



PHASE I ENVIRONMENTAL SITE ASSESSMENT

LENOX CENTER PROPERTY

100 Lenox Street
Detroit, Michigan 48215
Project Number 188BS21459

PREPARED FOR:

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Report Date September 20, 2021
Site Visit Date August 16, 2021



CONTENTS

SIGNATURE PAGE	1
1.0 EXECUTIVE SUMMARY	2
1.1 Subject Property and Area Description.....	2
1.2 Findings, Opinions and Conclusions	2
1.3 Significant Assumptions	3
1.4 Significant Data Gaps.....	3
1.5 Recommendations	3
2.0 INTRODUCTION	4
2.1 Purpose.....	4
2.2 Scope of Work.....	4
2.3 Limitations.....	4
2.4 Special Terms and Conditions (User Reliance)	6
3.0 USER PROVIDED INFORMATION	7
3.1 Environmental Liens or Activity and Use Limitations (AULs).....	7
3.2 Specialized Knowledge or Experience of the User	7
3.3 Significant Valuation Reduction for Environmental Issues	7
3.4 Owner, Property Manager and Occupant Information.....	7
3.5 Reason for Performing ESA	7
3.6 User Provided Documentation.....	7
4.0 SITE DESCRIPTION	8
4.1 Location and Legal Description	8
4.2 Area Description.....	8
4.3 Property Improvements and Use.....	8
4.4 Current Uses of Adjoining Properties	9
5.0 RECORDS REVIEW	10
5.1 Physical Setting Sources.....	10
5.1.1 Topography.....	10
5.1.2 Geology	10
5.1.3 Soils	10
5.1.4 Hydrology.....	10
5.2 Historical Records Sources	10
5.2.1 Aerial Photographs.....	11
5.2.2 Fire Insurance Maps	11
5.2.3 Property Tax Files	12
5.2.4 Recorded Land Title Records.....	12
5.2.5 Historical USGS Topographic Maps	12
5.2.6 City Directories.....	13
5.2.7 Building Department Records.....	13



5.2.8	Zoning/Land Use Records.....	14
5.2.9	EDR Exclusive Historical Records.....	14
5.2.10	Other Historical Sources	14
5.3	Prior Assessments	14
5.4	Standard Environmental Records.....	15
5.4.1	Federal, State and Tribal Agency Database Findings.....	16
5.4.2	Local Environmental Records Sources.....	19
6.0	SITE RECONNAISSANCE	20
6.1	Methodology and Limiting Conditions.....	20
6.2	Site Reconnaissance Summary	20
7.0	SUBSURFACE VAPOR MIGRATION	24
8.0	INTERVIEWS.....	26
9.0	ADDITIONAL SERVICES	27
10.0	REFERENCES.....	29
11.0	TERMS & ACRONYMS	30

APPENDICES

APPENDIX A	SITE VICINITY MAP
APPENDIX B	SITE PLAN
APPENDIX C	SITE PHOTOGRAPHS
APPENDIX D	USER PROVIDED DOCUMENTATION
APPENDIX E	REGULATORY DATABASE REPORT
APPENDIX F	AERIAL PHOTOGRAPHS
APPENDIX G	HISTORICAL RESEARCH DOCUMENTATION
APPENDIX H	PRIOR ASSESSMENTS
APPENDIX I	RESUMES
APPENDIX J	SCOPE OF WORK
APPENDIX K	OTHER SUPPORTING DOCUMENTATION



SIGNATURE PAGE

Project Information

Lenox Center Property
188BS21459
100 Lenox Street
Detroit, Michigan 48215

Reconnaissance Date(s): August 16, 2021

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Environmental Professional Statement

We declare that, to the best of our professional knowledge and belief, we meet the definition of *environmental professional* as defined in § 312.10 part of 40 CFR 312. We have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Andrew Temerowski, Project Scientist
Site Assessor

Ann O'Brien, Due Diligence Manager
Senior Reviewer

Pamela Wheeler, Senior Project Manager
Senior Reviewer



1.0 EXECUTIVE SUMMARY

1.1 Subject Property and Area Description

The property that is the subject of this Atlas Technical Consultants LLC (Atlas) Phase I Environmental Site Assessment (ESA) report is located at 100 Lenox Street, Detroit, Michigan 48215 (the "Subject Property") and is improved with a vacant approximately 6,740-square foot single story building that was constructed in 1970 on 11.5-acre parcel of land. Prior to this development, the Subject Property and surrounding area were occupied by a Nike Missile Control Site D-23 and residential properties.

1.2 Findings, Opinions and Conclusions

Atlas has performed this ESA of the Subject Property in conformance with the scope and limitations of ASTM Standard Practice E1527-13. Any exceptions to, or deletions from, this practice are described in Section 2.0 of this report. This assessment has revealed no evidence of a *recognized environmental condition* (REC), *controlled recognized environmental condition* (CREC), *historical recognized environmental condition* (HREC) in connection with the Subject Property except the following:

- Significant filling occurred in the southern portion of the property along the Detroit River between 1937 and 1981. The presence of a significant amount of fill material from an unknown origin is considered to be a *recognized environmental condition* (REC).
- A Baseline Environmental Assessment (BEA) was submitted to the state in 2006 for the western adjoining property, under the names Lenox Waterfront Estates (Lenox and Avondale Streets) and Morgan Development LLC (South side of Lenox Street between Avondale and the Detroit River) which are associated with the uncompleted residential development, identifying contamination above residential cleanup criteria. A previous 2004 environmental study indicated that concentrations of VOCs, PAHs, and various inorganics (metals) in soil and groundwater contamination was present at the site above Michigan Department of Environmental Quality, now known as Environment, Great Lakes & Energy (EGLE), Part 201 residential cleanup criteria; thus, the site was considered a "facility". A supplemental site exploration conducted in 2006, indicated that concentrations of VOCs, PNA, and various metals in soil contamination was present at the site above MDEQ Part 201 residential cleanup criteria; thus, the site was confirmed a "facility". Contamination above criteria was identified in samples collected in borings located closest to the Subject Property. The identified contamination above the cleanup criteria at the western adjoining property in close proximity to the Subject Property is considered a vapor encroachment condition (VEC) and a REC to the Subject Property.

Non-CERCLA Issues

- At the request of the User, Atlas concurrently performed a Hazardous/Regulated Materials Survey and Inspection report for the Subject Property dated September 3, 2021. In summary, 16 homogeneous building material areas were confirmed asbestos-containing materials and other regulated materials/universal wastes such as thermostats, ballasts, fluorescent bulbs, and smoke detectors were identified. Refer to the separately prepared report for further information.
- A limited screen survey for readily observable mold and conditions conducive to mold growth was conducted on the Subject Property. Atlas did not observe any evidence of suspect mold growth during the reconnaissance, nor was any instance of historical mold growth or moisture intrusion disclosed. However, Atlas did note the community center was reportedly closed as the result of a water main break in 2013 and has been vacant since. A musty odor was observed within the interior of the building.



Notable Finding

- According to the Federal Emergency Management Agency (FEMA) flood plain map, Map Number 26163C0302E, the Subject Property 'Effective' map depicts the Lenox Center building within an Area of Minimal Flood Hazard - Preliminary Zone X, and maybe affected by larger storm events in excess of the 0.2% annual chance storm event. However, within the 'Preliminary' map, the southern edge of the property (adjacent to the Detroit River) and southwest portion of A.B. Ford Park is within the Federal Emergency Management Agency (FEMA) designated Coastal Floodplain Preliminary Zone VE. The southwest corner of the Lenox Center building is within Zone VE. Zone VE is considered a High Hazard flood zone with a 1% chance of flooding each year, and a 26% chance of flooding over a 30-year mortgage. The remaining portion of the building is within the Area of Minimal Flood Hazard - Preliminary Zone X.

1.3 Significant Assumptions

The assumptions made by the *Environmental Professional* in this report were not considered to have a significant impact on the determination of RECs in connection with the Subject Property.

1.4 Significant Data Gaps

Data gaps may have been encountered during the performance of this ESA and are discussed in applicable sections of the report. According to the ASTM Standard Practice E1527-13, data gaps are only significant if "other information and/or professional experience raise reasonable concerns involving the data gap." No *significant data gaps* were identified in this report.

SIGNIFICANT DATA GAP SUMMARY		
	Report Section	Description
3.1	Environmental Liens or Activity and Use Limitations (AULs)	No <i>significant data gap</i> identified.
4.4	Current Uses of Adjoining Properties	No <i>significant data gap</i> identified.
5.1	Physical Setting Sources	No <i>significant data gap</i> identified.
5.2	Historical Records Sources	No <i>significant data gap</i> identified.
5.4	Standard Environmental Records	No <i>significant data gap</i> identified.
6.1	Methodology and Limiting Conditions	No <i>significant data gap</i> identified.
8.0	Interviews	No <i>significant data gap</i> identified.

1.5 Recommendations

Atlas recommends that a subsurface investigation be conducted to address the *recognized environmental conditions* identified in Section 1.2.

Atlas confirmed asbestos-containing building materials and other regulated materials/universal wastes within the Subject Property building. Prior to demolition, the following is recommended: A licensed asbestos abatement company in the State of Michigan should remove the materials identified as asbestos-containing in accordance with all applicable Local, State, and Federal Requirements prior to demolition. Other Regulated Materials/Universal Wastes identified must be transported and disposed of in accordance with all applicable Local, State, and Federal Requirements prior to demolition.



2.0 INTRODUCTION

2.1 Purpose

The purpose of this ESA was to identify *recognized environmental conditions* (RECs), *controlled recognized environmental conditions* (CRECs) and *historical recognized environmental conditions* (HRECs) in connection with the Subject Property at the time of the site reconnaissance. This report documents the findings, opinions and conclusions of the ESA.

2.2 Scope of Work

This ESA was conducted in accordance with the ASTM Standard Practice E1527-13 for Phase I Environmental Site Assessments, consistent with a level of care and skill ordinarily practiced by the environmental consulting profession currently providing similar services under similar circumstances. Significant additions, deletions or exceptions to ASTM Standard Practice E1527-13 are noted below or in the applicable sections of this report. The table below summarizes the scope of this ESA, including additional services for conditions beyond the scope of ASTM Standard Practice E1527-13 if authorized by the Client. Additional details may be found in Section 10.0, References and Appendix J, Scope of Work.

ESA SCOPE OF WORK
Phase I ESA
Vapor Encroachment Screen
Supplemental Agency File Review
ESA ADDITIONAL SERVICES
Wetlands Document Review
Flood Plain Document Review
Mold Screen
Visual Observation of Suspect Asbestos-Containing Materials (ACM) and limited sampling as per lender guidelines (separate report)
Radon Document Review
Visual Observation of Suspect Lead-based Paint (LBP)
Lead in Drinking Water Data Review

2.3 Limitations

Atlas has prepared this ESA report using reasonable efforts to identify RECs, CRECs and HRECs associated with hazardous substances or petroleum products in, on or at the Subject Property. Findings contained within this report are based on information collected from observations made on the day(s) of the site reconnaissance and from reasonably ascertainable information obtained from certain public agencies and other referenced sources.

The ASTM Standard Practice E1527-13 recognizes inherent limitations for ESAs, including, but not limited to:

- *Uncertainty Not Eliminated* – An ESA cannot completely eliminate uncertainty regarding the potential for recognized environmental conditions in connection with the Subject Property.
- *Not Exhaustive* – An ESA is not an exhaustive investigation of environmental conditions on the Subject Property.



- *Past Uses of the Subject Property* – ESA requirements only require review of standard historical sources at five year intervals. Therefore, past uses of Subject Property at less than five year intervals may not be discovered.

Users of this report should refer to ASTM Standard Practice E1527-13, Section 10.0 References, Section 11.0 Terminology and Appendix J Scope of Work for further information regarding limitations to the scope of this project.

This report is not definitive and should not be assumed to be a complete and/or specific definition of all conditions above or below grade. Current subsurface conditions may differ from the conditions determined by surface observations, interviews and reviews of historical sources. The most reliable method of evaluating subsurface conditions is through intrusive techniques, which are beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other Subject Property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.

Atlas makes no representation or warranty that the past or current operations at the Subject Property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Regardless of the findings stated in this report, Atlas makes no warranty that the Subject Property is free from existing or threatened pollution, and Atlas is not responsible for consequences or conditions arising from facts not fully disclosed to Atlas during the assessment.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by Atlas's observations or other credible referenced sources reviewed during the assessment. Atlas shall not be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or otherwise to fail to maintain or produce accurate or complete records.

Atlas makes no warranty, guarantee or certification regarding the quality, accuracy or reliability of any prior report provided to Atlas and discussed in this ESA report. Atlas expressly disclaims any and all liability for any errors or omissions contained in any prior reports provided to Atlas and discussed in this ESA report.

Atlas used reasonable efforts to identify evidence of aboveground and underground storage tanks and ancillary equipment on the Subject Property during the assessment. "Reasonable efforts" were limited to observation of accessible areas, review of referenced public records and interviews. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by things including, but not limited to, snow cover, paving, construction activities, stored materials and landscaping.

Any estimates of costs or quantities in this report are approximations for commercial real estate transaction due diligence purposes and are based on the findings, opinions and conclusions of this assessment, which are limited by the scope of the assessment, contractual agreement(s) with client, schedule demands, cost constraints, accessibility limitations and other factors associated with performing the ESA. Subsequent determinations of costs or quantities may vary from the estimates in this report. The estimated costs or quantities in this report are not intended to be used for financial disclosure related to the Financial Accounting Standards Board (FASB) Statement No. 143, FASB Interpretation No. 47, Sarbanes/Oxley Act or any United States Securities and Exchange Commission reporting obligations, and may not be used for such purposes in any form without the express written permission of Atlas.

Atlas is not a professional title insurance or land surveyor firm and makes no guarantee, express or implied, that any land title records acquired or reviewed in this report, or any physical descriptions or depictions of the Subject Property in this report, represent a comprehensive definition or precise delineation of Subject Property ownership or boundaries.



The “Environmental Professional Statement” in this report does not “certify” the findings contained in this report and is not a legal opinion of such *Environmental Professional*. The statement is intended to document Atlas’s opinion that an individual meeting the qualifications of an *Environmental Professional* was involved in the performance of the assessment and that the activities performed by, or under the supervision of, the *Environmental Professional* were performed in conformance with the standards and practices set forth in 40 CFR Part 312 per the methodology in ASTM Standard Practice E1527-13 and the scope of work for this assessment.

Per ASTM Standard Practice E1527-13, Section 6, User Responsibilities, the User of this assessment has specific obligations for performing tasks during this assessment that will help identify the possibility of recognized environmental conditions in connection with the Subject Property. Failure by the User to fully comply with the requirements may impact their ability to use this report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Atlas makes no representations or warranties regarding a User’s qualification for protection under any federal, state or local laws, rules or regulations.

In accordance with the ASTM Standard Practice E1527-13, this report is presumed to be valid for a six month period after the date of the site reconnaissance. If the report is older than 180 days, the following information must be updated in order for the report to be valid: (1) regulatory review, (2) site visit, (3) interviews, (4) specialized knowledge and (5) environmental liens search. Reports older than one year may not meet the ASTM Standard Practice E1527-13 and therefore, the entire report must be updated to reflect current conditions and Subject Property-specific information.

2.4 Special Terms and Conditions (User Reliance)

This report is for the use and benefit of the City of Detroit – Demolition Department, and any of their affiliates and their respective successors and assigns, in connection with a commercial real estate transaction involving the property. No third party is authorized to use this report for any purpose. Any use by or distribution of this report to third parties, without the express written consent of Atlas, is at the sole risk and expense of such third party.

Regardless of the findings of Atlas’s assessment, Atlas makes no warranty that the property is free from existing or threatened pollution, Atlas makes no other representation to any third party expressly authorized hereunder except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made, either express or implied. In consideration of the rights granted herein, any third party authorized to use or rely on this report hereby agrees that ATLAS’s liability with respect to any acts or omissions of Atlas shall be limited to a total maximum aggregate of \$100,000.



3.0 USER PROVIDED INFORMATION

The following section summarizes information and documentation provided by the City of Detroit – Demolition Department, (User) with regard to User Responsibilities outlined in ASTM Standard Practice E1527-13. Documentation may be found in Appendix D or as referenced elsewhere in this report.

3.1 Environmental Liens or Activity and Use Limitations (AULs)

The User provided no information regarding the existence of Subject Property environmental liens or AULs.

3.2 Specialized Knowledge or Experience of the User

The User provided no specialized knowledge regarding *recognized environmental conditions* associated with the property.

3.3 Significant Valuation Reduction for Environmental Issues

The User provided no information regarding a significant valuation reduction for environmental conditions associated with the Subject Property.

3.4 Owner, Property Manager and Occupant Information

It was indicated that the Subject Property is vacant and the site contact was identified as Peter Schappach, Environmental Due Diligence Manager for the City of Detroit, Demolition Department. The owner of the Subject Property was identified as Detroit Parks & Recreation.

3.5 Reason for Performing ESA

According to information provided by the User, this Phase I ESA was completed at the request of the City of Detroit – Detroit Building Authority.

3.6 User Provided Documentation

The User provided the following prior assessments or other documentation associated with environmental conditions in connection with the Subject Property. Further discussion of any prior assessment reports may be found in Section 5.3 and related sections of this report.

USER PROVIDED DOCUMENTATION		
Title	Date	Author and/or Source
User Questionnaire	August 18, 2021	Hosam N. Hassanien/City of Detroit Environmental Affairs
Lenox Center Facility Assessment Draft Report	April 24, 2020	Inform Studio
Lenox Recreation Center – Condition and Capacity Report	2006	City of Detroit



4.0 SITE DESCRIPTION

4.1 Location and Legal Description

The Subject Property address is 100 Lenox Street, Detroit, Michigan 48215. According to information obtained from the City of Detroit Assessing Department, the Subject Property is comprised of one parcel of land identified as Property Identification Number 21000110-6. A Site Vicinity Map is located in Appendix A. A Site Plan is located in Appendix B. Site Photographs are provided in Appendix C. A legal description is provided in Appendix K.

4.2 Area Description

The Subject Property is located in an area generally characterized by residential and recreational use. Surface topography across the Subject Property generally slopes to the east-southeast. The surface topography in the area slopes toward the Subject Property from the north adjacent properties.

4.3 Property Improvements and Use

The Subject Property includes 11.5 acres developed with a one-story 6,470 square foot community center building, built in 1970. The building is currently unoccupied and disconnected from utilities. The area surrounding the building generally includes grass and/or landscaping with asphalt driveways/parking areas to the north. A playground is located east of the building and a pavilion and basketball court are located west of the building. Concrete pads and two missile tracking radar towers, associated with the U.S. Army Integrated Fire Control (IFC) site D-23, are also present on the Subject Property.

The following provides a general description of Subject Property buildings and use.

SUBJECT PROPERTY IMPROVEMENTS	
Size of Subject Property (approximate)	11.5-acres
General Subject Property Use	Recreational
Public Roads	Lenox Street to the northwest
Paved or Concrete Areas (including parking)	Asphalt driveways and parking areas are located north of the building. Four (4) Concrete pads are located north of the building. Asphalt walking paths are present within the northeastern portion of the Subject Property. A western asphalt basketball court and a southern concrete walking path fronts the Detroit River.
Unimproved Areas	None
Landscaped Areas	Landscaping/manicured lawns occupy the remainder of the Subject Property
Surface Water	None. The Detroit River is located directly south of the Subject Property.
Potable Water Source	City of Detroit
Sanitary Sewer Utility/Septic	City of Detroit
Storm Sewer Utility	City of Detroit
Electrical Utility	DTE Energy
Natural Gas Utility	DTE Energy
Number of Buildings/Description	One 6,470 square foot community center
Current Occupancy Status	Vacant
Unoccupied Buildings/Structures	One
Type of Use	Currently unoccupied; previously used as a recreation center for the handicapped and community center by the City of Detroit



The following provides additional descriptions of Subject Property buildings and use.

SUBJECT PROPERTY BUILDINGS	
Building Name/Number/Address	100 Lenox Street
Number of Floors	One story; no basement
Total Square Feet of Space (approximate)	6,470 square foot building
Construction Completion Date (year)	1970
Construction Type	Concrete block and brick structure situated on concrete slab
Interior Finishes Description	Concrete, metal, ceramic and vinyl floor tile, former acoustic ceiling tiles
Exterior Finishes Description	Concrete block, brick, metal, glass
Cooling System Type	HVAC system located on the roof
Heating System Type	HVAC systems located in storage room and boiler system located in the boiler room; utilizes natural gas
Emergency Power	None
Tenant Name	None
Location/Unit	None
Type of Use	Vacant community center

4.4 Current Uses of Adjoining Properties

The following summarizes current uses of the adjoining properties, including environmental conditions, features or operations that were observed or suspected to be present.

Occupant(s) Name and Current Use	Address	Direction	Observed or Suspected Environmental Conditions, Features or Operations
Private Residences	174 Lenox 174 Riverside 175 Riverside 174 Piper 175 Piper	North	None observed
Alfred Brush Ford Park	100 Lenox (Parent Parcel)	East	None observed, however, see Section 5.4.1 for associated regulatory database findings
Detroit River	N/A	South	None observed
Vacant Land	101 Lenox 189 Lenox	West	None observed, however, see Section 5.4.1 for associated regulatory database findings

Atlas observed no evidence of current USTs, ASTs, hazardous waste generation or disposal, hazardous substance and/or petroleum products storage and use, or any other current operations or conditions on the adjoining properties that would be anticipated to adversely impact the environmental integrity of the Subject Property. Atlas did not observe any signs of material spillage (e.g., stressed vegetation, surface stains, etc.) on the adjacent properties. As indicated in the table, see Section 5.4.1 for further discussion of regulatory listings associated with the adjacent properties.



5.0 RECORDS REVIEW

5.1 Physical Setting Sources

5.1.1 Topography

The Subject Property is located on the United States Geological Survey (USGS) 7.5 Minute Topographic Map, *Belle Isle, Michigan Quadrangle*, dated 1968, photorevised 1981. A review of the referenced topographic map indicates the Subject Property is located approximately 577 feet above mean sea level (MSL) and slopes to the east-southeast. A copy of the topographic map is included in Appendix A.

5.1.2 Geology

According to the 1987 Bedrock Geology of Michigan map, the bedrock below the site consist of Antrim Shale of the Devonian System, Paleozoic Era. The Antrim is dark gray or brown to largely black, highly carbonaceous, thinly laminated shale with meager fossil content except for profuse algal spores. Depth to bedrock was not included in the map, nor did Atlas discover a source indicating the depth to bedrock in the vicinity of the Subject Property.

5.1.3 Soils

According to the Quaternary Geology of Southern Michigan map, dated 1982, (Farrand and Bell), the regional geology in the vicinity of the Subject Property consists of lacustrine clay and silt that is gray to dark reddish brown. It is varied in some localities, and chiefly underlies extensive, flat low-lying areas formerly inundated by glacial Great Lakes. It also occurs in separate, small lake basins. This matrix includes small area of lacustrine sand and clay-rich till.

According to the USDA Web Soil Survey, soils on the Subject Property are classified as Riverfront-Urban land complex, 0 to 4 percent slopes on the southwestern portion of the Subject Property and as Riverfront sandy loam, 0 to 4 percent slopes soils on the remainder of the Subject Property. These soil types typically include sandy loam, then very artificial sandy loam underlain by gravelly-artificial loam. The Soil Survey is included in Appendix K.

Atlas did not obtain any additional information about the Subject Property's soils during the course of this Phase I ESA.

5.1.4 Hydrology

Estimated groundwater levels and/or flow direction(s) may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations. Major hydrogeologic features such as a river or lake generally influence regional groundwater flow direction. Surface and/or bedrock topography may also influence regional groundwater flow direction. It should be noted that local geologic features might cause local groundwater flow direction to differ from the regional flow direction. The available hydrogeologic information indicates that the presumed local groundwater flow is direction is to the east-southeast. The local hydraulic gradient at the Subject Property was interpreted based on a review of the referenced USGS Topographic Map. A complete hydrogeologic investigation would be necessary to determine the groundwater flow direction.

5.2 Historical Records Sources

Atlas's findings pertaining to Subject Property and surrounding area historical uses are presented in the following summary.

The Subject Property appears to have been undeveloped land from at least 1905 to the 1950s and was occupied by an army base from at least the late 1950s through the 1960s. The base consisted of several



barrack buildings and two radar towers. The barrack buildings were removed except the building pads and only the two towers remain. No environmental concerns were identified with the historical use. The current community center building was then constructed in 1970. Occupants of the building have included the Kiwanis Community Center, the Kiwanis Clubhouse at the Detroit Recreational Center, Recreation Center for the Handicapped, then as the Detroit Community Center. The building was vacated in 2013 after a water main break caused significant damage.

The surrounding area was historically undeveloped land from at least 1905 to the 1930s. From the 1930s to the 1980s, the surrounding area included residences to the north; vacant land to the east; a boathouse along a canal to the west; and the Detroit River is located to the south. In the mid to late 1990s, the boathouse on the west adjacent property was demolished. The west adjacent property was then vegetative land until the 2000s when the property northwestern parcels were cleared as part of the Morgan Development project along the canal. Potential environmental concerns identified in association with regulatory database listings of the west adjacent property are further discussed in Section 5.4.1.

Interval gaps (greater than five years) were encountered during the research of historical use information for the Subject Property and surrounding area. However, based on the review of available historical sources, these data gaps did not have an impact on the REC determinations of this assessment and are not *significant data gaps*.

5.2.1 Aerial Photographs

Atlas reviewed available aerial photographs of the Subject Property and surrounding area as provided by EDR. Available aerial photographs for the years 1937, 1949, 1952, 1956, 1967, 1973, 1981, 1997, 1999, 2005, 2009, 2012 and 2016 were reviewed. The following are descriptions and interpretations from the aerial photograph review. Copies of reproducible aerial photographs are included in Appendix F. Descriptions of and interpretations from the aerial photograph review are presented below with years indicated in parentheses.

Subject Property Summary – vacant land with southern fill activities (1937-1952); undeveloped land and military base with southern fill activities (1956-1961); vegetative land with former building pads (1967); vegetative land with former building pads, southern building and northern parking lot/access drives (1973); current development with southern shoreline developed (1981-2016)

Surrounding Property Summary

North – Vacant lots, roadways, and residential properties (1937); roadways and residential properties/current development (1949-2016)

South – Detroit Driver (1937-2016)

East – Vacant land with fill activities (1937-1973); beyond aerial limits (1981); manicured lawn/current development (1997-2016)

West – Vegetative land with a drive and boathouse along a canal (1937-1981); vegetative and cleared land with a drive (1997-2005); vegetative land with a drive and northern stockpile (2009); vegetative land with a drive (2012-2016)

5.2.2 Fire Insurance Maps

A search for fire insurance maps for the Subject Property and surrounding area was conducted by EDR. The following are descriptions and interpretations from the fire insurance map reviews. Documentation is included in Appendix G.



FIRE INSURANCE MAP SUMMARY		
Year	Subject Property	Surrounding Area
1929	Vacant land with Riverside Blvd depicted as undefined and impassable	North adjoining properties are vacant lots and roadways. Eastern adjoining property is vacant land and a continuation of Riverside Blvd undefined and impassable. Southern adjoining property beyond sanborn limits (Detroit River). West adjoining property is vacant land with a boat house and canal.
1942 1949 1957 1962	Depicted similar to the 1929 map.	Depicted similar to the 1929 map, however the north adjoining properties are residential dwellings.
1977	Vacant land with a southwestern structure – Detroit Parks & Recreation Center for the Handicapped (1969)	Depicted similar to the 1962 map.
1989 1991 1996 2002	Depicted similar to the 1977 map.	Depicted similar to the 1977 map; however, the west adjoining property is vacant land.

5.2.3 Property Tax Files

Atlas reviewed reasonably ascertainable tax files obtained online from the City of Detroit for historical ownership information pertaining to the Subject Property. Documentation is included in Appendix K. Records indicate that the Subject Property is designated as Parcel #21000110-6 and includes 53.598-acres of land. The owner is indicated as Detroit Parks & Recreation – City Owned. No prior owners were identified.

TAX RECORDS OWNERSHIP SUMMARY	
Owner	Date
Detroit Parks & Recreation – City Owned	Present

5.2.4 Recorded Land Title Records

The acquisition of recorded land title records was not required by the scope of work for the Phase I ESA.

5.2.5 Historical USGS Topographic Maps

Atlas reviewed available historical USGS Topographic Maps for information regarding past uses of the Subject Property and surrounding area on historicaerials.com. The following are descriptions and interpretations from the topographic map review.

TOPOGRAPHIC MAP SUMMARY		
Year	Subject Property	Surrounding Area
2017 2014	No structures are depicted. Access drive.	No structures are depicted, only roadways.
1981 1974	A park with a southern structure. Access drives -1981	Similar to the 1971 map.
1971	Ford Park	Dense urban development (pink shading) no structures depicted to the north, Ford Park to the east, the Detroit River to the south, and a canal with structures to the west.

TOPOGRAPHIC MAP SUMMARY		
Year	Subject Property	Surrounding Area
1954 1940 1918 1915 1905	Undeveloped land	A roadway followed by undeveloped land to the north, vacant land to the east, the Detroit River to the south, and a canal with structures to the west.

5.2.6 City Directories

Research regarding the availability of historical city directories was obtained from EDR. The EDR-City Directory Image Report that included a search of city directories for the years 2017-1931 in approximate five year intervals. Documentation is included in Appendix G.

A summary of findings follows with years listed in parentheses:

Subject Property

- Private Individual (1931-1935)
- No listings (1940-1967)
- Cty Handicppd Recn (1972-1992)
- Detroit Recreation Ctr (1995)
- Detroit City of (2000-2005)
- No address or street listing (2010-2017)

Adjacent Properties

North – 174 Lenox: Private Individual (1935-1940, 1954-1982, 2000-2017); NP (1987)

174 Riverside; Private Individual (1940, 1954-1972, 1995-2017); NP (1972-1987);

175 Riverside; Private Individual (1940, 1954-1977, 1987-2014); NP (1982)

West - 100 Lenox: Private Individual(s) (1931-1935)

101 Lenox: Private Individual(s) (1940, 1954-1972)

5.2.7 Building Department Records

Atlas reviewed available oil and flammable storage records at the City of Detroit Safety and Engineering Department for the Subject Property address and nearby properties. No records were identified for the Subject Property or nearby properties.

Atlas reviewed reasonably ascertainable assessing records from the City of Detroit Assessing Department for historical ownership and usage information pertaining to the Subject Property. No records were identified for the Subject Property.

Adjacent Properties:

101 Lenox – Masonry Boat House, wreck and remove debris, dated June 4, 1980.

101 Lenox – Mas. Boat house, dated June 21, 1982.

101 (700) Lenox S. – Dwelling, brick and brick veneer, dated May 2, 1929.

174 Lenox – Dwelling, brick veneer, construct 12x12 open porch on rear of house, roof over, dated August 19, 1941.

174 (635) Lenox S. – Dwelling, frame garage cancelled, dated January 26, 1939.



Atlas attempted to review available historical building department records from the City of Detroit for information regarding past uses of the Subject Property and surrounding area. However, as of the date of this report, Atlas has not received a response from the City of Detroit. Atlas will forward any pertinent information as soon as it becomes available. If the information received is not deemed pertinent, it will be archived in Atlas's files. It should be noted that if information is not received from this source within 20 days of the report preparation, it should be considered not readily ascertainable per ASTM E1527-13 Section 8.1.4.2.

Ms. Arianna Zannetti, Landscape Architect for the City of Detroit, General Services Department provided As-built construction drawings for the 100 Lenox structure dated June 30, 1967, concept drawings, and historical building file photos of the Subject Property building. No environmental concerns were identified within the reviewed documents.

5.2.8 Zoning/Land Use Records

Atlas reviewed available historical zoning/land use records online for information regarding past uses of the Subject Property and surrounding area. According to the City of Detroit Zoning Map, the Subject Property is zoned PR: Park.

5.2.9 EDR Exclusive Historical Records

Atlas reviewed potential "high-risk historical records" search results provided by EDR. The EDR Exclusive Historical Record database is composed of selected national historical collections of business directories, proprietary industry data, government agency archives, and other records including gas stations, dry cleaners, manufactured gas plants, landfills, and leaking underground storage tank sites that were available to EDR researchers.

A Historic Auto Station listing was identified for 141 Newport Avenue, which is located approximately 647 feet northeast of the Subject Property. The listing identifies Antrim E D as an automobile repair site for the year 1931 at this location. Based on distance, topography, assumed groundwater gradient, current regulatory status, and/or the absence of reported releases, the site listed in the EDR Exclusive Historical Record database is not considered to represent a likely past, present or material threat of release in, on, or at the Subject Property.

5.2.10 Other Historical Sources

Atlas reviewed the internet site <https://detroit.curbed.com/maps/map-secret-detroit-explore-city-history-art-landmarks> for historical pertinent information regarding past Subject Property usage:

- This site is identified as Alfred Brush Ford Park in Jefferson-Chalmers, but some maps may list it as Nike Missile Control Site D-23. According to Dybis, "What is now known as Alfred Brush Ford Park formerly served as a radar installation for missiles stored underground on nearby Belle Isle. The station, which operated sometime during the Cold War, was private and few people around the time of its construction in the 1950s knew about its true purpose. As word got out and other threats became more pressing, the Nike missile station was closed. All that remains today are several decommissioned towers that sit as a ghostly reminder of its former purpose."

No other readily available historical sources were reviewed.

5.3 Prior Assessments

Atlas reviewed the following User-Provided prior reports:

Lenox Recreation Center – Condition and Capacity Report, dated 2006 on behalf of the City of Detroit



The 2006 assessment was to evaluate the existing conditions of the on-site building, the Lenox Center – a special use facility for the developmentally disabled. At the time of the assessment, the building was operational and in generally fair to good condition. No environmental concerns were identified within the report.

Lenox Center Facility Assessment – Alfred Brush Ford Park, prepared by the assessment team of Inform Studio, Atlantes, Green Path Design, and PEA, dated April 24, 2020 (draft) on behalf of the City of Detroit General Services Department.

This 2020 assessment was to evaluate the existing conditions of two on-site buildings, the Lenox Center and the Restroom building. The Lenox Center is the only structure associated with the current Subject Property. Based on 1967 plans for the “Recreation Center for the Handicapped”, the Recreation Center and adjacent site amenities were originally designed to accommodate the accessibility and programming requirements for members of the community with various disabilities. Since completion in 1969, the site has undergone a few improvements including expansion of the parking, updated playground equipment and safety surfacing and removal of much of the originally designed landscape. The majority of the roadways and parking areas were constructed without curbs, drop-offs, parking areas and walks all appear to be designed to better accommodate wheelchairs. Entry to the parking is provided from Lenox Street. A tube steel swing gate is located at the road intersection to close the parking area to traffic. Stone boulders have been recently placed around the parking area and block access to the drop-off loop to prohibit vehicles from driving into the lawn and park areas. New lighting has recently been installed. A picnic shelter has been installed southwest of the existing building and playground area to the east. In addition to the recreation center and park elements, the site also includes two (2) towers that previously held radar equipment for the Nike Missile Program. The Target Tracking Radar (TTR) and Missile Tracking Radar (MTR) towers. The site was part of The Nike Detroit-Cleveland Defense Area and was the (D-23) Integrated Fire Control (IFC) area that contained radar equipment. D-23 along with IFC (D-26) located on nearby Maheras Gentry Park, formerly Detroit Municipal Airport supported the D-23/26 launch area located on Belle Isle between Blue Heron Lagoon and the Detroit River. The sites were de-activated in 1960.

Historically, in the 1950s, during the height of the Cold War, the site served as a radar installation for the U.S. Army. Known as Nike Missile Control Site D-23, the facility served as operations for a line-of-sight anti-aircraft missile system stored on Belle Isle. Following the deactivation of the site in 1962, land rights reverted to the City and it was returned to Alfred Brush Ford Park. Fund-raising efforts by the Kiwanis Club in the early 1960s led to the design and construction of what is today known as the Lenox Center. Completed in 1970, when the disability rights movement was only beginning to gain momentum, the center aimed to serve residents with disabilities and mobility challenges. Throughout the years, the facility has been referred to as: The Kiwanis Community Center, The Kiwanis Clubhouse at the Detroit Recreational Center and The Recreational Center for the Handicapped. The center ceased operations in 2013 and has fallen into significant disinvestment. No environmental concerns were identified within the report.

Copies of the prior reports are included in Appendix H.

The review of the prior reports did not identified past uses indicating RECs at the Subject Property.

Atlas makes no warranty, guaranty or certification regarding the quality, accuracy or reliability of any third-party prior assessment discussed in this report. Atlas makes no claim that any prior assessment information may be relied upon by any party other than the original user during the shelf-life of that report. Atlas expressly disclaims any and all liability for any errors or omissions contained in any third-party prior assessments discussed in this report.

5.4 Standard Environmental Records

The regulatory agency database report discussed in this section, provided by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut, was reviewed for information regarding reported use or release of hazardous substances and petroleum products on or near the Subject Property. Unless



otherwise noted, the information provided by the regulatory agency database report and other sources referenced in this report, were considered sufficient for REC, CREC, HREC or de minimis condition determinations without conducting supplemental agency file reviews. Atlas also reviewed the "unmappable" (also referred to as "orphan") listings within the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence, but are potentially in the general area of the Subject Property, based on the partial street address, city, or zip code. Unmappable site that were identified by Atlas as being within the approximate minimum search distance from the Subject Property, based on the site reconnaissance and/or cross-referencing to mapped listings, are included in the discussion within this section. The complete regulatory agency database report may be found in Appendix E.

The following is a summary of the findings of the regulatory agency database review.

SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS			
Regulatory Database	Search Distance (Miles)	Subject Property?	# Sites Listed
National Priority List (NPL)	1	No	0
Proposed National Priority List (Proposed NPL)	1	No	0
Federal Super Liens (NPL Liens)	Subject Property	No	0
National Priority List Deletions (Delisted NPL)	1	No	0
Corrective Action Report (CORRACTS)	1	No	0
Federal Resource Conservation and Recovery Act Treatment, Storage, and Disposal Facilities (RCRA-TSDF)	0.5	No	0
RCRA Large Quantity Generators (RCRA-LQG)	0.25	No	0
RCRA Small Quantity Generators (RCRA-SQG)	0.25	No	0
RCRA – Very Small Quantity Generators (RCRA-VSQG)	0.25	Yes	1
Engineering Control Sites List (US ENG Controls)	0.5	No	0
Sites with Institutional Controls List (US INST Controls)	0.5		0
Federal Emergency Response Notification System (ERNS)	Subject Property	No	NA
Land Use Control Information System (LUCIS)	0.5	No	0
Superfund Enterprise Management System (SEMS)	0.5	No	0
Superfund Enterprise Management System Archive (SEMS Archive)	0.5	No	0
Federal Facility Site Information Listing (Federal Facility)	0.5	No	0
Underground Storage Tank Listing (FEMA UST)	0.25	No	0
State and Tribal Priority Site List	1	No	0
State and Tribal Landfill or Solid Waste Disposal Sites	0.5	No	0
State and Tribal Leaking Underground Storage Tanks (LUST)	0.5	No	1
State and Tribal Registered Underground Storage Tanks (UST)	Subject Property & Adjoining	No	1
State and Tribal Institutional Control/Engineering Control Registry	Subject Property	No	0
State and Tribal Voluntary Action Program Sites (VCP)	0.5	No	0
State and Tribal Brownfield Sites	0.5	No	0
State and Tribal Baseline Environmental Assessment (BEA)	Subject Property & Adjoining	No	0

5.4.1 Federal, State and Tribal Agency Database Findings

The Subject Property was identified on the searched databases with details as follows:

NIKE D-23/26 - Detroit – listed on the FUDS (Formerly Used Defense Sites) database. During the period extending from 28 April 1959 through 15 September 1969, the right to 57.110 acres in lease, 0.090 acre in easement and 0.078 acre in license was terminated and transferred back to the City of Detroit or to previous private property owners. Since termination of the leases and restorations



that were completed as required, the former NIKE Battery sites 23-26 have been operated as part of the City of Detroit's Department of Parks and Recreation system.

Atlas reviewed the US Army Corps of Engineers Program Management Action Plan for the NIKE D-23/26 site. No projects had been identified on the FUDS property. Furthermore, the site is not listed on the National Priorities List (NPL) as a site of known environmental concern.

Based on the information obtained from review of the above referenced database report, current regulatory status, the potential for contamination on the current Subject Property is considered relatively low and no further investigation is recommended at this time.

The following listing(s) with a known or significant potential for release and impact in, on, or to the Subject Property were identified in the federal, state and tribal agency databases searched.

Lenox Waterfront Estates
Lenox and Avondale Streets
Detroit, MI

Federal Databases: None listed

State Databases: Inventory

Tribal Databases: None listed

Approximate Distance from the Subject Property: Not Applicable (N/A) – West Adjacent

Approximate Direction from the Subject Property: West

Assumed Groundwater Gradient: Upgradient

Regulatory Data Summary: The inventory of other known facilities (Inventory of Facilities) consists of all known facilities where there has been a release of a hazardous substance(s) in excess of the Part 201 Residential Cleanup Criteria or Part 213, Leaking Underground Storage Tanks, of the NREPA Residential Risk-Based Screening Levels (RBSLs), and/or where response actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use or under Part 213 to meet Residential RBSLs.

Discussion: Atlas requested the inventory documentation from EGLE. A previous 2004 environmental study indicated that concentrations of VOCs, PAHs, and various inorganics (metals) in soil and groundwater contamination was present at the site above MDEQ Part 201 residential cleanup criteria; thus, the site was considered a "facility". A supplemental site exploration conducted in 2006, indicated that concentrations of VOCs, PNA, and various metals in soil contamination was present at the site above MDEQ Part 201 residential cleanup criteria; thus, the site was confirmed a "facility". Contamination above criteria was identified in samples collected in borings located closest to the Subject Property. Based on the presence of contaminants above the state cleanup criteria in close proximity to the Subject Property, this western adjoining property is considered to be a *recognized environmental condition* for the Subject Property.

Morgan Development LLC
South side of Lenox Street between Avondale and the Detroit River
Wayne (County), MI

Federal Databases: None listed

State Databases: Inventory

Tribal Databases: None listed

Approximate Distance from the Subject Property: Not Applicable (N/A) – West Adjacent

Approximate Direction from the Subject Property: West

Assumed Groundwater Gradient: Upgradient

Regulatory Data Summary: The inventory of other known facilities (Inventory of Facilities) consists of all known facilities where there has been a release of a hazardous substance(s) in excess of the Part 201 Residential Cleanup Criteria or Part 213, Leaking Underground Storage Tanks, of the NREPA Residential Risk-Based Screening Levels (RBSLs), and/or where response actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use or under Part 213 to meet Residential RBSLs. Furthermore, a Baseline



Environmental Assessment (BEA), #200603236LV, is associated with this site. Refer to the Regulatory Data Summary associated with the above Lenox Waterfront Estates property.

Discussion: Based on the information associated with the location, the presence of contaminants above the state cleanup criteria, in close proximity to the Subject Property is considered to be a *recognized environmental condition*.

Morgan Development LLC/Former Boat House
189 Lenox Street
Detroit, MI 48215

Federal Databases: RCRA-VSQQ

State Databases: UST

Tribal Databases: None listed

Approximate Distance from the Subject Property: 119-feet

Approximate Direction from the Subject Property: Northwest

Assumed Groundwater Gradient: Upgradient

Regulatory Data Summary: This business is listed as a Resource Conservation and Recovery Act (RCRA) Very Small Quantity Generator indicating that it generates less than 100 kg of hazardous waste a month; it was identified as a CESQG of ignitable waste in 2007. No RCRA violations were identified. Atlas reviewed online WDS records (which includes RCRA data) which indicate that this site damaged an underground tank during excavation dated March 5, 2007. This site is also identified as a CESQG – liquid industrial waste generator and emergency site 2007. One 5,000-gallon gasoline “removed from ground” is associated with this site dated March 9, 2007. No known Leaking Underground Storage Tank (LUST) incidents are associated with this UST. However, the Michigan Licensing and regulatory Affairs, Storage Tank Division (LARA-STD) provided records associated with the UST removal. According to the documents two 5,000-gallon leaded gasoline USTs were associated with this site. McDowell & Associates collected twelve soil samples from the excavation of the USTs and piping run on March 9, 2007 and analyzed for lead and volatiles. Volatiles were non-detect for the twelve soil samples and lead ranged from 19,000 ug/Kg to 240,000 ug/Kg with eleven samples being above the background level for lead (21,000 ug/Kg) but below the applicable generic cleanup criteria.

