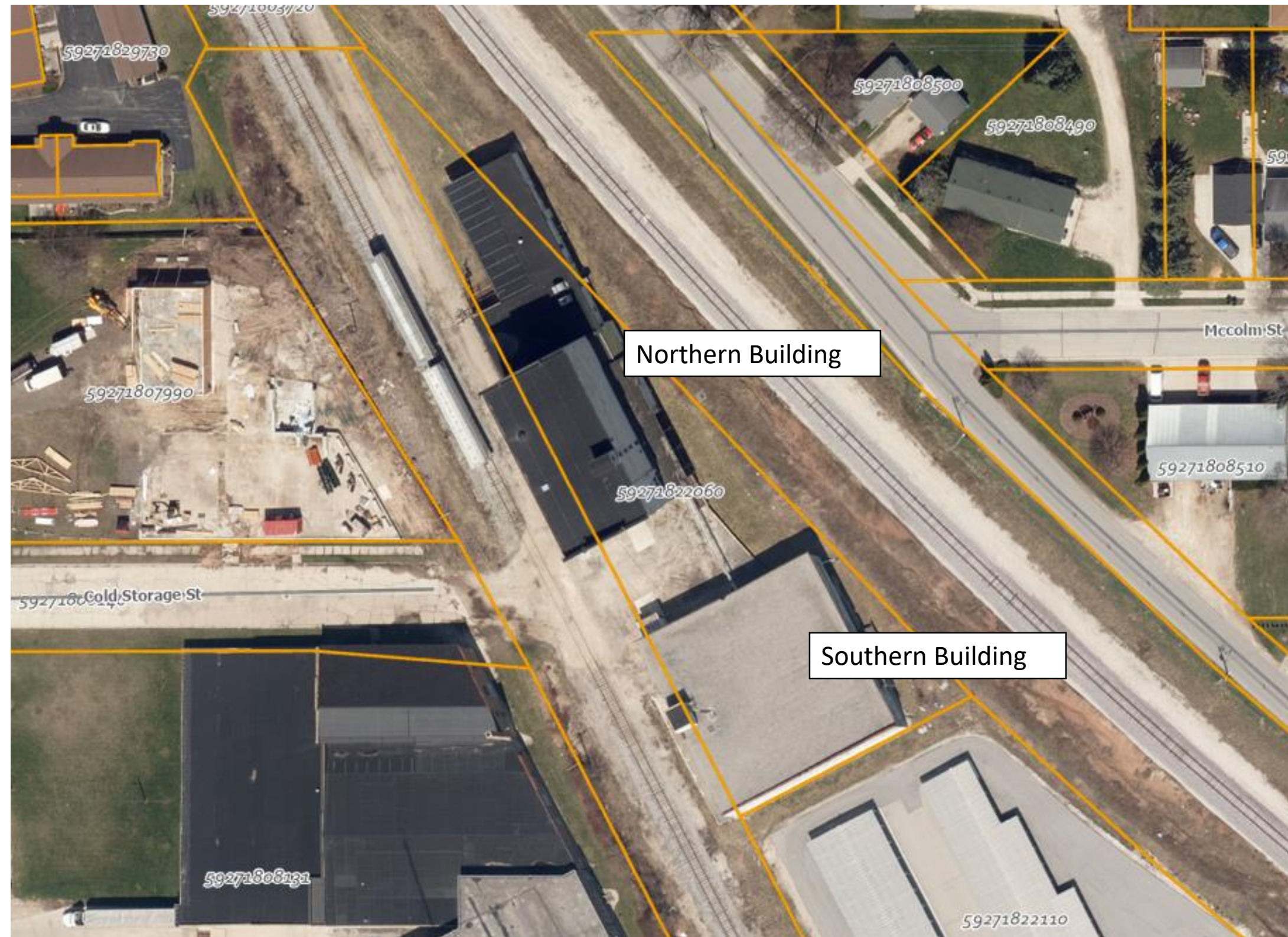
Funding from the National Science Foundation would enable Louis Structures to work with representatives of the solid waste industry, as well state regulators, to evaluate MSWagg for its use as a drainage layer and address questions such as its compatibility with landfill leachate.

