McCordsville WWTP Value Engineering

Original construction cost range (July 2018): \$4.8 - \$5.2 Million

Current construction cost range (January 2020): \$5.7 – \$6.7 Million

Cost increases are due to:

- Additional effluent, air, sludge, water and storm piping (\$225K \$300K)
- Equipment (130K \$300K)
- Larger, more complex buildings and increased building construction costs (\$550K \$900K)

Staff directed Whitaker to determine ways to reduce construction costs. These options were reviewed with staff and could save between \$570K and \$950K.

Items eliminated (Potential Savings \$250K - \$450K): Value Engineering and design fee \$9,500.

- UV System
- Fine Screen Building
- Reducing number of valves and adding gates
- Changes in pipe materials
- Other minor components

Bid Alternatives (Potential Savings \$120K - \$175K): Design fee \$14,500 to \$19,500 to achieve savings.

- Addition of the 4th sludge dumpster bay that was originally planned
- Addition of digester VFD's back into the project

Process Building (Potential Savings \$150K - \$275K): Design fee \$20,500 to \$25,500 to achieve savings.

- Reduce UV and storage area footprint
- Decreasing building height on UV/Chemical side by 24"
- Decrease sophistication of crane

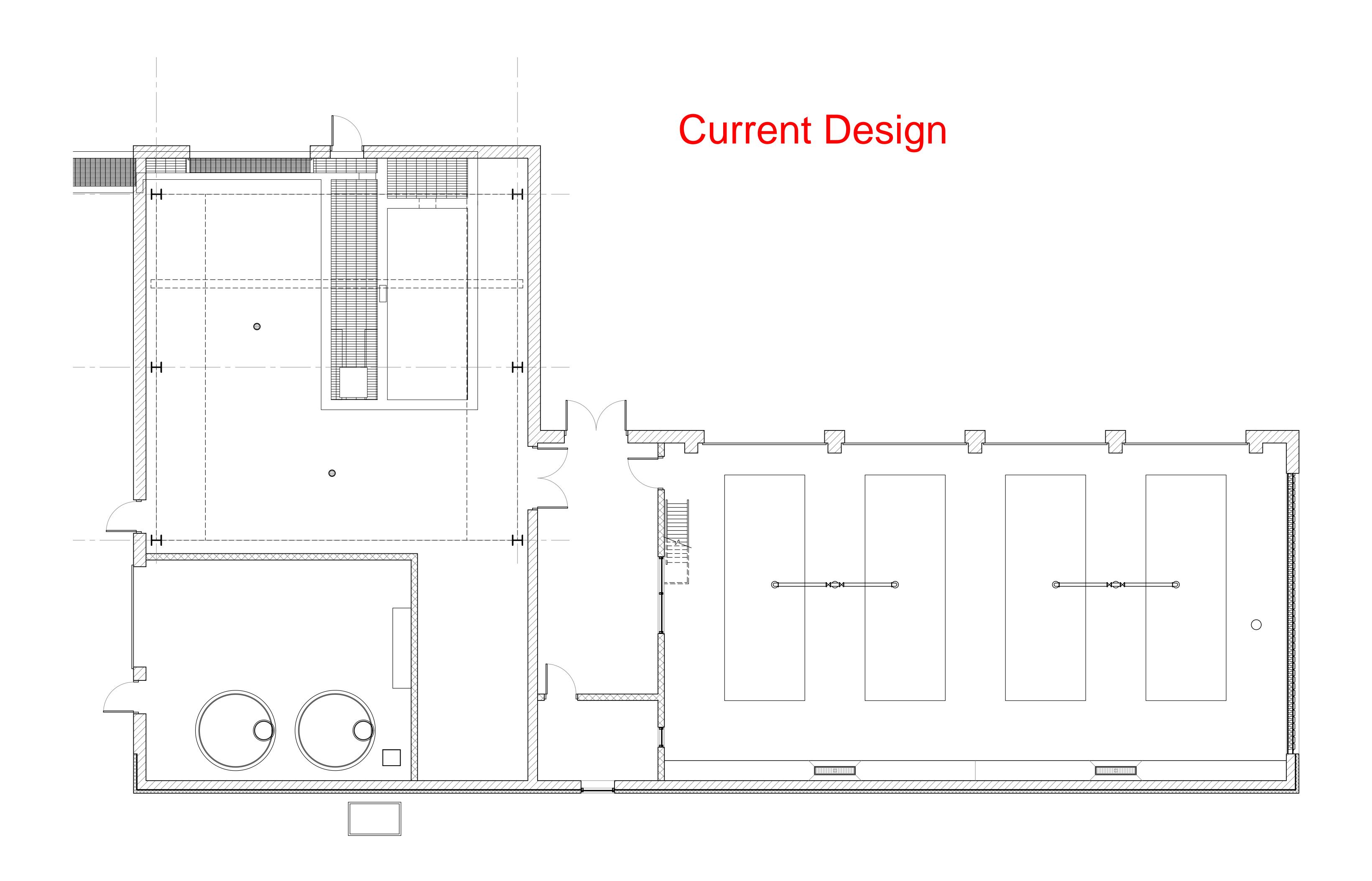
Lab Building (Potential Savings \$50K): Design Fee of \$8,500.