Discussion: Based on distance, the lack of reported violations, status, subsurface conditions (i.e., cohesive soils), and the presence of intervening infrastructure (including roadways and utility corridors) from the Subject Property, this site is considered to have a low potential to adversely impact the Subject Property and no further investigation is recommended.

Antrim E D
141 Newport Ave
Detroit, MI

Federal Databases: None listed

State Databases: EDR Hist Auto

Tribal Databases: None listed

Approximate Distance from the Subject Property: 647-feet

Approximate Direction from the Subject Property: Northeast

Assumed Groundwater Gradient: Crossgradient

Regulatory Data Summary: Registered as an automobile repair site in 1931.

Discussion: Based on distance considerations, topography, and local geology (clay soils to at least 20 feet in the immediate area), impact to the Subject Property from this site would not be expected. This site is not considered to be a *recognized environmental condition*.

Based on distance, topography, assumed groundwater gradient, current regulatory status, and/or the absence of reported releases, none of the other sites listed in the databases searched are considered to represent a likely past, present or material threat of release in, on, or at the Subject Property. Of note, the LUST site identified by the database report is located greater than one-quarter mile from the Subject Property. Given the physical setting characteristics of the Subject Property and surrounding area, supplemental agency file reviews were not warranted to verify the database report information.



5.4.2 Local Environmental Records Sources

Local Health Department

As of the date of this report, Atlas has not received a response from the City of Detroit Health Department, Environmental Health Division regarding any known environmental spills, incidents, or known contamination at the Subject Property. If a response is received which changes the conclusions made in this report, an addendum will be forwarded.

Fire Department

As of the date of this report, Atlas has not received a response from the City of Detroit Fire Department regarding any known fires at or within the vicinity of the Subject Property. If a response is received which changes the conclusions made in this report, an addendum will be forwarded.

Atlas cites data failure with regard to the heating fuel sources for the former structures onsite in the 1950s/1960s at the subject property. Due to data failure, Atlas was unable to determine if fuel oil was used for heating purposes or the type of container it would have been stored in. However, considering the size of the former buildings and type, the fuel oil, if used, was likely stored in an above ground storage tank (AST) near the former subject property buildings. Atlas did not observe any evidence of current or former ASTs, or evidence of a material release at the subject property during the recent subject property site visit.

Electrical Utility

Atlas confirmed with the Michigan Public Service Commission, that DTE Energy provides electricity to the Subject Property.

Water Utility

Atlas confirmed through municipal records that the City of Detroit provides potable water utilities to the Subject Property area. The municipally supplied water comes from the Detroit River. Atlas confirmed that municipally supplied water meets all drinking water standards, including those for lead. A copy of the 2019 Water Quality Report is included in Appendix K.

Sewer Utility

Atlas confirmed that the City of Detroit provides municipal sewage utilities to the Subject Property area.

Other Local Environmental Records Sources

No additional local environmental records sources were reviewed.



6.0 SITE RECONNAISSANCE

The following is a summary of the date, participants and weather conditions associated with the site reconnaissance.

SITE OBSERVATION SUMMARY	
Date(s)	8/16/2021
Atlas Assessor(s)	Andrew Temerowski, Project Scientist
Escorted By	Arianna Zannetti, Landscape Architect, City of Detroit, General Services Department
General Weather Conditions	Warm temperatures, partly cloudy skies

6.1 Methodology and Limiting Conditions

The site reconnaissance consisted of visual and/or physical observations of: the Subject Property and improvements; adjoining sites as viewed from the Subject Property; and, the surrounding area based on visual observations made during the trip to and from the Subject Property as described below.

METHODOLOGY AND LIMITING CONDITIONS		
Subject Property Areas	Methodology	Notes
Exterior	Atlas observed the exterior conditions, improvements and operations of the Subject Property from safely accessible common areas, roads and/or from the understood perimeter boundaries. Significant exterior features were observed when safely accessible.	No limiting conditions
Adjoining Properties	Atlas observed properties adjoining the Subject Property from safely accessible adjacent public roads and/or along the understood Subject Property perimeter boundaries.	No limiting conditions
Interior Common Areas	Atlas observed safely accessible interior common areas such as general storage, maintenance areas, mechanical equipment rooms, utility/janitorial rooms or closets, lobbies, hallways and recreation areas.	Subject Property is not connected to electricity. Inspection completed by flashlight and natural light.
Other Interior Areas with Hazardous Substances and/or Petroleum Products	Atlas observed other safely accessible areas known or suspected to be associated with the use, storage or disposal of hazardous substances and/or petroleum products	No limiting conditions

6.2 Site Reconnaissance Summary

The following is a summary of visual and/or physical observations of the Subject Property and adjoining properties on the day of the site visit. Conditions, features or operations observed, likely present or identified from interviews, records review or prior reports will be discussed further below the table, if applicable. Photographs can be found in Appendix C.

SITE RECONNAISSANCE SUMMARY		
Condition, Feature or Operation Observed or Identified?	Yes	No
Hazardous Substances		x
Underground Storage Tanks (USTs)		x
Aboveground Storage Tanks (ASTs)		x
Other Petroleum Products		x
Railroad Spurs		x
Pipeline Markers		x
PCB Containing Electrical Equipment	x	
Hydraulic Equipment		x



SITE RECONNAISSANCE SUMMARY		
Unidentified Substance Containers		x
Nonhazardous Solid Waste	x	
Wastewater		x
Waste Pits, Ponds and Lagoons		x
Drains	x	
Sumps/Ejectors		x
Septic Systems		x
Stormwater Management Systems	x	
Wells		x
Other:	x	

Hazardous Substances

Atlas did not observe any hazardous substances in, on or at the Subject Property.

Underground Storage Tanks (USTs)

Atlas did not observe any evidence of USTs in, on or at the Subject Property.

Aboveground Storage Tanks (ASTs)

Atlas did not observe any evidence of ASTs in, on or at the Subject Property with the exception of one 40-gallon air compressor tank located in the boiler room of the building, the air compressor is staged on an elevated concrete floor. Limited *de minimus* surface staining was observed at the base of the air compressor. Based on the observed conditions, Atlas concludes that the AST does not represent a *recognized environmental condition*.

Other Petroleum Products

Atlas did not observe any other petroleum products in, on or at the Subject Property.

Railroad Spurs

Atlas did not observe evidence of railroad spurs in, on or at the Subject Property.

Pipeline Markers

Atlas did not observe evidence of pipeline markers in, on or at the Subject Property.

Polychlorinated Biphenyls (PCBs) Containing Electrical Equipment

Fluorescent light ballasts were identified in fixtures throughout the Subject Property building. No evidence of leaking or staining around the outside of the light fixtures was observed by Atlas. Fluorescent light ballasts manufactured prior to 1979 may contain PCBs. Based on the construction date of the Subject Property building in 1970, it is possible that on-site fluorescent light ballasts contain PCBs. All light ballasts should be inspected in-house for PCB-content labeling during routine servicing and replacement, and ballasts that are either labeled as PCB-containing or units that are unlabeled should be disposed of properly in accordance with applicable regulations.

Three pole-mounted transformers are located along the north exterior portion of the Subject Property. No labeling indicating PCB-content was apparent. The transformers appeared to be in good condition, with no evidence of leaks or staining. As the owner, DTE Energy is responsible for testing the units for PCB-content, responding to any material releases associated with the transformers, and returning the condition of the



real estate surrounding the transformer to its pre-release condition. As such, they do not represent a *recognized environmental condition*.

Hydraulic Equipment

Atlas did not observe hydraulic equipment in, on or at the Subject Property.

Unidentified Substance Containers

Atlas did not observe evidence of unidentified substance containers in, on or at the Subject Property.

Nonhazardous Solid Waste

Atlas observed evidence of the generation, storage or disposal of nonhazardous solid waste in, on or at the Subject Property as summarized below.

NONHAZARDOUS SOLID WASTE SUMMARY					
Type of Waste	Generation Process	Quantity	Type of Storage	Location	Disposal/Removal Method & Frequency
Municipal Solid Waste	Standard business operations	Four	55-gallon Plastic Drum	Exterior parking lot and south of subject building	City of Detroit
Municipal Solid Waste – Trash on the ground	Public	N/A	N/A	Exterior parking lot/grounds	City of Detroit

The generation, storage and disposal of nonhazardous solid waste at the Subject Property does not represent a REC.

Wastewater

Atlas did not observe evidence of wastewater generated, treated or discharged (other than former sanitary sewage from lavatories) in, on or at the Subject Property.

Waste Pits, Ponds or Lagoons

Atlas did not observe evidence of waste pits, ponds or lagoons in, on or at the Subject Property. The Detroit River is located directly south of the Subject Property. No visual or olfactory indications of odors or surface sheening was observed.

Drains

Atlas observed floor drains at the entrance of the subject building and in the restrooms, janitor closet, kitchen, and boiler room of the subject building. The floor drains are reportedly routed to the municipal, sanitary sewer and are not considered an environmental concern.

Sumps/Ejectors

Atlas did not observe any sumps or ejectors in, on or at the Subject Property.

Septic Systems

Atlas did not observe evidence of a septic system in, on or at the Subject Property.



Stormwater Management System

Stormwater from the Subject Property flows over building rooftops, paved parking lots, roadways and landscaped areas, and travels into catch basins located on the Subject Property and the adjacent roadway which discharge into the municipal stormwater system. The Subject Property is a mix of landscaped areas and developed land with covered areas consisting of building footprints and parking lots. The observed vegetation did not exhibit signs of biological stress. No significant staining from parked cars, strong odors or stressed vegetation was observed.

Wells

Atlas did not observe any wells in, on or at the Subject Property.

Other Condition, Feature or Operation

Atlas observed a natural gas Warm Morning Gas Incinerator located within the boiler room. The incinerator appears to have been utilized for the burning of routine general refuse trash (i.e., paper and garbage) associated with the Subject Property building operations. The generated ash waste would have then been disposed of in an environmentally acceptable manor (i.e., landfill). The former use of the natural gas incinerator is not considered to be an environmental impact concern.



7.0 SUBSURFACE VAPOR MIGRATION

Atlas conducted a Tier 1 vapor encroachment screen (VES) in accordance with ASTM E2600-15 *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions* for potential vapor encroachment conditions (VECs). A VEC is the presence or likely presence of chemicals of concern (COC) vapors in the vadose zone of the Subject Property caused by the release of vapors from contaminated soil or groundwater either on or near the Subject Property. A Tier 2 Non-Invasive Data Collection Screen was performed if prior assessment reports or regulatory documents were readily available.

Atlas considered the nature and extent of on-site and nearby sources of potential subsurface vapor migration by evaluating the current and historical usage of the Subject Property, the construction type and history, the physical setting, and the potential sources of subsurface vapor migration through the review of regulatory agency database information and/or prior reports to identify contaminated properties.

COC include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), volatile inorganic analytes and petroleum hydrocarbons, in most circumstances. Certain metals and radionuclides can represent VECs based on the known volatility of the constituents, but are uncommon. The vadose zone is the zone between the land surface and the water table within which moisture content is less than saturation (except in the capillary fringe) and pressure is less than atmospheric. Conditions may exist where there could be no vadose zone, such as the case of a building foundation sitting below the water table. In this case, it may be possible for COC vapors to adversely impact the indoor air without migrating through a vadose zone.

The default area of concern (AOC) is the approximate minimum search distance measured from the Subject Property boundary to a contaminated property with known or suspected COC contamination of soil and/or groundwater. If COC and/or petroleum hydrocarbon COC are used or stored on the Subject Property, or there is an institutional control recorded on the Subject Property for these COC, then the Subject Property is included in the default AOC.

The default AOC was adjusted accordingly based on review of groundwater flow direction, subsurface characteristics, surficial features, man-made features, known release information, and local knowledge. When groundwater flow direction can be estimated or determined, the crossgradient or downgradient radius distances can be significantly reduced.

The adjusted AOC are defined as the following distances from the Subject Property boundary:

Tier 1 Screening	Petroleum COC AOC Distance (LNAPL)	Petroleum COC AOC Distance (Non-LNAPL)	Non-Petroleum COC AOC Distance
Up-Gradient	528 feet	528 feet	1,760 feet
Cross-Gradient	165 feet	95 feet	365 feet
Down-Gradient	100 feet	30 feet	100 feet

When data on soil, groundwater, or soil gas contamination on properties within the AOC was available through on-line regulatory documents, (or at the regulatory agency office) a Tier 2 Screening was performed by evaluating whether contamination from these contaminated properties within the adjusted AOC falls within the critical distance of the Subject Property. The critical distance (CD) represents an estimate of the linear distance COC vapors volatilized from contaminated groundwater and/or soil might migrate in the vadose zone to the Subject Property based on industry protocols and available local records. The CD is the linear distance in any direction between the nearest edge of a contaminated plume and the nearest Subject Property boundary.

The Tier 2 CD are defined as the following distances from the Subject Property boundary.



Tier 2 Screening CD	Petroleum COC AOC Distance (LNAPL)	Petroleum COC AOC Distance (Non-LNAPL)	Non-Petroleum COC AOC Distance
Up-Gradient	100 feet	30 feet	100 feet
Cross-Gradient	100 feet	30 feet	100 feet
Down-Gradient	100 feet	30 feet	100 feet

Atlas reviewed potential sources of COC from current and historical Subject Property operations, and known or suspected releases in the surrounding area, using Tier 1 and, if warranted, Tier 2 approaches. The following is a summary of the VES conclusions:

Atlas reviewed potential sources of COC from current and historical Subject Property operations, and known or suspected releases in the surrounding area, using Tier 1 and, if warranted, Tier 2 approaches. The following is a summary of the VES conclusions:

Atlas reviewed reported releases within the area of concern and critical distance of the Subject Property. An inventory/BEA site was identified on the west adjacent property within the critical distance. Based on the identified *recognized environmental conditions* and results of previous soil/groundwater sampling in proximity to the Subject Property, the potential for vapor migration should be considered.

As discussed in Section 5.4.1, volatile organic compounds (VOCs), polynuclear aromatics (PNAs) and metal contaminated soil was reported on the west adjacent property. Based on the nature of contamination, and the age of the last Phase II subsurface investigation conducted at the west adjacent property in 2006 (prior to EGLE's soil gas vapor intrusion guidelines and requirements established in 2013), the potential for a VEC does exist. No additional VECs were identified in relation to the Subject Property. See Section 5.4.1 for further discussion of adjacent or nearby properties and their potential for impact to the Subject Property



8.0 INTERVIEWS

The following persons were interviewed to obtain information regarding environmental conditions in connection with the Subject Property.

INTERVIEW SUMMARY					
Role	Name	Title/Company	Type	# Attempts	Response?
Owner/Client (User)	Hosam N. Hassanien	City of Detroit Environmental Specialist	Email	One	Yes
Key Site Manager	Arianna Zannetti	Landscape Architect City of Detroit, General Services Department	In person Email	One	Yes
Local Fire Dept.	Representative	City of Detroit Fire Department	Email	One	No
Local Health Dept.	Representative	City of Detroit Health Department, Environmental Health Division	Email	One	No
Local Assessing and Building Permit Dept.	Representative	City of Detroit	Email	One	No
Michigan Department of Licensing and Regulatory Affairs (LARA)	Online FOIA website	FOIA Coordinator	Online	One	Yes
Michigan Department of Environment, Great Lakes and Energy (EGLE)	Online FOIA website	FOIA Coordinator	Online	One	Yes

Pertinent information from the interviews is discussed in applicable sections of this report.



9.0 ADDITIONAL SERVICES

The following additional services beyond the scope of ASTM E1527-13 were included in the scope of work for this ESA and are discussed further below.

Wetlands Document Review

Atlas consulted the USGS topographic map, *Belle Isle, Michigan* Quadrangle Map and the U.S. Fish and Wildlife service on-line wetland mapper database and no wetlands were identified on the Subject Property or adjacent properties. No wetland vegetation was observed on the Subject Property during the recent reconnaissance. A copy of the USGS topographic map is included in Appendix A and a copy of the wetland map is included in Appendix K.

Flood Plain Document Review

According to the Federal Emergency Management Agency (FEMA) flood plain map, Map Number 26163C0302E, the Subject Property 'Effective' map depicts the Lenox Center building within an Area of Minimal Flood Hazard - Preliminary Zone X, and maybe affected by larger storm events in excess of the 0.2% annual chance storm event. However, within the 'Preliminary' map, the southern edge of the property (adjacent to the Detroit River) and southwest portion of A.B. Ford Park is within the Federal Emergency Management Agency (FEMA) designated Coastal Floodplain Preliminary Zone VE. The southwest corner of the Lenox Center building is within Zone VE. Zone VE is considered a High Hazard flood zone with a 1% chance of flooding each year, and a 26% chance of flooding over a 30-year mortgage. The remaining portion of the building is within the Area of Minimal Flood Hazard - Preliminary Zone X.

Mold Screen

A limited screen survey for readily observable mold and conditions conducive to mold growth was conducted on the Subject Property. Atlas did not observe any evidence of suspect mold growth during the reconnaissance, nor was any instance of historical mold growth or moisture intrusion disclosed. However, Atlas did note the community center was reportedly closed as the result of a water main break in 2013 and has been vacant since. A musty odor was observed within the interior of the building.

Observation of Suspect ACM

At the request of the User, Atlas concurrently performed a Hazardous/Regulated Materials Survey and Inspection report for the Subject Property dated September 3, 2021. In summary, 16 of the 66 sampled suspect ACM homogenous building material areas were confirmed asbestos-containing materials. In addition, other regulated materials/universal wastes such as thermostats, ballasts, fluorescent bulbs, and smoke detectors were identified.

Refer to the separately prepared report for further information. Prior to demolition, the following is recommended: A licensed asbestos abatement company in the State of Michigan should remove the materials identified as asbestos containing in accordance with all applicable Local, State, and Federal Requirements prior to demolition. Other Regulated Materials/Universal Wastes identified must be transported and disposed in accordance with all applicable Local, State, and Federal Requirements prior to demolition.

Radon Document Review

Radon is a naturally occurring colorless, odorless gas that is a by-product of the decay of thorium or uranium when present in indigenous bedrock, soil or, in rare cases, well water. The EPA guidance action level for annual residential exposure to radon is 4.0 picoCuries per liter of air (pCi/L). Radon testing is not a regulatory requirement for private owners of commercial real estate, but comparing testing results to the



guidance action level is commonly done to suggest whether or not further action to test or limit radon exposure at a building may be prudent.

Atlas's review of published radon data indicates that the Subject Property is located in U.S. EPA Radon Zone 3, an area of low propensity with regard to the potential for elevated levels of radon gas. Published radon testing data indicates that out of 159 test locations in Wayne County, 100% had radon levels below 4.0 pCi/L on the first floor and 97% had radon levels below 4.0 pCi/L in the basement level.

Based on the location in an area of low propensity of elevated radon levels, published test data and commercial usage of the Subject Property improvements, no additional investigation is recommended at this time.

Visual Observation of Suspect Lead-Based Paint (LBP)

The lead-based paint survey was not performed during this investigation since it was beyond the purview of the scope of work.

Lead in Drinking Water Data Review

Atlas confirmed through review of the most recently published Drinking Water Quality Report from 2019 provided on the City of Detroit website, that the municipally-supplied water meets drinking water standards, including those for lead. Lead in drinking water testing was not conducted for this ESA. Documentation is included in Appendix K.



10.0 REFERENCES

ASTM International, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation E1527-13. November 2013.

ASTM International, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, ASTM Designation E2600-15. December 2015.

Detroit, City of, <https://detroitmi.gov/>

Wayne County Parcel Viewer:

<https://www.waynecounty.com/departments/technology/gis-resources.aspx>

Michigan Department of Environment, Great Lakes and Energy (EGLE) FOIA website:

<https://www.michigan.gov/egle/0,9429,7-135--357782--,00.html>

City of Detroit, Drinking Water Quality Report, dated 2019.

Environmental Data Resources, Inc., EDR Radius Map Report, August 6, 2021; The EDR Aerial Photo Decade Package, August 6, 2021; The EDR City Directory Image Report, August 11, 2021; and Certified Sanborn Map Report, August 9, 2021

Farrand, W.R. and Bell, D.L., *Quaternary Geology of Southern Michigan*, 1982

MI Public Service Commission, Utility Provider Search, <https://utilitysearch.apps.lara.state.mi.us/search>

State of Michigan Department of Natural Resources, *Bedrock Geology of Michigan*, 1987

State of Michigan Department of Environment, Great Lakes and Energy (EGLE), Waste Data System:

<https://www.egle.state.mi.us/wdsp/AdvancedSearch.aspx>

Topoview, USGS Topographic Map, Belle Isle, Michigan Quadrangle, dated 1968 updated 1981

U.S.D.A. Web Soil Survey <http://websoilsurvey.nrcs.usda.gov/app>

Google Earth, <https://www.google.com/earth/>.



11.0 TERMS & ACRONYMS

The following provides definitions and descriptions of key terms and acronyms that may be used in this report. Italics indicate terms that are defined by ASTM Standard Practice E1527-13. The Standard Practice should be referenced for further detail (such as the precise wording), related definitions or additional explanation regarding the meaning of terms.

recognized environmental condition(s) (REC) - the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

material threat - a physically observable or *obvious* threat which is reasonably likely to lead to a release that, in the opinion of the *environmental professional (EP)*, is threatening and might result in impact to public health or the environment.

de minimis condition – is a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of the appropriate governmental agencies. Conditions determined to be *de minimis* are not RECs nor controlled recognized environmental conditions.

historical recognized environmental condition (HREC) - a past release of any hazardous substances or petroleum products that has occurred in connection with the Subject Property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release an HREC, the EP must determine whether the past release is a REC at the time the assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a REC at the time the Phase I ESA is conducted, the condition will be reported as a REC.

controlled recognized environmental condition (CREC) - a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitation, institutional controls, or engineering controls).

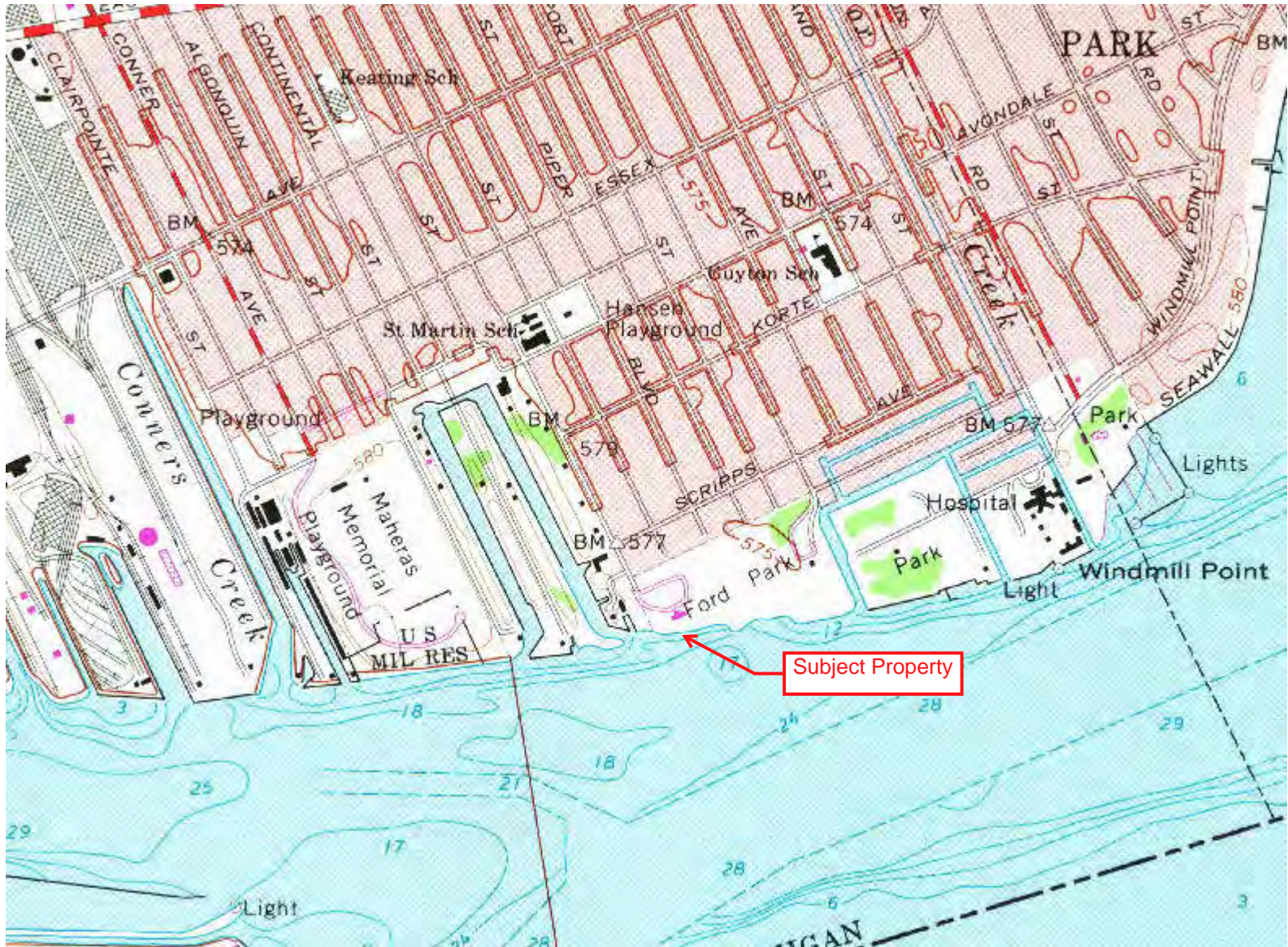
migrate/migration - refers to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.

business environmental risk (BER) - a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Evaluation of business environmental risk issues may involve addressing one or more non-ASTM scope considerations.

Subject Property – a lot or assemblage of lots that comprise a parcel of commercial real estate as described in Section 1.1 that is the subject of this ESA report.



APPENDIX A
SITE VICINITY MAP



Source: USGS Topographic Map 7.5 Minute Belle Isle , Michigan Quadrangle dated 1968, photorevised 1981

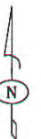


Subject Vicinity Map

**Lenox Center Property
100 Lenox Street
Detroit, Michigan**

PROJECT NO.: 188BS21459

DRAWN BY: AJT









APPENDIX B
SITE PLAN



LEGEND:

-  = Subject Property Boundary
-  = Subject Property Building

-  = Pole mounted transformer
-  = 55-gallon Drum



Subject Property Plan

**Lenox Center Property
100 Lenox Street
Detroit, Michigan**

PROJECT NO.: 188BS21459

DRAWN BY: AJT





APPENDIX C
SITE PHOTOGRAPHS

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 1: View of the subject property, facing southeast.



Photo 2: View of the northern portion of the subject building, facing south.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 3: View of concrete slabs/former barrack, classroom, and storage locations associated with U.S. Army Integrated Fire Control (IFC) site D-23 facing east. Note missile tracking radar tower at right.



Photo 4: View of 55-gallon general refuse barrel and discarded debris located within the western portion of the subject property facing east.



Photo 5: View of a pavilion, general refuse 55-gallon drum, and second radar tower located within the southern portion of the subject property facing east.



Photo 6: View of the playground located east of the building facing east.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 7: View facing west along the southern portion of the subject property. Note the stormwater catch basin.



Photo 8: View facing west along the southern portion of the subject property.



Photo 9: View facing north along the eastern portion of the subject property. Note the soil stockpile/ant hill at left.



Photo 10: View facing south along the eastern portion of the subject property.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 11: View facing west along the northern portion of the subject property.



Photo 12: View of three pole-mounted electrical transformers located along the northern subject property boundary.



Photo 13: View of the walking path and former lighting structures pad located within the northeastern portion of the subject property.



Photo 14: View facing east along the northern portion of the subject property.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 15: View of the western portion of the asphalt parking lot, facing southeast.



Photo 16: View of the northern entrance portion of the subject building.



Photo 17: View of the eastern janitor's closet.



Photo 18: View of the eastern men's bathroom.



Photo 19: View of the eastern storage HVAC room.



Photo 20: View of interior mounted HVAC equipment within the eastern storage HVAC room.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 21: View of the first aid room.



Photo 22: View of the office.



Photo 23: View of the large lounge. Note a 2013 water main break caused extensive damage and the building was permanently closed.



Photo 24: View of the kitchen.



Photo 25: View of drains within the kitchen.



Photo 26: View of the western game room.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 27: View of the western multi-purpose room facing south. Note the indications of a fire on the floor.



Photo 28: View of the western multi-purpose room facing north. Note the indications of a fire on the floor.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 29: View of the eastern multi-purpose room facing north.



Photo 30: View of the eastern mechanical room via the exterior entrance.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 31: View of the eastern mechanical room. Note the silt on the floor indicative of water intrusion.



Photo 32: View of electrical equipment and 35-gallon salt drum located within the mechanical room.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 33: View of electrical equipment and 55-gallon general refuse drum located within the mechanical room.



Photo 34: View of incinerators located within the mechanical room.



Photo 35: View of air compressor located within the mechanical room.



Photo 36: View of de minimis surface staining below the air compressor.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 37: View of northern adjoining property – residence (174 Lenox).



Photo 38: View of northern adjoining property – residence (175 Riverside).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 39: View of northern adjoining property – residence (174 Riverside).



Photo 40: View of northern adjoining property – residence (175 Piper).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 41: View of northern adjacent property – residence (174 Piper).



Photo 42: View of eastern adjoining property – Alfred Brush Ford Park.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 43: View of southern adjoining property – Detroit River.



Photo 44: View of western adjoining property – vacant land (101 Lenox).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 45: View facing south along the western property boundary.



Photo 46: View of a typical stormwater catch basin.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 47: View of western adjacent property across railroad tracks – residence (46692 Oak Pointe Drive).



Photo 48: View of western adjacent property across railroad tracks – residence (46676 Oak Pointe Drive).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 49: View of western adjacent property across railroad tracks – residence (46658 Oak Pointe Drive).



Photo 50: View of western adjacent property across railroad tracks – residence (46640 Oak Pointe Drive).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 51: View of western adjacent property across railroad tracks – residence (46624 Oak Pointe Drive).



Photo 52: View of western adjacent property across railroad tracks – residence (46606 Oak Pointe Drive).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



Photo 53: View of western adjacent property across railroad tracks – residence (46588 Oak Pointe Drive).



Photo 54: View of western adjacent property across railroad tracks – residence (46570 Oak Pointe Drive).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
100 Lenox Street
Detroit, Michigan



APPENDIX D
USER PROVIDED DOCUMENTATION



ATTACHMENT
CLIENT/USER QUESTIONNAIRE

Per ASTM Standard Practice E 1527-13, Section 6, User Responsibilities, the User of an ESA has specific obligations for performing tasks during the ESA that will help identify the possibility of recognized environmental conditions in connection with the Site.

Please complete the following and return immediately via email to the attention of: Andrew Temerowski @ andrew.temerowski@oneatlas.com

Site Name: Lenox Center
Site Address: 100 LENOX STREET, DETROIT MI
ATLAS Project:
Number: 188BS21459

Please provide the following information (if available) per the requirements of ASTM E 1527-13.

1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25)

Are you aware of any environmental cleanup liens against the site that are filed or recorded under federal, tribal, state or local law?

Yes [] or No [X]

If yes, please provide a description of the lien(s).

Three horizontal lines for providing a description of the lien(s).

2. Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26)

Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site

and/or have been filed or recorded in a registry under federal, tribal, state or local law?
Yes or No If yes, please provide.

3. Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protections (40 CFR 312.28)

As the user of this ESA do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?
Yes or No If yes, please explain.

4. Relationship of the purchase price to the fair market value of the site if it were not contaminated (40 CFR 312.29)

a. Does the purchase price being paid for this site reasonably reflect the fair market value of the site?
b. Yes or No
N/A

b. If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the site?
Yes or No If yes, please explain.
N/A see above.

5. Commonly known or reasonably ascertainable information about the site (40 CFR 312.30)

Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

a. Do you know the past uses of the site? Yes or No
If yes, please state.

b. Do you know of specific chemicals that are present or once were present at the site?
Yes or No If yes, please state.

c. Do you know of spills or other chemical releases that have taken place at the site?
 Yes or No If yes, please state.

6. Do you know of any environmental cleanups that have taken place at the site?
 Yes or No If yes, please state.

7. The degree of obviousness of the presence or likely presence of contamination at the site, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the user of this ESA, based on your knowledge and experience related to the site are there any obvious indicators that point to the presence or likely presence of contamination at the site?

Yes or No If yes, please explain.

This questionnaire was completed by:

Name Hosam N. Hassanien, PG, CPG

Title Environmental Specialist

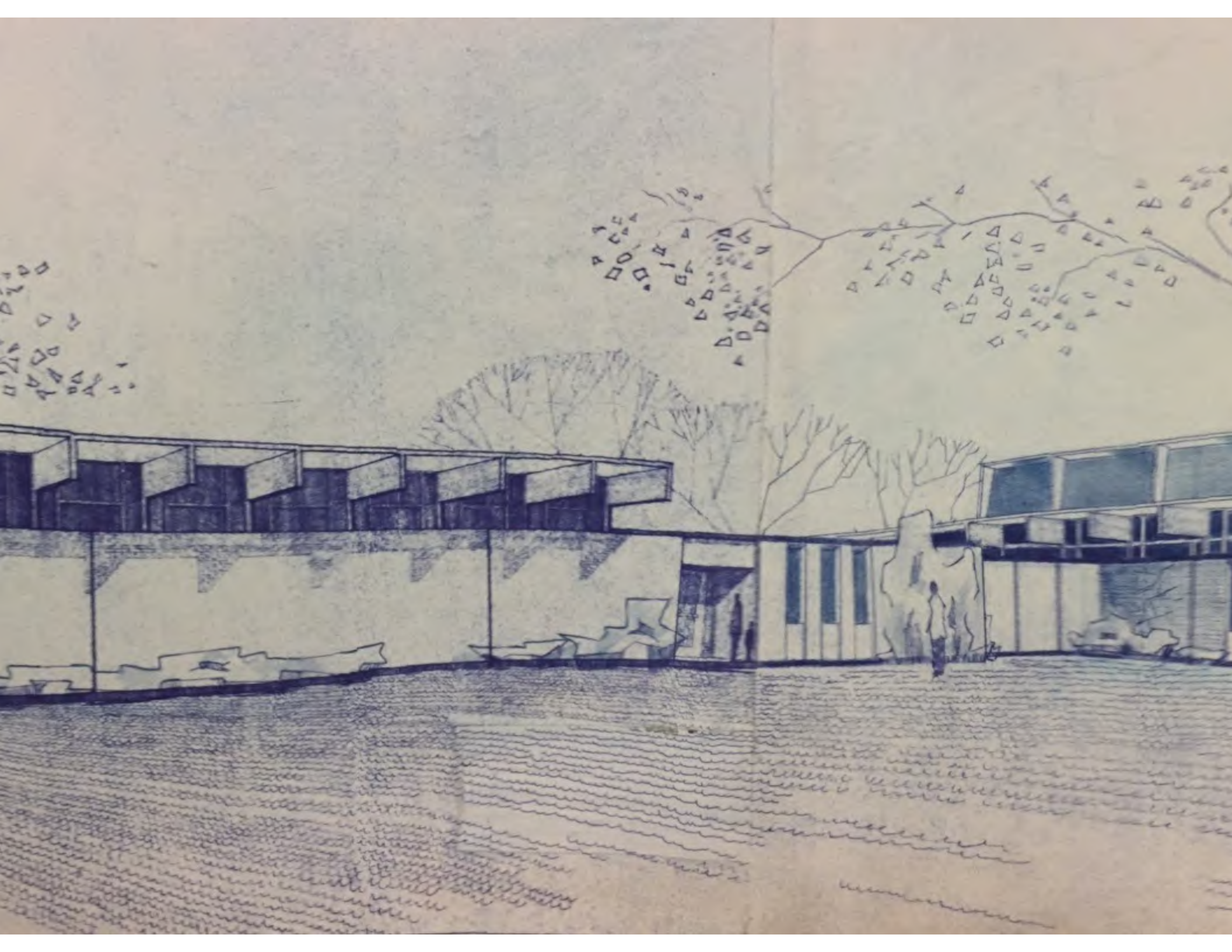
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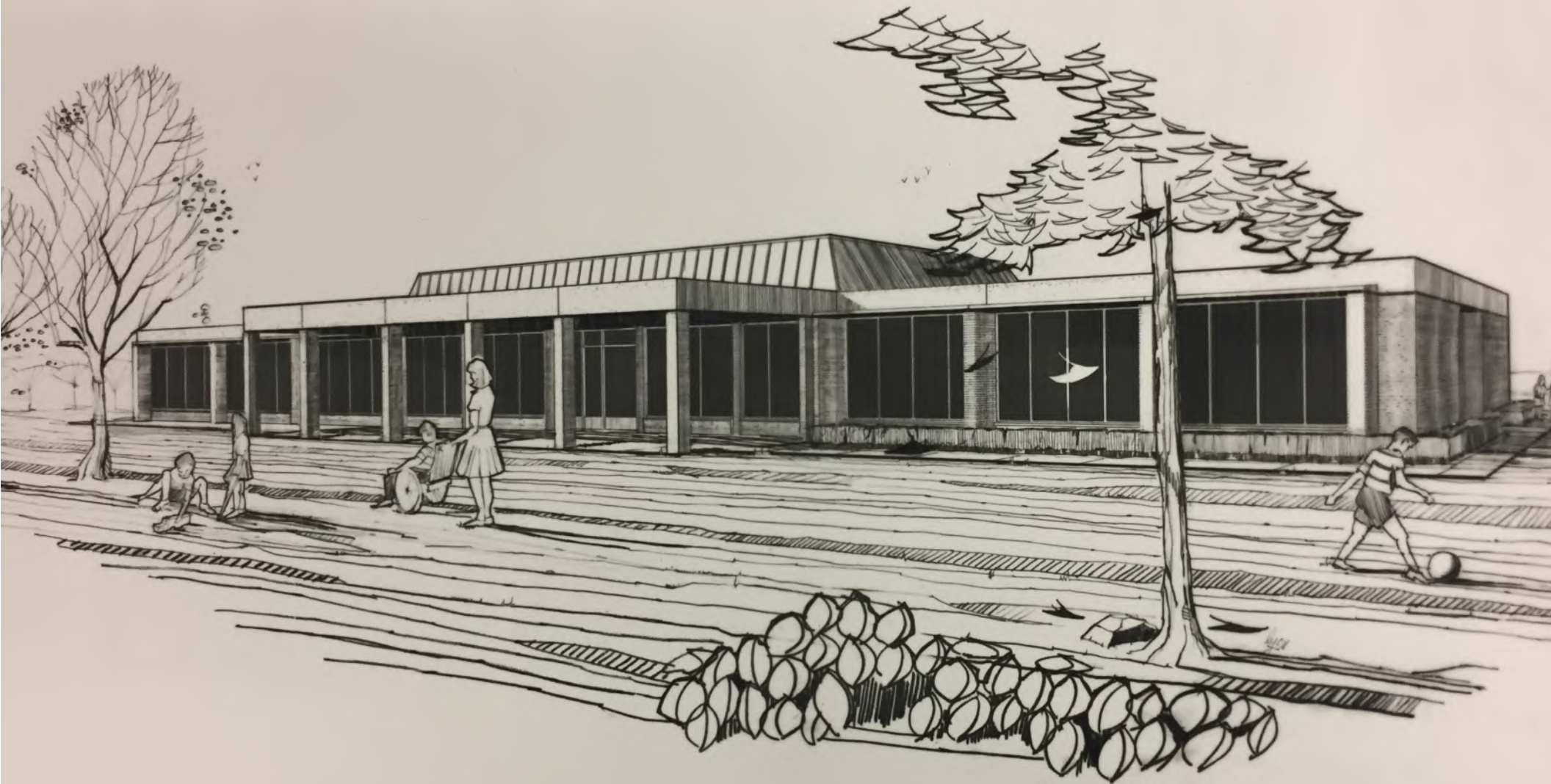
Company of User City of Detroit - Environmental Affairs

Address of User 2 Woodward Avenue, CAYMC Bldg., Suite 401

Detroit, MI 48226

Date 08/18/2021











Indoor and Outdoor Recreation Facilities in All Seasons Are Available at Kiwanis Clubhouse for the Handicapped

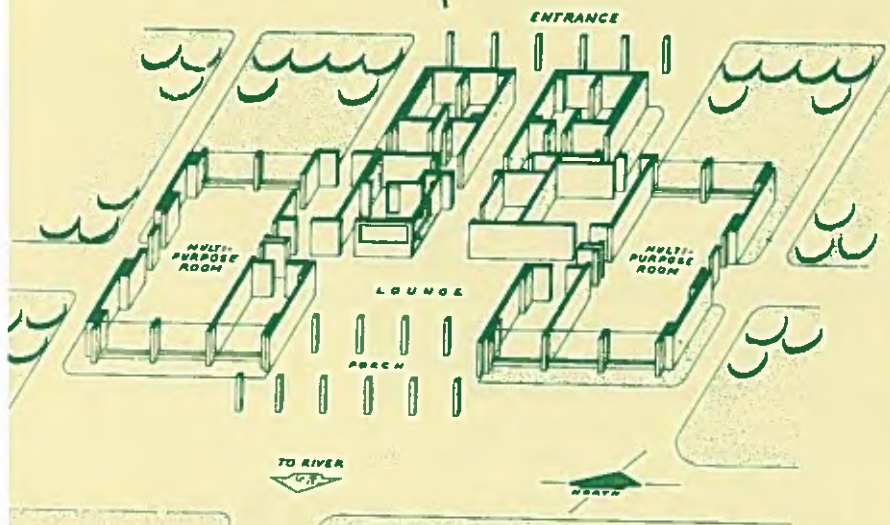
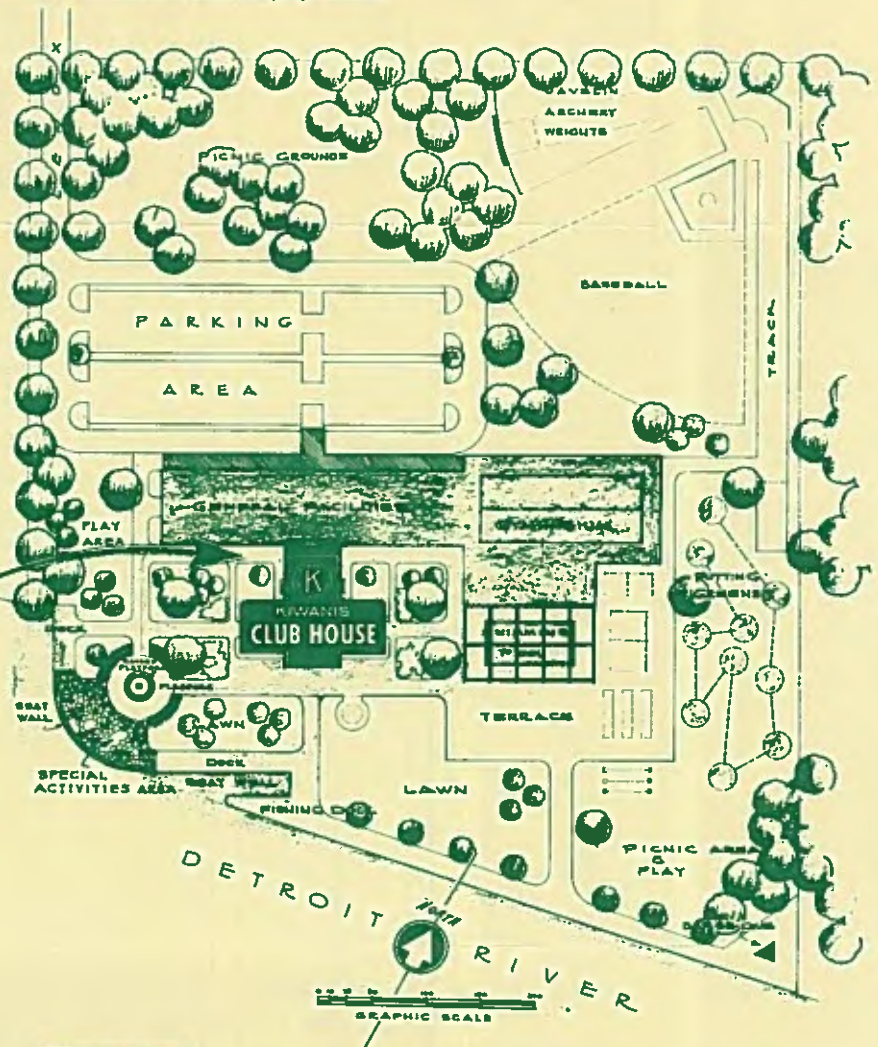
Kiwanis Clubhouse at the foot of Lenox Street on the Detroit River is the only facility of its kind for the handicapped anywhere in the United States. It represents the tangible achievement of Kiwanis members who have cooperated with the Department of Parks and Recreation of the City of Detroit in making the Detroit Recreation Center for the Handicapped possible.