Sincerely,

Brad Wolbert, Director
Waste and Materials Management Program
Wisconsin Department of Natural Resources

322 Cold Storage

Very Rough Floor Plan



Northern Building

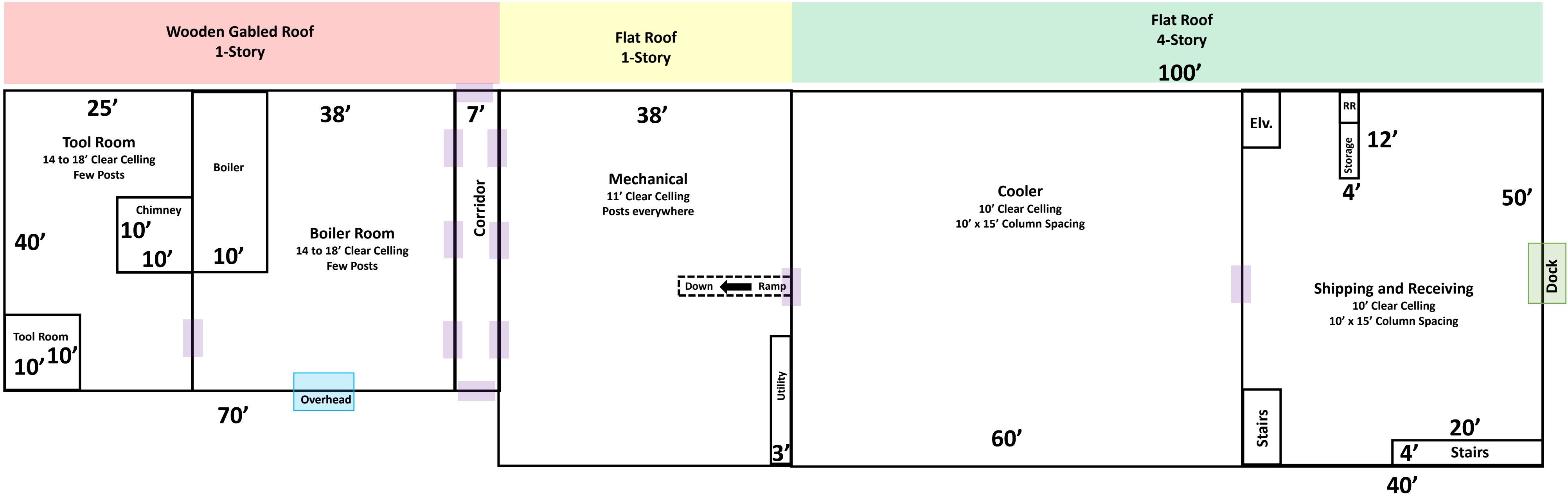


4 Stories | 24,800 SF

- 1st Floor | 9,800 SF
- Floors 2 thru 4 | 5,000 SF

Northern Building

1st Floor

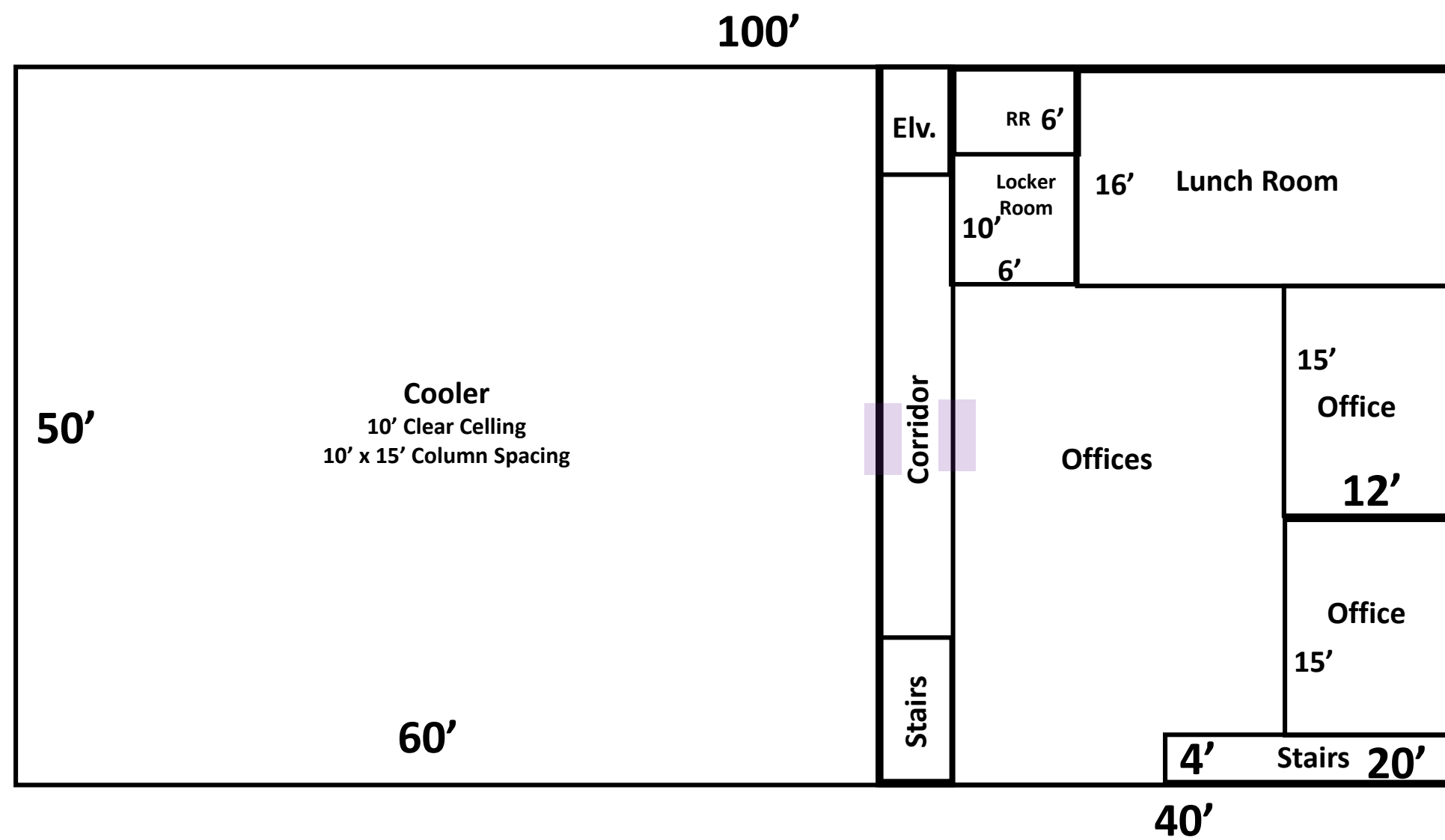


- Drawn Approximately to Scale
- General doors between sections are 7' high, 4 or 5' across