- Eliminates 2 offices and a conference room/office.
- Not recommended by staff. All offices will be utilized immediately except for conference room

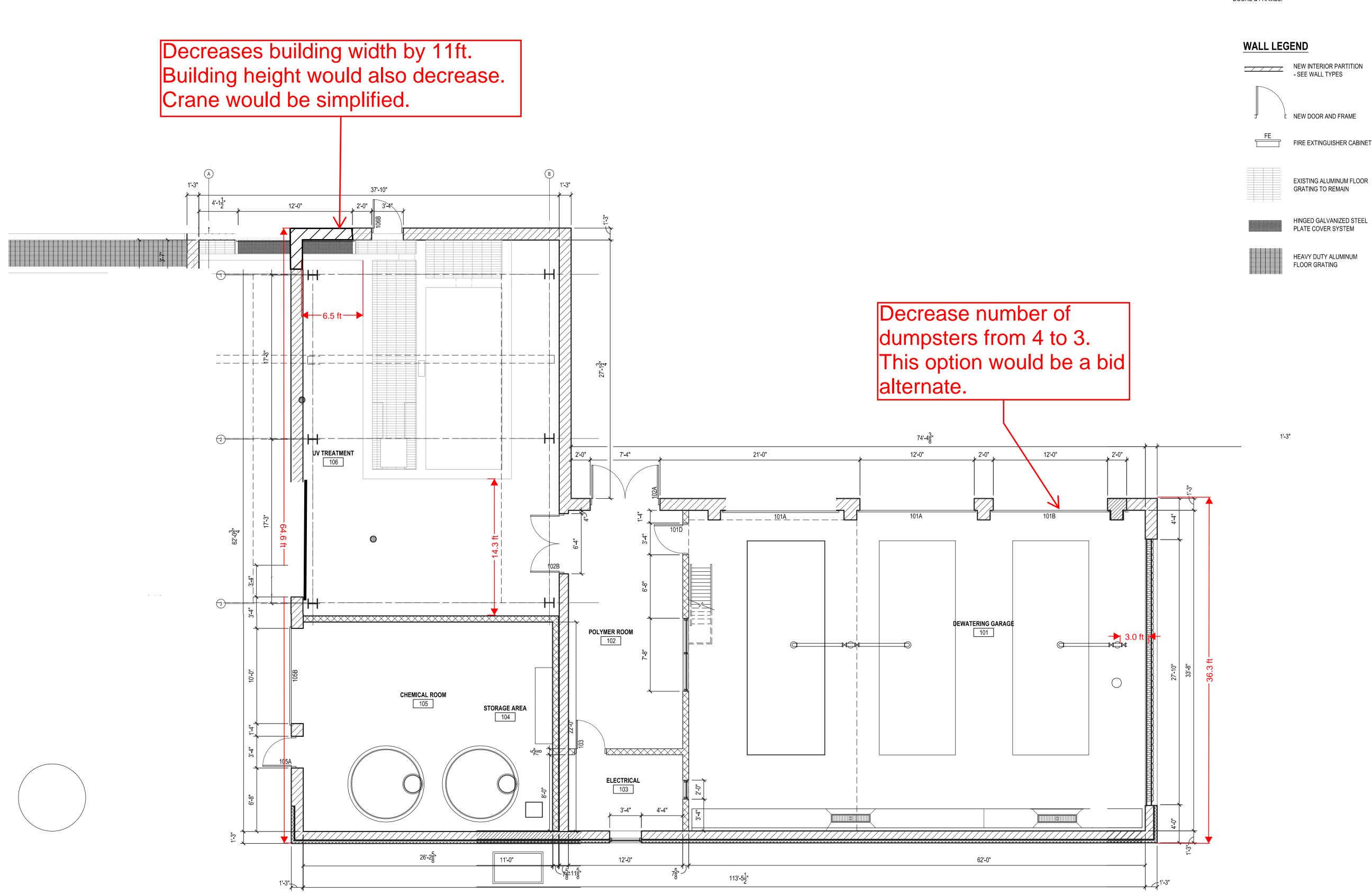
Other Options:

• Eliminate asphalt drive and parking and use stone instead. Board of Works does not want to deviate from Town standard. (Up to \$50K saved)

If all of the options are implemented except the lab building and changing to a stone drive and adding in the professional fees the construction cost range decreases to: \$5.22 – \$5.84 Million

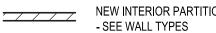


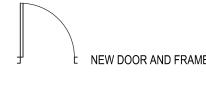
Value Engineering Process Building Options



GENERAL NOTES:

- 2. ALL DIMENSIONS ARE FROM FACE OF MASONRY,
- 4. REFER TO DOOR SCHEDULE ON SHEET A2.1 FOR SIZE, TYPE, AND FINISH OF ALL NEW