The main clubhouse structure has 300 feet of riverfront and extends 900 feet in depth from the river. Kiwanis Clubhouse provides 5,000 square feet of floor space for meeting rooms, workshops, recreational facilities and equipment.

The clubhouse is the first unit of the Center, which is owned and operated by the Detroit Department of Parks and Recreation.

Funds to complete the clubhouse, and to provide complete exterior and interior furnishings and equipment, are being sought from Kiwanis mem-

bers and from other service, fraternal and civic groups under the direction of Kiwanis Metropolitan Council, Detroit. Among the uses to which funds will be put are for outdoor play equipment, kitchen appliances, wheelchairs, color TV sets, film projectors, office furniture and equipment.



Why You Should Donate to This Great Project

If physical fitness is important to anyone, it is proportionately *much more* important to the handicapped person. The lack of accessible or usable recreational facilities and equipment has been an important deterrent to participation of the handicapped in healthful group activities. Kiwanis Clubhouse is a long step forward to fill a real void in the lives of the handicapped of all ages in the Metropolitan Area.

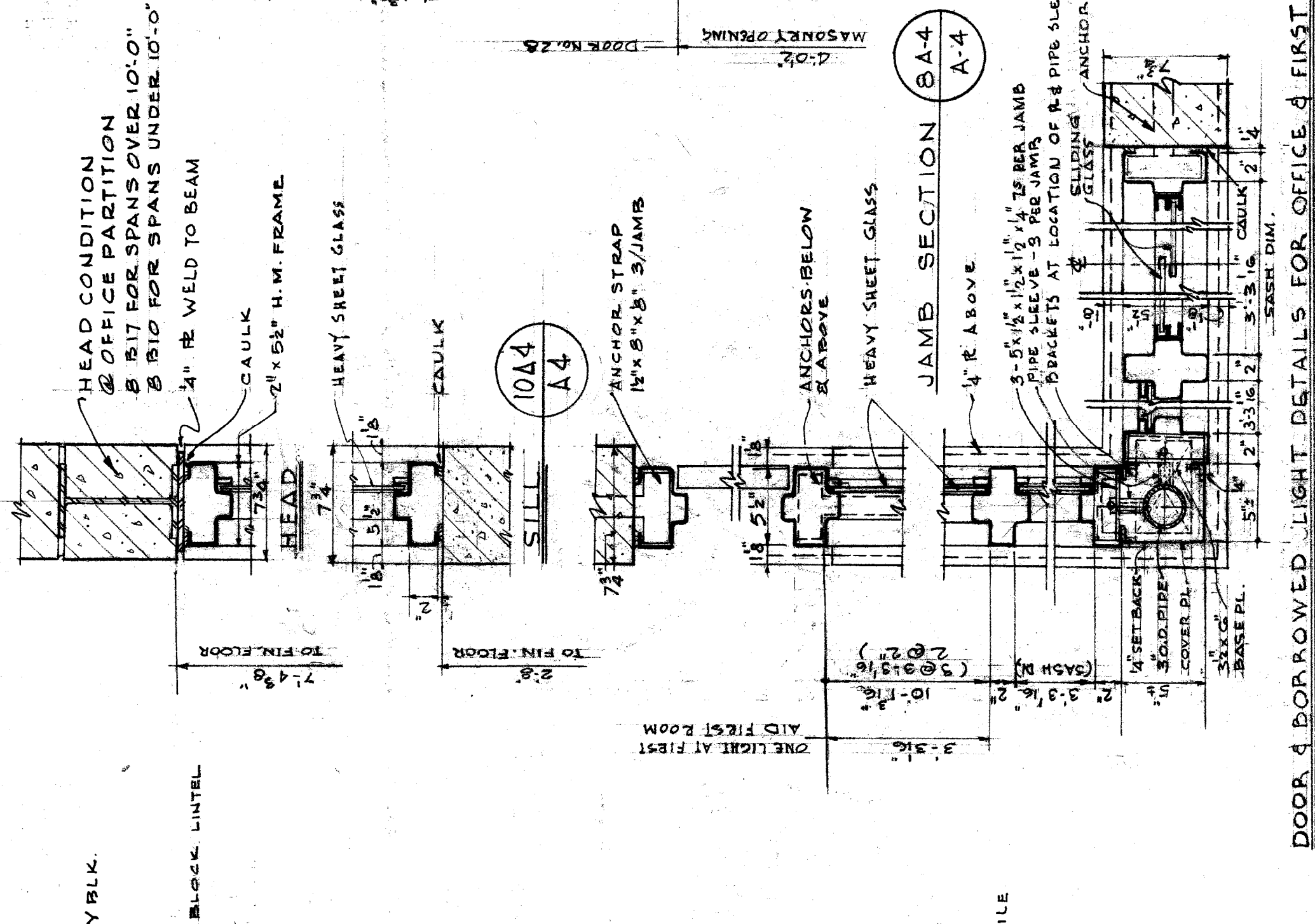
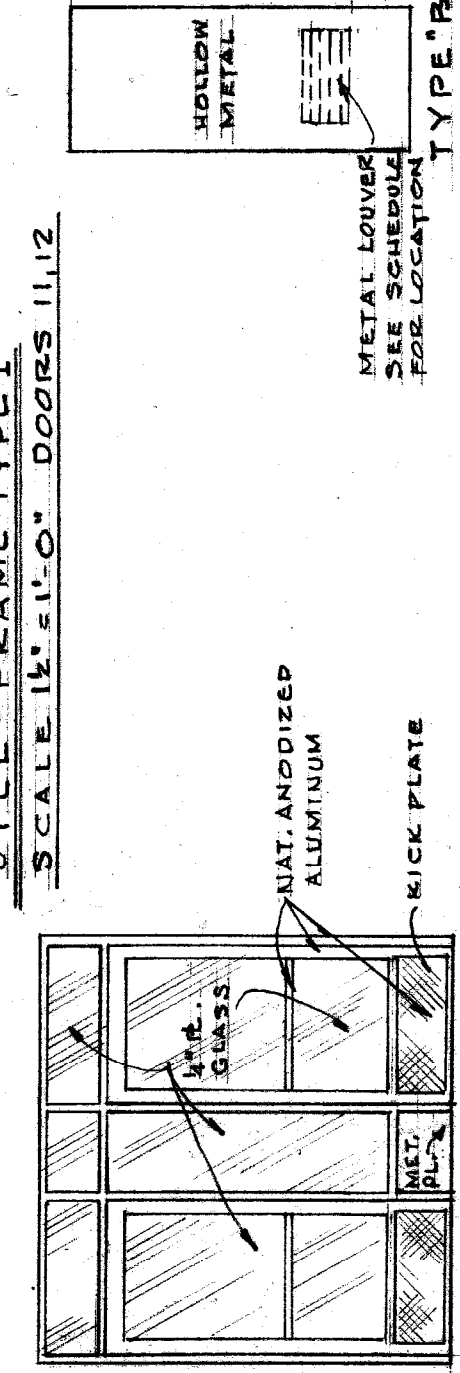
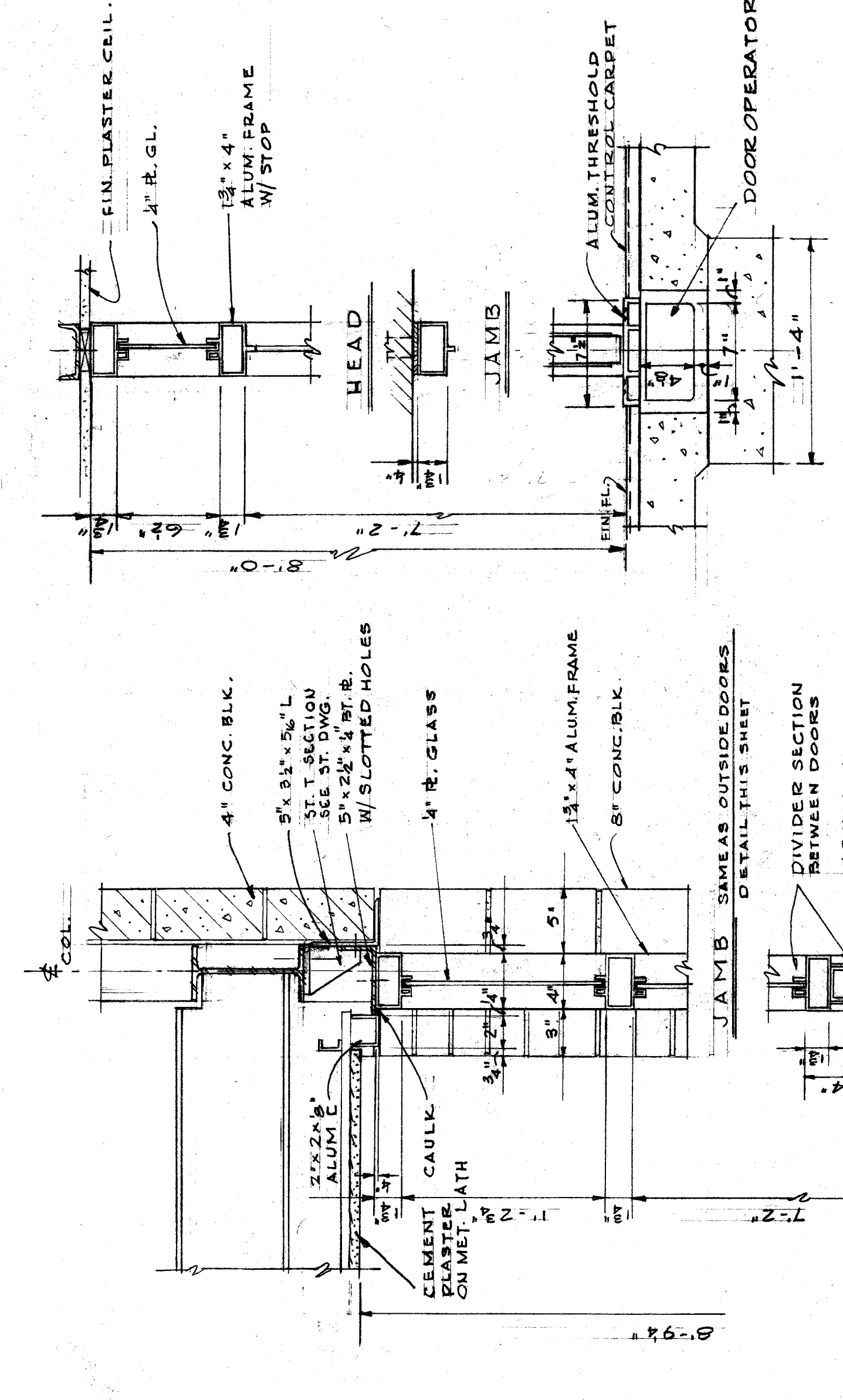
This is your opportunity to participate in a tremendous community project. Decide upon the extent of your individual or organization donation, then let Detroit Kiwanis Metropolitan Council know what kind of help we can expect from you. But do it NOW!

R O O M F I N I S H S C H E D U L E

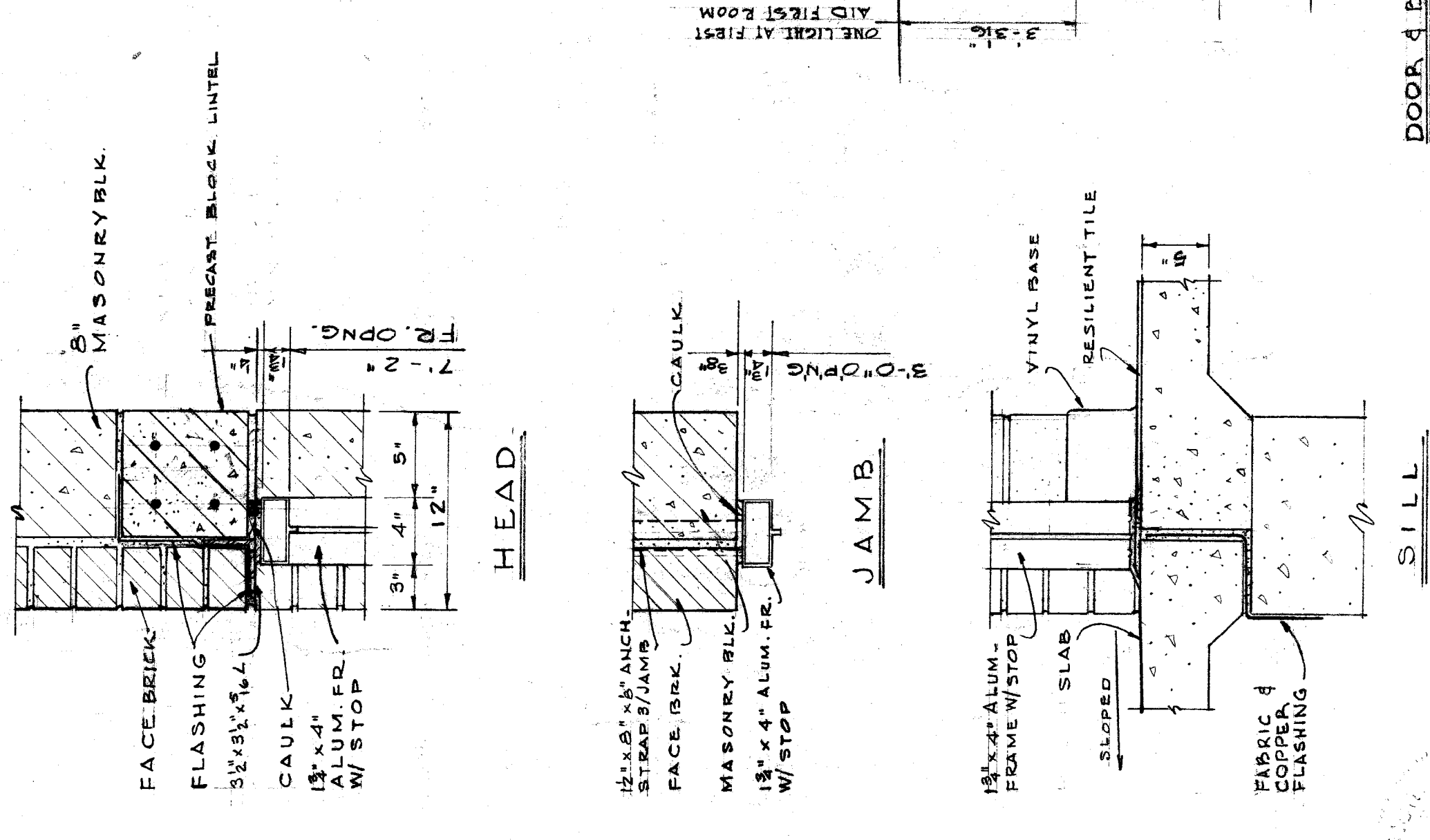
Rm No.	FLOOR				WALLS				CEILINGS			
	MATERIAL	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	HEIGHT	MATERIAL	FINISH
101	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
102	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
103	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
104	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
105	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
106	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
107	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
108	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
109	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
110	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
111	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
112	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
113	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
114	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
115	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
116	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
117	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
118	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
119	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
120	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED
121	RESILIENT TILE	CONCRETE	CERAMIC TILE	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	PAINTED	EXPOSED B.L.K.	EXPOSED STL.	8'-0"	FACTORY FIN.	PAINTED

SEE DETAILS FOR WOOD PANELLING

SEE DETAILS FOR WOOD PANELLING



FLOOR JOINT DETAIL
TOILET ROOMS
SCALE - FULL SIZE



DOOR & BORROWED LIGHT DETAILS FOR OFFICE & FIRST AID ROOMS
SCALE 1/8" = 1'-0"
FRAME TYPE 2
DOOR NO'S 22, 23

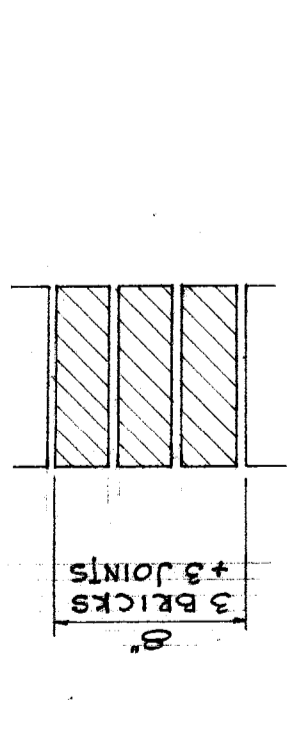
FRAME TYPE 1
SCALE 1/8" = 1'-0"
DOOR NO'S 5, 6, 7, 8, 13, 14, 17, 18

NOTE: FOR DUCT OPENINGS OR OPENINGS NOT DETAILED PROVIDE 3/8" x 3/8" ANGLE LINTEL FOR EACH 4" OF WALL THICKNESS.

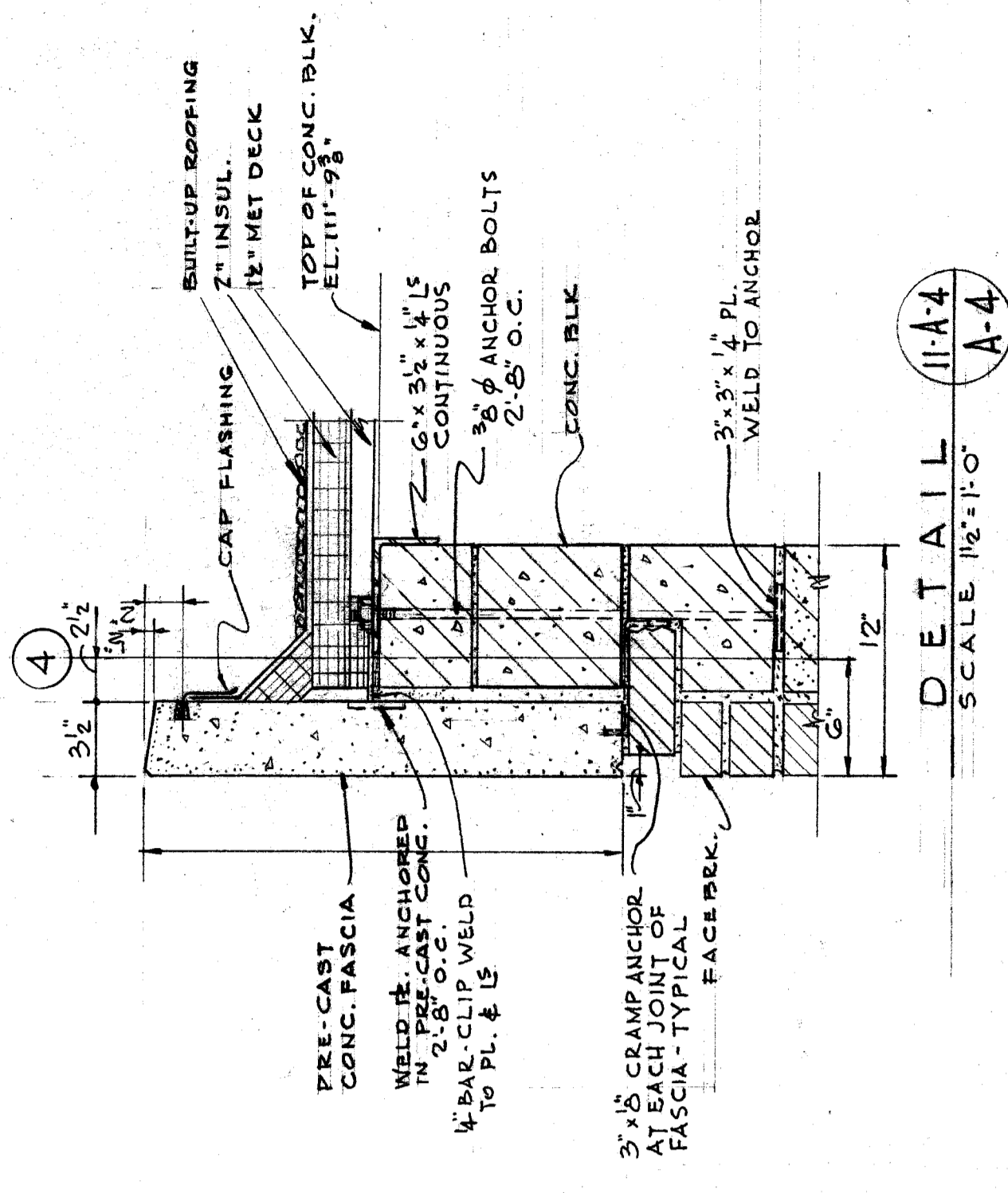
D O O R S S C H E D U L E

LOCATION	DOOR SIZE	TYPE	MATERIAL	FINISH	WORK	REMARKS	FRAME	OPG	TYPE	DEPT.	MATERIAL	FINISH	THRESH	REMARKS
1 NORTH PORCH 120 TO VESTIBULE	5'-0" x 7'-0"	A	ALUM.	N. HAND	9		3'-0" x 7'-0"	1	4"	ALUM.	N. HAND	ALUM.		
2 VESTIBULE TO LOBBY	3'-0" x 7'-0"	A	ALUM.	"	9		3'-0" x 7'-0"	1	4"	"	"	"		
3 N. PORCH 120 TO VESTIBULE	3'-0" x 7'-0"	A	ALUM.	"	9		3'-0" x 7'-0"	1	4"	"	"	"		
4 VEST. TO LOBBY	3'-0" x 7'-0"	A	ALUM.	"	9		3'-0" x 7'-0"	2	4"	"	"	"		
5 EXTERIOR TO WOMEN'S COAT RM.	2'-11 1/2" x 7'-0"	B	H.M.	ENAM.	1		3'-0" x 7'-0"	2	4"	"	"	"		
6 EXTERIOR TO KITCHEN	2'-11 1/2" x 7'-0"	B	H.M.	"	1		3'-0" x 7'-0"	2	4"	"	"	"		
7 EXT. TO MULTI-PURPOSE RM. 107	2'-11 1/2" x 7'-0"	B	H.M.	"	6		3'-0" x 7'-0"	2	4"	"	"	"		
8 EXT. TO MULTI-PURPOSE RM. 107	2'-11 1/2" x 7'-0"	B	H.M.	"	6		3'-0" x 7'-0"	2	4"	"	"	"		
9 MULTI-PURPOSE RM. 107 TO CORR.	2'-11 1/2" x 7'-0"	B	H.M.	"	5		3'-0" x 7'-0"	2	4"	"	"	"		
10 MULTI-PURPOSE RM. 107 TO CORR.	2'-11 1/2" x 7'-0"	B	H.M.	"	5		3'-0" x 7'-0"	2	4"	"	"	"		
11 SOUTH PORCH 121 TO LOUNGE	2'-11 1/2" x 7'-0"	A	ALUM.	N. HAND	7		3'-0" x 7'-0"	1	4"	ALUM.	N. HAND	ALUM.		
12 S. PORCH 121 TO LOUNGE	2'-11 1/2" x 7'-0"	A	ALUM.	"	7		3'-0" x 7'-0"	1	4"	"	"	"		
13 EXT. TO MULTI-PURPOSE RM. III	2'-11 1/2" x 7'-0"	B	H.M.	ENAM.	6		3'-0" x 7'-0"	2	4"	"	"	"		
14 EXT. TO MULTI-PURPOSE RM. III	2'-11 1/2" x 7'-0"	B	H.M.	"	6		3'-0" x 7'-0"	2	4"	"	"	"		
15 MULTI-PURPOSE RM. III TO CORR.	2'-11 1/2" x 7'-0"	B	H.M.	"	5		3'-0" x 7'-0"	2	4"	"	"	"		
16 MULTI-PURPOSE RM. III TO CORR.	2'-11 1/2" x 7'-0"	B	H.M.	"	5		3'-0" x 7'-0"	2	4"	"	"	"		
17 EXTERIOR TO MECHANICAL RM.	2'-11 1/2" x 7'-0"	B	H.M.	"	1		3'-0" x 7'-0"	2	4"	"	"	"		
18 EXT. TO MEN'S COAT RM.	2'-11 1/2" x 7'-0"	B	H.M.	"	1		3'-0" x 7'-0"	2	4"	"	"	"		
19 PASSAGE TO JANITOR'S CLOSET	2'-11 1/2" x 7'-0"	B	H.M.	"	1		3'-0" x 7'-0"	2	4"	"	"	"		
20 PASSAGE TO FIRST AID RM.	2'-11 1/2" x 7'-0"	B	H.M.	"	2		3'-0" x 7'-0"	2	4"	"	"	"		
21 CLOSET TO OFFICE	2'-7 1/2" x 7'-0"	C	H.M.	"	5		3'-0" x 7'-0"	2	4"	"	"	"		
22 OFFICE TO OFFICE	2'-7 1/2" x 7'-0"	C	H.M.	"	5		3'-0" x 7'-0"	2	4"	"	"	"		
23 LOUNGE TO OFFICE	2'-7 1/2" x 7'-0"	C	H.M.	"	2		3'-0" x 7'-0"	2	4"	"	"	"		
24 CORRIDOR TO KITCHEN	2'-7 1/2" x 7'-0"	C	H.M.	"	2		3'-0" x 7'-0"	2	4"	"	"	"		
25														
26 LOBBY TO STORAGE RM.	2'-7 1/2" x 7'-0"	B	H.M.	"	3		3'-0" x 7'-0"	2	4"	"	"	"		
27 AIR PLENUM TO MECH. RM.	1'-8" x 7'-0"	B	H.M.	"	4		3'-0" x 7'-0"	2	4"	"	"	"		
28 KITCHEN TO MULTI-PURPOSE RM. 107	3'-0" x 7'-0"	B	H.M.	"	6		3'-0" x 7'-0"	2	4"	"	"	"		

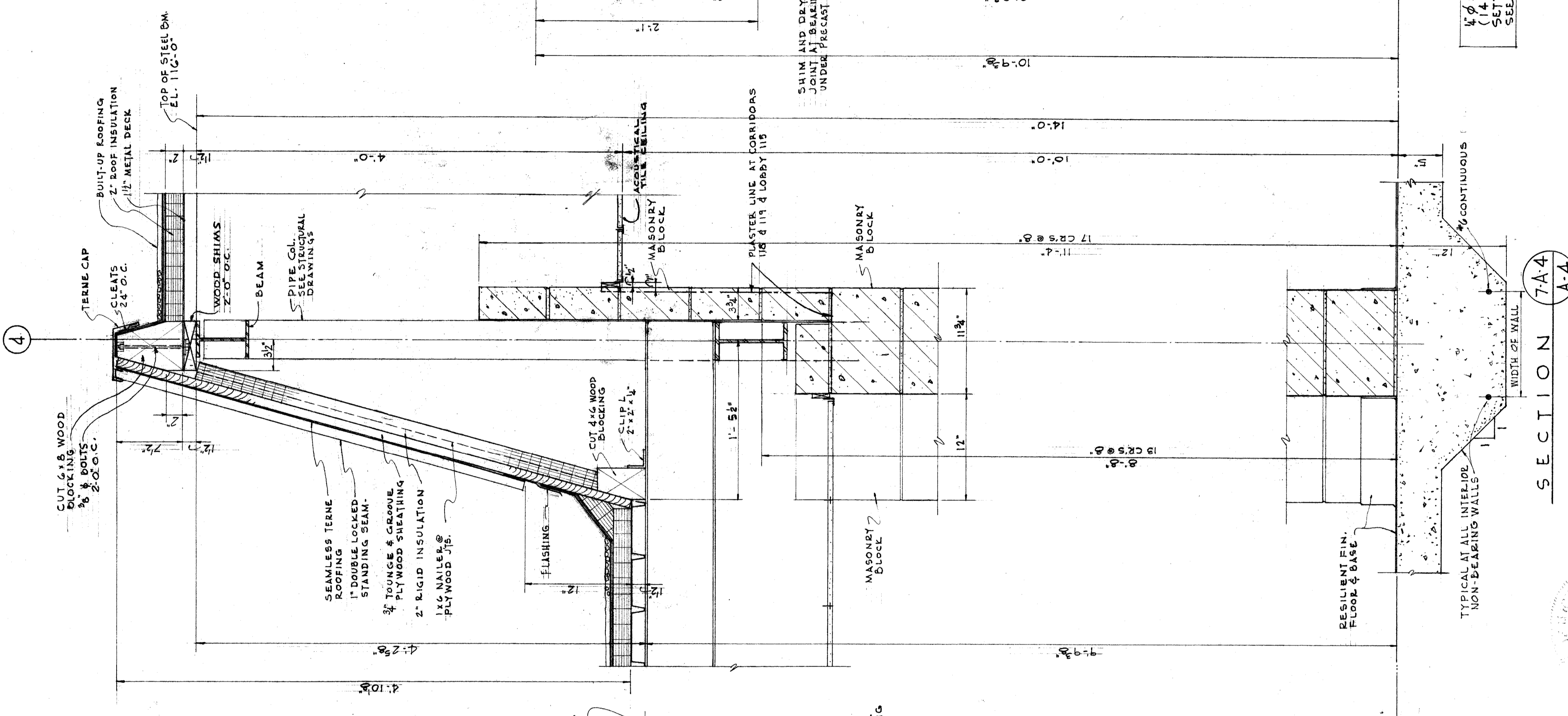
DRWN	W.B. J.S.	ARCHITECT	CORNELIUS L.T. GABLER A.I.A. AND ASSOCIATES	PREPARED BY	DEPARTMENT OF DETROIT CITY ENGINEERS WORKS
TRD		ENGINEER	ARCHITECTS AND ENGINEERS	JOB NO.	6611
CHKD				DESCRIPTION	ROOM & DOOR SCHEDULE
APVD				REVISIONS	
APVD					



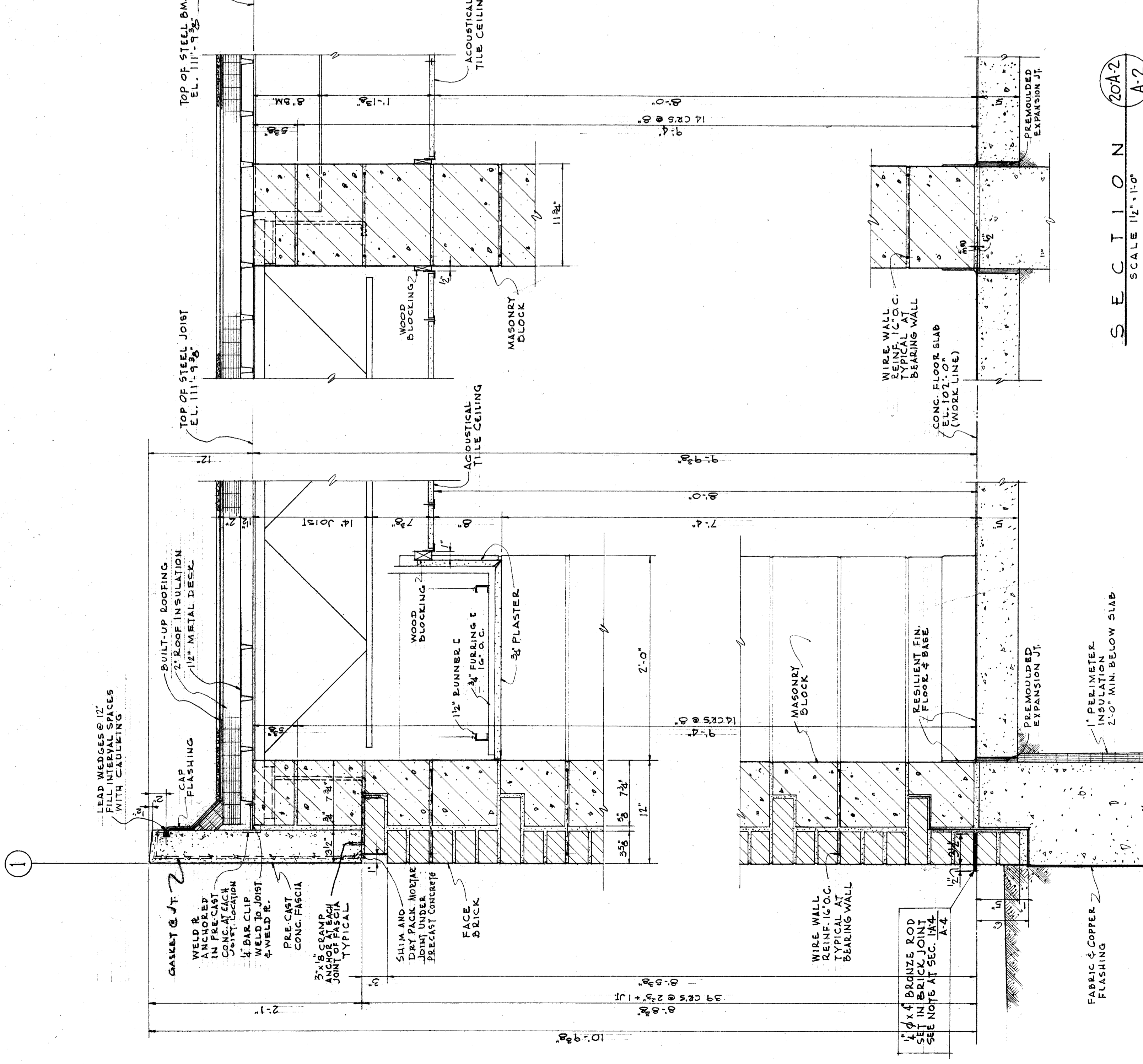
TYPICAL BRICK DIMENSIONS
MODULAR BRICK SIZE 2 1/4 x 3 1/2 x 7 1/2



DETAIL A-4
SCALE 1/2" = 1'-0"



SECTION 7A4-A4
SCALE 1/2" = 1'-0"



SECTION 3A4-A4
SCALE 1/2" = 1'-0"

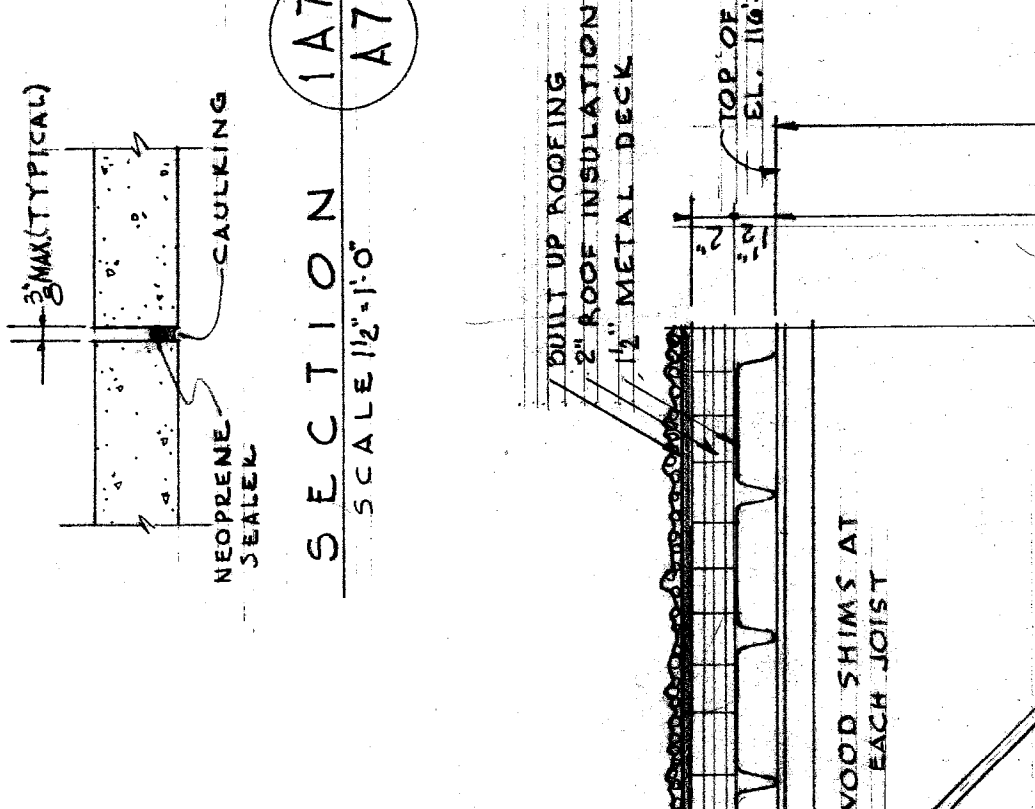
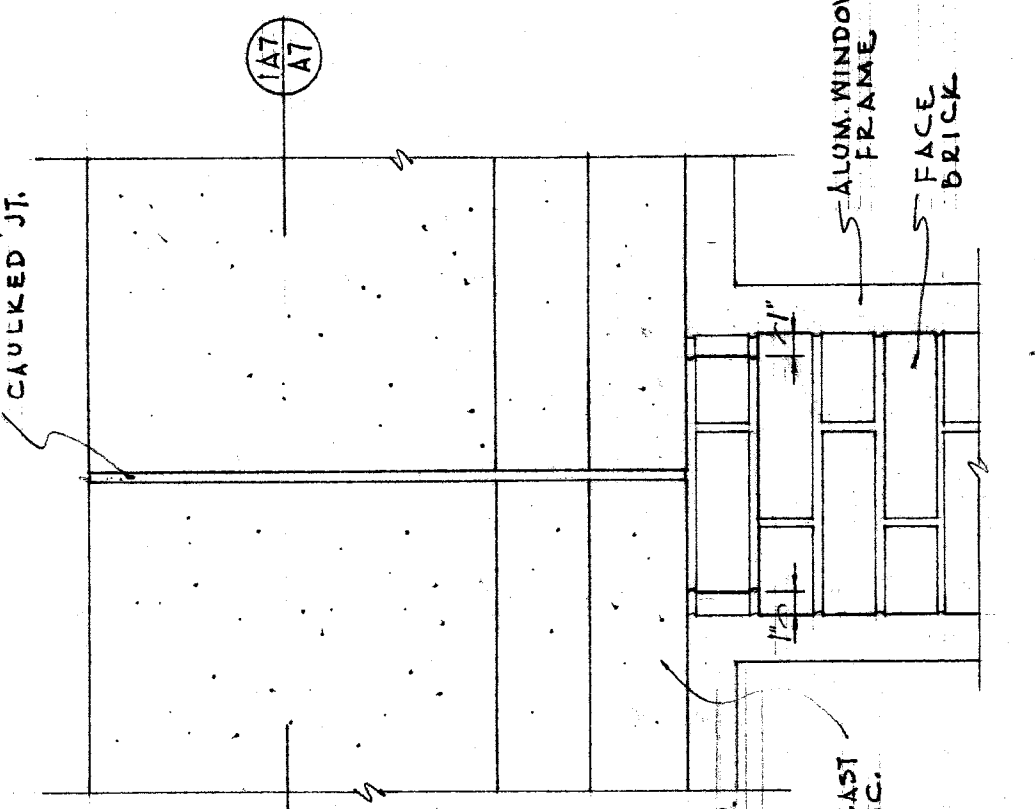
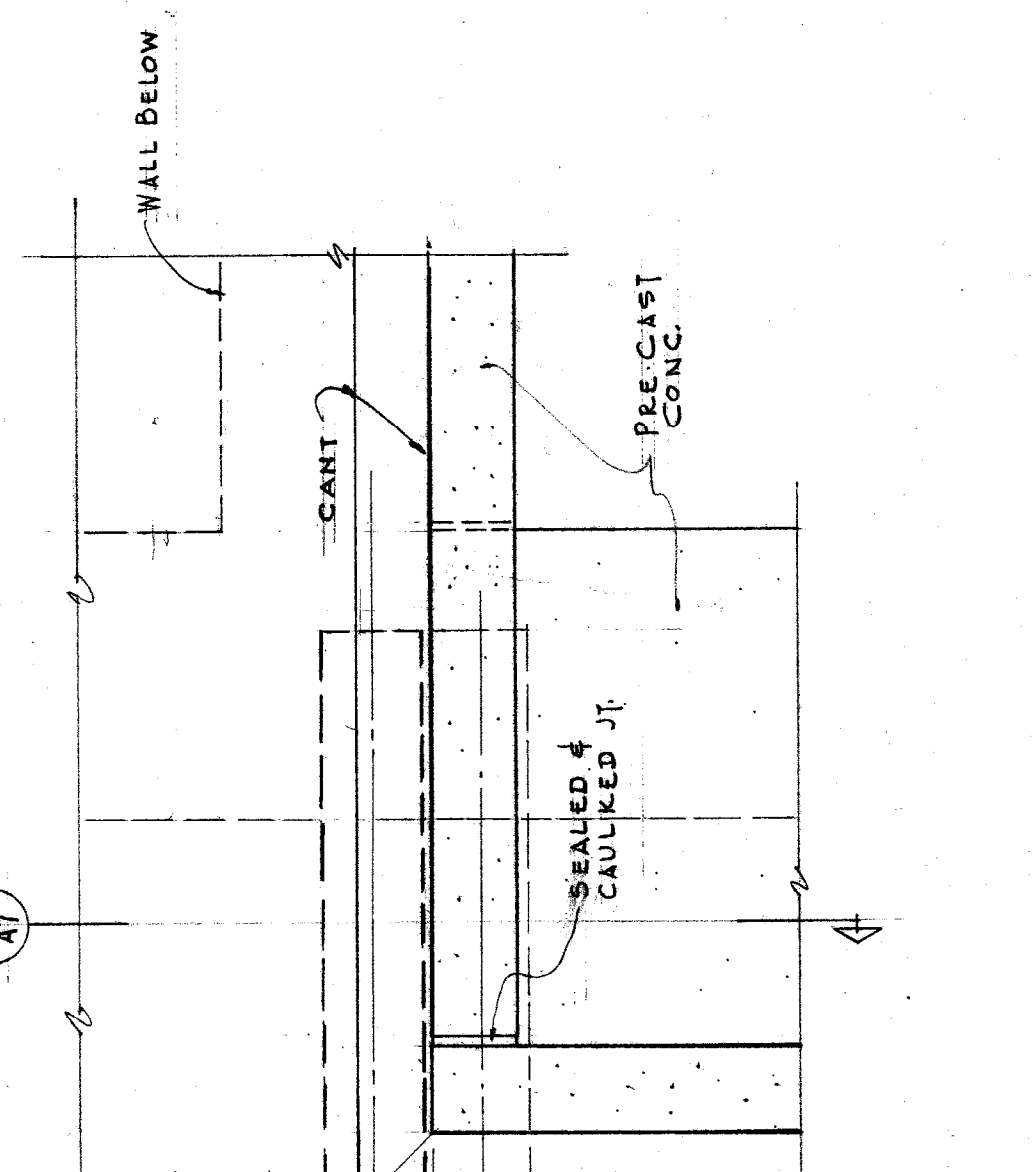
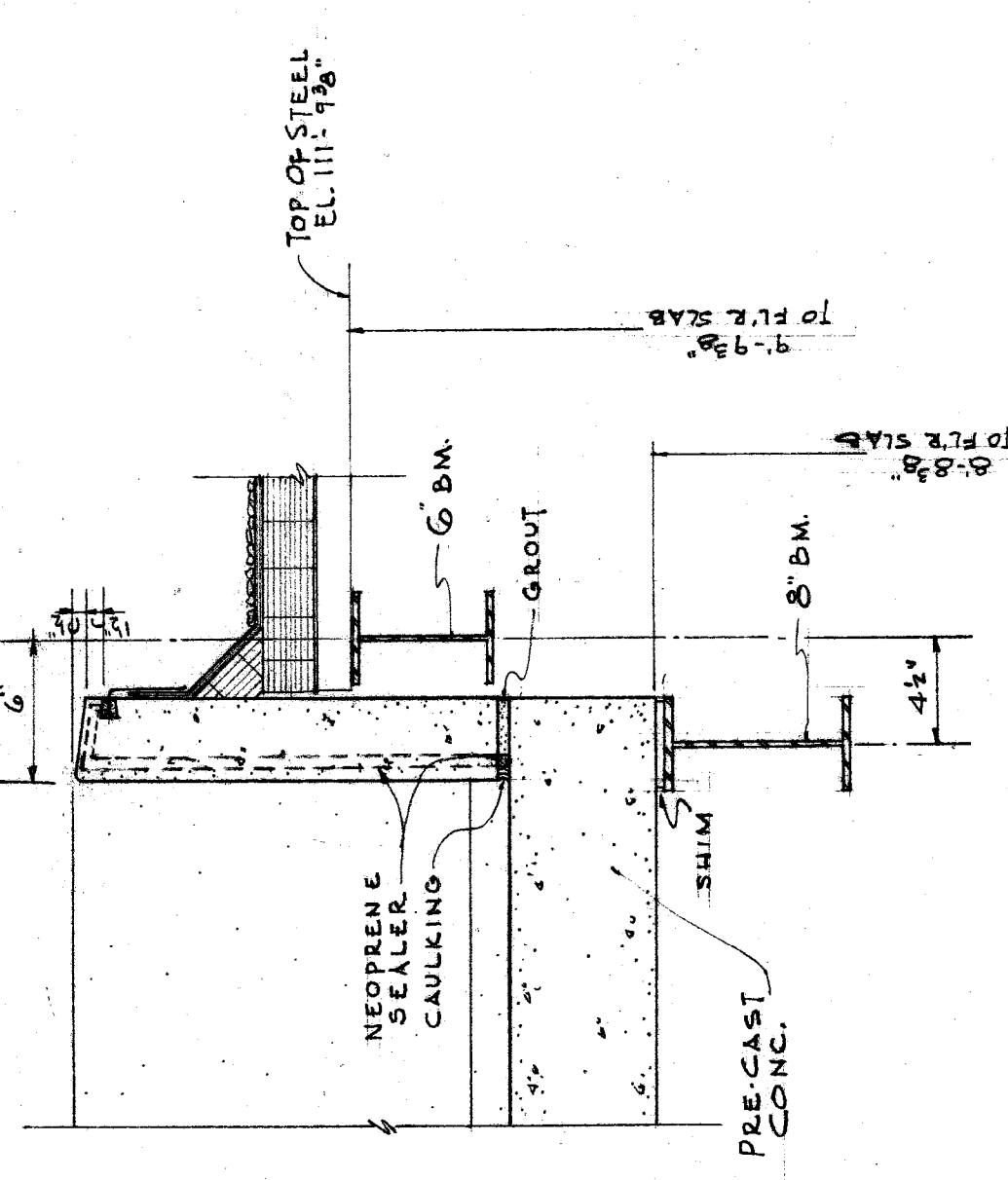
SECTION 20A2-A2
SCALE 1/2" = 1'-0"

NOTE: MINIMUM 8" SOLID MASONRY BEARING UNDER BEAMS, JOIST AND PRECAST CONCRETE.