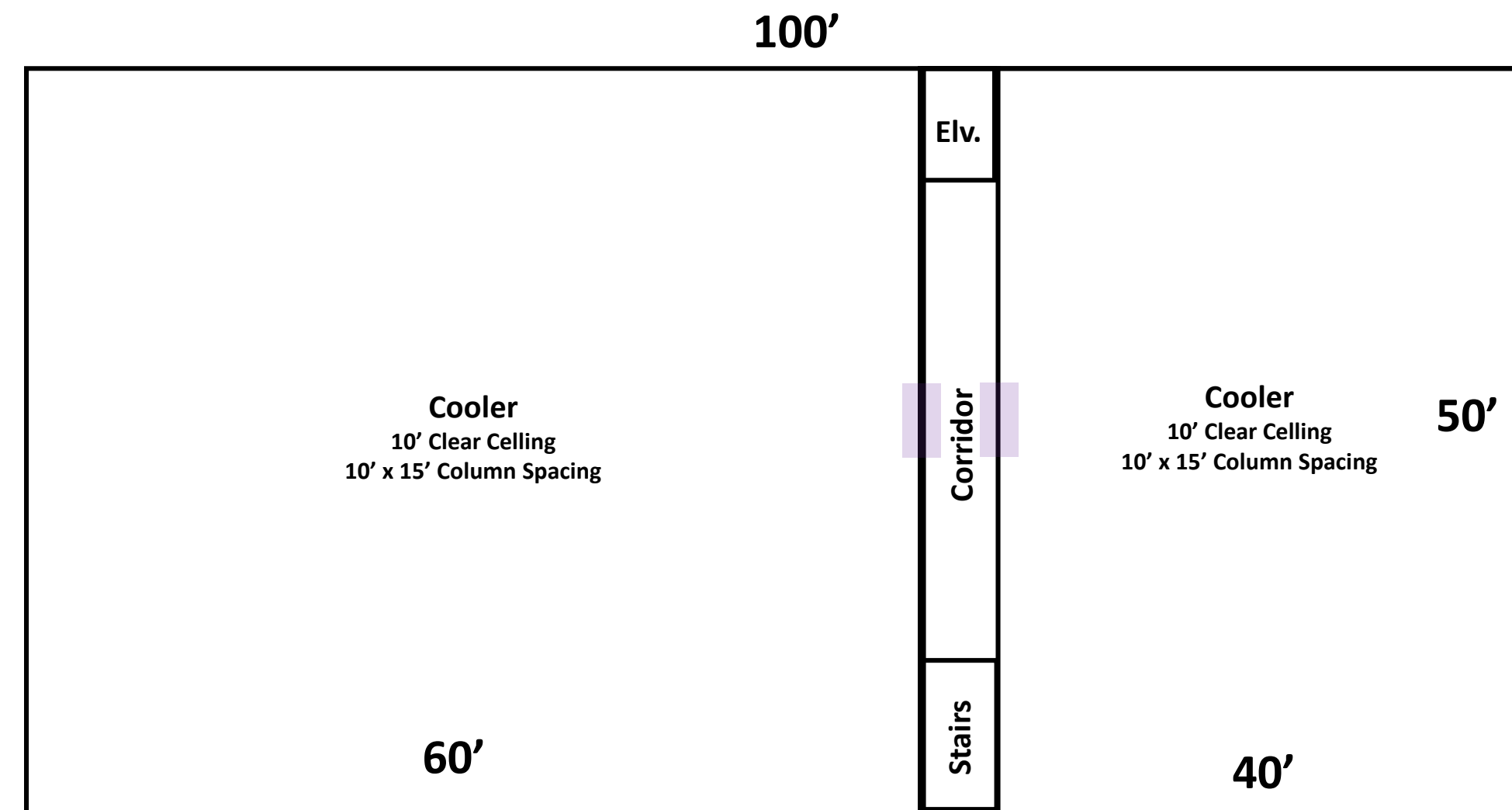
Northern Building



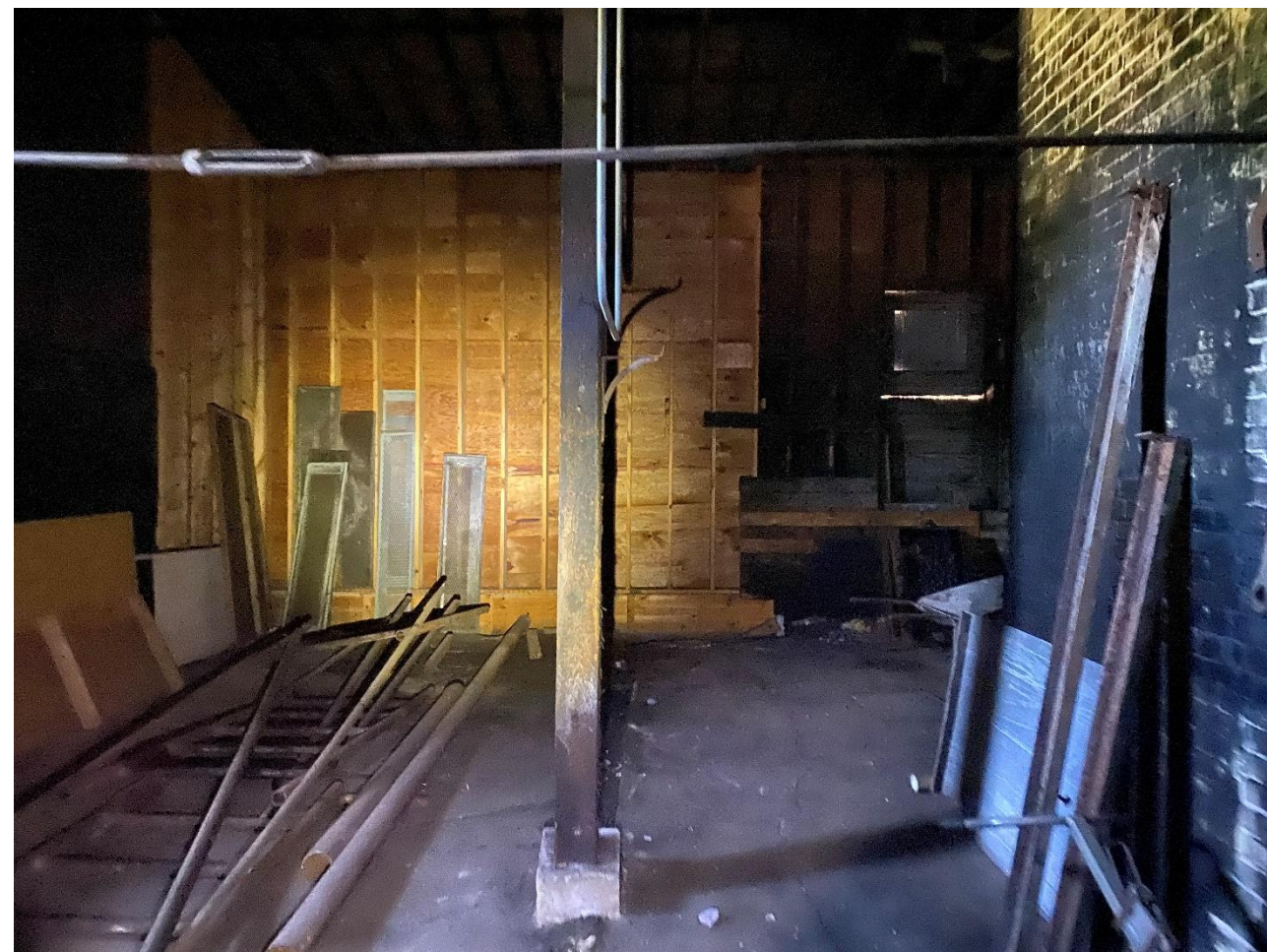