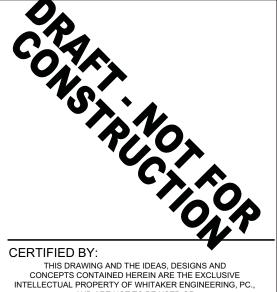


PROCESS BUILDING





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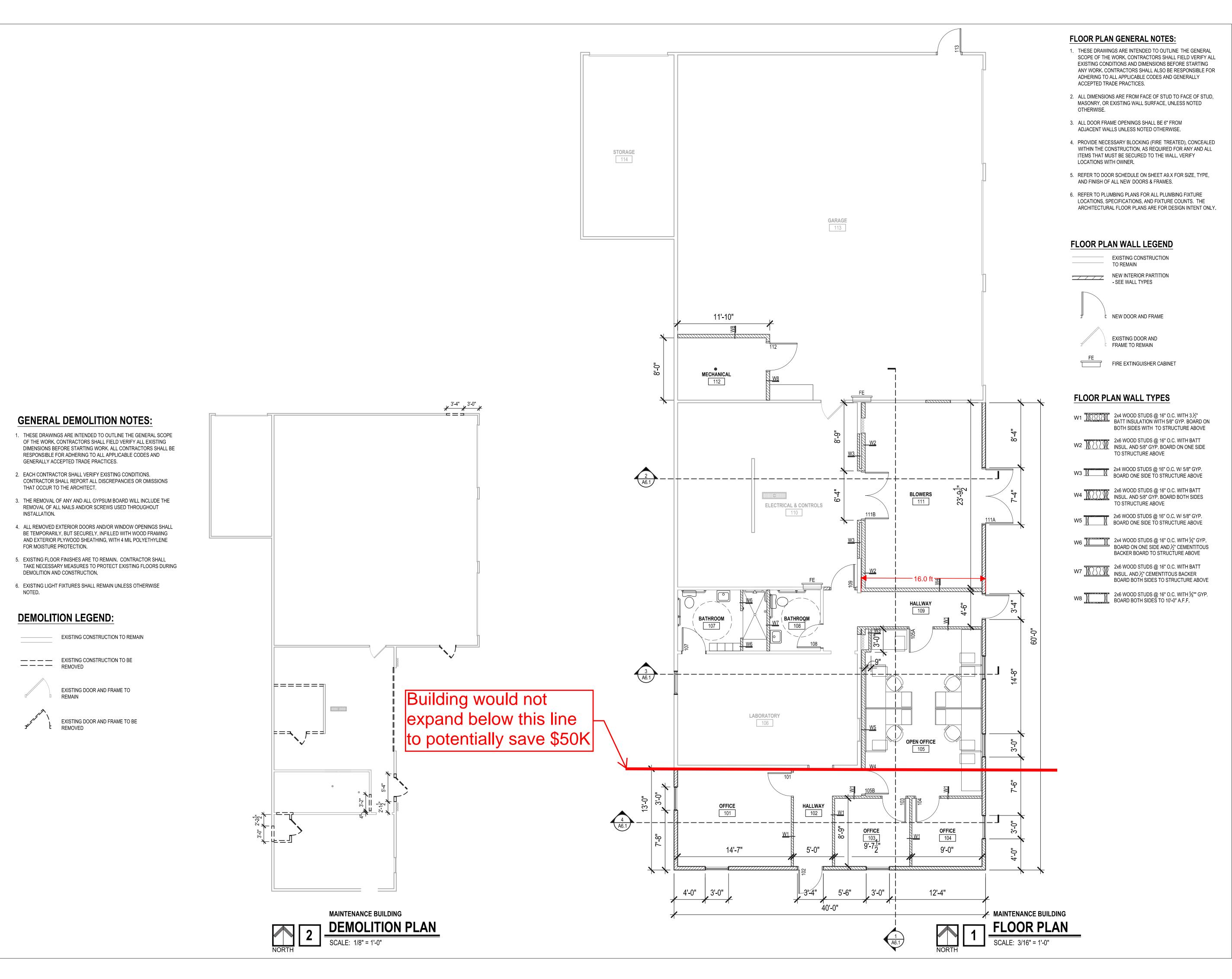


OWNER INFORMATION:

TOWN OF McCORDSVILLE 6280 W 800 McCORDSVILLE, IN 46055

SHEET No. OF: SHEET LABEL: PROJECT No.

CHECKED BY: MLW DRAWN BY: XXX DATE: XX/XX/ 2019



ETAILS

AINTENANCE BUILDIN
OOR PLAN & DETAILS
OWN OF McCORDSVIL
WTP IMGD EXPANSIO

PROJECT TITLE:



1139 SHELBY STREET 123 EAST THIRD STREET INDIANAPOLIS, IN 46203 MARION, IN 46952 765.662.9372

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A2.1M

SHEET No. OF:

X

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1850

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DRAWN BY: XXX DATE: XX/XX/ 2019