NO.		DESCRIPTION	DRN (X) (APV) DATE	REFERENCE	APVD
REVISIONS					
PREPARED BY: CORNELIUS L.T. GABLER A.I.A. AND ASSOCIATES ARCHITECTS AND ENGINEERS 3300 BOOK BUILDING - DETROIT - 48226 MICHIGAN					
PREPARED FOR: CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR DEPARTMENT OF PARKS RECREATION					
RECREATION CENTER FOR THE HANDICAPPED WALL SECTION					
SHEET 6 OF 15 SHEETS CONTRACT NO. PR-198 DRAWING NO. A-6 DATE JUNE 30, 1967					



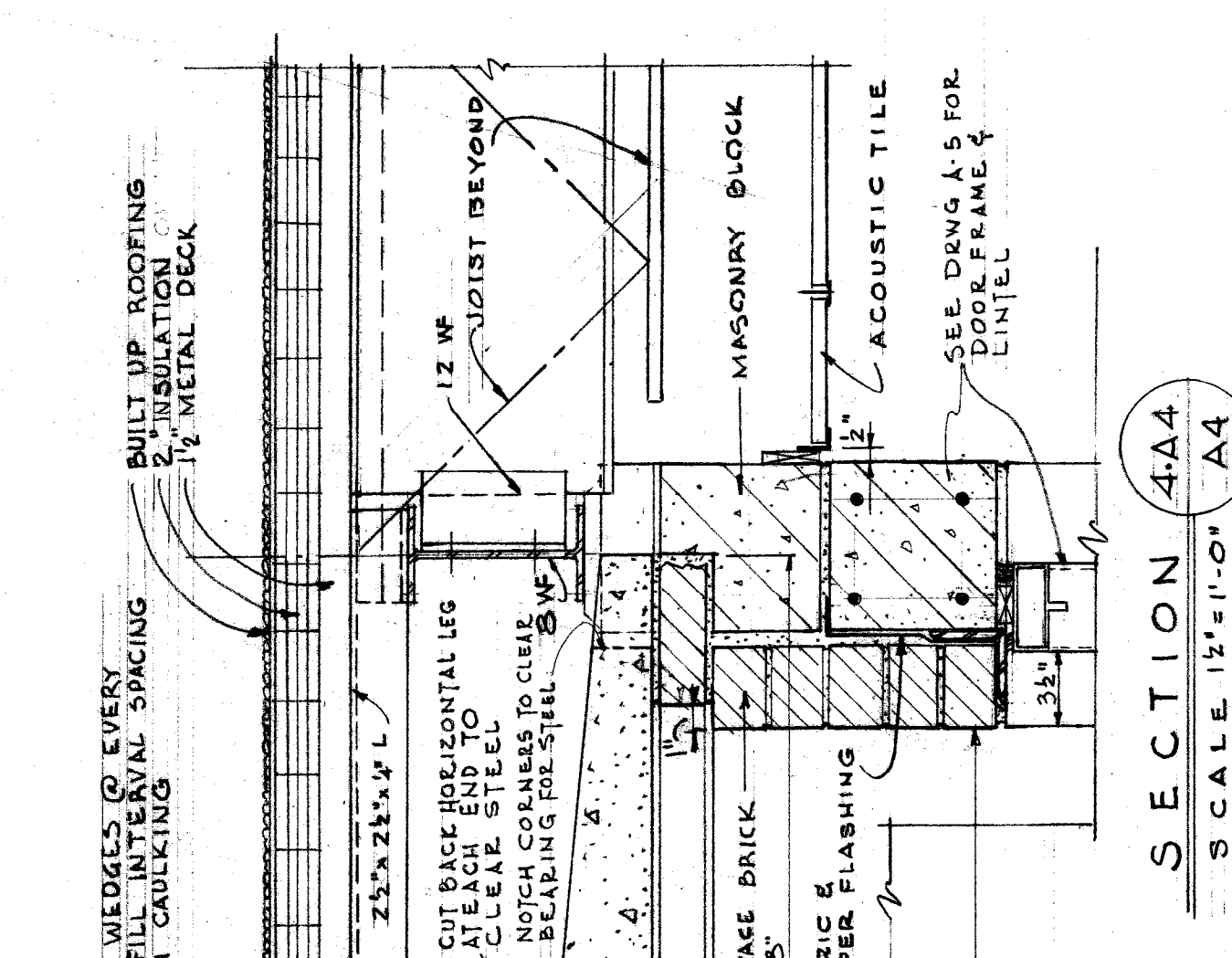
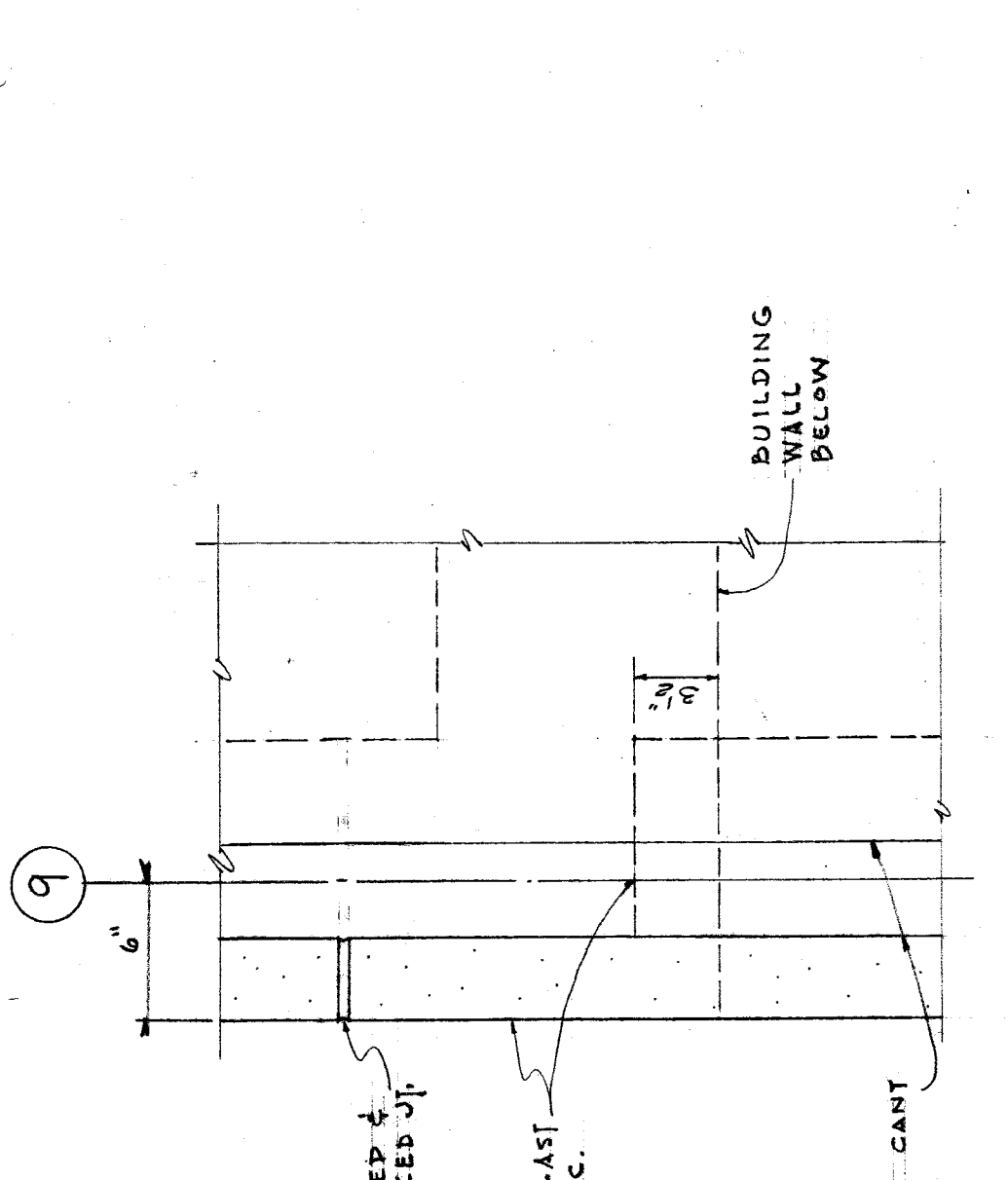
084367910



SECTION 2A7
SCALE 1/2"=1'-0"

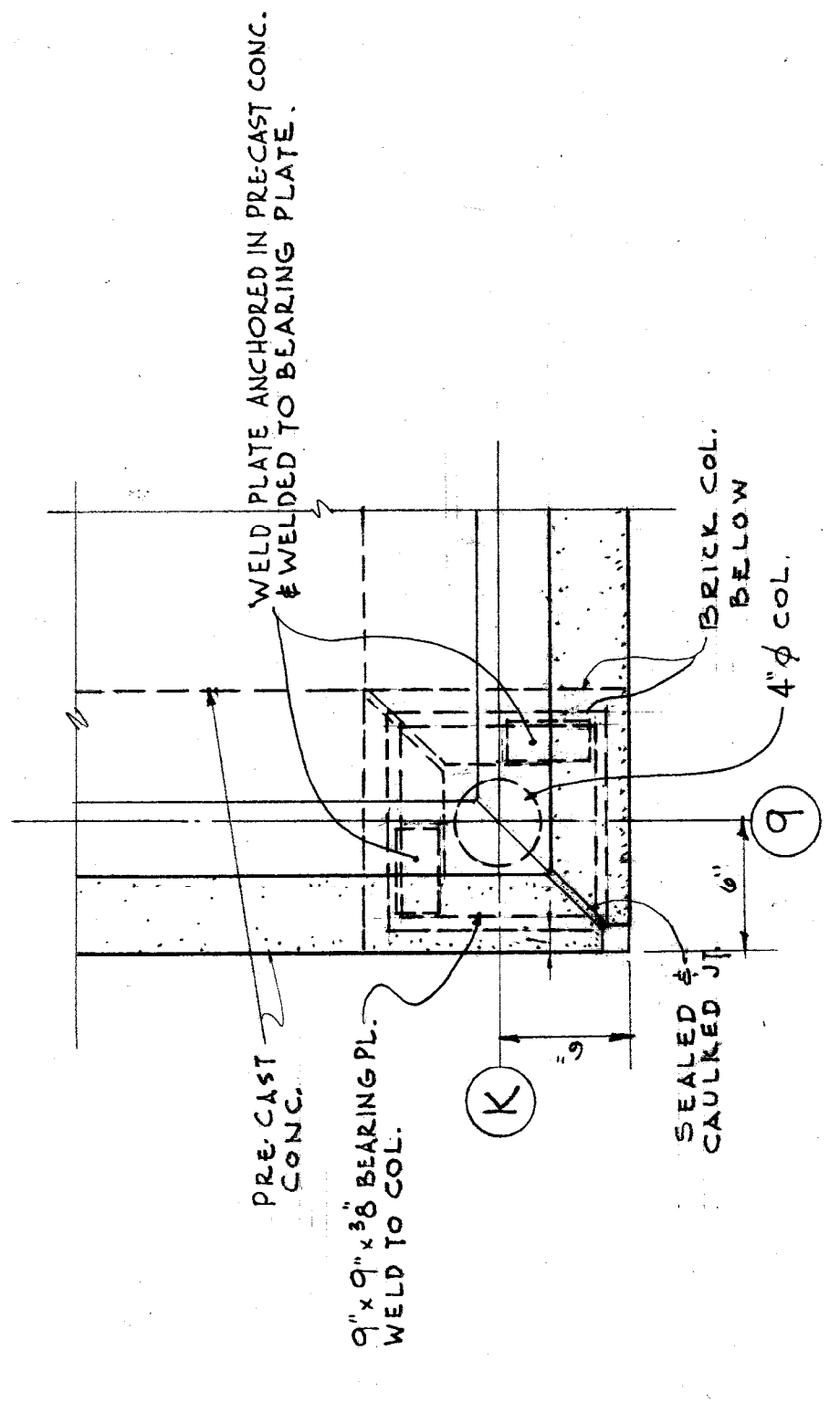
DETAIL 10A2
SCALE 1/2"=1'-0"

DETAIL 5A4
SCALE 1/2"=1'-0"

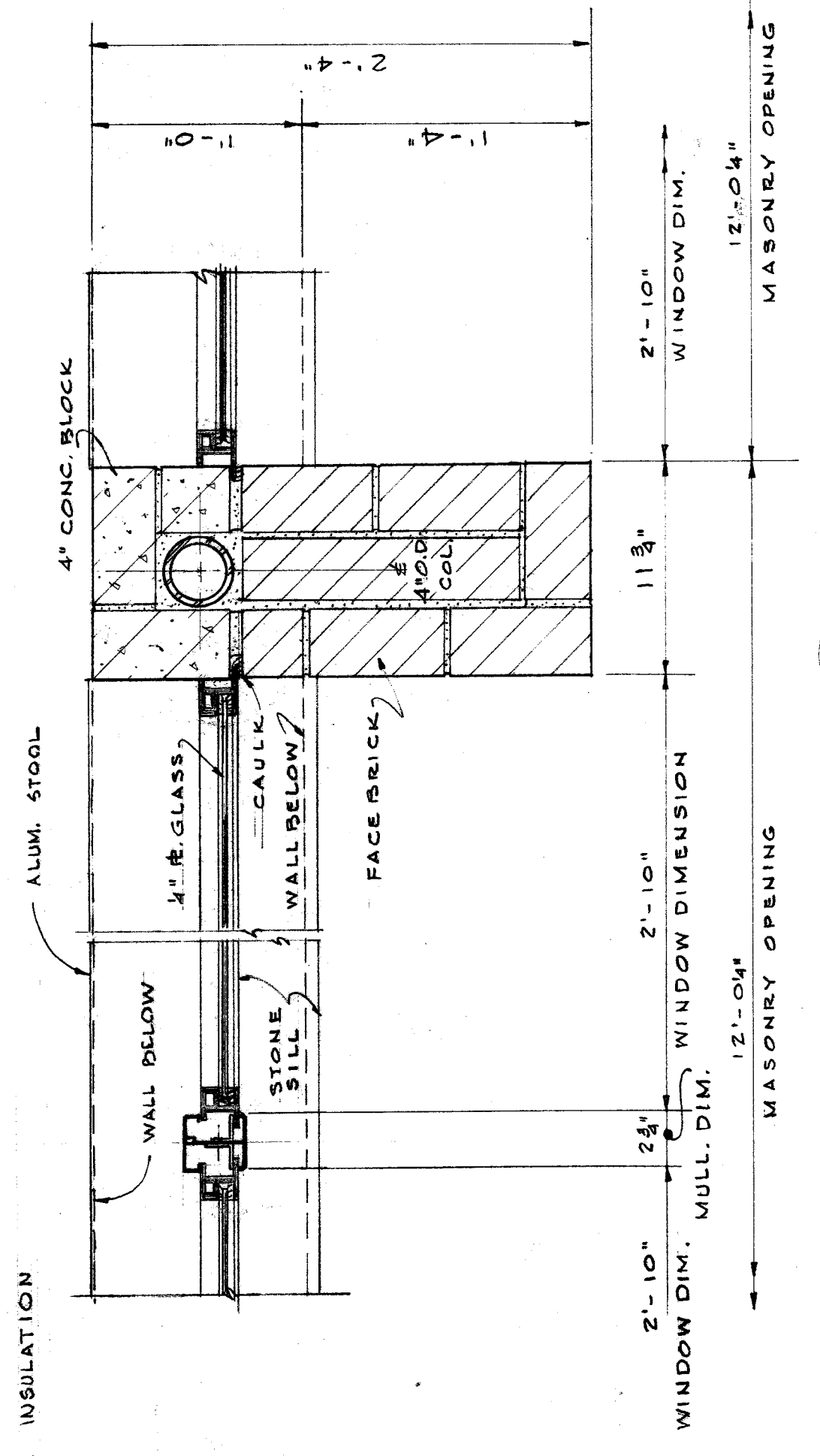


DETAIL 11A2
SCALE 1/2"=1'-0"

SECTION 4A4
SCALE 1/2"=1'-0"

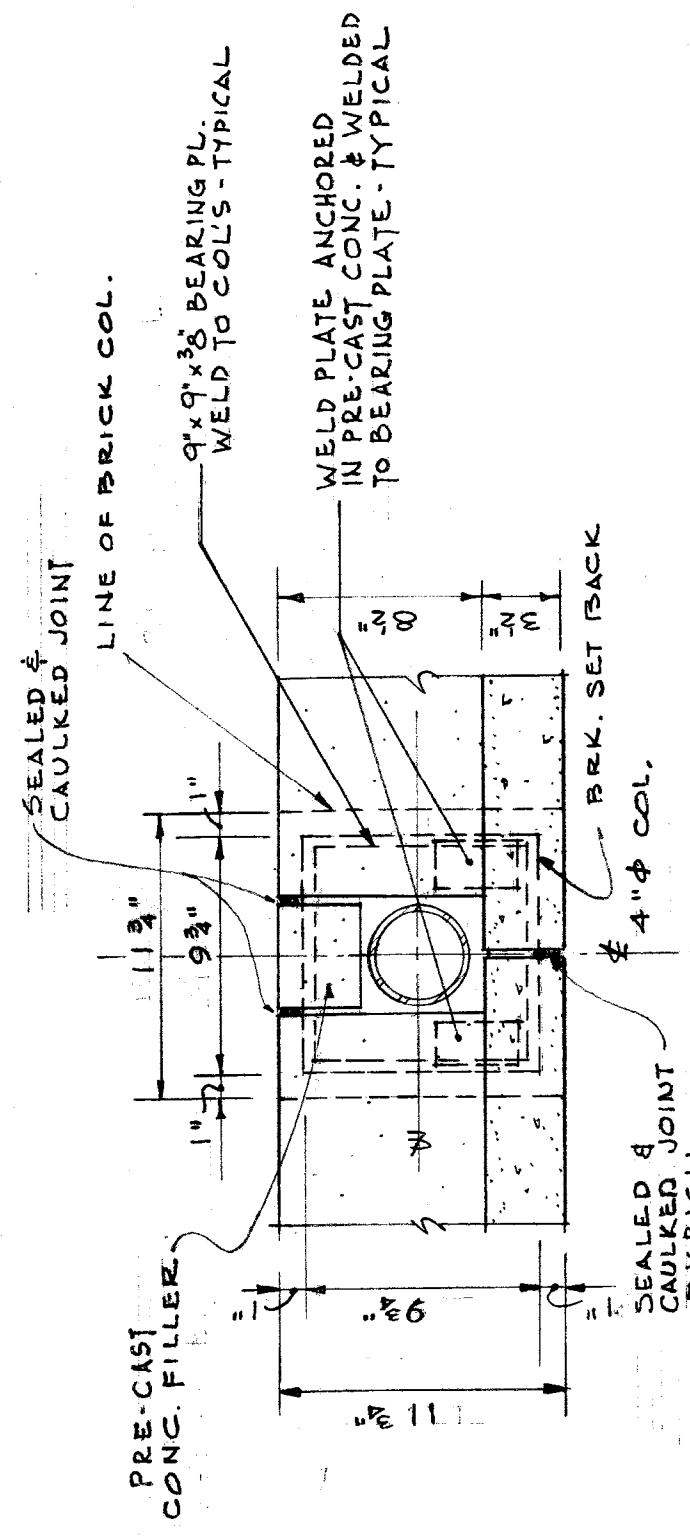


DETAIL 12A2
SCALE 1/2"=1'-0"

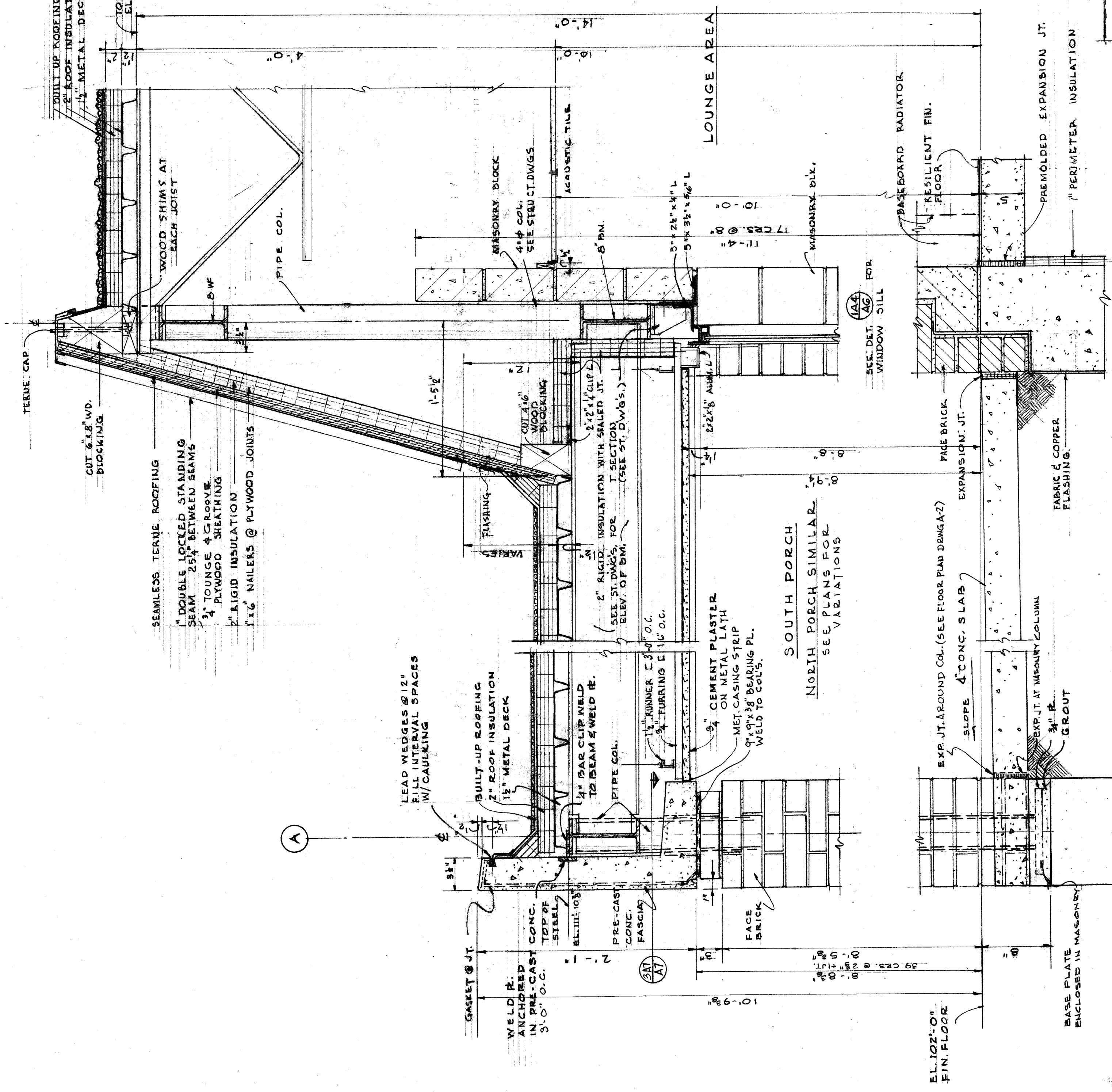


SECTION 2A4
SCALE 1/2"=1'-0"

DETAIL 9A2
SCALE 1/2"=1'-0"



SECTION 3A7
SCALE 1/2"=1'-0"