2nd Floor



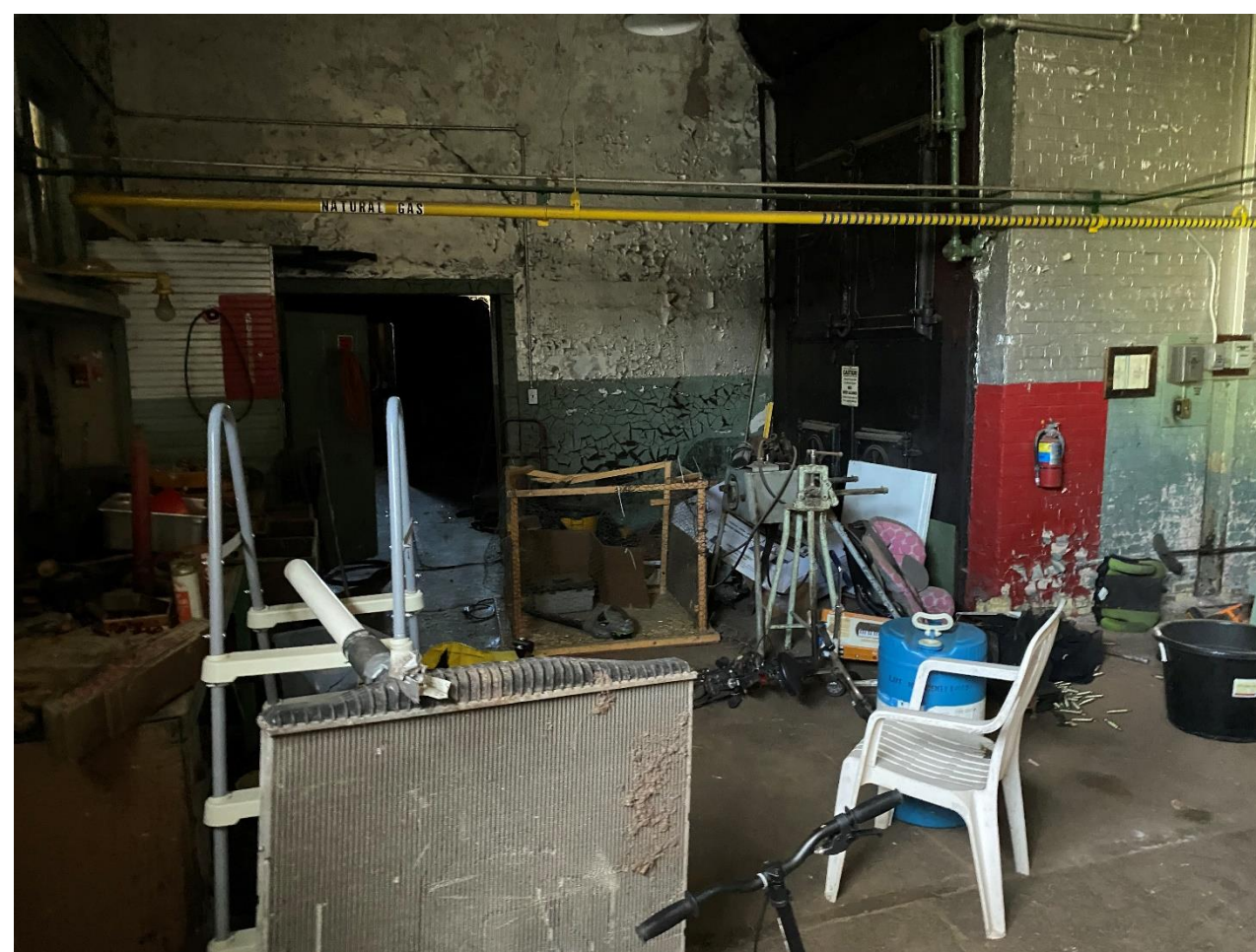
3rd & 4th Floors



Tool Room