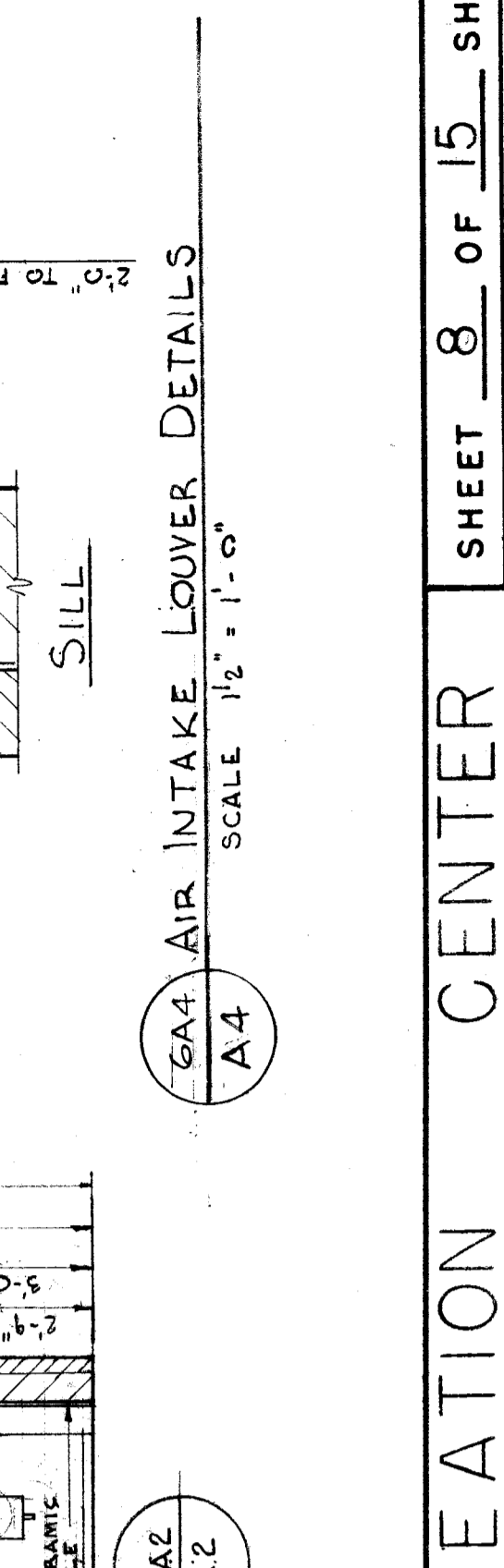
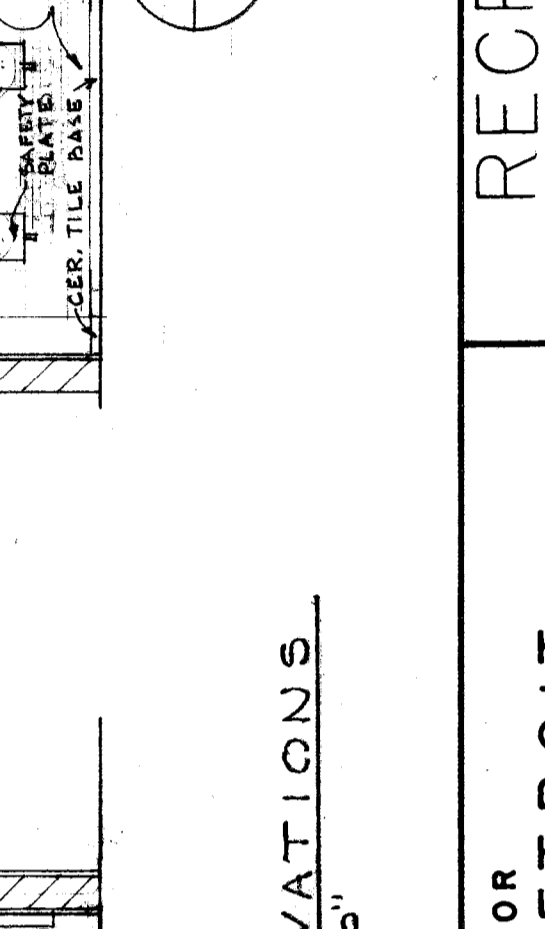
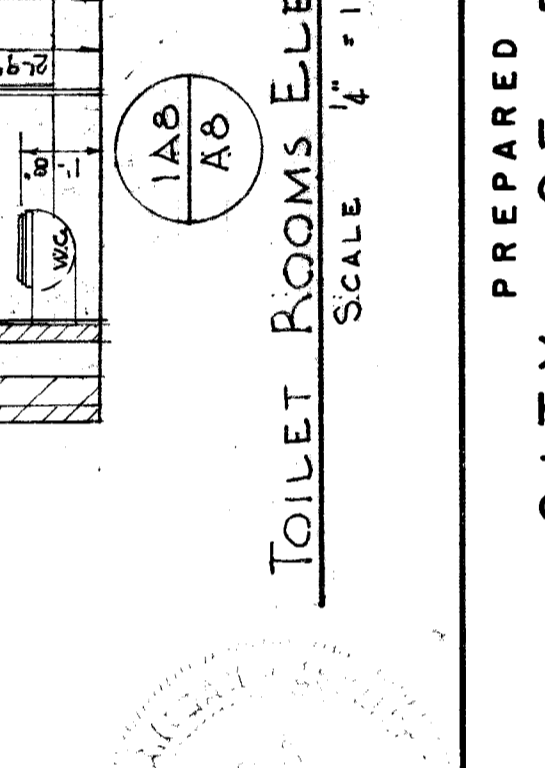
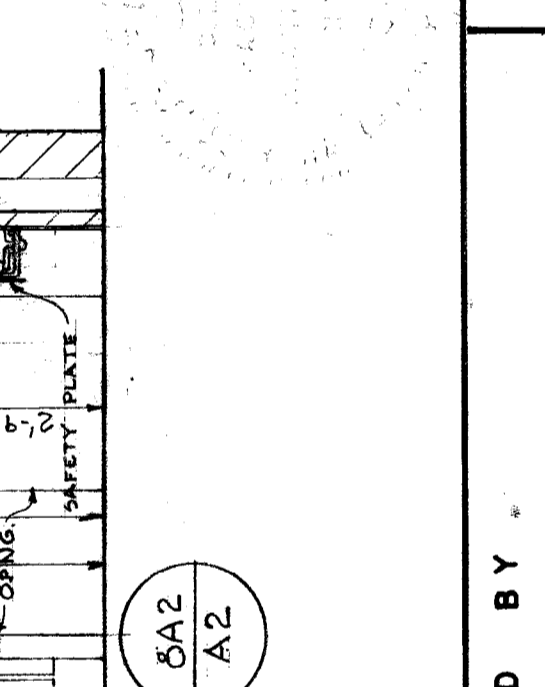
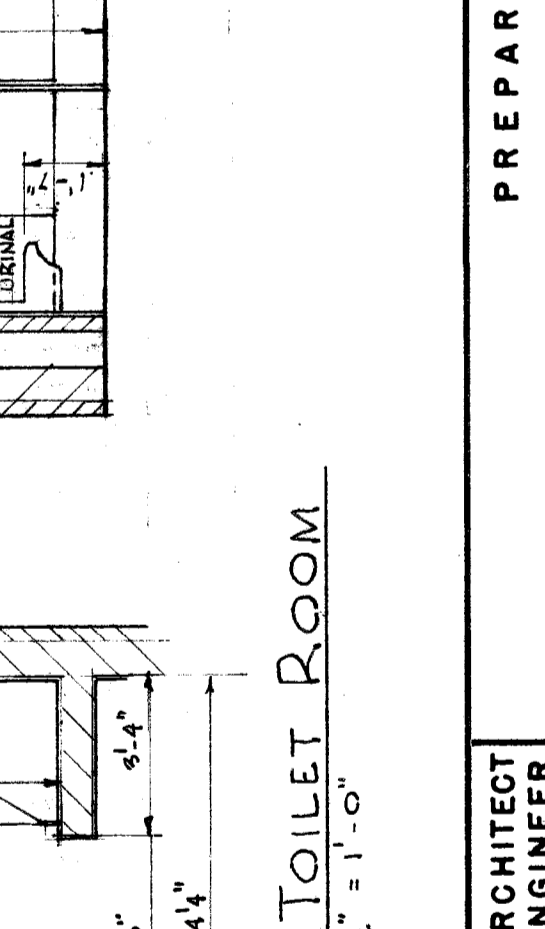
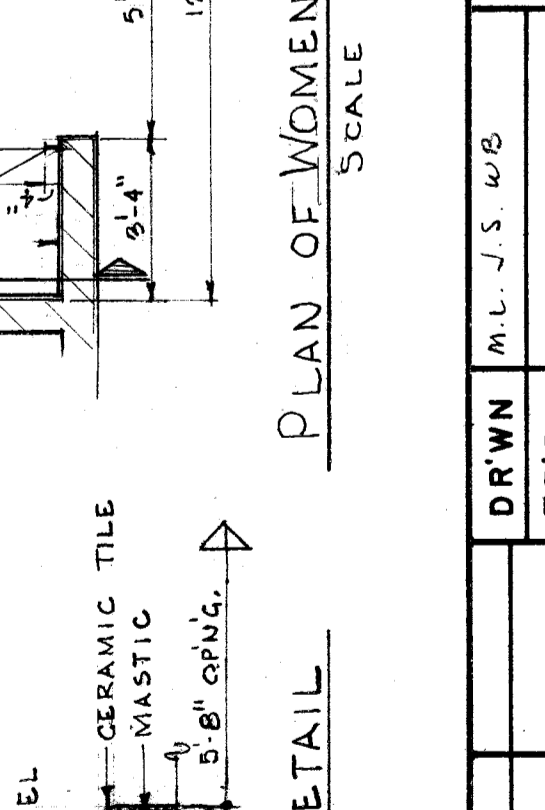
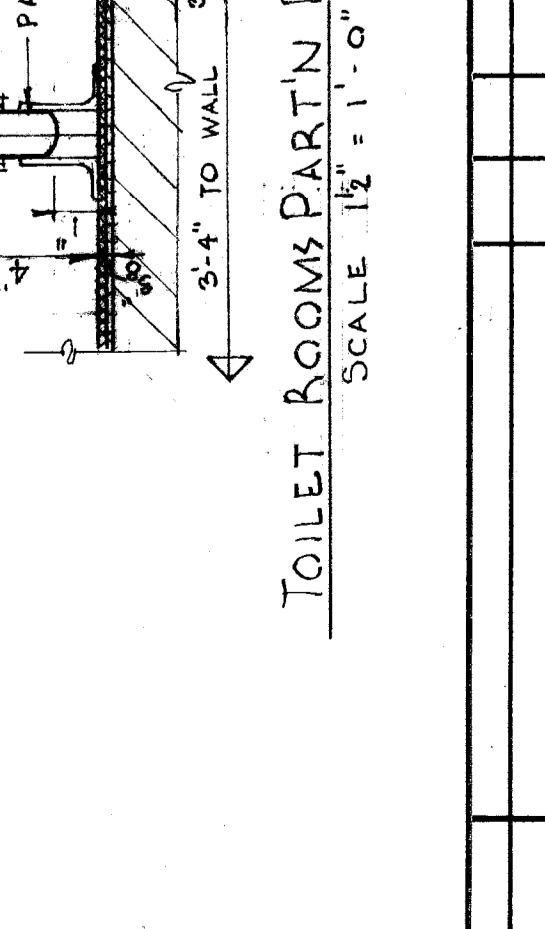
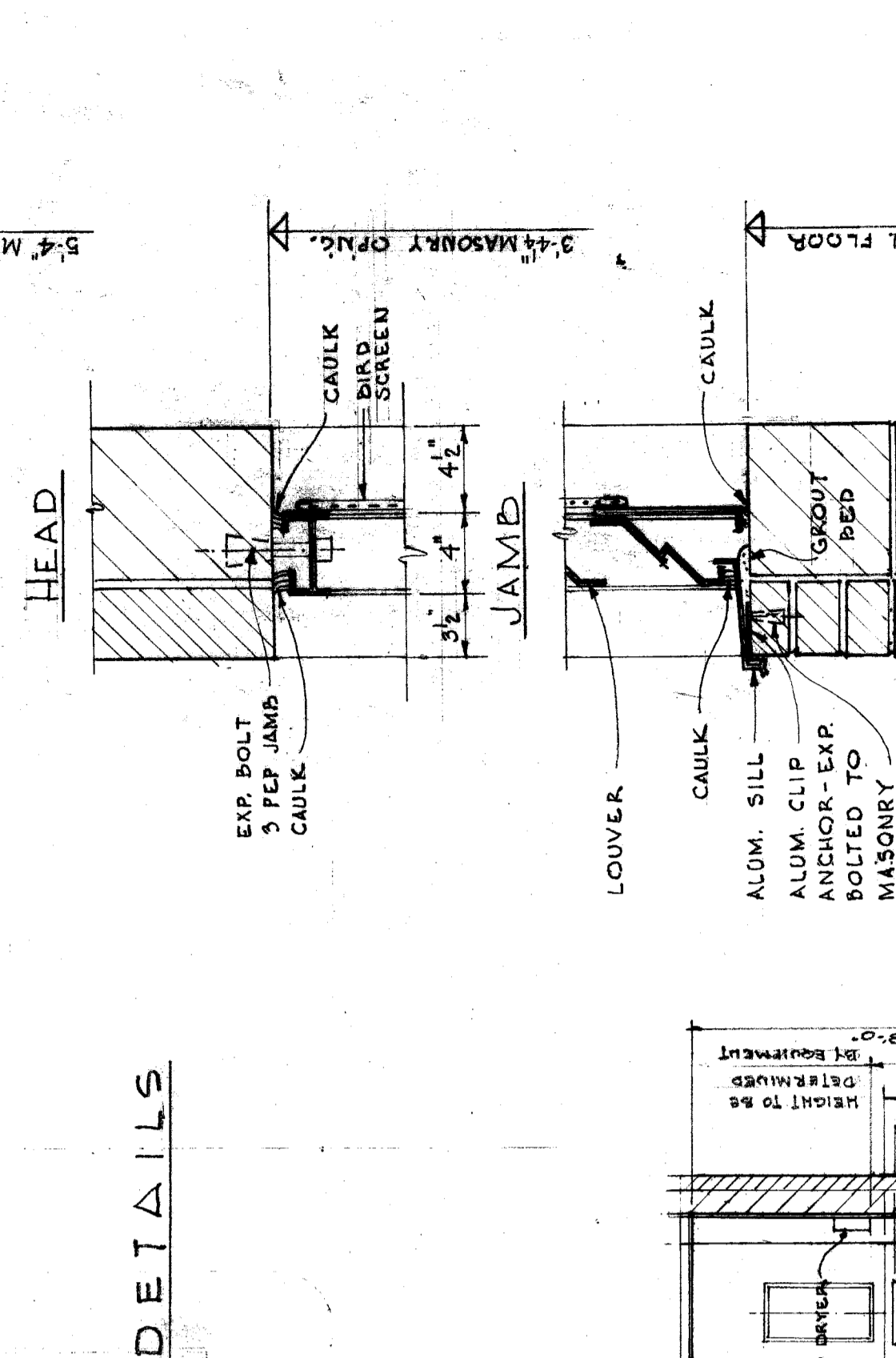
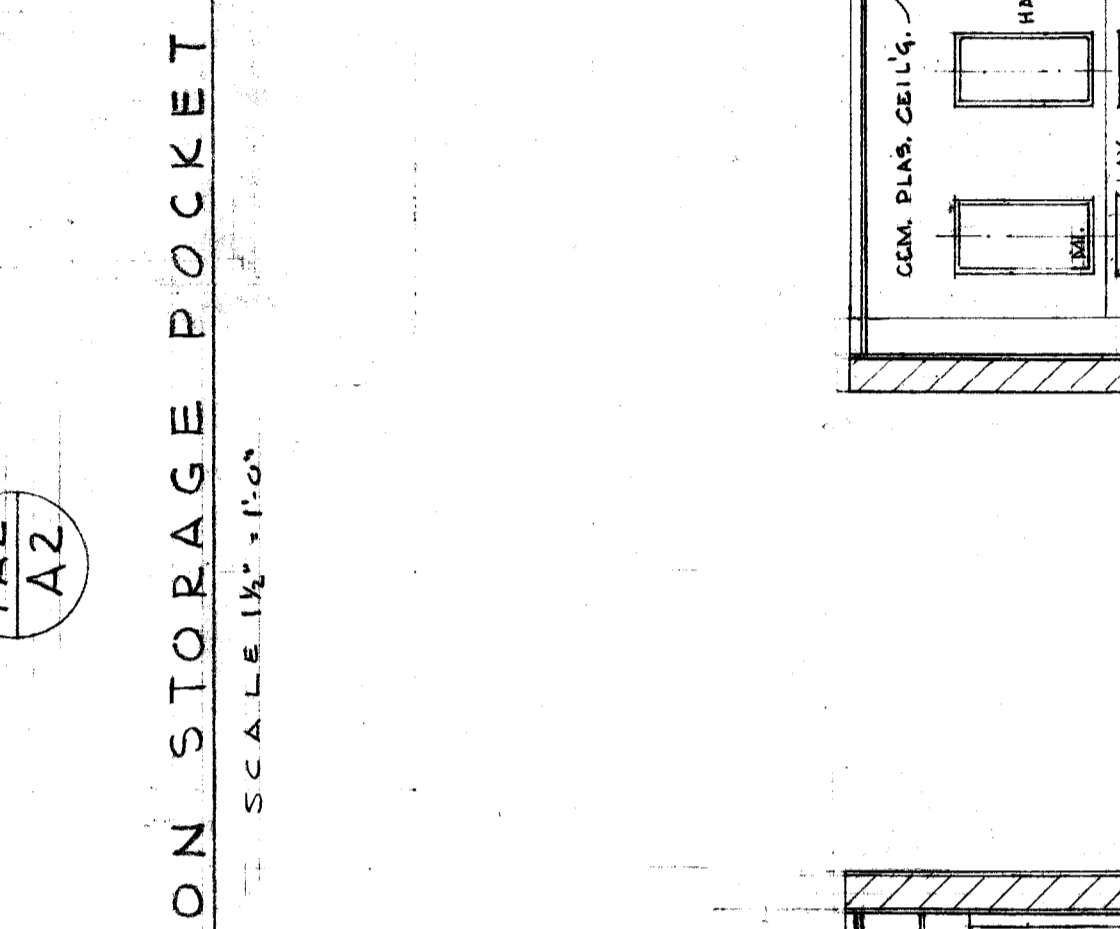
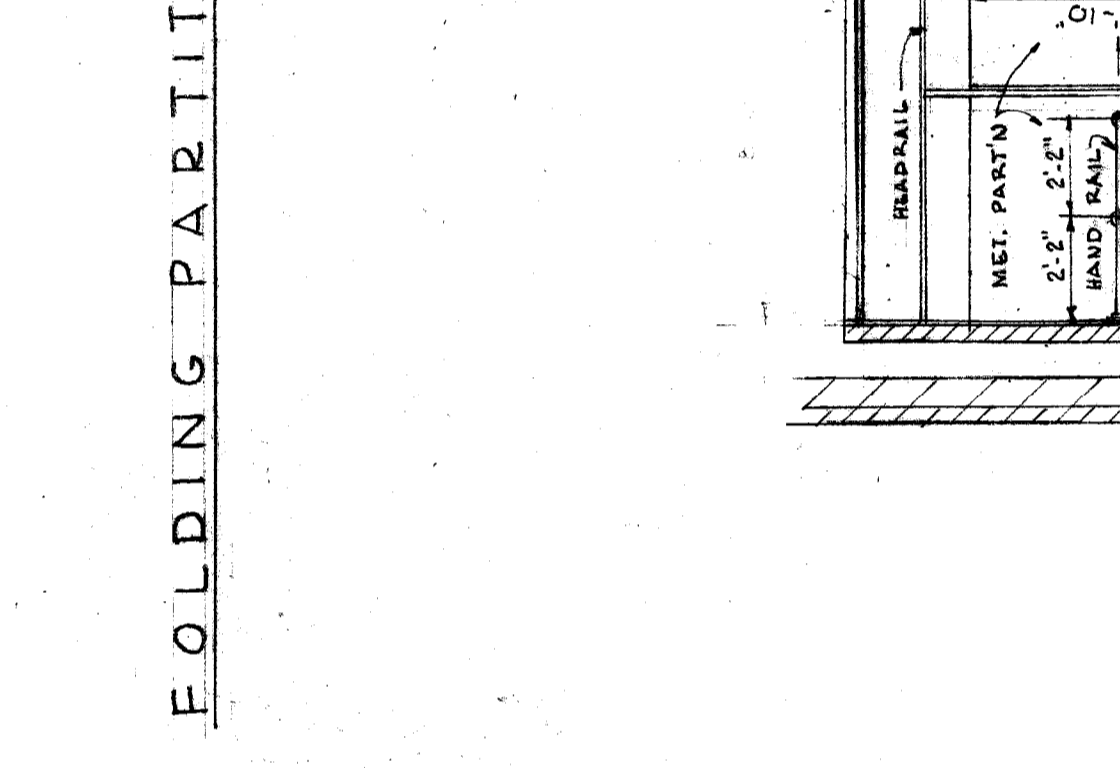
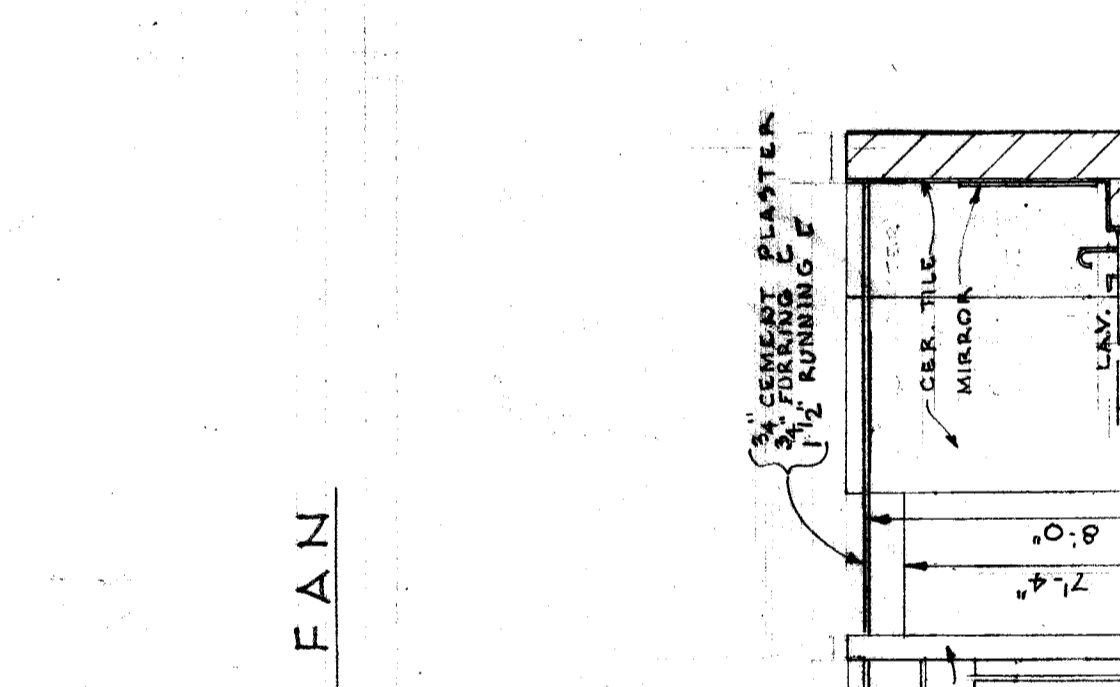
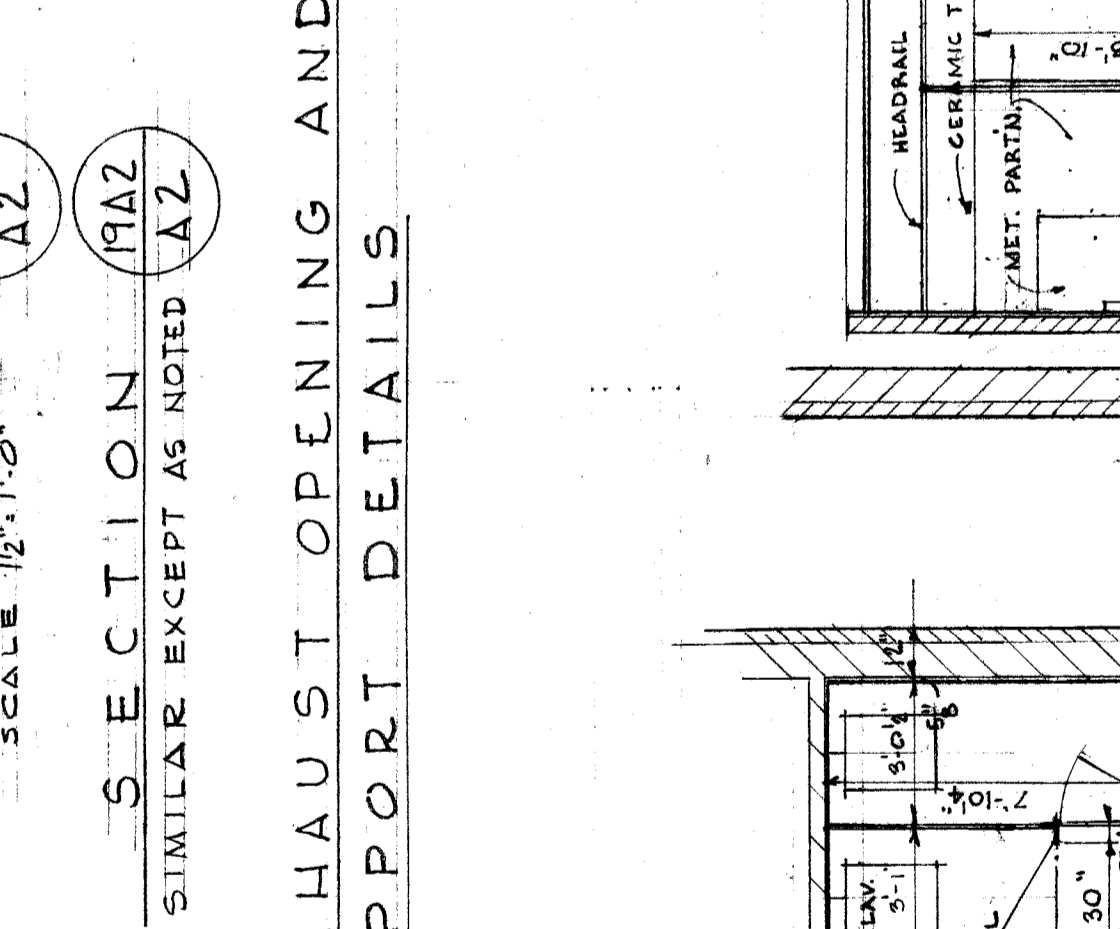
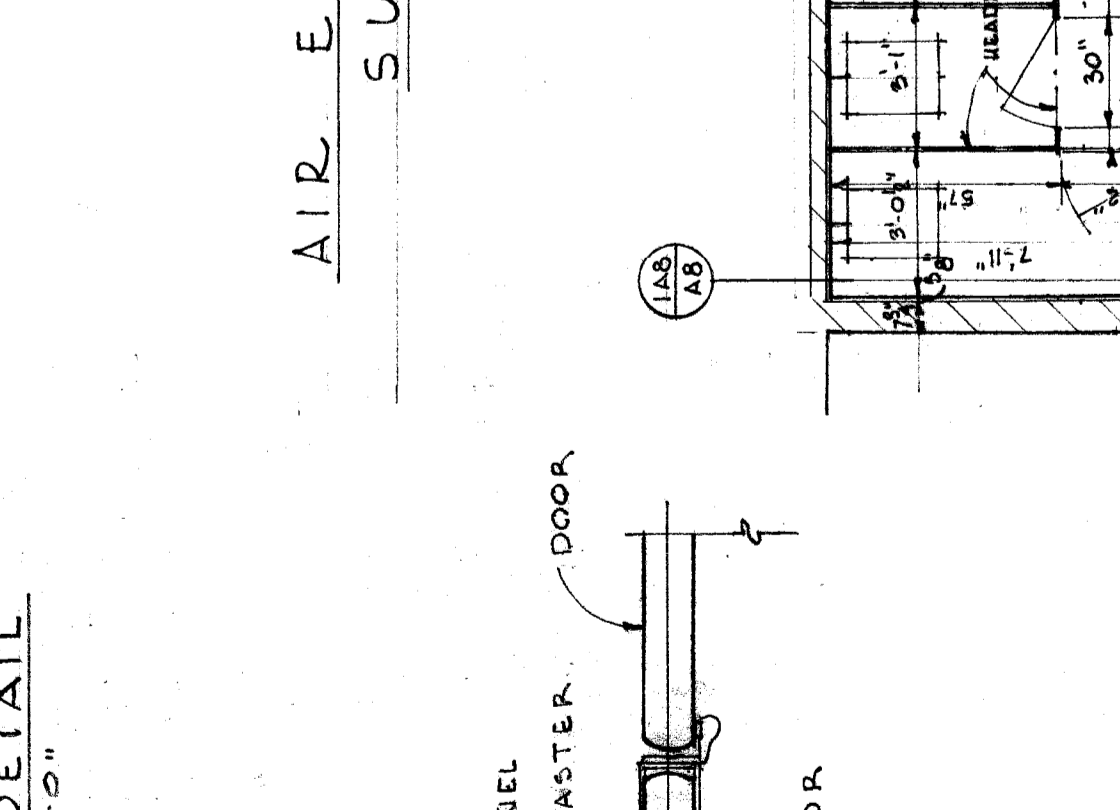
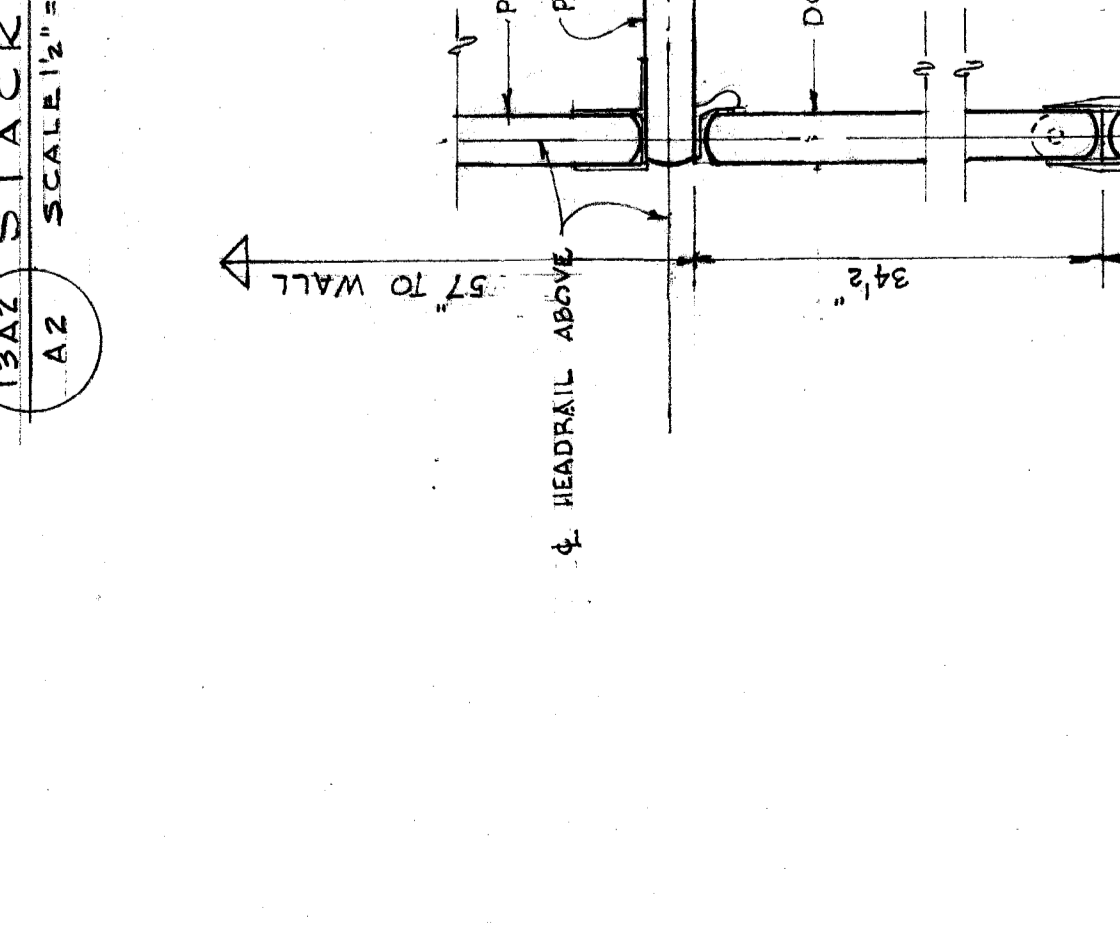
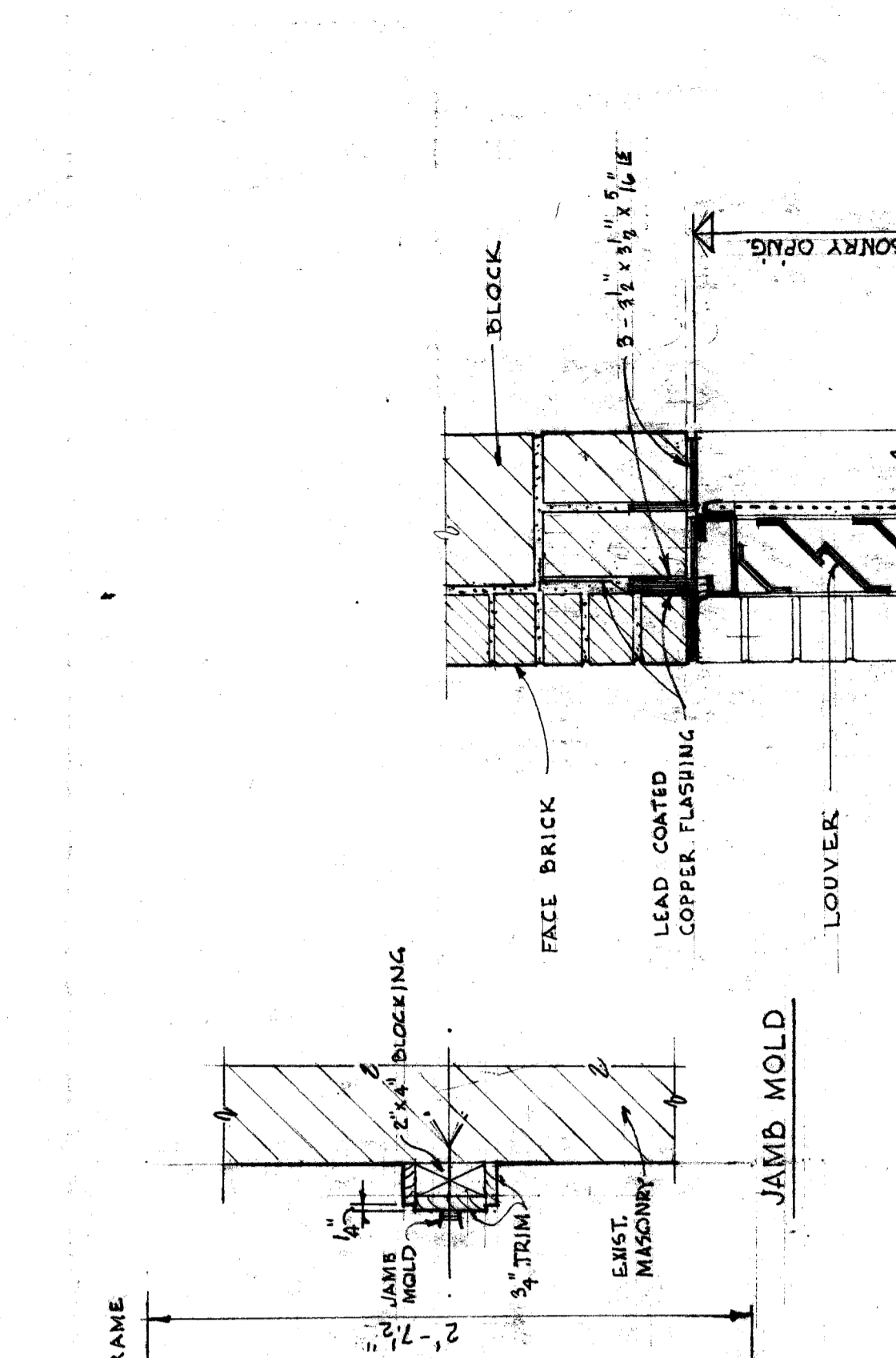
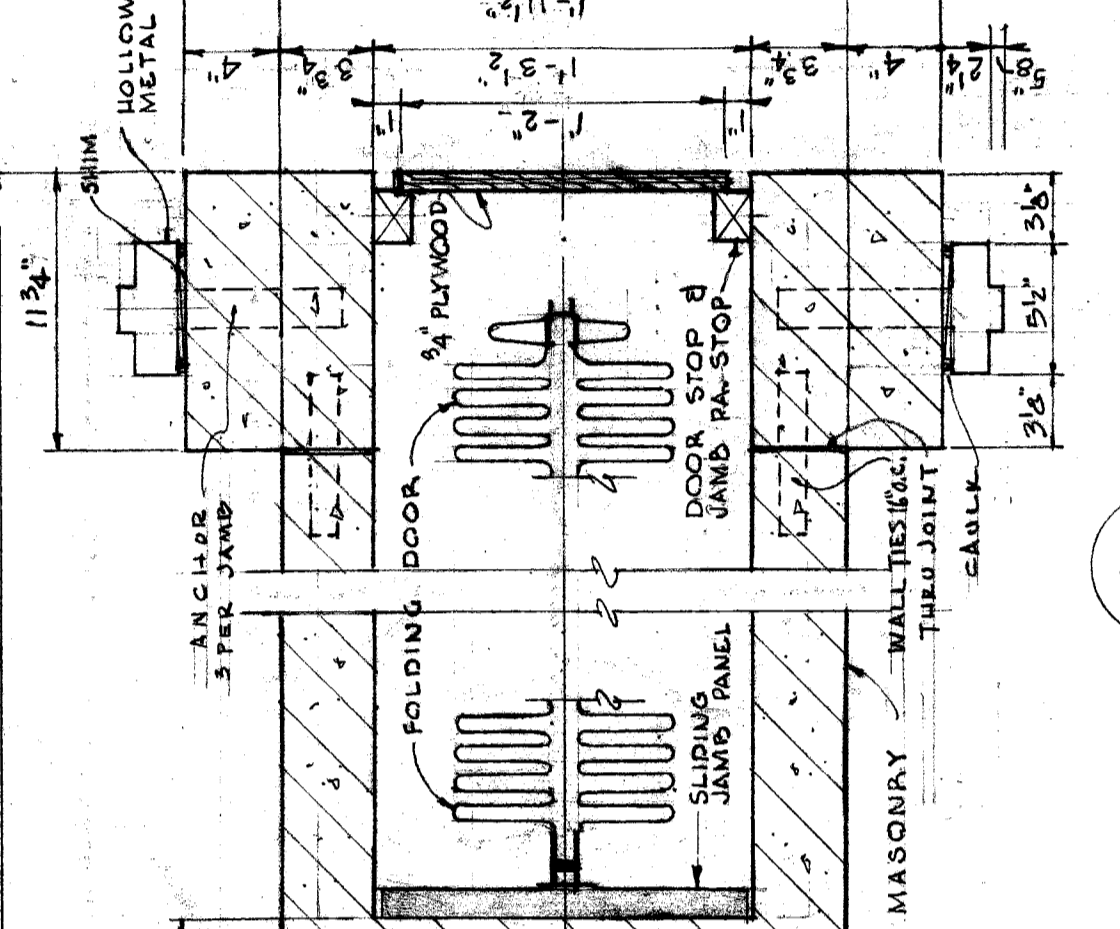
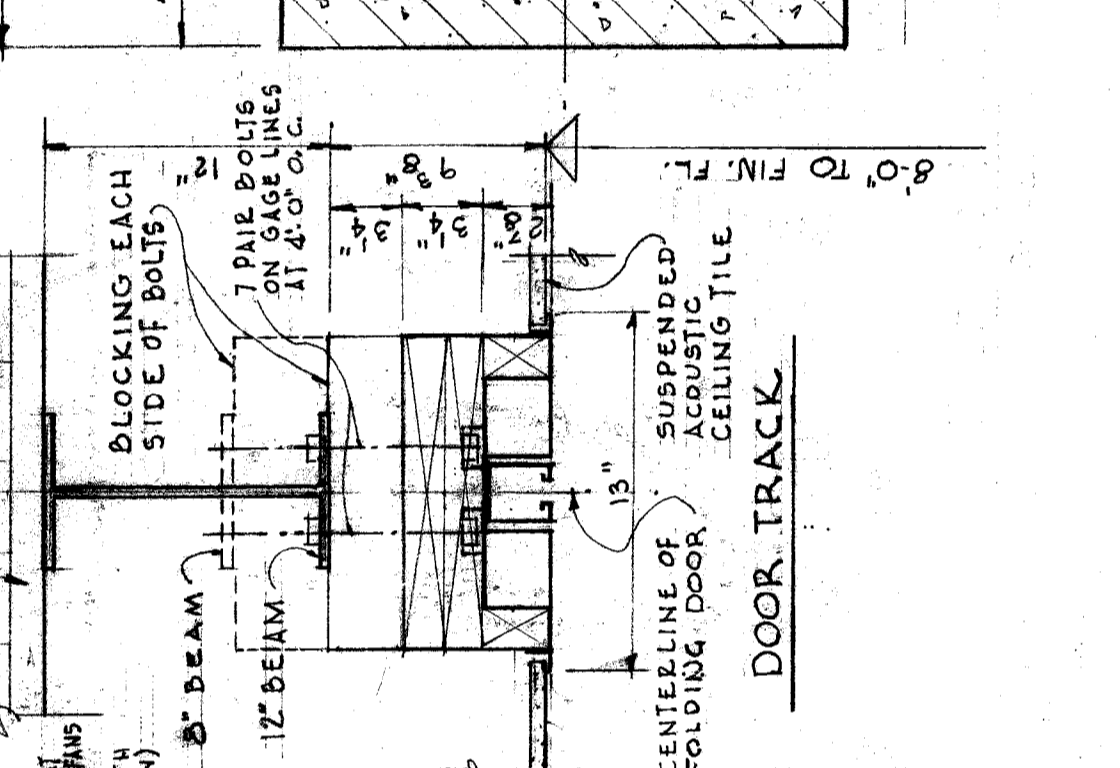
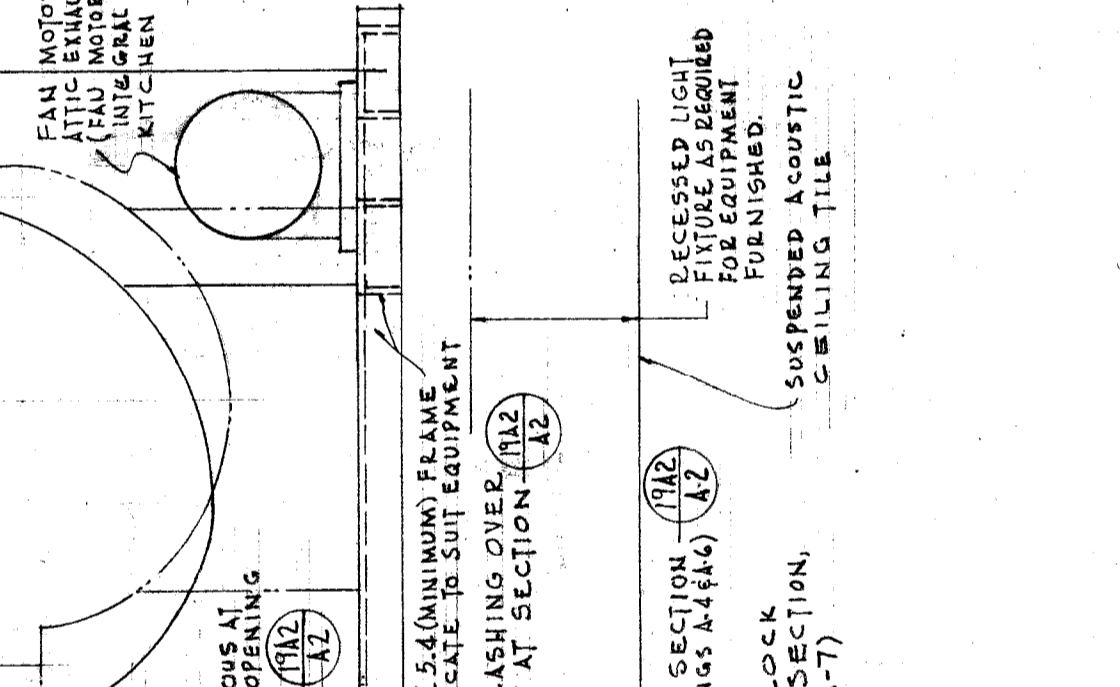
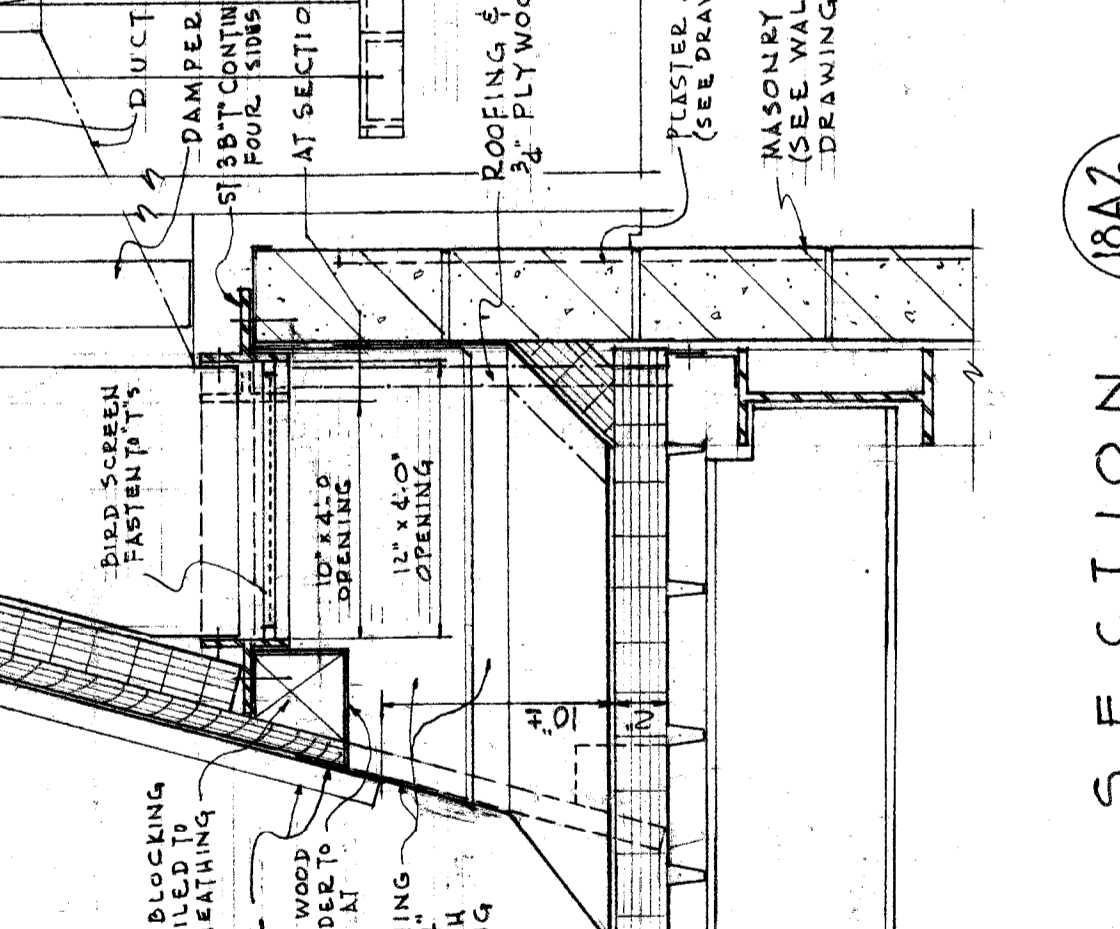
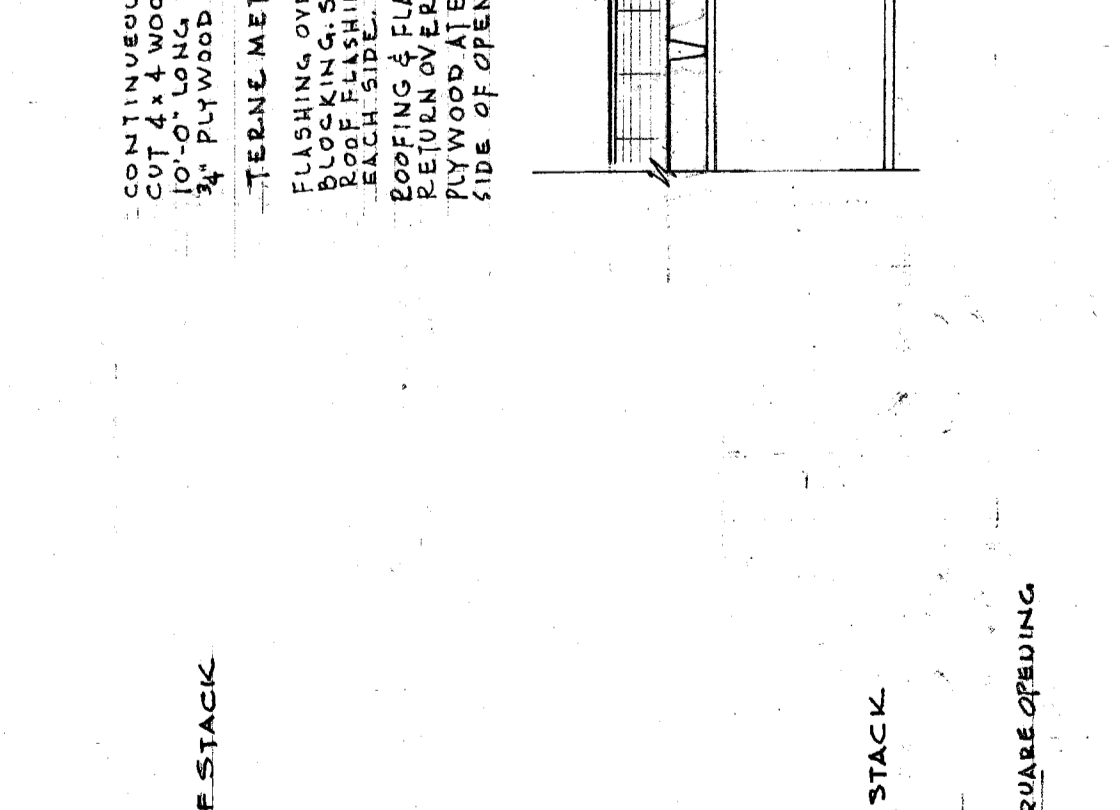
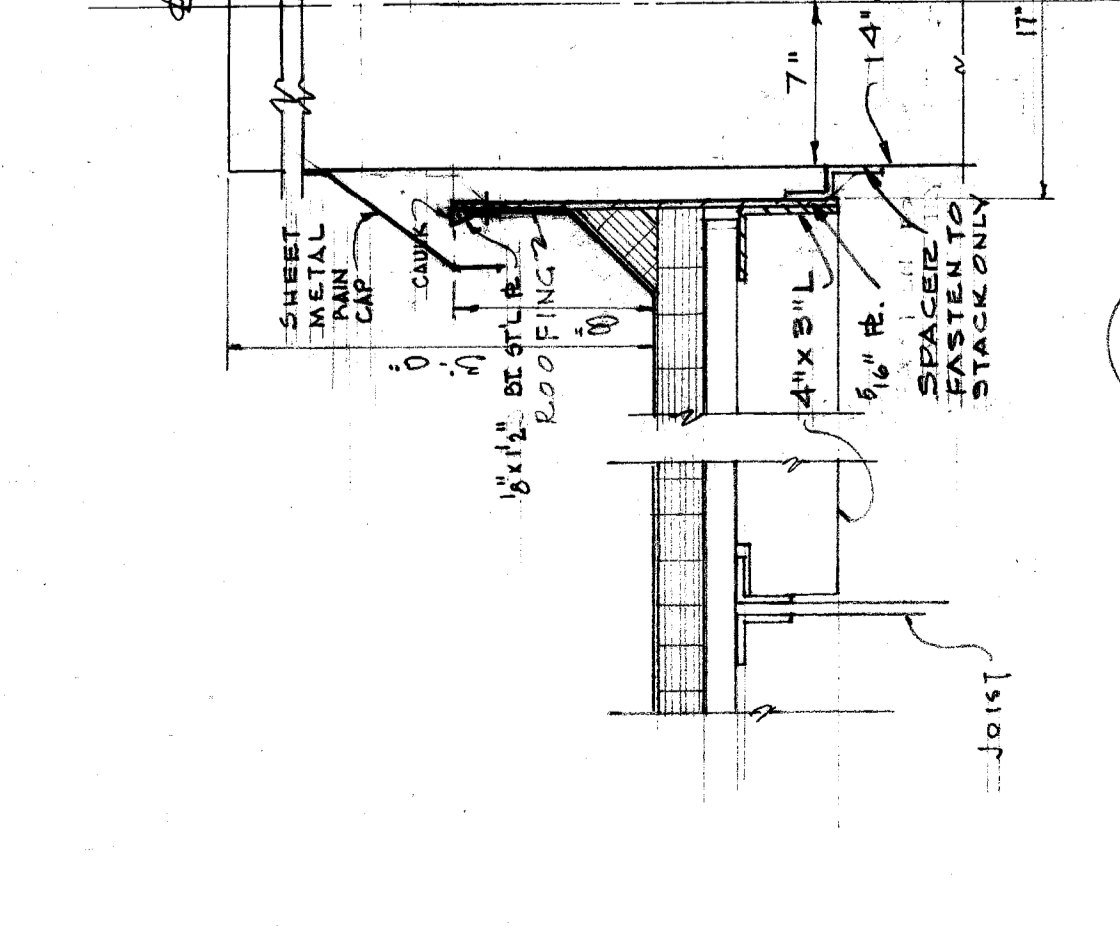
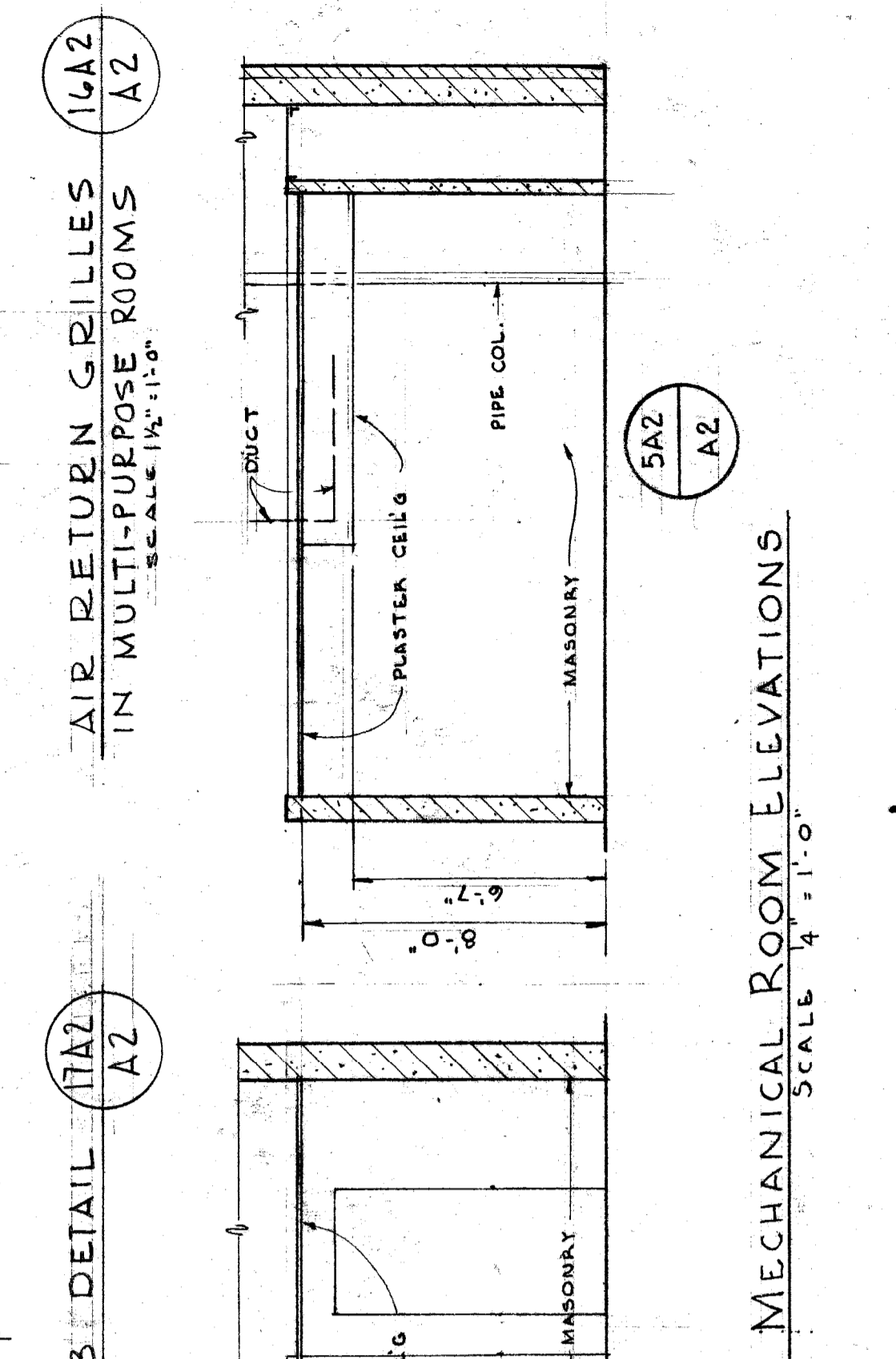
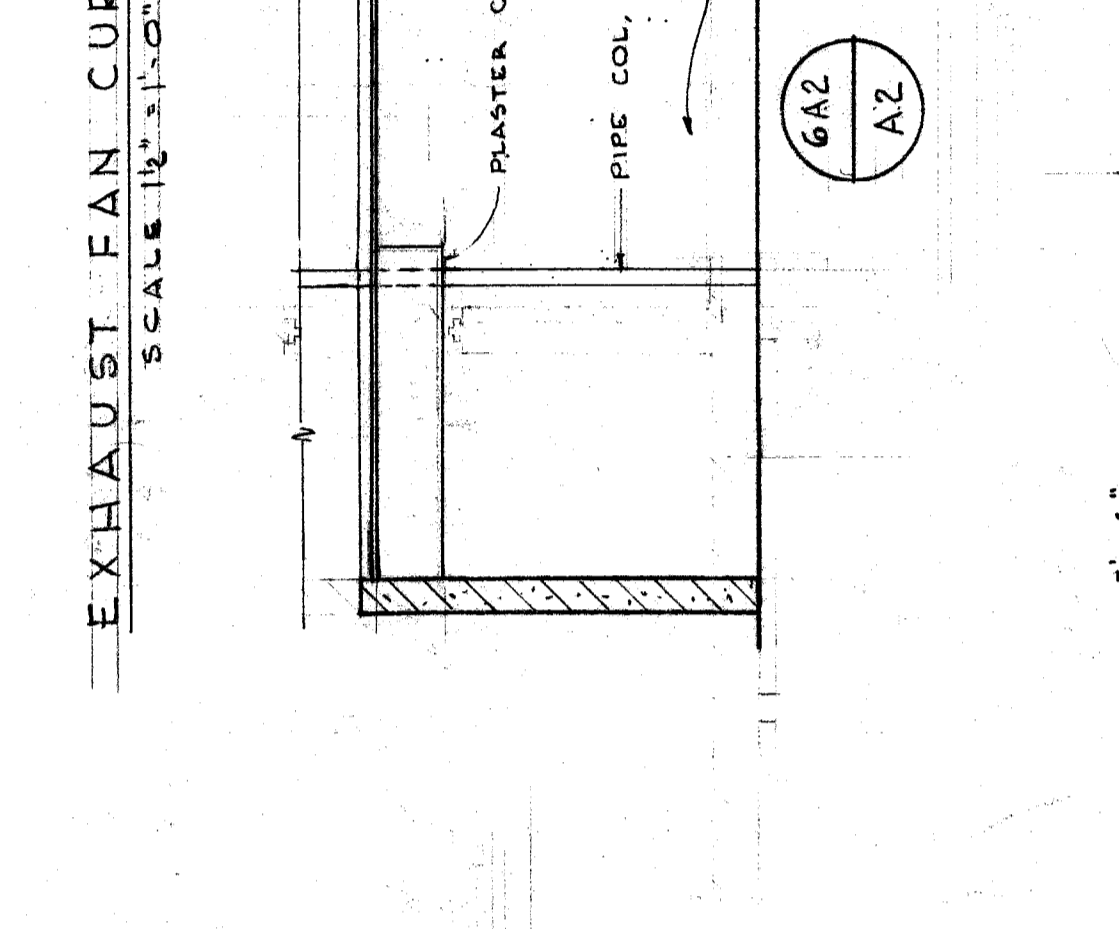
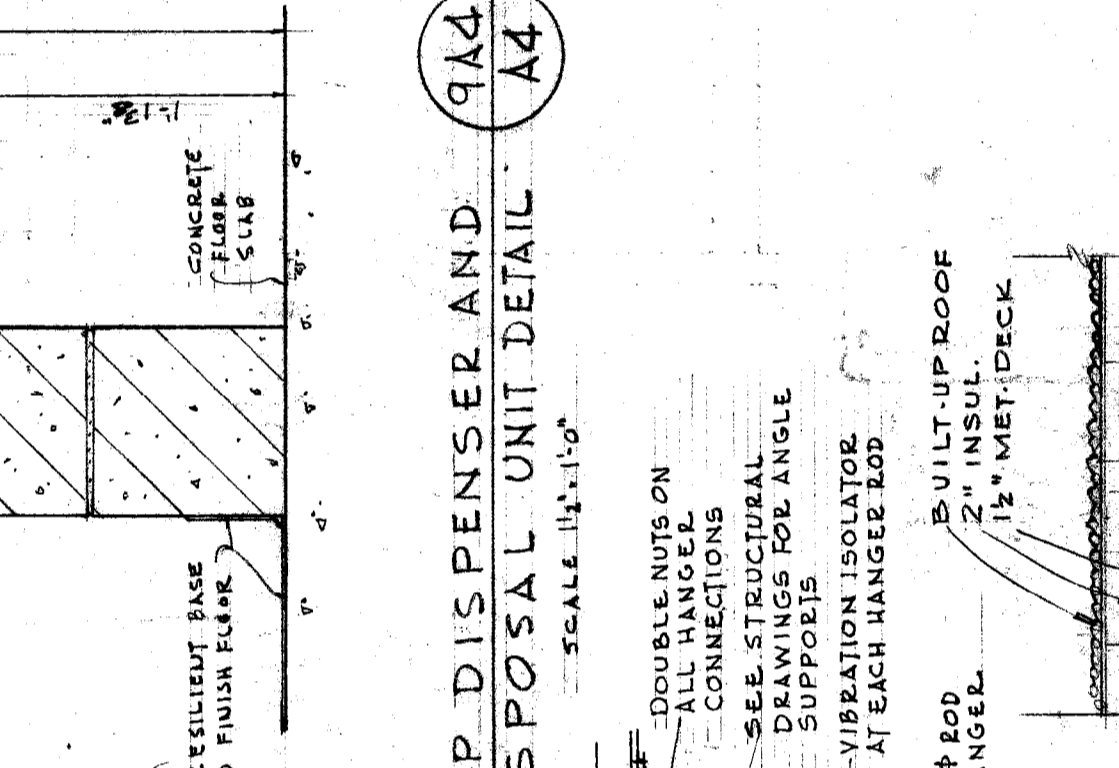
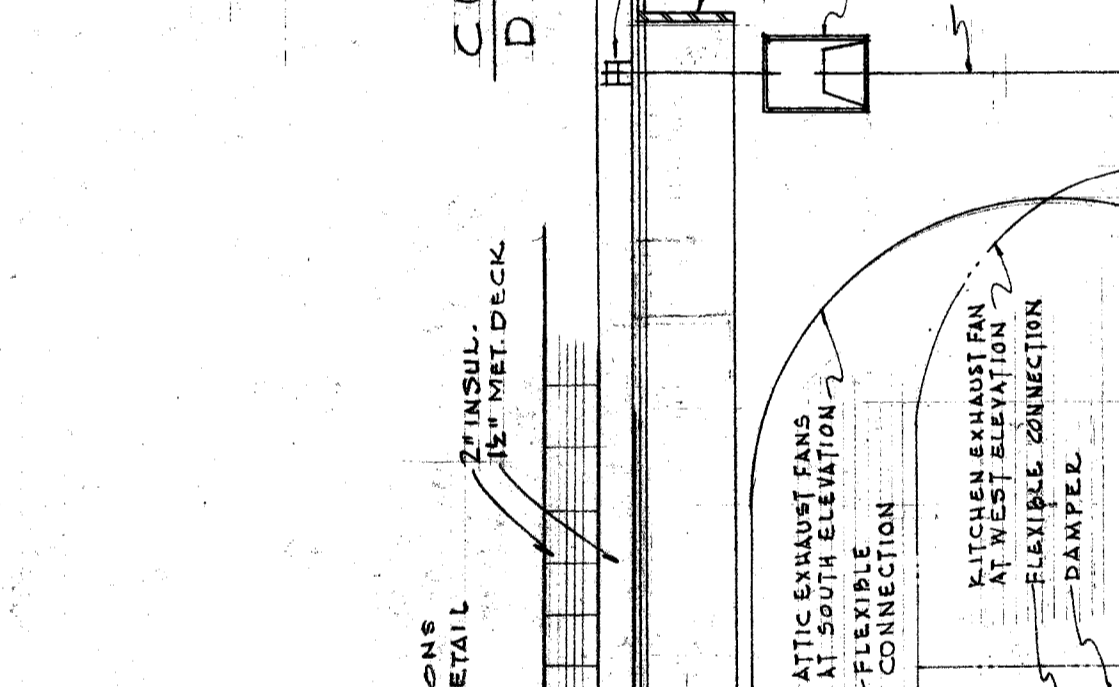
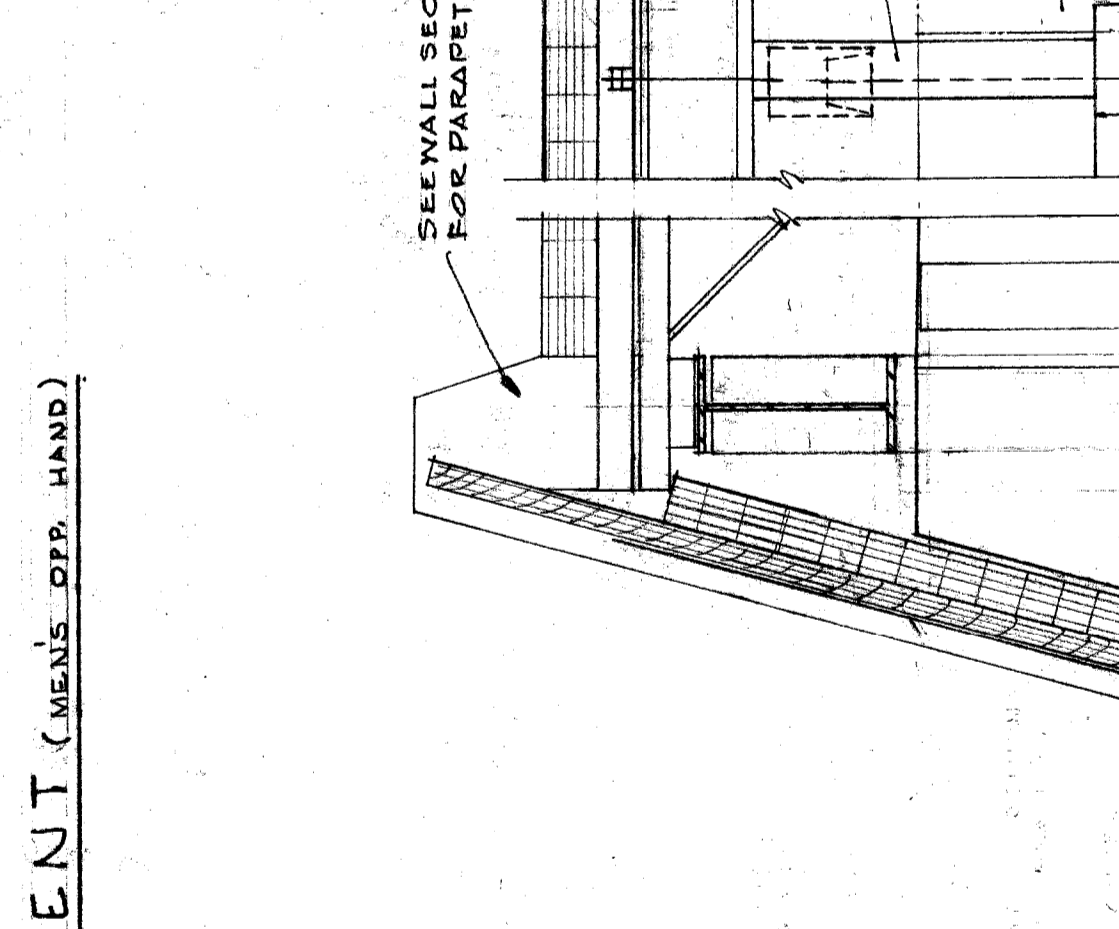
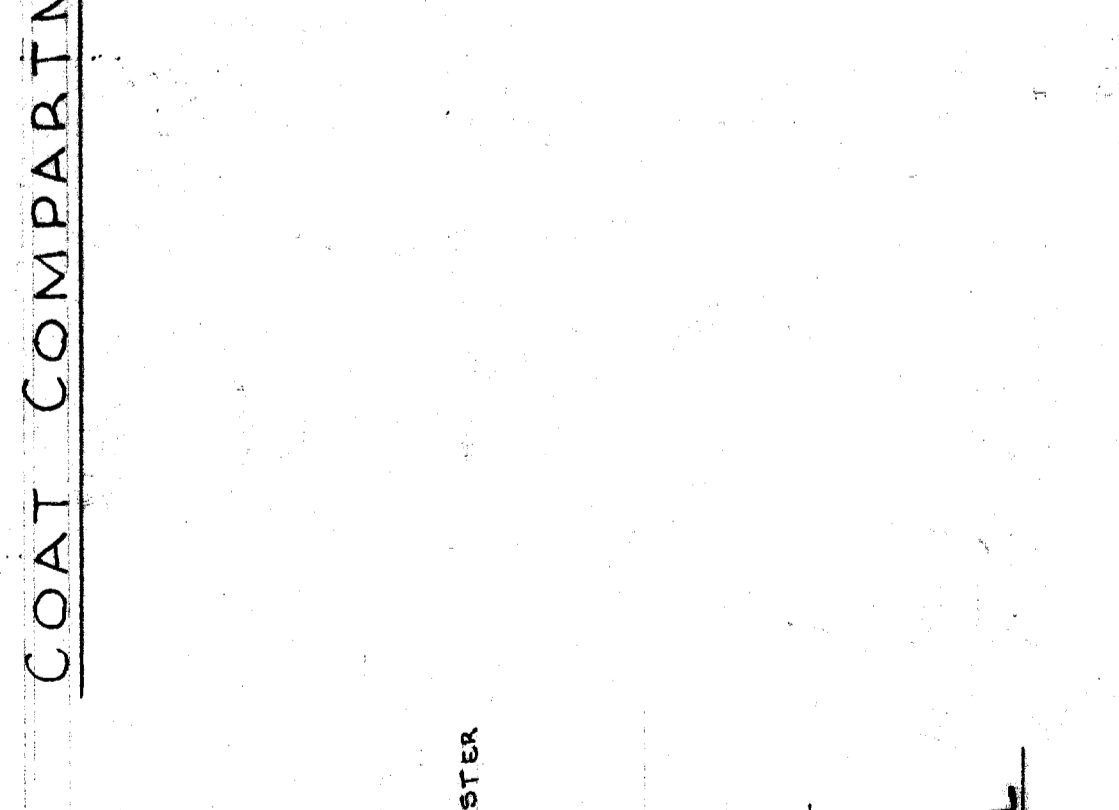
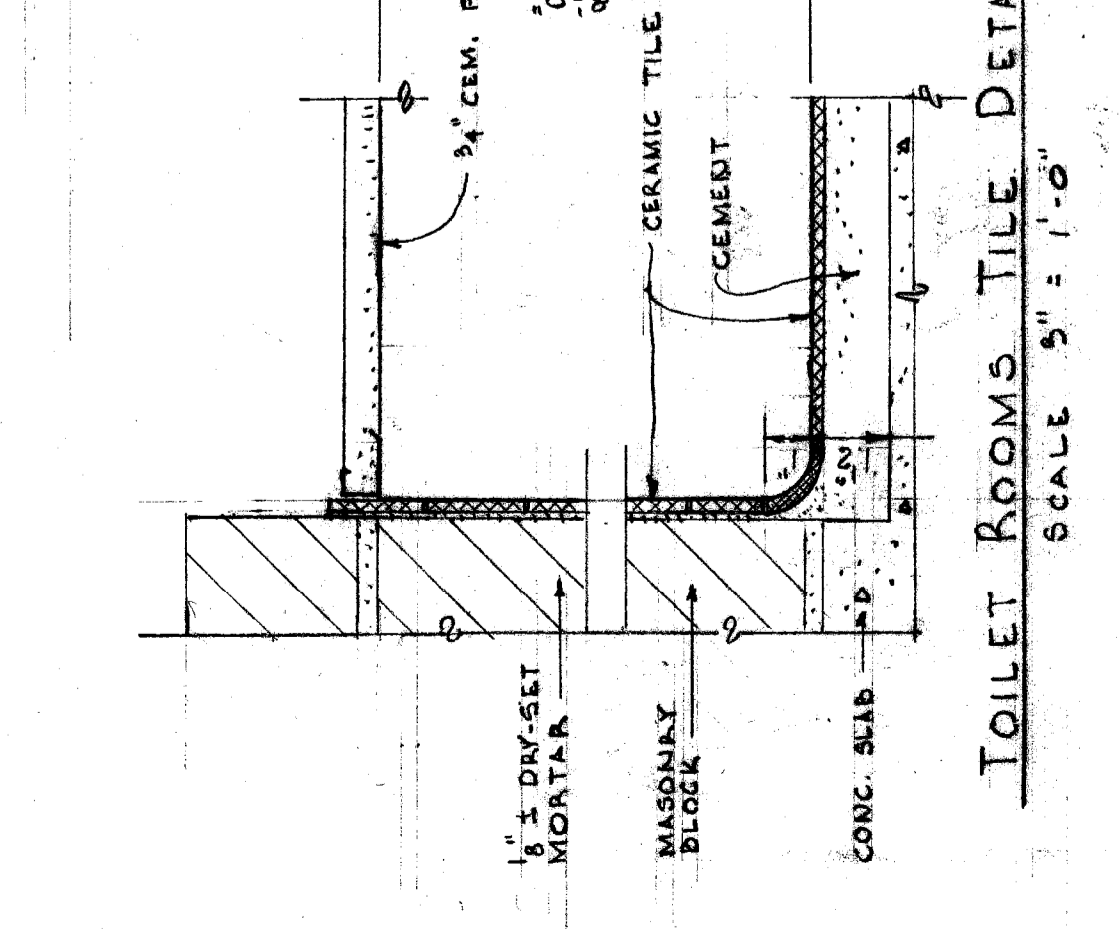
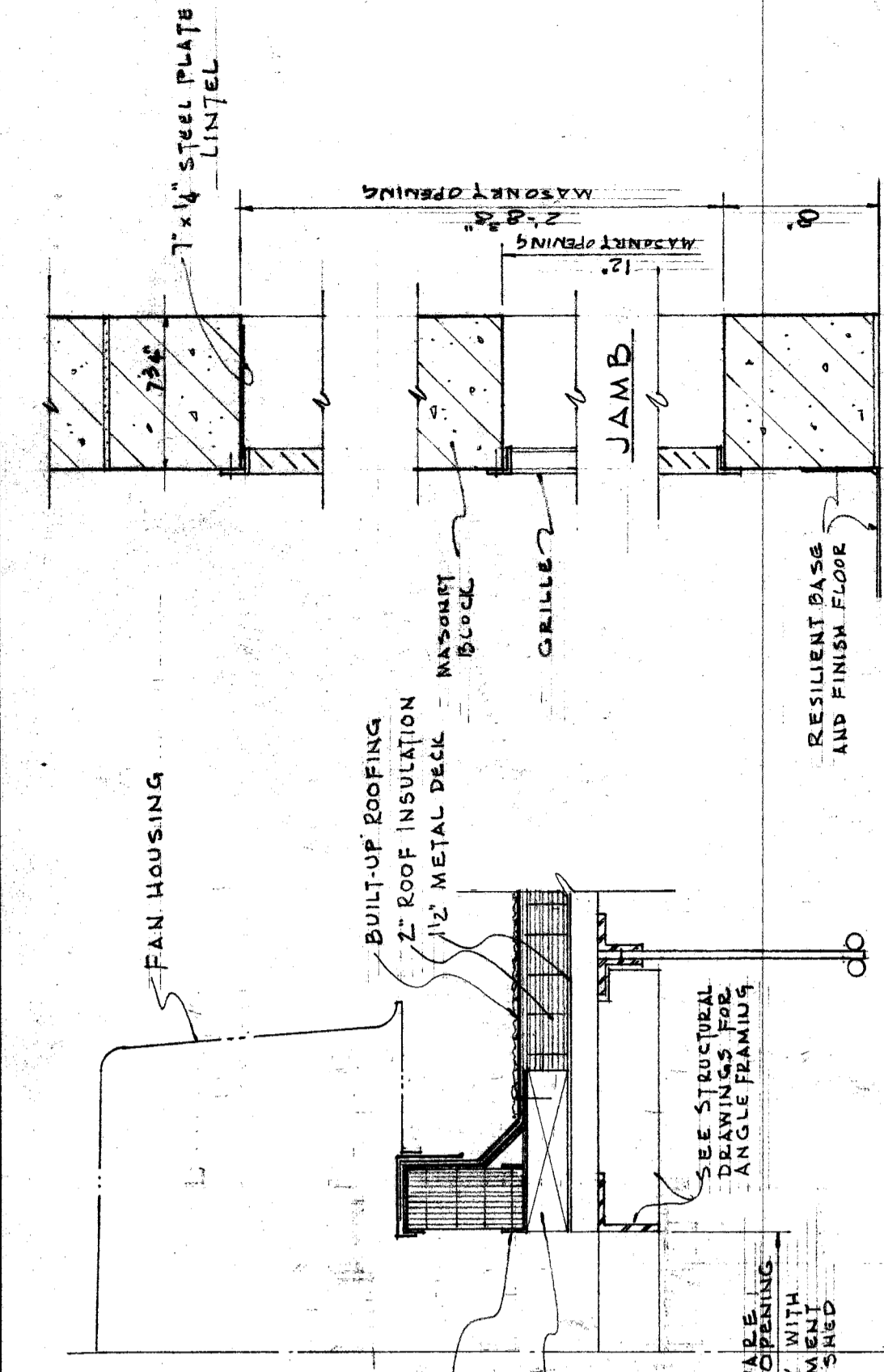
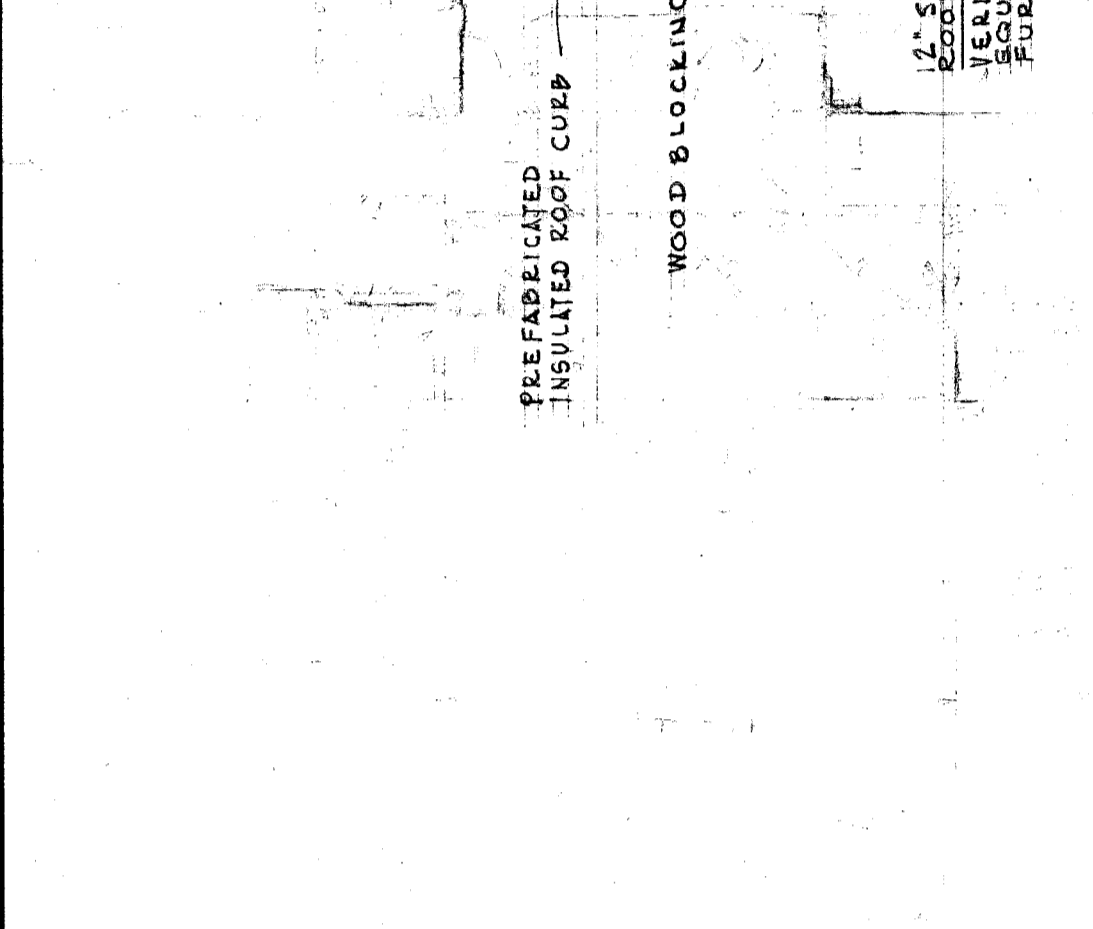
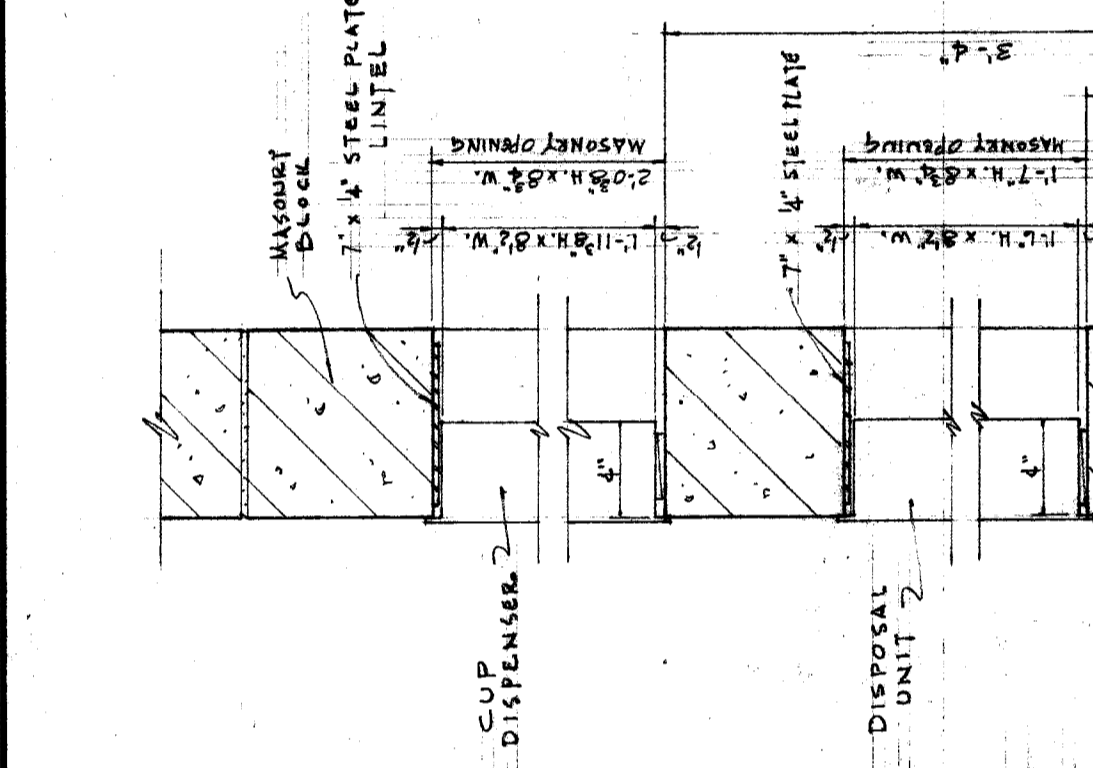
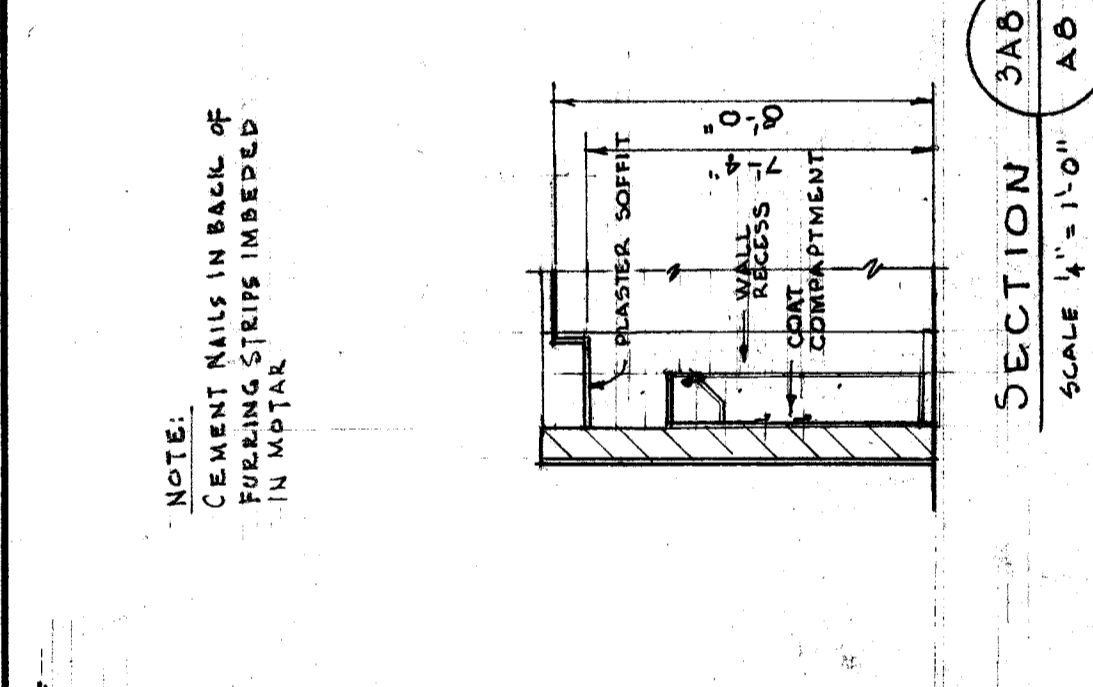
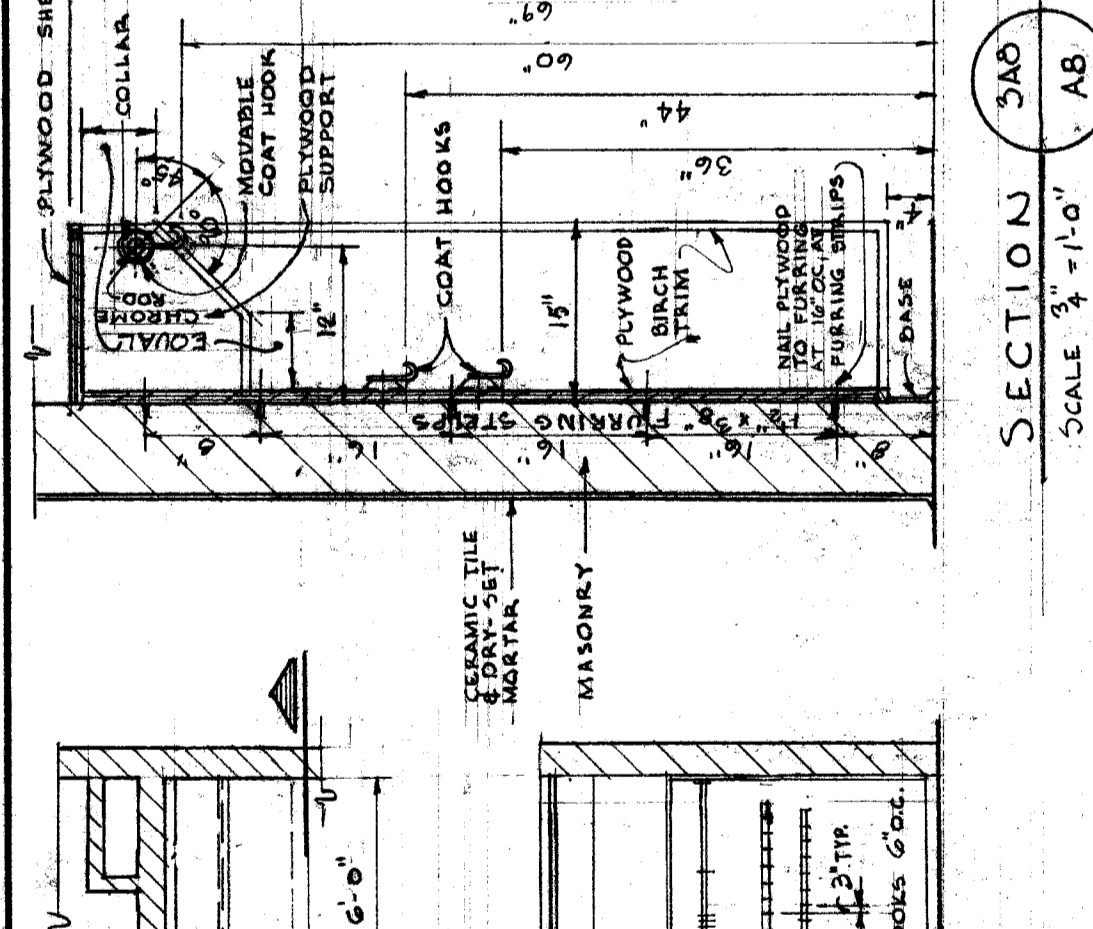
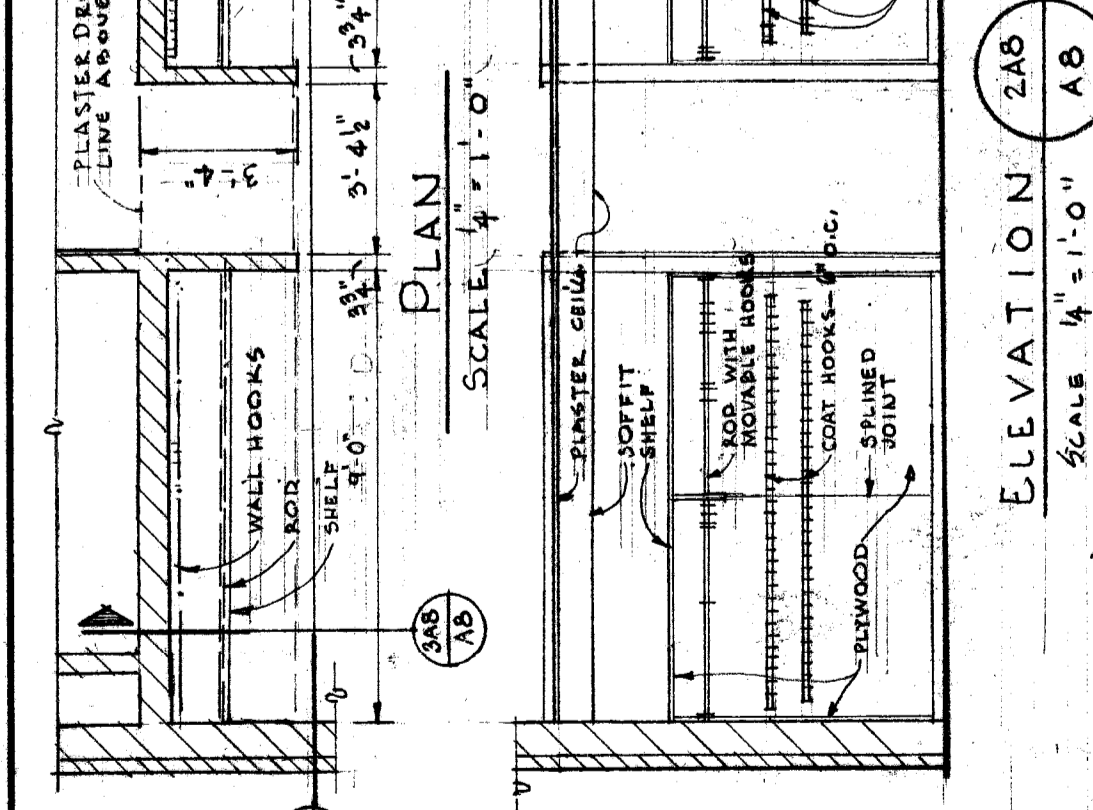
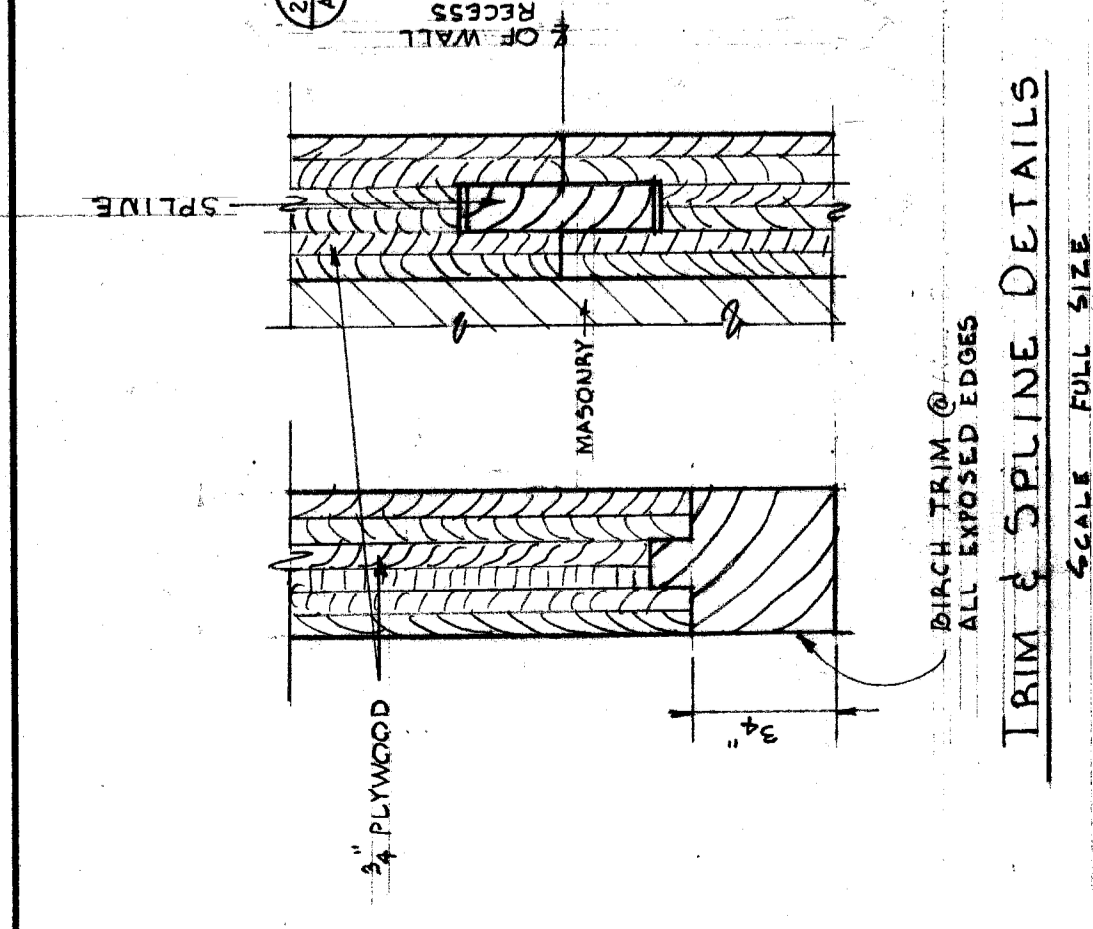
SHEET 7 OF 15 SHEETS
CONTRACT NO. PR-198
DRAWING NO. A-7
DATE JUNE 30, 1967