14 to 18' Clear Ceiling
Few Posts



Boiler Room
14 to 18' Clear Ceiling
Few Posts



Corridor



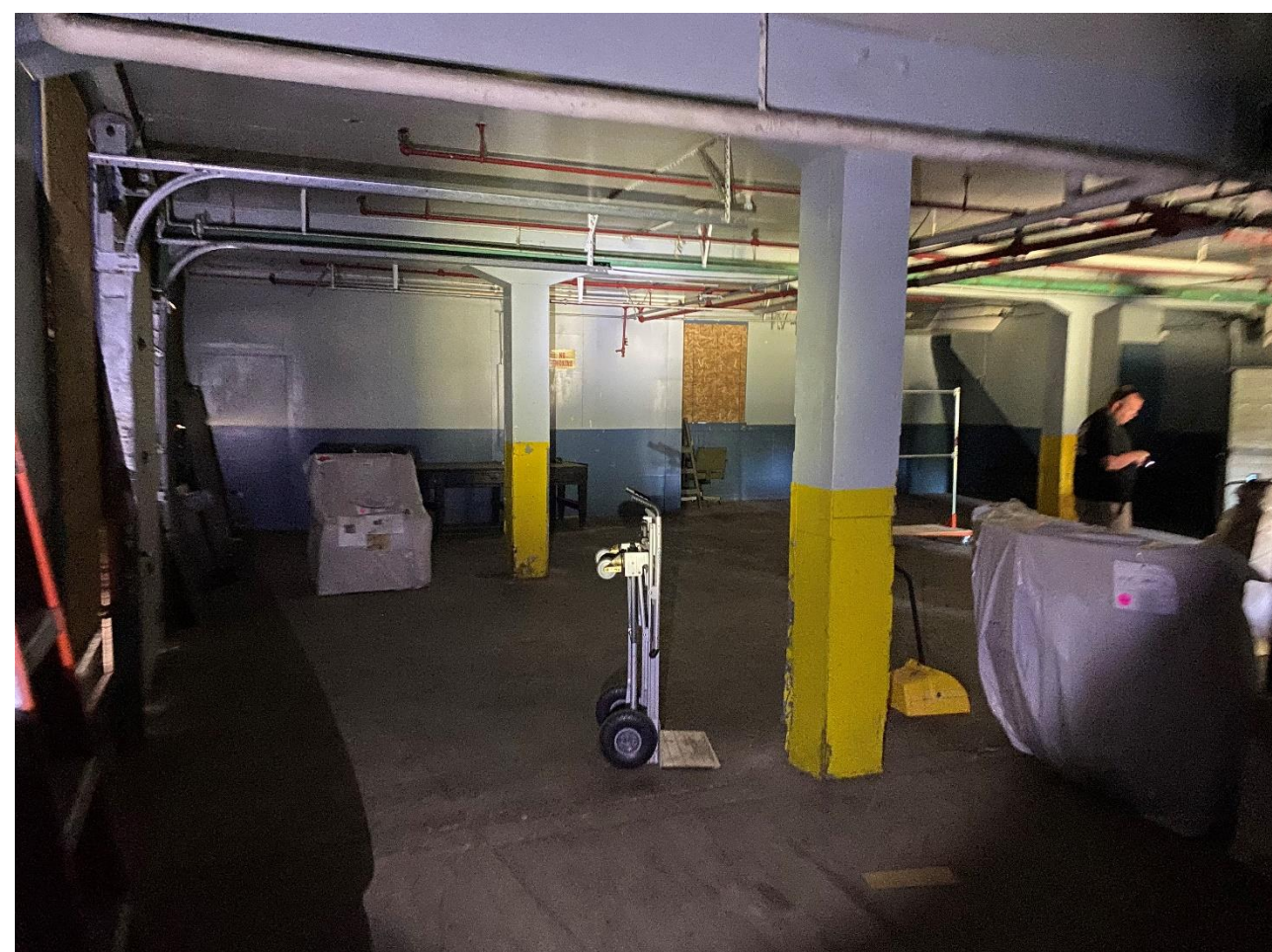
Mechanical
11' Clear Ceiling
Posts everywhere