RECREATION CENTER
FOR THE HANDICAPPED
WALL SECTIONS

PREPARED FOR
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

PREPARED BY
CORNELIUS L.T. GABLER A.I.A. AND ASSOCIATES
ARCHITECTS AND ENGINEERS
3300 BOCK BUILDING - DETROIT - 48226 MICHIGAN

NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED	REFERENCE	REVISIONS	
							DATE	BY
6611	JOB NO.							
	ARCHITECT							
	ENGINEER							



NO.	DESCRIPTION	DRN	CHK'D	APVD	DATE	REVISIONS

DRWN	M.L.S. 4/8
TRD	
CHK'D	
APVD	
REFERENCE	
DATE	

ARCHITECT	CORNELIUS L.T. GABLER A.I.A. AND ASSOCIATES
ENGINEER	ARCHITECTS AND ENGINEERS
JOB NO.	6611
ADDRESS	3300 BOOK BUILDING - DETROIT - 48226 MICHIGAN

PREPARED BY
CORNELIUS L.T. GABLER A.I.A. AND ASSOCIATES
ARCHITECTS AND ENGINEERS
3300 BOOK BUILDING - DETROIT - 48226 MICHIGAN

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

RECREATION CENTER
FOR THE HANDICAPPED
PLANS, INTERIOR ELEVATION
& DETAILS

PREPARED FOR
DEPARTMENT OF PARKS & RECREATION

SHEET 8 OF 15 SHEETS
CONTRACT NO. PR-198
DRAWING NO. A-8
DATE JUNE 30, 1967

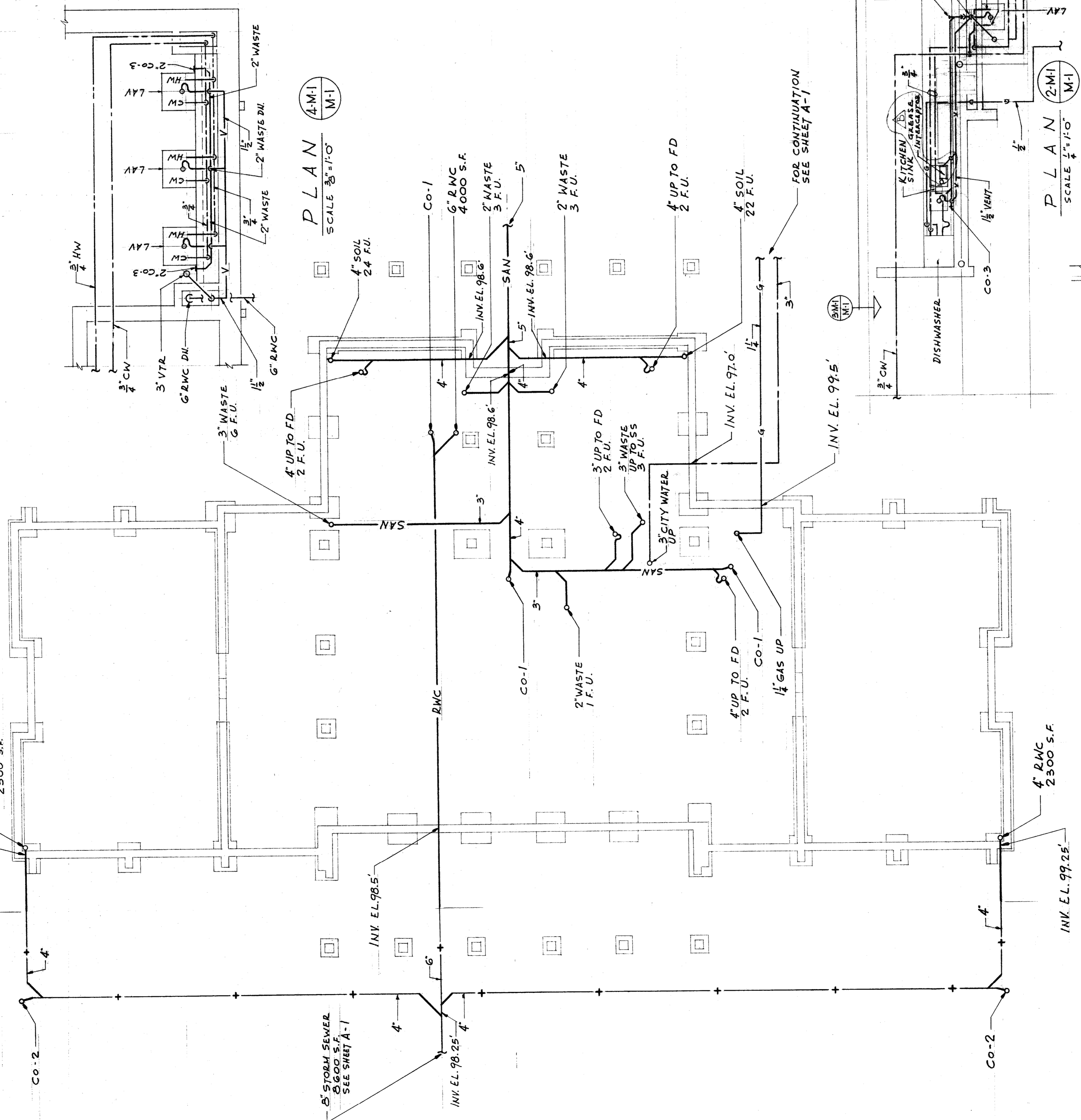
H. S. W. S.

SCHEDULE OF BRANCH PIPE SIZES AT FIXTURES

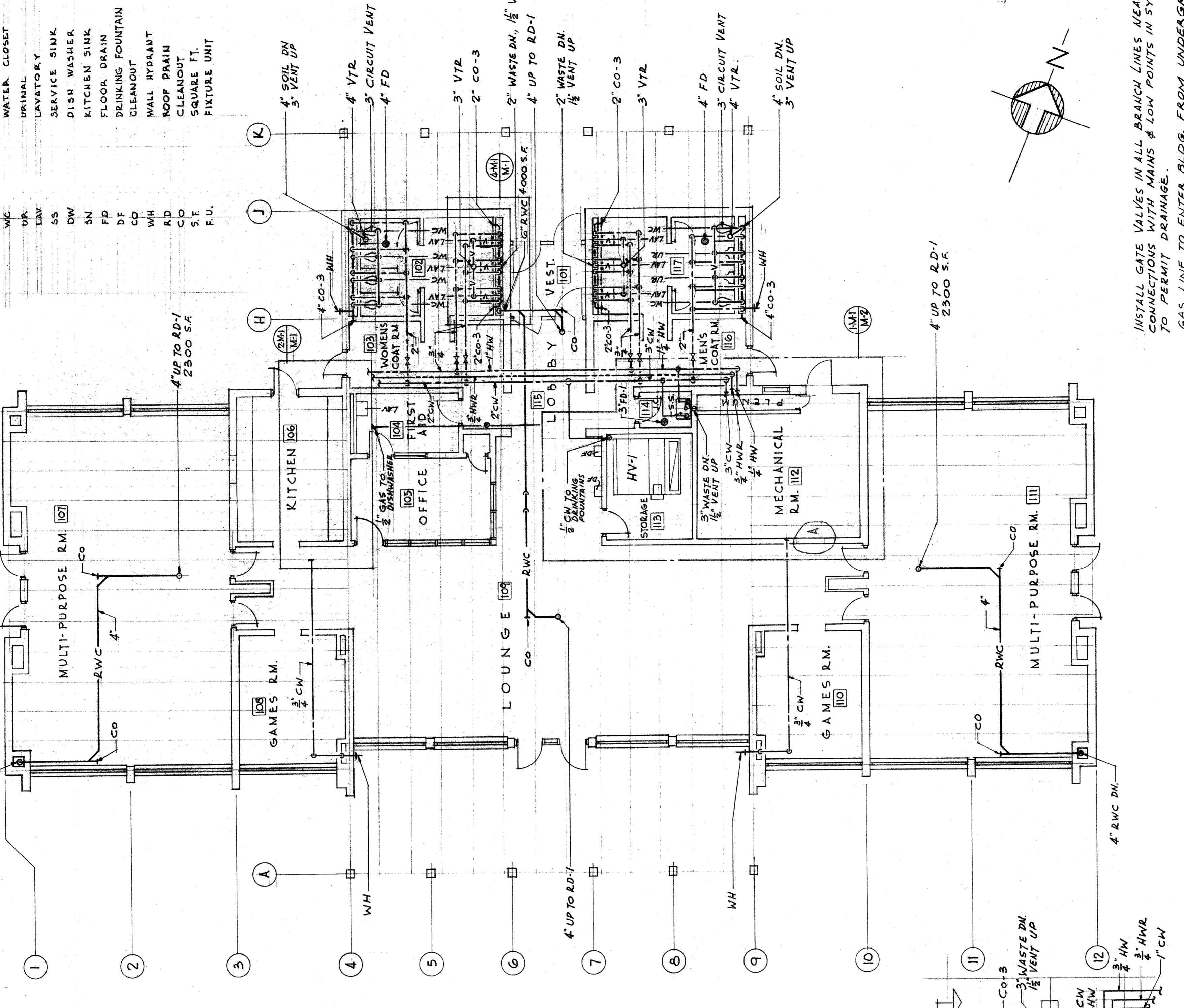
ITEM	DOMESTIC COLD WATER	WASTE	VENT	TRAP	REMARKS
3WC	1/2"	1/2"	1/2"	2"	INTEGRAL
UR	3/4"	3/4"	3/4"	1 1/2"	
LAV.	3/4"	3/4"	3/4"	1 1/2"	
SS	3/4"	3/4"	3/4"	1 1/2"	
KITCHEN SINK	3/4"	3/4"	3/4"	1 1/2"	
DW	3/4"	3/4"	3/4"	1 1/2"	
DF	3/4"	3/4"	3/4"	1 1/2"	
WH	3/4"	3/4"	3/4"	1 1/2"	

LEGEND

SAN	SAUNTRY DRAIN
RWC	STORM DRAIN
V	VENT
DW	DOMESTIC HOT WATER RETURN
HWS	DOMESTIC COLD WATER
HWL	HEATING HOT WATER SUPPLY
G	HEATING HOT WATER RETURN
VTL	VENT THRU ROOF
WC	WATER CLOSET
UR	URINAL
LAV	LAVATORY
SS	SERVICE SINK
DW	DISH WASHER
SN	KITCHEN SINK
FD	FLOOR DRAIN
CO	CLEANOUT
WH	WALL HYDRANT
RD	ROOF DRAIN
CC	CLEANOUT
S.F.	SQUARE FT.
F.U.	FIXTURE UNIT

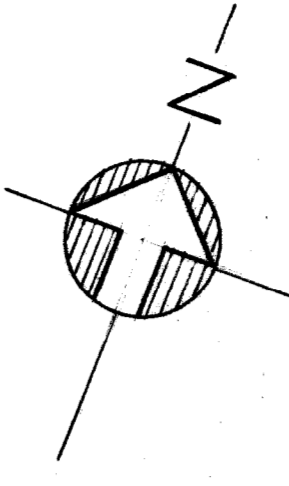


UNDERGROUND PLAN
SCALE 1/8" = 1'-0"



FLOOR PLAN
SCALE 1/8" = 1'-0"

INSTALL GATE VALVES IN ALL BRANCH LINES NEAR CONNECTIONS WITH MAINS AT LOW POINTS IN SYSTEM TO PERMIT DRAINAGE.
GAS LINE TO ENTER BLDG. FROM UNDERGROUND. VENT OUTSIDE LINE AS REQ'D. BY GAS CO.
VENT GAS METERS AS REQ'D. & EXTEND VENTS THRU ROOF.