Cooler
10' Clear Ceiling
10' x 15' Column Spacing



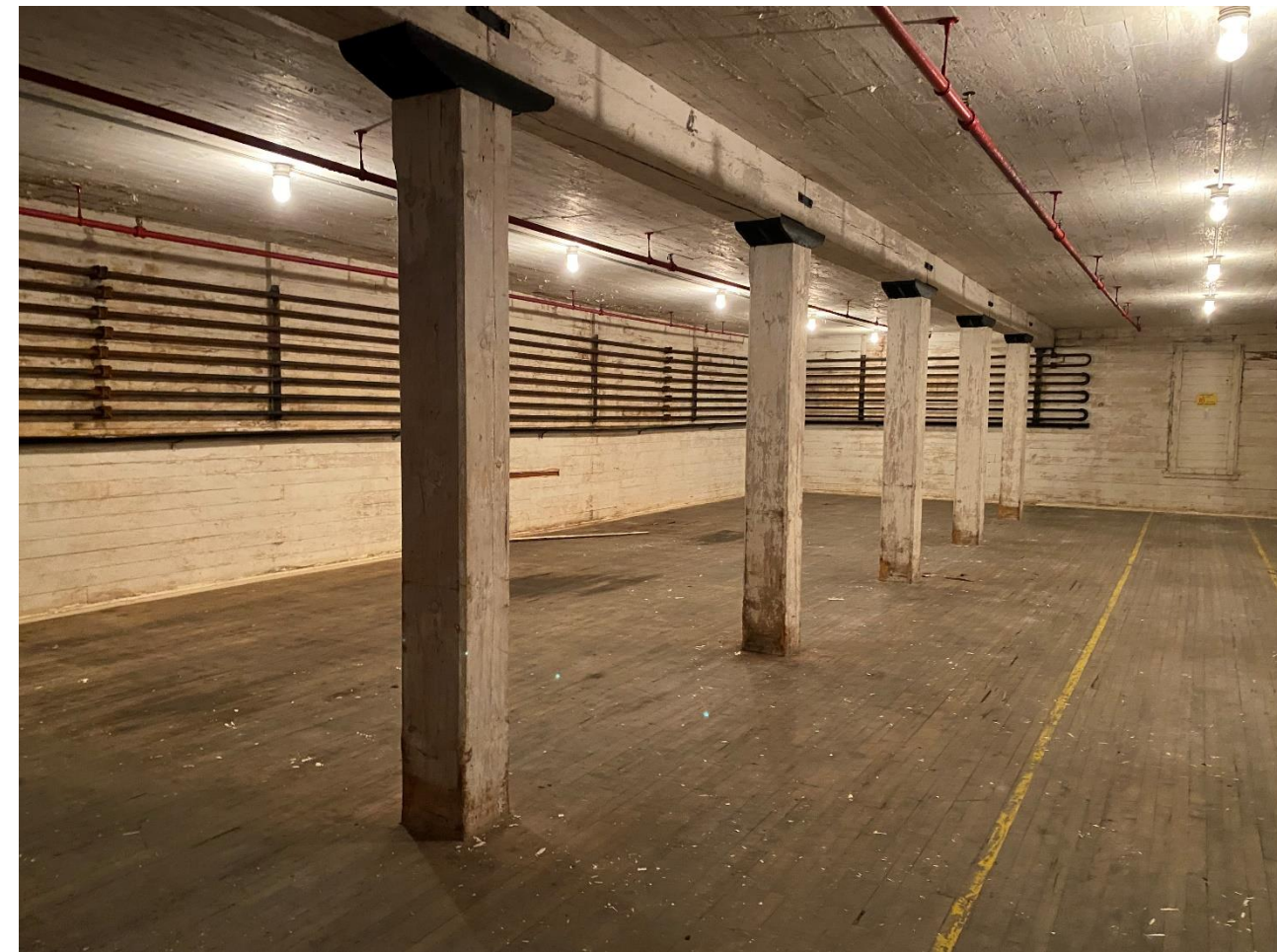
Shipping and Receiving
10' Clear Ceiling
10' x 15' Column Spacing