PREPARED BY CORNELIUS L.T. GABLER A.I.A. AND ASSOCIATES ARCHITECTS AND ENGINEERS 3300 BOOK BUILDING - DETROIT - 48226 MICHIGAN	PREPARED FOR CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR DEPARTMENT OF PARKS & RECREATION	RECREATION CENTER FOR THE HANDICAPPED		SHEET 11 OF 15 SHEETS
		UNDERGROUND & FLOOR PLAN OF PIPING & MISCELLANEOUS DETAILS		CONTRACT NO. PR-198 DRAWING NO. M-1 DATE JUNE 30, 1967

SECTION 3(M) (M-1)
SCALE 1/8" = 1'-0"

ARCHITECT
ENGINEER

JOB NO.
6611

NO.	DESCRIPTION	DATE	BY	CHK'D
1	ADDED GRADE TO TRAP	6/27/67	W.S.	W.S.
2	DELETED DOOR	6/27/67	W.S.	W.S.

DRW'G. B.D.B.
TRD
CHK'D
APVD
REFERENCE DRAWINGS

HEATING & VENTILATING UNIT SCHEDULE						
MARK	AREA SERVED	LOCATION	TYPE	CFM	RPM	REMARKS
HV-1	MULTI-ZONE UNIT WITH 80% MEMBRANE APPLIED WITH GOAL TACK MARIANNE SHALL BE SOLIDIFIED APPROVED BETWEEN ROOF SLABS WITH GOAL TACK	STORAGE ROOM	MULTI-ZONE	9400	780	COMBINATION FILTER-MIXING BOX FINISHED WITH PAINT OR OIL PAINT

* BASED ON 200°F ENTERING WATER, 20°F WATER TEMP DIFF, 45°F ENTERING AIR

PUMP SCHEDULE						
MARK	DESCRIPTION	LOCATION	CFM	HP	RPM	REMARKS
P-1	MULTI-ZONE UNIT WITH 80% MEMBRANE APPLIED WITH GOAL TACK MARIANNE SHALL BE SOLIDIFIED APPROVED BETWEEN ROOF SLABS WITH GOAL TACK	Mech. Rm.	50	12	1750	10-LINE CENTRIFUGAL
P-2	DOMESTIC HOT WATER CIRCULATING	"	5	7	1750	"

UNIT HEATER SCHEDULE								
MARK	AREA SERVED	LOCATION	RPM	HP	MBH	F.A.T.	GPM	REMARKS
UH-1	MECHANICAL RM.	VERTICAL	1370	10	56.2	101	5.6	20-1/2" COILS-JET DEFLECTORS

* BASED ON 200°F ENTERING WATER, 20°F WATER TEMP. DIFF, 40°F ENTERING AIR

ELECTRIC BASEBOARD RADIATION SCHEDULE						
MARK	AREA SERVED	LOCATION	MIN. W.T. INCHES	MAX. W.T. INCHES	BTUH	REMARKS
BB-1	MULTI-ZONE UNIT WITH 80% MEMBRANE APPLIED WITH GOAL TACK MARIANNE SHALL BE SOLIDIFIED APPROVED BETWEEN ROOF SLABS WITH GOAL TACK	EAST	10	10	5100	OPERATED FROM OUTDOOR BULB
BB-2	MULTI-ZONE UNIT WITH 80% MEMBRANE APPLIED WITH GOAL TACK MARIANNE SHALL BE SOLIDIFIED APPROVED BETWEEN ROOF SLABS WITH GOAL TACK	WEST	10	10	5100	"
BB-3	MULTI-ZONE UNIT WITH 80% MEMBRANE APPLIED WITH GOAL TACK MARIANNE SHALL BE SOLIDIFIED APPROVED BETWEEN ROOF SLABS WITH GOAL TACK	LOUNGE	10	10	4100	"
BB-4	MULTI-ZONE UNIT WITH 80% MEMBRANE APPLIED WITH GOAL TACK MARIANNE SHALL BE SOLIDIFIED APPROVED BETWEEN ROOF SLABS WITH GOAL TACK	READING RM.	10	10	6100	"
BB-5	MULTI-ZONE UNIT WITH 80% MEMBRANE APPLIED WITH GOAL TACK MARIANNE SHALL BE SOLIDIFIED APPROVED BETWEEN ROOF SLABS WITH GOAL TACK	GAME RM.	10	10	5100	"

EXHAUST FAN SCHEDULE							
MARK	AREA SERVED	LOCATION	TYPE	CFM	RPM	HP	REMARKS
F-1	MEN'S TOILET	LOW ROOF	LOW CONTINUOUS	350	1000	1/2	V-BELT DRIVE WITH BACKDRAFT DAMPERS PROVIDE FIBERGLASS VENTILATOR HOUSING
F-2	WOMEN'S TOILET	LOW ROOF	LOW CONTINUOUS	350	1000	1/2	V-BELT DRIVE WITH BACKDRAFT DAMPERS PROVIDE FIBERGLASS VENTILATOR HOUSING
F-3	KITCHEN	HIGH ROOF	UTILITY SET	760	1450	1/2	V-BELT DRIVE WITH BACKDRAFT DAMPERS PROVIDE FIBERGLASS VENTILATOR HOUSING
F-4	ATTIC BELIEF OR SUMMER VENTILATION	HIGH ROOF	DUAL CENTRIFUGAL	4900	1830	1/2	V-BELT DRIVE WITH BACKDRAFT DAMPERS PROVIDE FIBERGLASS VENTILATOR HOUSING
F-5	SUMMER VENTILATION	HIGH ROOF	DUAL CENTRIFUGAL	4900	1830	1/2	V-BELT DRIVE WITH BACKDRAFT DAMPERS PROVIDE FIBERGLASS VENTILATOR HOUSING

DIFFUSER SCHEDULE								
MARK	NO. REQ'D	LOCATION	TYPE	CFM	NECK SIZE	VELOCITY F.P.M.	THROW FT.	REMARKS
SD-1	4	LOUNGE	"	420	10" D.	1060	6	TITILE & BAILEY TYPE DF 10" DIA WITH DAMPER & GRID
SD-2	1	LOBBY	"	100	6" D.	760	5	"
SD-3	4	MEN'S TOILET	"	600	12" D.	1960	14	"
SD-4	2	WOMEN'S TOILET	"	230	10" D.	600	4 1/2	"
SD-5	1	OFFICE	"	240	8" x 9"	1110	4.8	"
SD-6	2	COAT ROOM	"	190	6" x 6"	1000	4.4	"
SD-7	1	VESTIBULE	"	100	10" D.	525	1	"

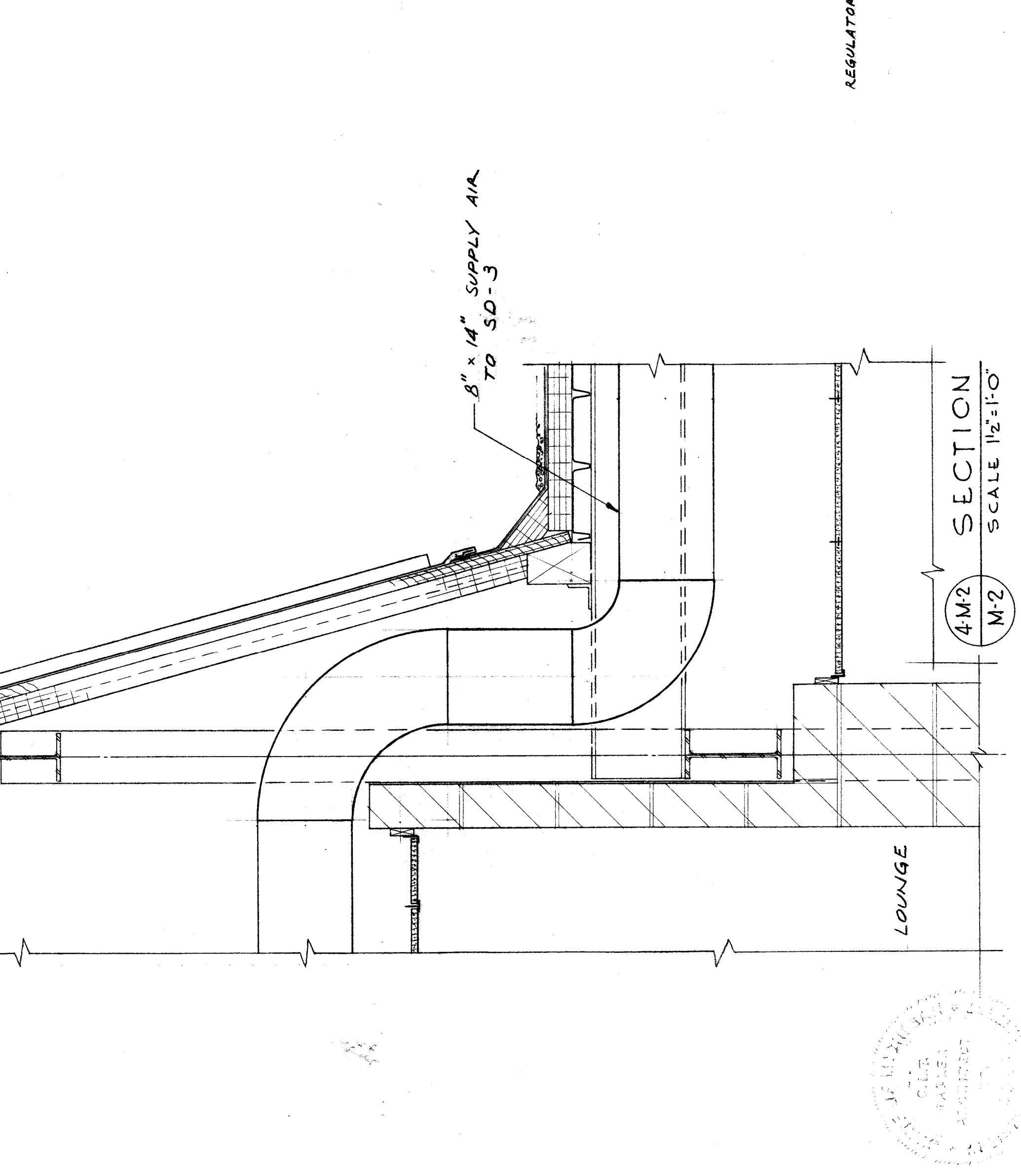
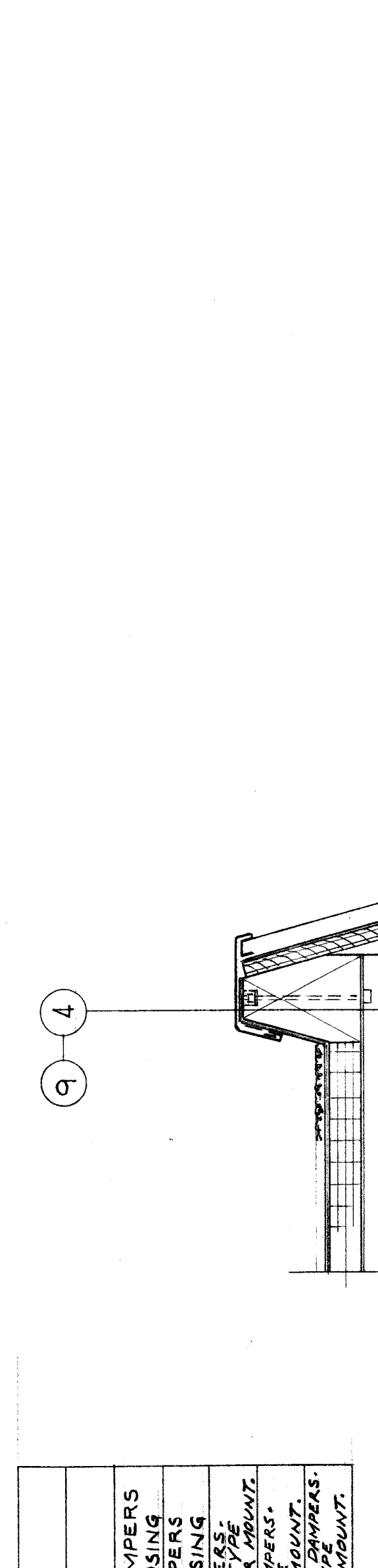
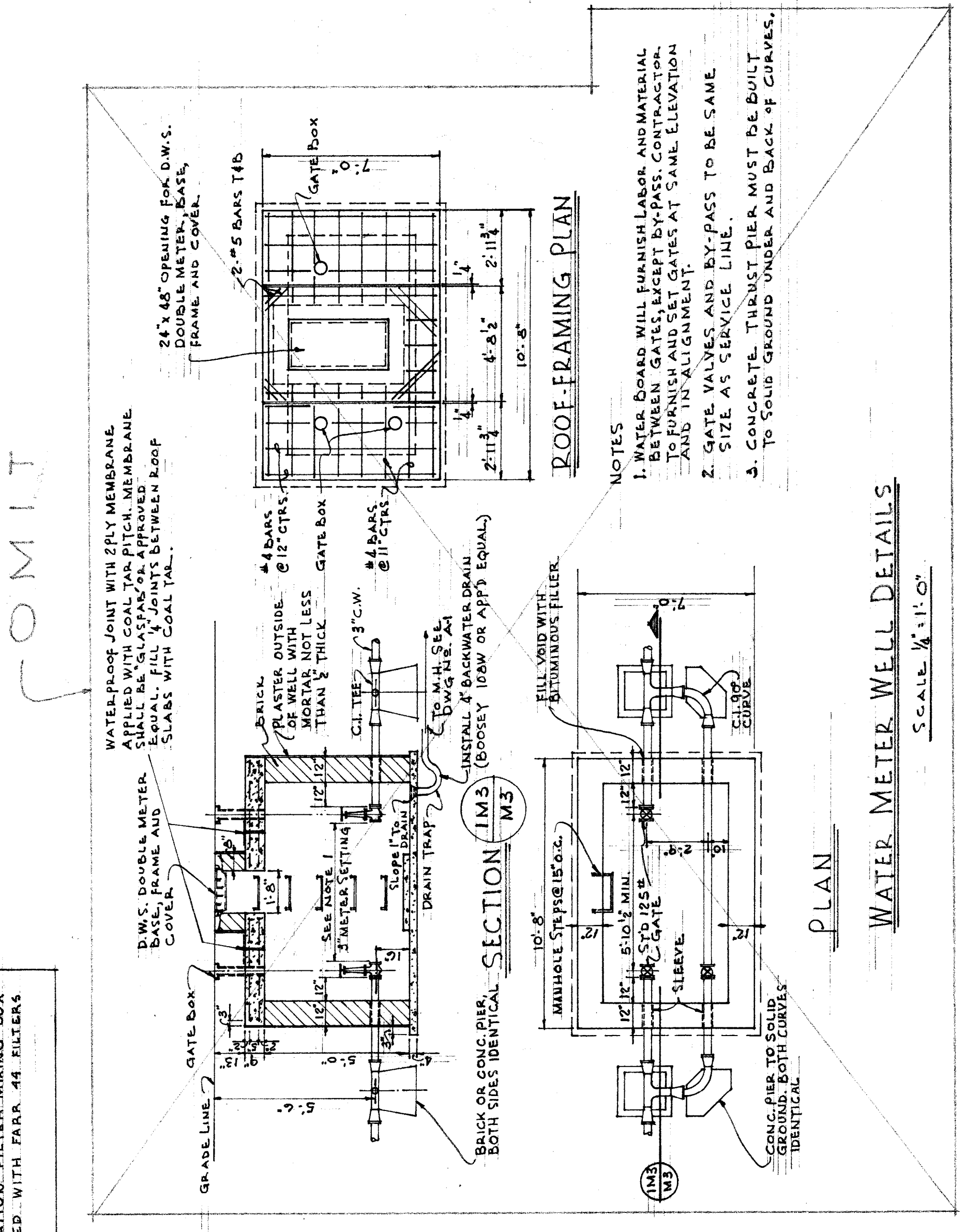
* STEEL CONSTRUCTION WITH PRIME COAT.

GRILLE SCHEDULE						
MARK	NO. REQ'D	LOCATION	CFM	SIZE	TYPE	REMARKS
RG-1	2	LOUNGE	3750	48" x 36"	TITILE & BAILEY	NR T O D
RG-2	4	MEN'S TOILET	600	10" x 12"	"	"
RG-3	2	WOMEN'S TOILET	700	10" x 24"	"	"

* STEEL CONSTRUCTION WITH PRIME COAT.

EXHAUST REGISTER SCHEDULE						
MARK	NO. REQ'D	LOCATION	CFM	SIZE	TYPE	REMARKS
ER-1	2	MEN'S TOILET	350	18" x 18"	TITILE & BAILEY	NR 7808
ER-2	2	WOMEN'S TOILET	350	18" x 18"	"	"
ER-3	1	KITCHEN	760	16" x 24"	"	T 78

* STEEL CONSTRUCTION WITH PRIME COAT.



RECREATION CENTER FOR THE HANDICAPPED SCHEDULES, DIAGRAMS & DETAILS

CONTROL DIAGRAM

ELECTRIC HEATING CONTROL FOR BASEBOARD RADIATION

ELECTRIC HEATING CONTROL FOR BASEBOARD RADIATION

RECREATION CENTER FOR THE HANDICAPPED SCHEDULES, DIAGRAMS & DETAILS

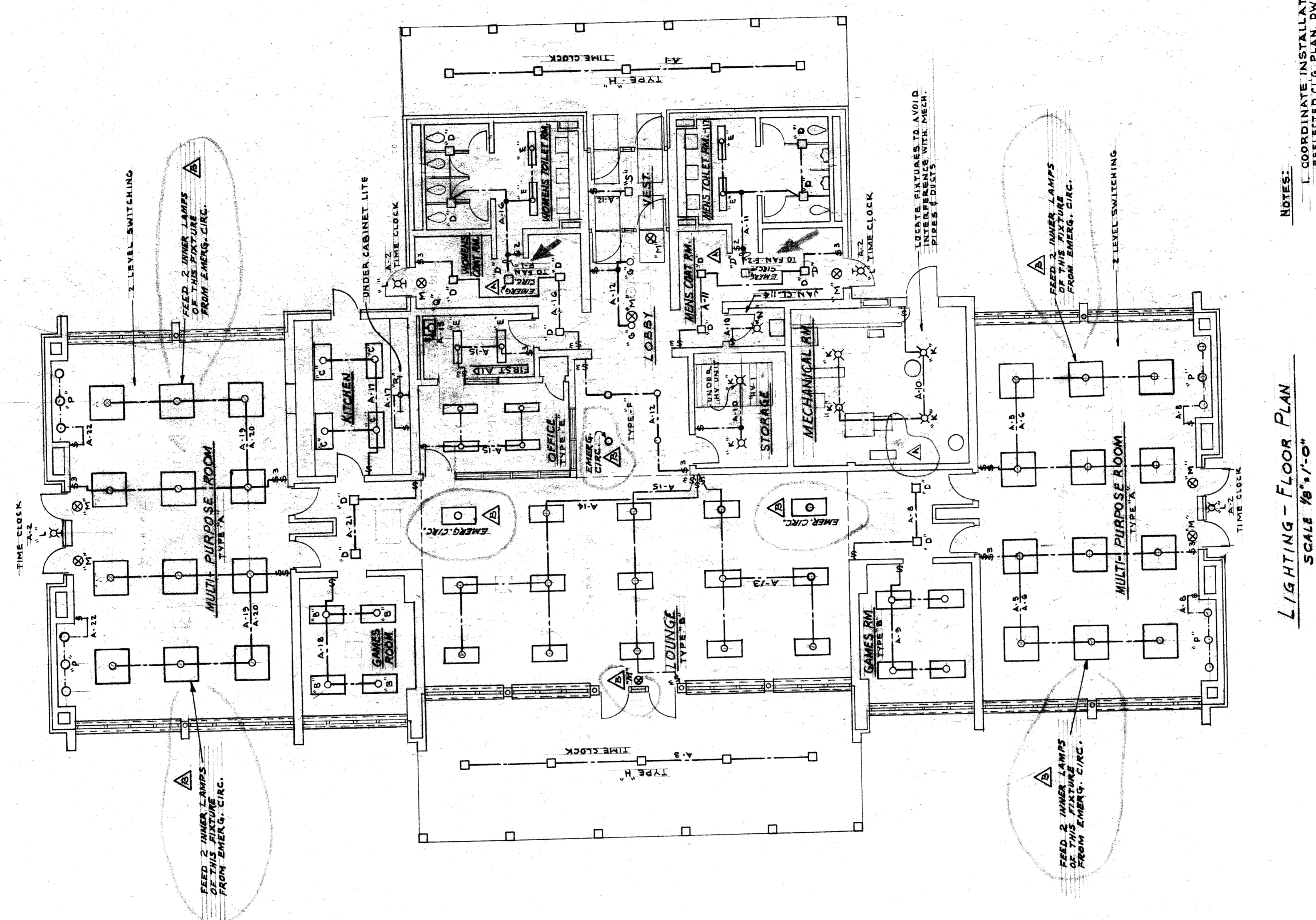
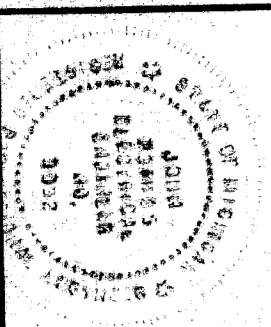
PREPARED BY: CORNELIUS L.T. GABLER A.I.A. AND ASSOCIATES ARCHITECTS AND ENGINEERS 3300 BOOK BUILDING - DETROIT - 48226 MICHIGAN

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE

DEPARTMENT OF PARKS & RECREATION

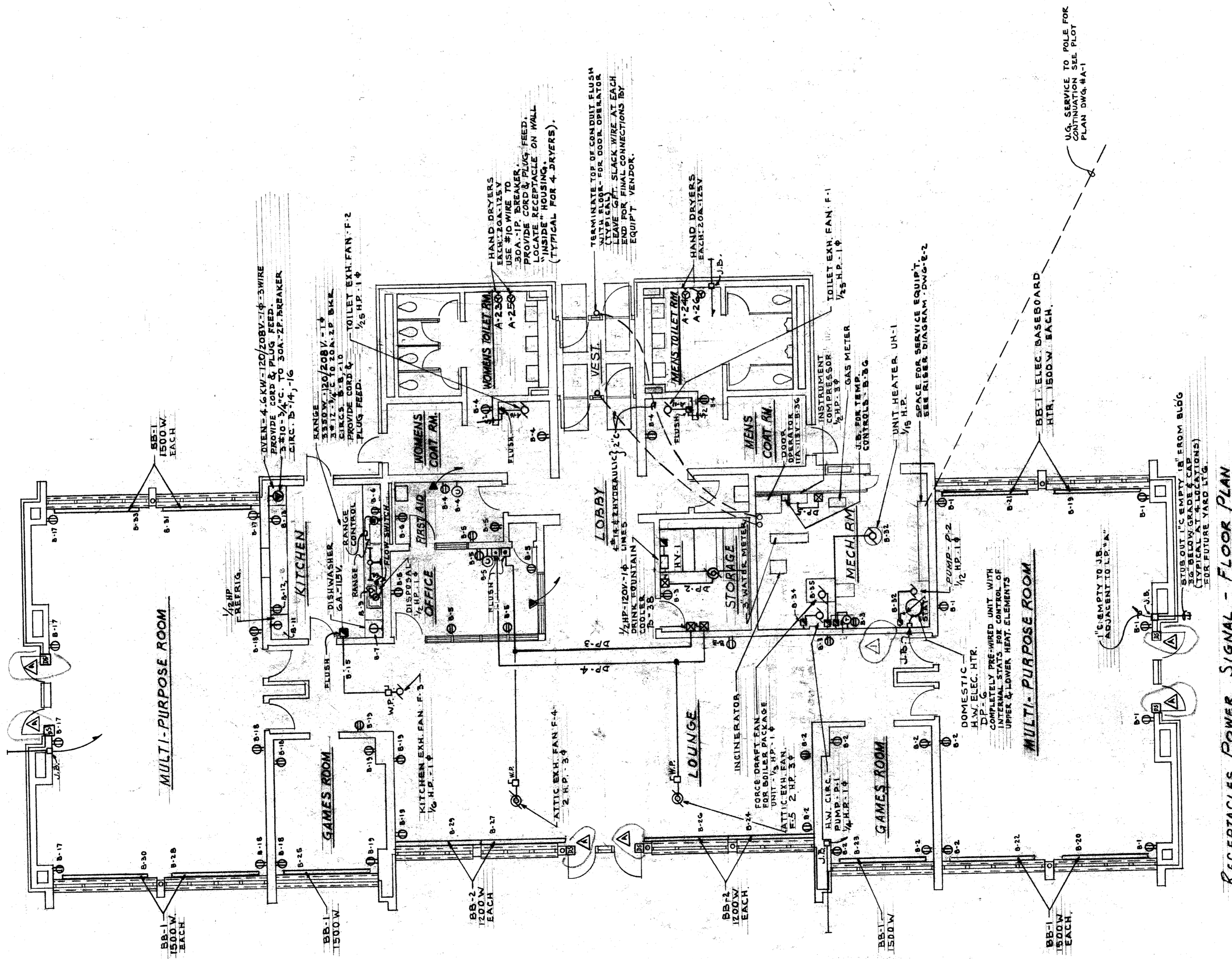
SHEET 13 OF 15 SHEETS CONTRACT NO. PR-198 DRAWING NO. M-3 DATE JUNE 30, 1967

NO.	DESCRIPTION	DATE	BY	APPROVED



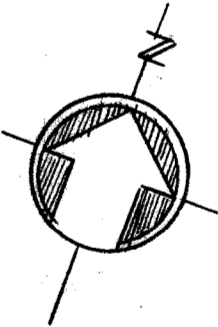
Lighting - Floor Plan
Scale 1/8" = 1'-0"

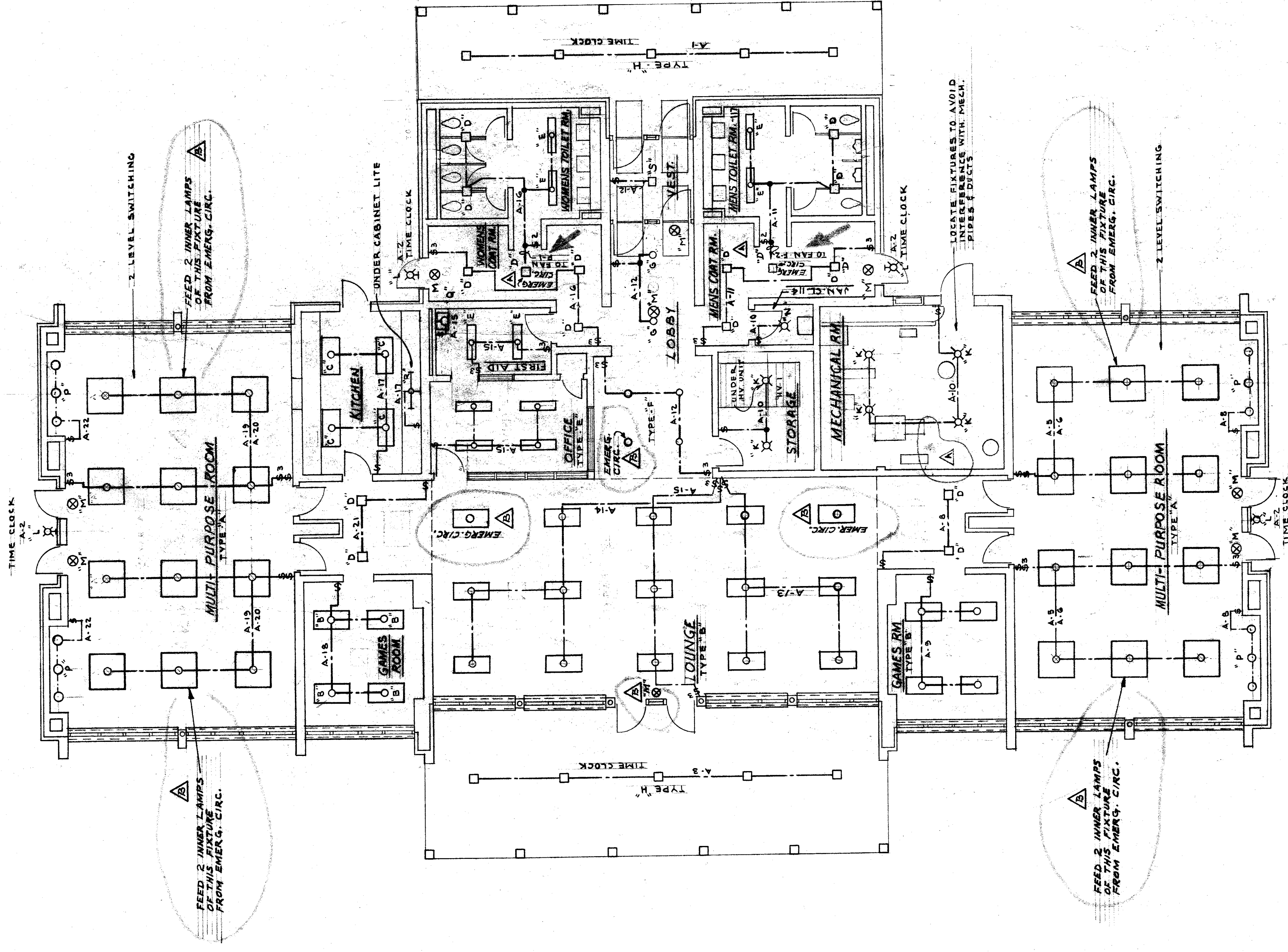
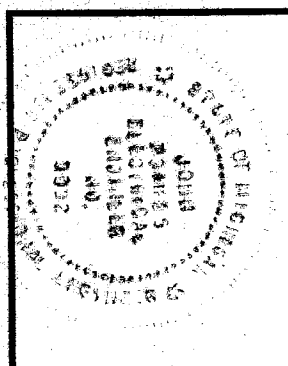
NOTES:
1. COORDINATE INSTALLATION OF FIXTURES WITH REFERRED C.G. PLAN, DWG. P.A.-3



Receptacles, Power, Signal - Floor Plan
Scale 1/8" = 1'-0"

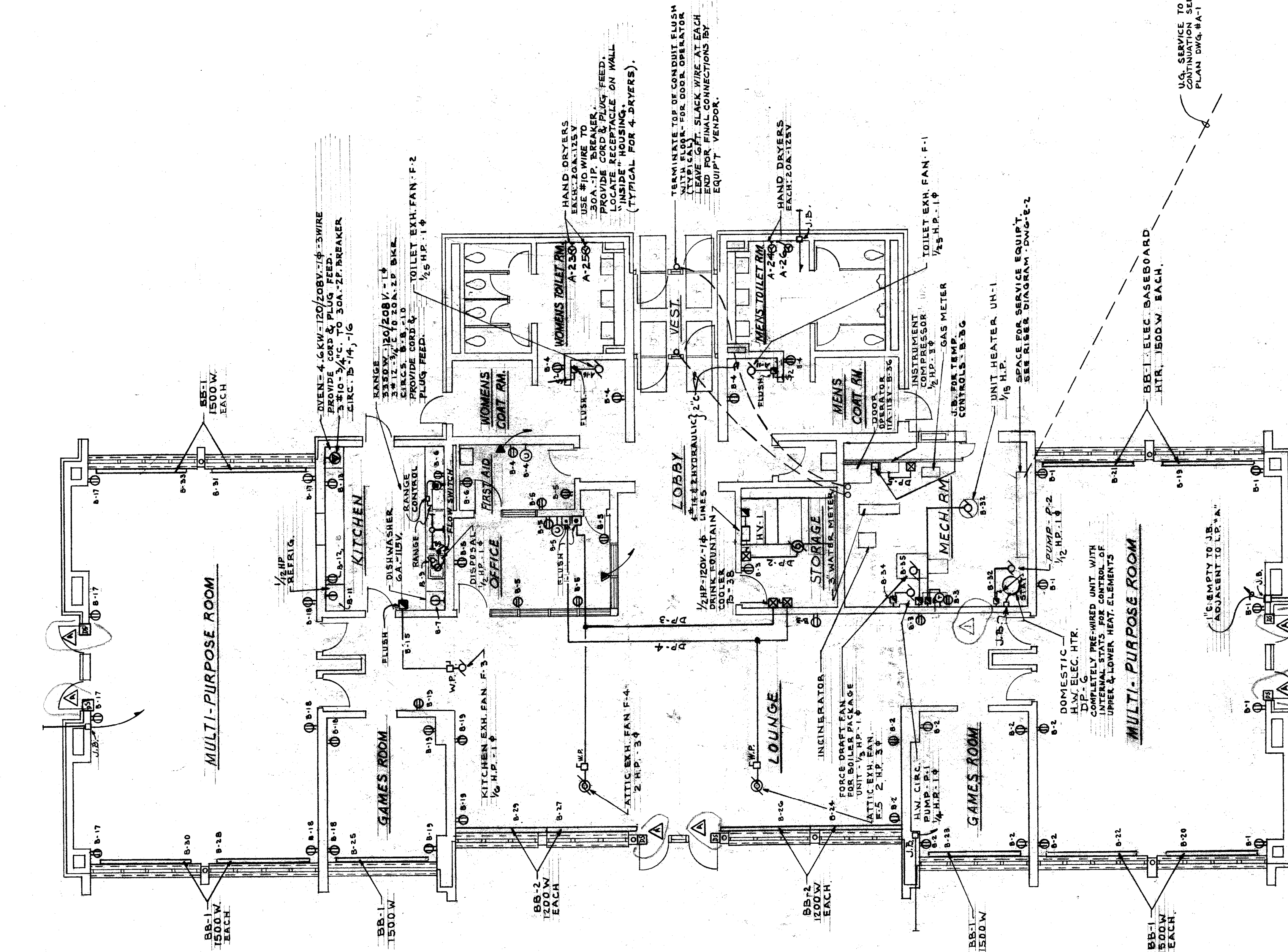
NOTES:
1. FOR MECHANICAL EQUIPMENT SCHEDULE
2. SEE DWG. M.-3



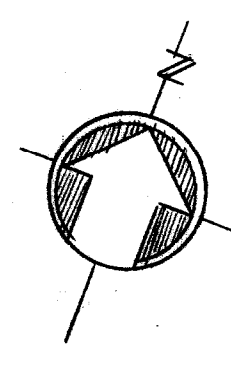


RECREATION CENTER
FOR THE HANDICAPPED
POWER & LIGHTING PLANS

NOTES:
I. COORDINATE INSTALLATION OF FIXTURES WITH REFLECTED LIGHTING DIAGRAM.



RECEPTACLES, POWER, SIGNAL - FLOOR PLAN
SCALE 1/8" = 1'-0"



NOTES:
I. FOR MECHANICAL EQUIPMENT SCHEDULE SEE DWG. M-3

SHEET 14 OF 15 SHEETS
CONTRACT NO. PR-198
DRAWING NO. E-1
DATE JUNE 30, 1967.

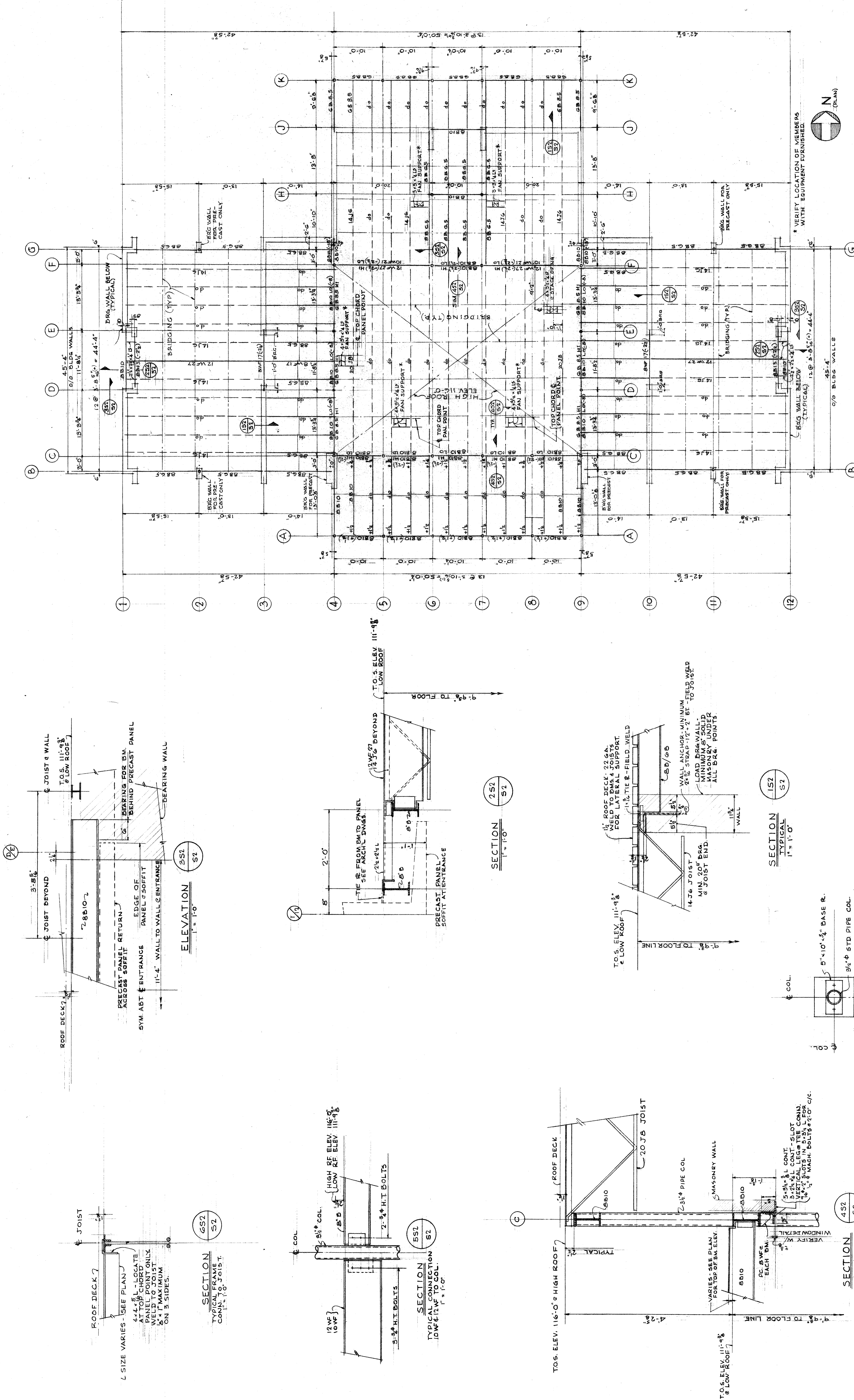
RECREATION CENTER
FOR THE HANDICAPPED
POWER & LIGHTING PLANS

PREPARED FOR
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
FOR
DEPARTMENT OF PARKS & RECREATION

PREPARED BY
CORNELIUS L.T. GABLER A.I.A. AND ASSOCIATES
ARCHITECTS AND ENGINEERS
3300 BOOK BUILDING - DETROIT - 48226 MICHIGAN

NO.	DESCRIPTION	DATE	BY	CHK'D	APVD	REFERENCE
1	ADDED - G. DOOR SINK FOR EXH. SYSTEM	1-15-67	J.P.	J.P.		
2	CHANGED - TYPING ROOM TO MECHANICAL ROOM	1-15-67	J.P.	J.P.		
3	DELETED - DOOR & SWITCH	1-15-67	J.P.	J.P.		
4	ADDED - G. DOOR SINK FOR EXH. SYSTEM	1-15-67	J.P.	J.P.		
5	ADDED - G. DOOR SINK FOR EXH. SYSTEM	1-15-67	J.P.	J.P.		