Offices



Cooler
10' Clear Ceiling
10' x 15' Column Spacing



Southern Building



2 Stories + Full Lower Level | 33,075 SF

- LL thru 2nd Floor | 11,025 Each

Southern Building

1st Floor



- Drawn Approximately to Scale

Corridor

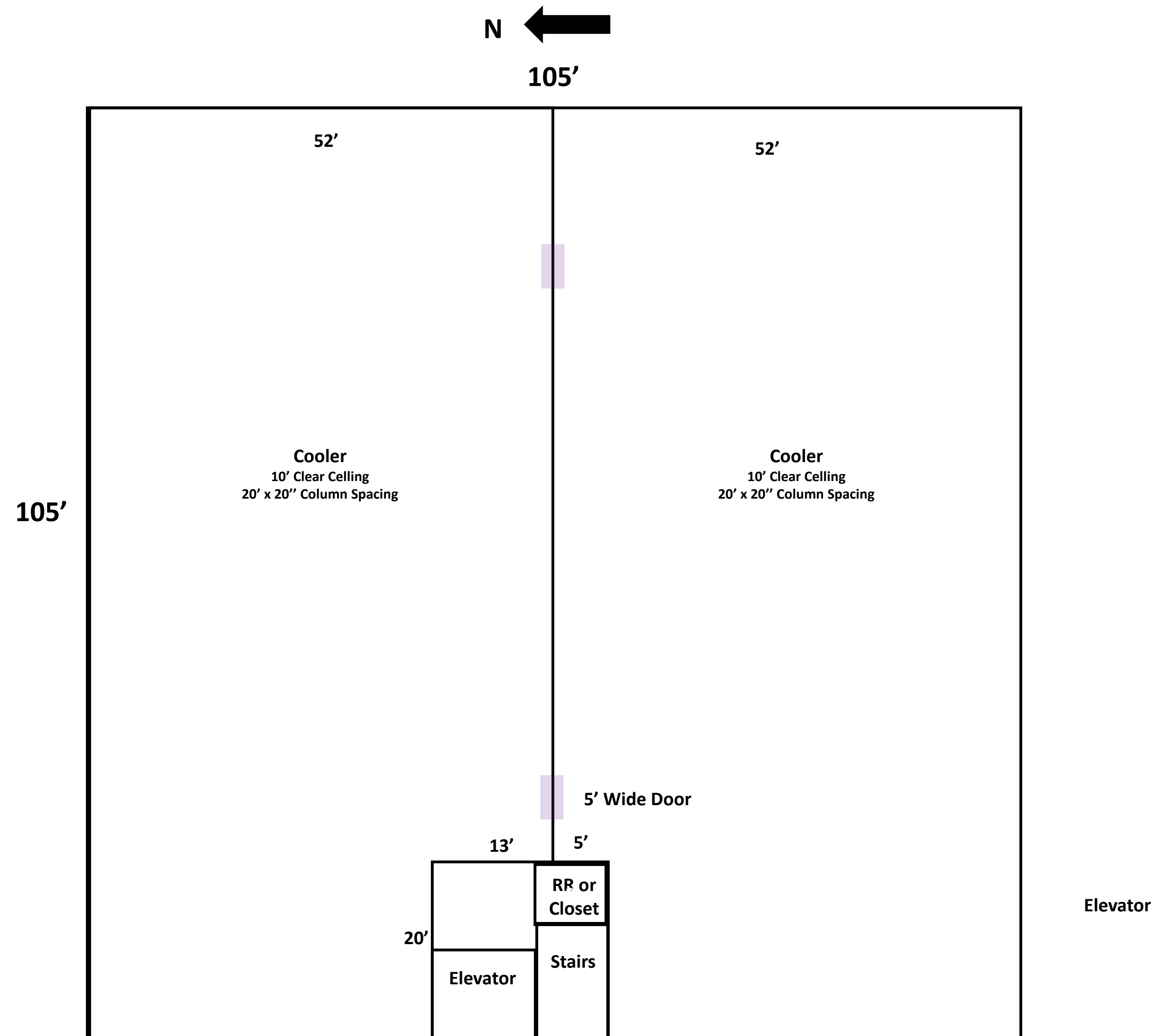


Cooler
11' Clear Ceiling
20' x 20" Column Spacing



Southern Building

2nd Floor & Lower Level



- Drawn Approximately to Scale
- 2nd floor is a restroom, Lower Level is a Closet



Cooler
10' Clear Ceiling
20' x 20" Column Spacing