REVISIONS

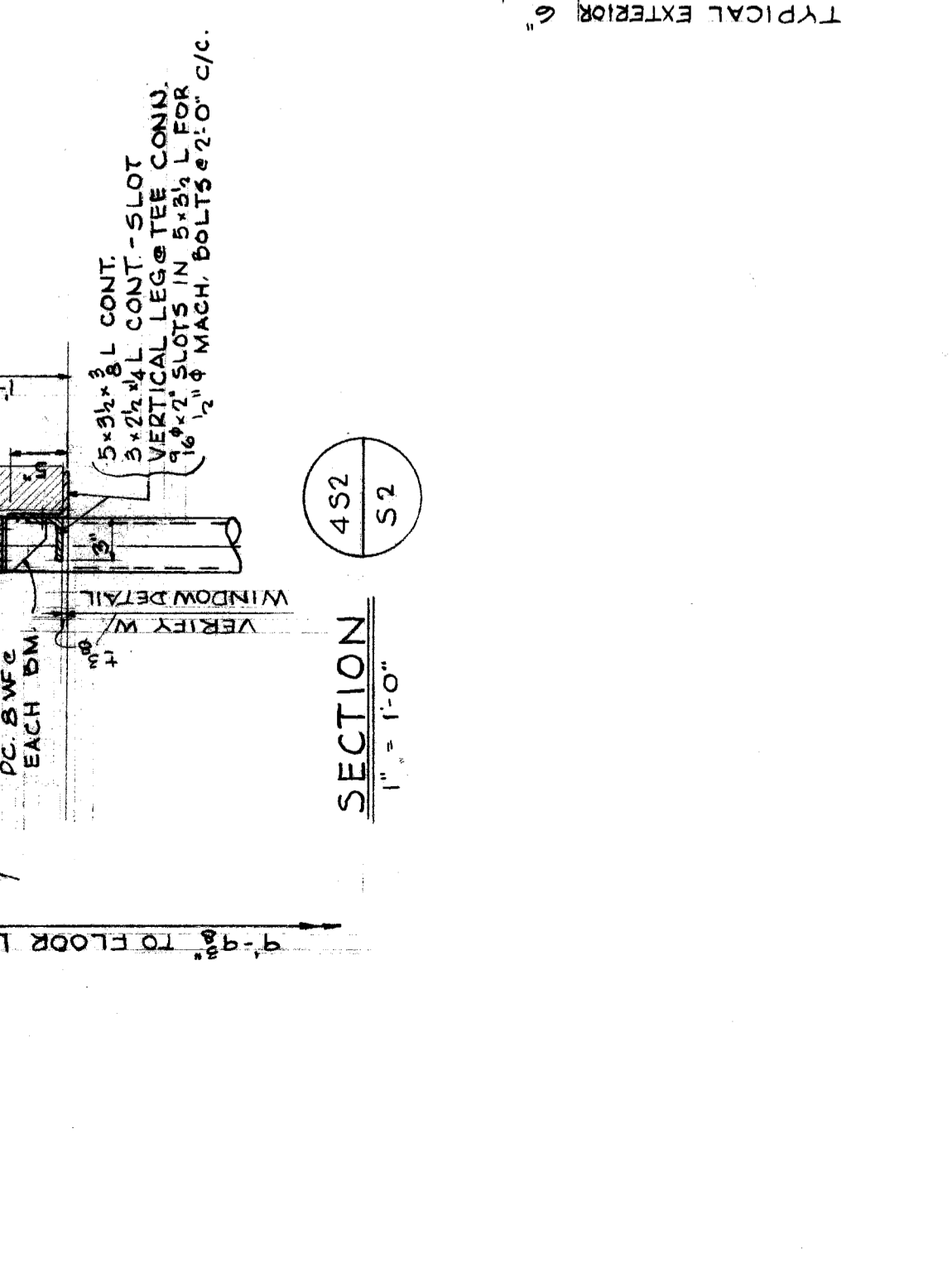
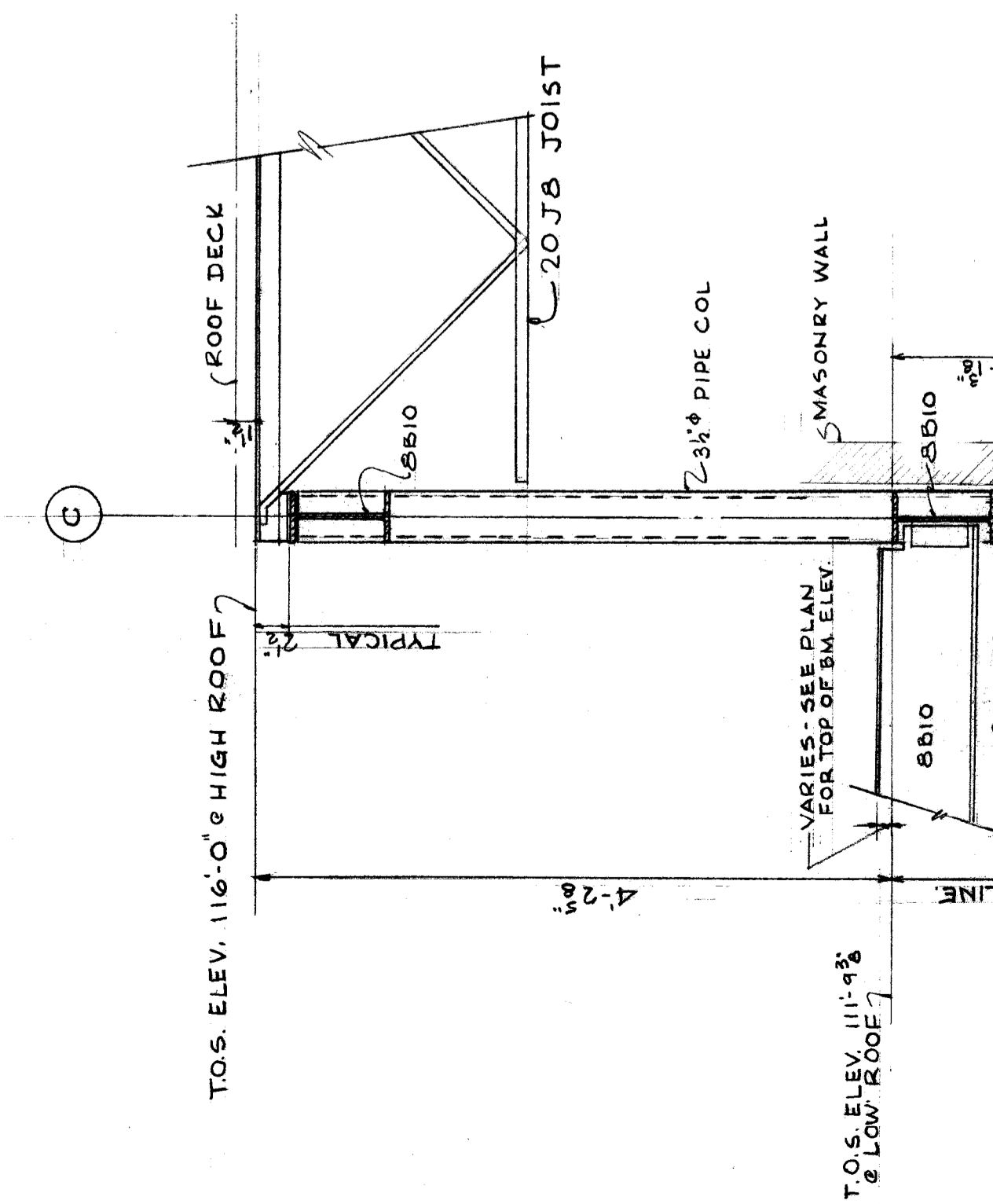
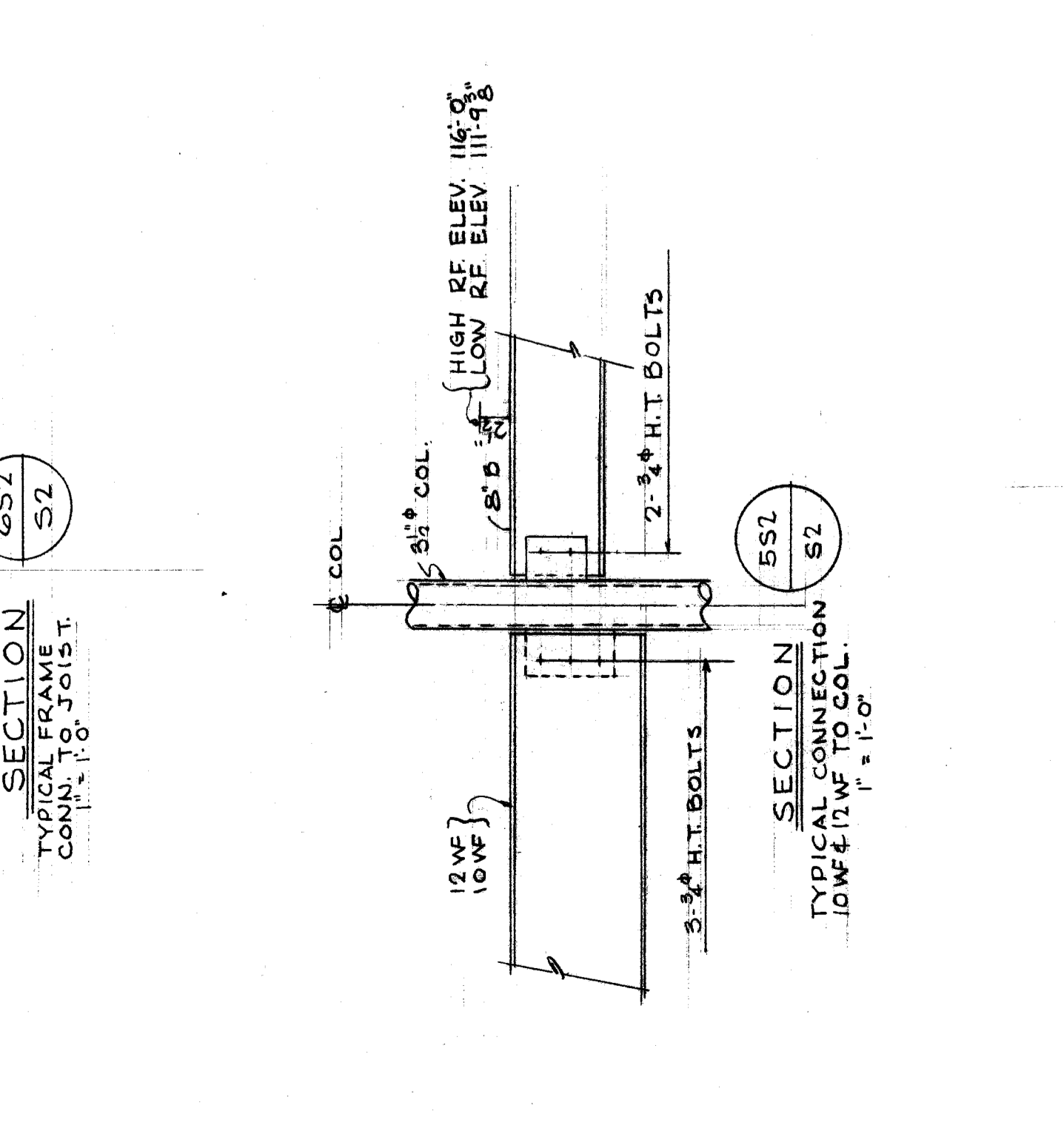
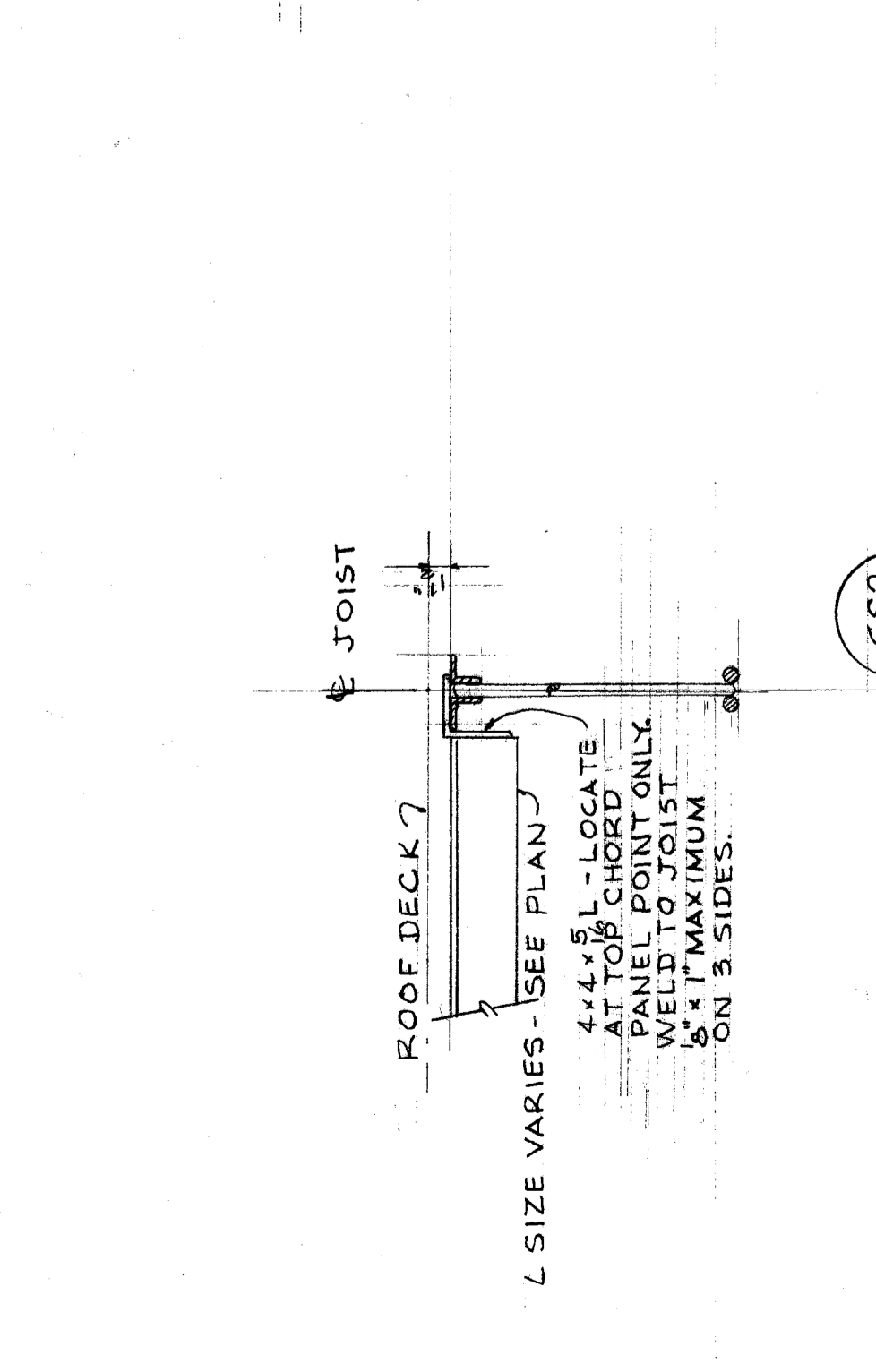
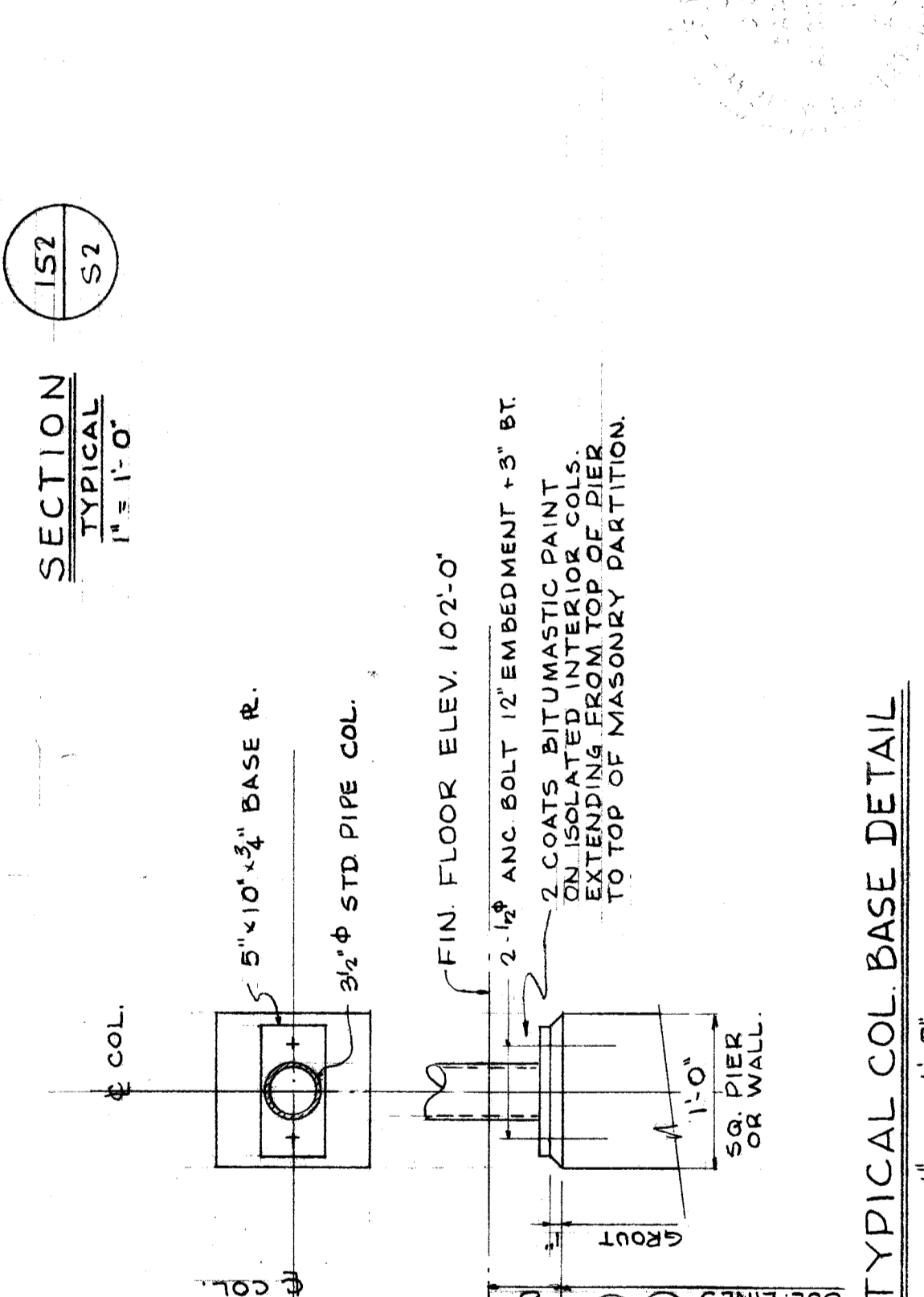
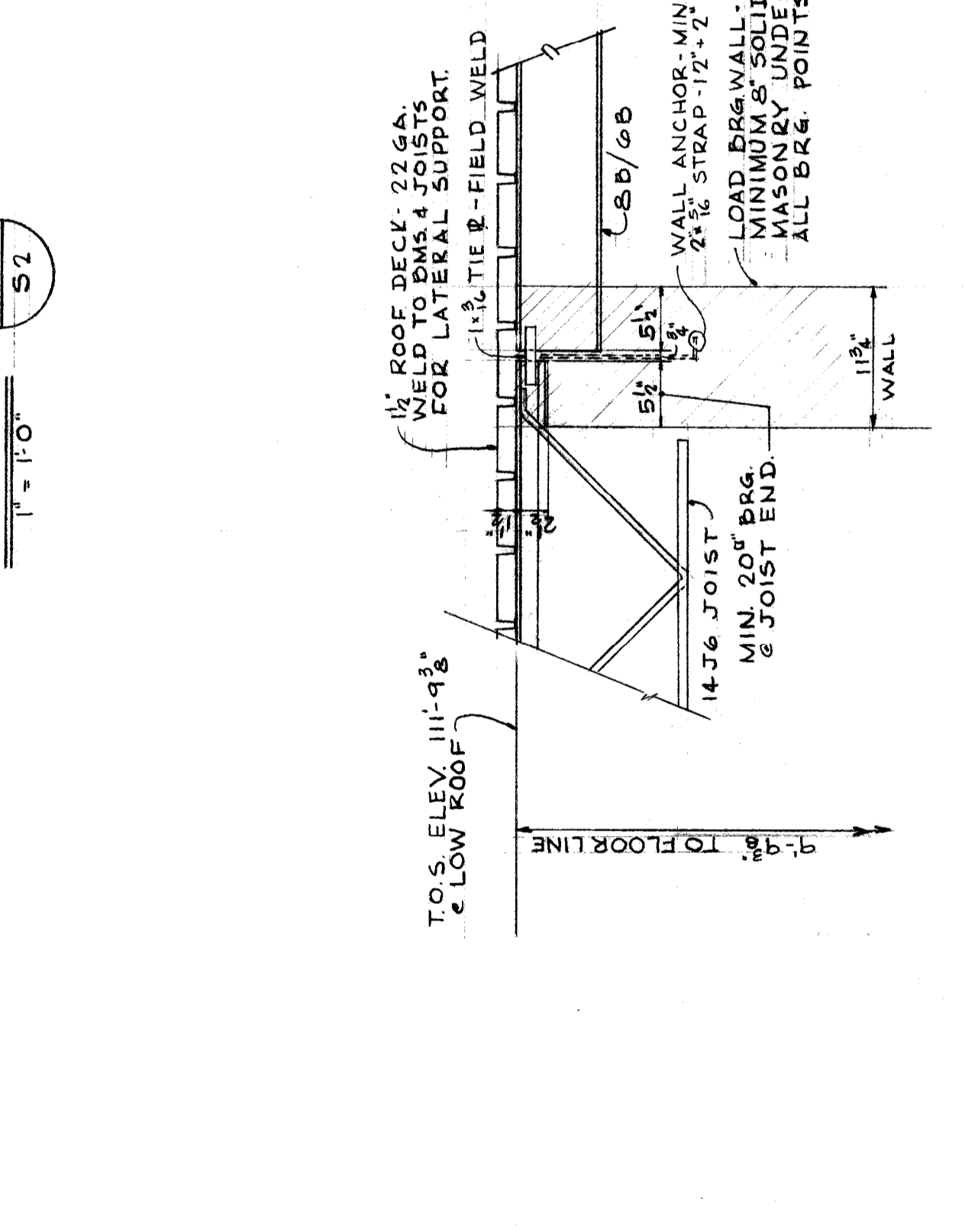
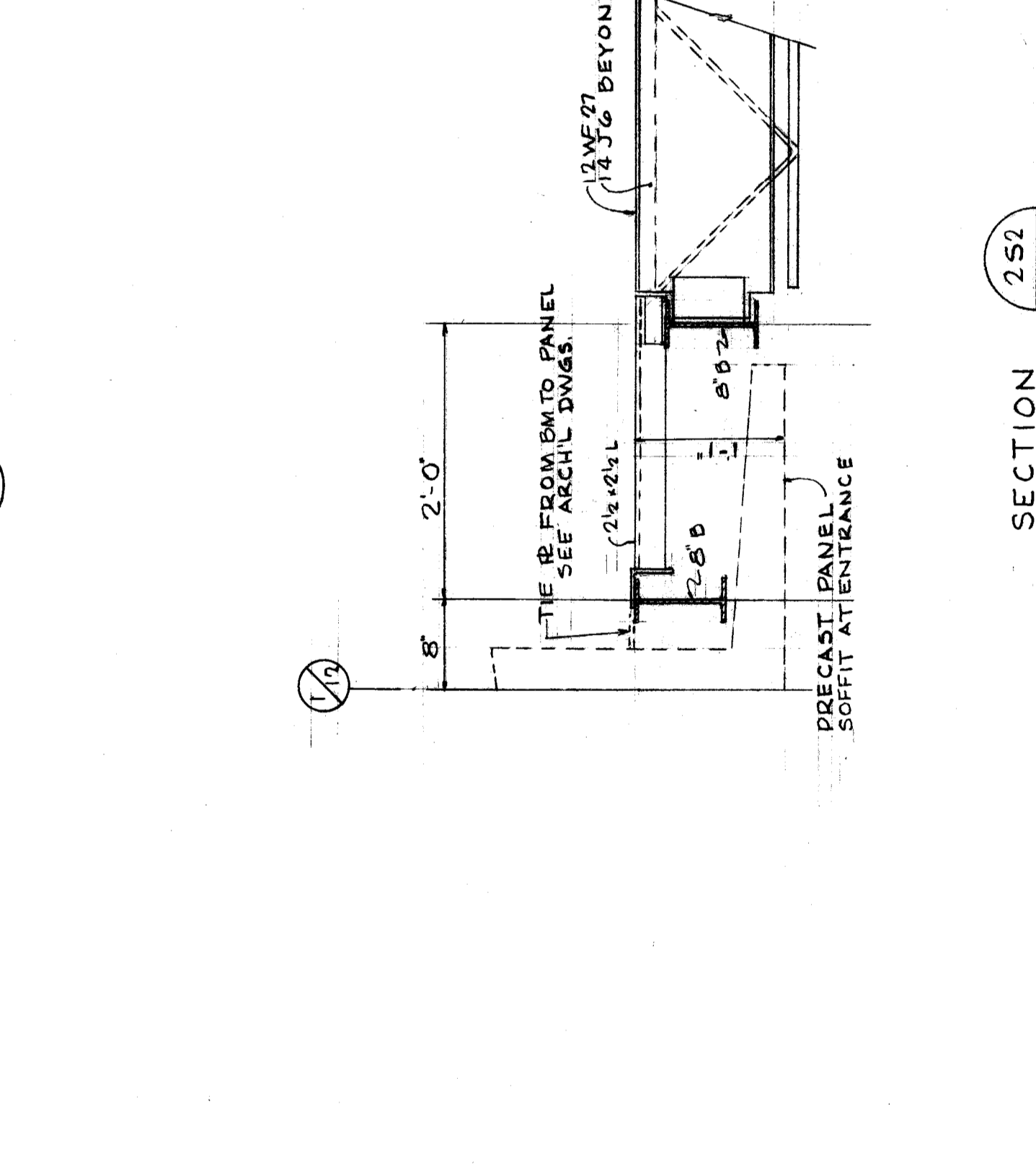
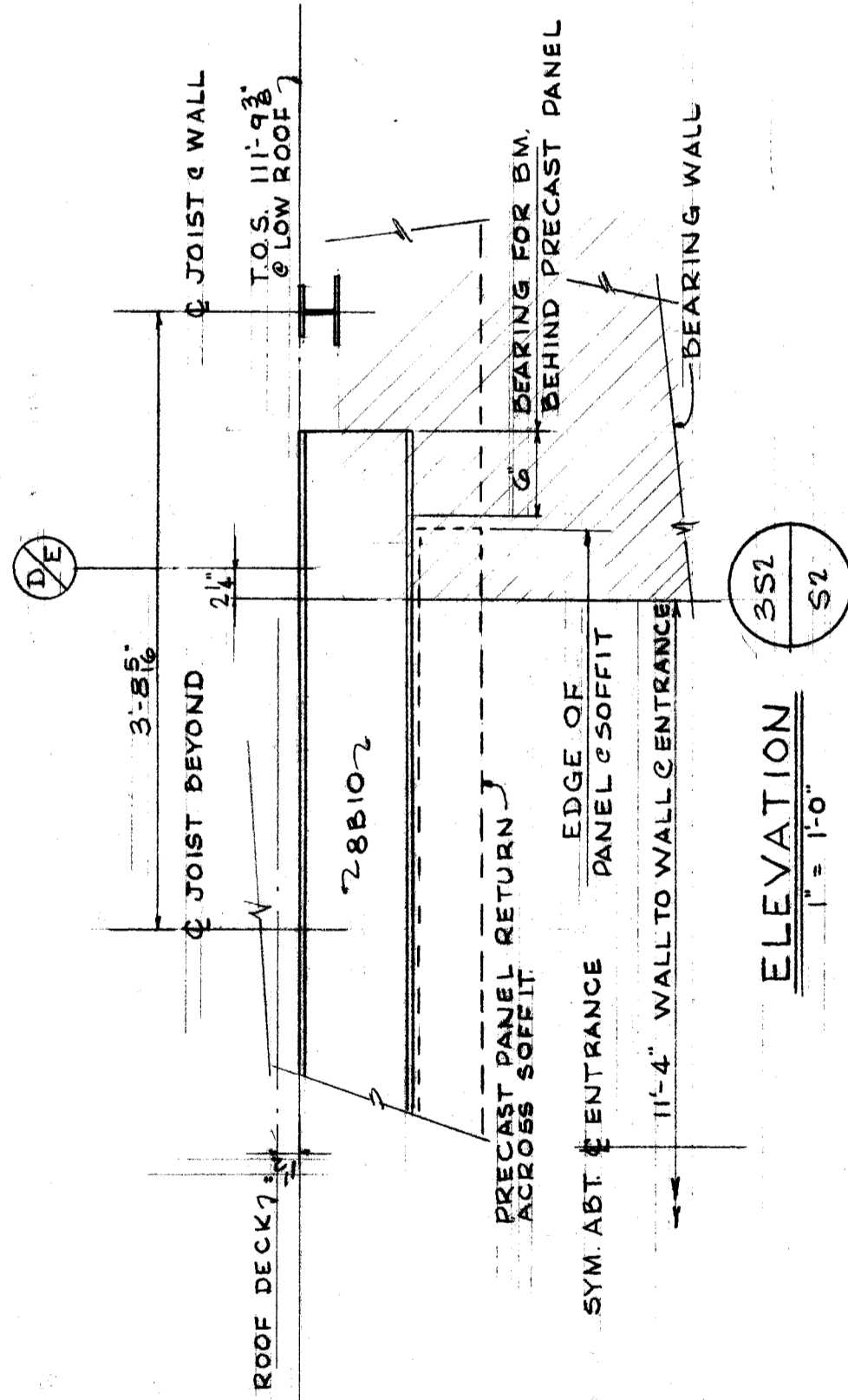


ROOF FRAMING PLAN
SCALE 1/8" = 1'-0"

ROOF LOADS:

TILE CLG. AREAS	BUILDUP	LL LOAD	TOTAL
PLASTER CLG AREAS 21 1/2'	16 1/2'	30 1/2'	46 7/8'
PORCH AREAS 25 1/2'	25 1/2'	50 1/2'	75 1/2'
		50 1/2'	55 1/2'

- NOTES:
- ALL COLUMNS 3/4" STANDARD PIPE.
 - PROVIDE WALL ANCHORS AT ENDS OF ALL BEAMS.
 - SPALL BEAMS JOISTS.
 - ALL JOISTS TO HAVE CEILING EXTENSIONS.

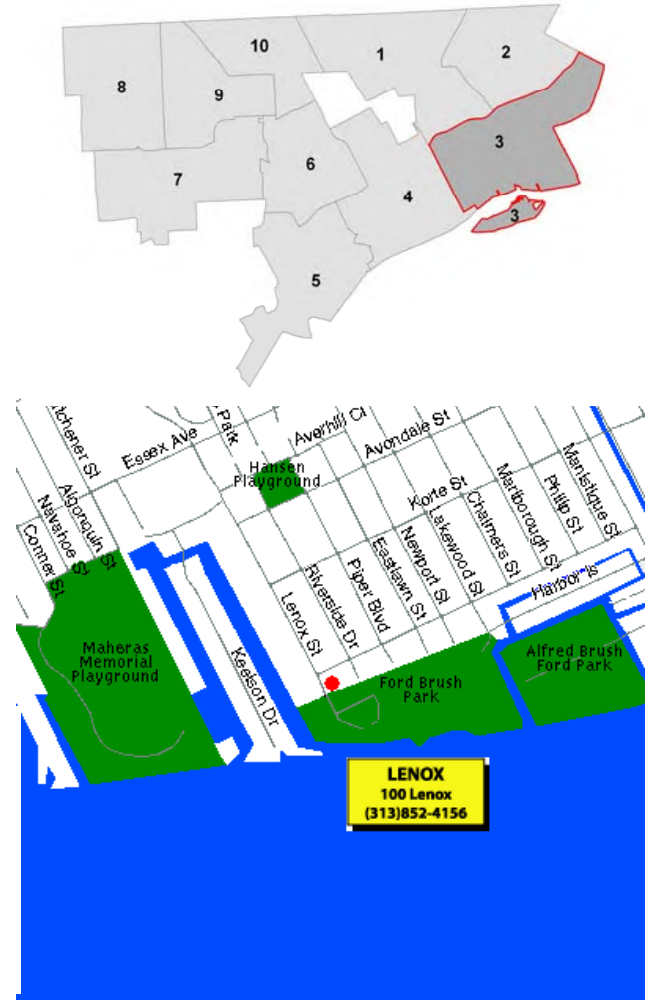


RECREATION CENTER FOR THE HANDICAPPED		ROOF FRAMING PLAN & DETAILS	
PREPARED FOR	CITY OF DETROIT	PREPARED BY	CORNELIUS L.T. GABLER A.I.A. AND ASSOCIATES
CONTRACT NO.	PR-198	ARCHITECTS AND ENGINEERS	3300 BOOK BUILDING - DETROIT - 48226 MICHIGAN
DRAWING NO.	S-2	JOB NO.	6611
DATE	JUNE 30, 1967	DRWN	R.W.
		TRD	JES, R.W.
		CHK'D	R.W.
		APVD	<i>Cornelius L.T. Gabler</i>
		REFERENCE	
		DATE	
		APVD	
		DRAWINGS	
		REVISIONS	

LENOX RECREATION CENTER

CONDITION AND CAPACITY REPORT

Classification:	Special Use Recreation Center
Cluster:	3
Location:	100 Lenox, Detroit, MI 48207
Total Area:	Approx. 5650SF
No. of Stories	Single Story Facility
Acreage Owned:	33.88 acres (Ford Park 234)
Acquired:	1970
Most Recent Improvements:	Kitchen renovations, new ceiling tiles in outstanding areas, repairs to ADA violations and DED plug installed for ceramics kiln in 2005. New Ceiling tiles, Kitchen equipments, light fittings, cupboards, power outlets, Main Entrance doors and Exit doors. All new windows Summer 2004.



Description:

The Lenox Recreation Center is a Special Use Facility for the Developmentally Disabled. It is located in the South-East corner of the city and overlooks the lake.

The Center's main facilities include an Arts and Crafts room, Classrooms, Multi-purpose room, Bicycle Storage and a kitchen.

South facing View – Lenox Recreation Center



LENOX RECREATION CENTER

CONDITION AND CAPACITY REPORT



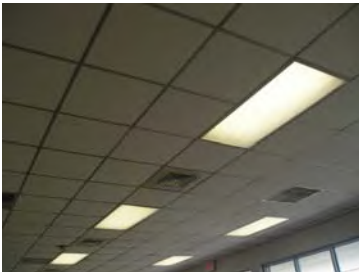
Picture left shows the kitchen. There is no fire suppression system in the kitchen.

Picture right shows GFCI power sockets near the kitchen sink.



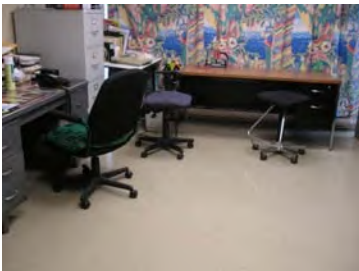
Picture left shows the multipurpose / arts and crafts room. The light fixture covers are dirty and need to be properly cleaned or replaced.

Picture right shows the main lobby. This area is used for exercise in the winter. A gymnasium is urgently needed in this facility.



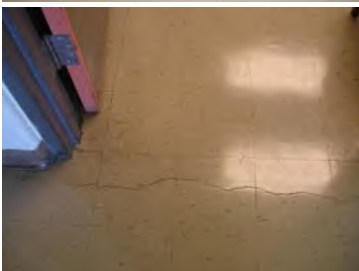
Picture left shows the ceiling over the main lobby. The ceiling is in good condition.

Picture right shows the disability office. Floor walls and ceiling are in good condition.



Picture left shows the disability office. The floor is finished with vinyl composite tiles.

Picture right shows the main lobby looking towards the main reception office. The windows and glazing of the main office are in good condition.



Picture left shows cracks in vinyl composite tiles at the threshold to the disability office.

Picture right shows the main office.



Picture left shows a storage room which is also the boiler room. The floor and walls are in good condition.

Picture right shows a storage area behind the main office.



LENOX RECREATION CENTER

CONDITION AND CAPACITY REPORT



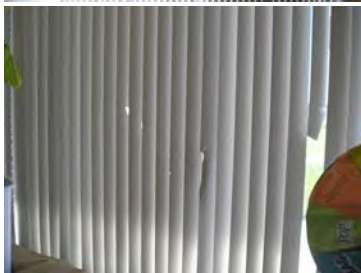
Picture left shows a view of the metal roofing over the boiler room. The roofing appears to be in fairly good condition.

Picture right shows the storage used for bicycles for the cycling program. The storage is inadequate and the floor tiles are in fair condition.



Picture left shows the ceiling over the cycle storage room. This is in good condition.

Picture right shows the classroom / arts and crafts room. Some of the vinyl floor tiles are broken.



Picture left shows some of the blinds are broken or falling off in the classroom.

Picture right shows the classroom / arts and crafts room. The light fixture covers are dirty and need to be cleaned or replaced.



Picture left shows the copier room. The walls are in good condition. The space is however inadequate for the requirements of the facility.

Picture right shows a hallway and exit area by the women's restroom used for janitorial storage. This is inappropriate.



Picture left shows the wash hand basins in the women's restroom.

Picture right shows an ADA accessible toilet in the women's restroom. The floor, walls, ceiling and partition are in good condition.



Picture shows another exit hallway used for ceramics and other storage, again inappropriate.

Picture right shows an ADA accessible toilet in the men's restroom. The floor, walls, ceiling and partition are in good condition.



LENOX RECREATION CENTER

CONDITION AND CAPACITY REPORT



Picture left shows the urinals in the men's restroom. The partitions are rusting.

Picture right shows a ceiling in the hallway near the men's restroom. One of the light fixture covers is missing.



Picture left shows a janitor's storage area in fair condition. The door is not ADA accessible.

Picture right shows the walkway between the building and the fishing pier. This is in fairly good condition. The turf around the building is in fairly good condition.



Picture above shows a picnic shelter on the south-west side of the building. The shelter is in fairly good condition.

Picture left shows the parking area. There are disabled designated parking spaces and the asphalt paving is in good condition.

Picture right shows the building and looking in the direction of the fishing pier.

Picture below shows some of the turf around the building in good condition.



LENOX RECREATION CENTER

CONDITION AND CAPACITY REPORT

Condition and Capacity Report

Facility/Classification: Lenox Recreation Center

Cluster: 3

ID Number: 22

Rating Summary: Condition: Poor Fair Good
 Capacity: Under Near At Over

CONDITION	Condition				Capacity			Notes	
	Reporting Factors	Poor	Fair	Good	None	Under	At		Over
1	Roof and Roofing			X					There are a few areas of patches where there should be grass and there are some areas of overgrown grass.
2	Exterior Envelope								
	a Parking			X					
	b Paving		X						
	c External Lighting			X					
3	Facade								
	a External Walls			X					
4	Interior								
	a Floors			X					
	b Walls			X					
	c Ceilings			X					
5	Doors and Windows								
	a Doors		X						
	b Windows			X					
6	Electrical								
	a Sockets			X					
	b Switches			X					
	c Light Fittings		X						
	d Electrical Fittings		X						
7	Mechanical Installations								
	a Heating / Air-Conditioning		X						
	b Vents and Ventilation			X					
8	Plumbing								
	a Sanitary fixtures			X					
	b Piping / Water Supply		X						
9	Furniture, Fixtures, Equipment								
	a Lockers				X				
	b Closets		X						
	c Tables and Chairs		X						
10	Landscaping								
	a Trees			X					
	b Shrubs			X					
	c Planting Beds				X				
	d Turf			X					
	a Features				X				

LENOX RECREATION CENTER

CONDITION AND CAPACITY REPORT

CAPACITY Reporting Factors		Condition				Capacity			Notes
		Poor	Fair	Good	None	Under	At	Over	
1	Gymnasium				X				
2	Walking Track				X				
3	Weight Room				X				
4	Fitness Room				X				
5	Swimming Pool, Office				X				
6	Staff Lockers, Showers				X				
7	Multipurpose Room / Dining Area			X			X		
8	Arts and Crafts / Ceramics			X			X		
9	Computer Room				X				
10	Reading Room / Library				X				
11	Games Room				X				
12	Dance / Aerobics room				X				
13	Offices			X		X			
14	Classrooms				X				
15	Meeting Room				X				
16	Kitchen		X			X			There is no fire suppression system.
17	Lobby / Reception, Signage			X			X		
18	Vending Area				X				
19	Security / Membership card system				X				
20	Restrooms		X				X		The partitions in the restrooms (especially the men's restroom) are rusting.
21	Drinking Fountains				X				
22	Security Alarm / Fire Protection				X			X	
23	Janitorial and Storage Facilities		X					X	
24	ADA Accessibility			X		X			
25	Lighted Parking Lot		X			X			
26	Locker rooms and Showers				X				
27	Phone / Data System		X			X			
28	Closed Circuit TV in Lobby				X				
29	Building Security Lighting outside		X						
30	First Aid Station / Office		?						
31	Placement of bushes / Shrubbery			X					
32	Electrical / Mechanical Room		X				X		
	OPTIONAL FACILITIES								

Condition Summary and Recommendations

The Lenox Recreation Center is a Special Use Facility for the Developmentally Disabled. It is located in the South-East corner of the city and overlooks the lake. The facility is in a residential area.

The Center's main facilities include an Arts and Crafts room, Classrooms, Multi-purpose room, Bicycle Storage and a kitchen.

Roof

The Roof is in fair condition and has had to be patched in some areas.

Exterior Envelope

The parking area is paved with asphalt and this is in good condition. The concrete paved walkways around the building are in fair condition. There are a few cracks in the pavement that need to be repaired.

Facade

The external walls are in good condition.

Interior

The internal walls, floors and ceilings are in good condition. However some of the metal partitions in the restrooms are rusting and need to be repaired or replaced. The vertical window blinds in the classroom and arts and craft room are in poor condition and need to be replaced.

Doors and Windows

New windows were installed in the building in the summer of 2004 and these are in good condition. A few doors with non ADA accessible handles need their handles replaced.

Electrical Installations

Several of the light fixture covers are stained and need to be properly cleaned out. The sockets and switches are in good condition.

Mechanical Installations

The heating and air-conditioning in the building are working properly. The HVAC vents are in good condition.

Plumbing

The sanitary fixtures are in good condition. The piping is generally in good condition.

Furniture, Equipment and Fixtures

There are no lockers in this facility. There is a shortage of storage space and some items are stored in exit lobby areas.

Landscaping and External facilities

The trees, shrubs and grass around the building are in fairly good condition.

Recommendations

The Lenox Recreation Center is located in Cluster 3 in the south-eastern corner of the City and is bordered by the Detroit River running along its south side. The Lenox Recreation Center is designated for use by physically and mentally handicapped persons. The external walls are clad in brick which is in fair condition. The building has several large external windows which are in good condition. To comply with the prototype standards, these windows would have to be replaced with glass blocks. ***The Lenox Recreation Center is in good condition, under capacity and recommended for improvement.*** For the Lenox Recreation Center to be upgraded to meet prototype standards for a Special Use Recreational facility, the following facilities would have to be added to the center:

1. Gymnasium
2. Walking track
3. Weight room
4. Fitness Room
5. Staff Lockers, showers
6. Locker Rooms and Showers
7. Arts & Crafts / Ceramics
8. Computer room
9. Reading room / Library
10. Games Room
11. Dance / Aerobics room
12. Meeting Room
13. Vending Area

Additional facilities which are missing or require extensive upgrade include:

1. Security / Membership System
2. Security Alarm / Fire Protection
3. Drinking Fountains
4. Upgrade phone / data system
5. Closed circuit TV
6. Kitchen equipment
7. New furniture
8. New Computers
9. Upgrade of Heating, Ventilation and Air-conditioning systems to accommodate added facilities.

LENOX CENTER FACILITY ASSESSMENT



ALFRED BRUSH FORD PARK

DRAFT
April 24th, 2020

City of Detroit
General Services Department

INFORM STUDIO
ATLANTES
GREEN PATH DESIGN
PEA

TABLE OF CONTENTS

I	INTRODUCTION	2
II	INVESTIGATIVE APPROACH	2
III	ESTIMATE APPROACH	3
IV	SITE ASSESSMENT	5
V	FACILITY ASSESSMENT	18
	V.1 BUILDING ENVELOPE	19
	V.2 BUILDING INTERIOR	21
	V.3 BUILDING SYSTEMS	24
VI	PHOTOGRAPHS	26
VII	ASSESSMENT WORKSHEET & COST SUMMARY	80
VIII	AS-BUILT PLANS	95

I INTRODUCTION

This project aims to revitalize the Lenox Center and A.B. Ford Park by crafting a safe, accessible & vibrant recreation center within a beautiful yet underutilized waterfront park, actively bridging the Jefferson-Chalmers community and the Detroit River.

It also presents an opportunity to evaluate existing perimeters to craft a solution with a broader purpose – one that will engage the community and re-establish several public amenities, resulting in increased economic potential for the City of Detroit and a genuine extension of the fabric of Jefferson-Chalmers. The resulting project response shall be driven by the belief that design must improve the public realm, regardless of scale or program, and perform at a neighborhood-wide level in a way that connects people to culture; creating identity and strengthening community.

II INVESTIGATIVE APPROACH

The facility assessment of the site, building structure and interior were conducted March 23, 2020.

The assessment was conducted by visual observation only. Destructive or detailed investigations and testing could not be performed. A majority of the space consisted of finished walls, floors, and ceiling.

Scope and Objective of This Report:

The overall goal of this report is to assess and evaluate the existing conditions of two on-site buildings, the Lenox Center and the Restroom building, followed by the development of a capital budget for the corrective recommendations with consideration of priority and potential phasing. The report includes a preventative maintenance schedule and cost estimates to extend the useful life of the facility assets.

The items to be evaluated are:

- Inspect Core and Shell; including the superstructure (floors, ceilings, bearing walls, columns, beams and related structures), exterior closure (exterior walls, windows, doors) and roofing.
- Evaluate all major building systems (both interior/exterior); including Plumbing Systems, HVAC Systems; HVAC controls, instrumentation and other elements; Electrical Systems service and distribution, feeder type (aluminum or copper), electrical controls and instrumentation.
- Conformance with fire and life safety regulations.
- Identify observable suspected hazardous materials for further analysis.
- Inspect parking lots, grounds and evaluate the site with respect to flood potential.
- Provide preventative maintenance schedule and cost estimates to extend the useful life of the facility assets.

Methodology

The information in this report was gathered through on-site observations, as well as by studying written and photographic documentation previously conducted and related to the buildings on site provided by the City of Detroit. The assessment team consisted of two licensed architects (INFORM), a licensed structural engineer (Atlantes), a licensed mechanical engineer (Green Path Design), a licensed electrical engineer (INFORM), and a licensed landscape architect (PEA). Observations consisted of visual and photographic examination of existing conditions and did not include any destructive demolition. Noninvasive observation techniques were used and additional follow-up observations were conducted to confirm conditions and re-examine specific areas.

III ESTIMATE APPROACH

Estimated and replacement costs for the identified building envelope and system components for this building assessment are based on unit rates defined by BSD CostLink®/AE (industry software which provides estimates utilizing built-in, regionally-based data from RS Means “Building Construction Cost Data - 2020” and estimates received from local contractors and vendors who were solicited by the Assessment Team for their specific expertise and knowledge within their respective industries. The cost analysis is based on specific requirements identified in the project scope and assumptions that have evolved through the assessment process including discussions with the City of Detroit General Services Department regarding future intentions for retrofit of the Lenox Center. The estimate includes a 20% contingency fee for unforeseen costs & external fees.

Estimated cost of replacement for items identified in this assessment have been derived from quantities identified as part of on-site investigation and review of building-specific documents provided by the City of Detroit. Where applicable, this assessment provides recommendations for rehabilitation and/or preventative maintenance measures. In terms of assumptions made around projected life expectancy, the evaluation considered information obtained from sources that included; available manufacturer technical documents & literature, assessment of present condition/current state of neglect, approximate age of the system/equipment/material and professional opinion based on experience & exposure.

Condition Rating

The following rating system was utilized in the evaluation of the Lenox Center. The “**Condition**” reflects the observable physical state and performance/service level of the assembly/system/equipment under review. The “**Action Required**” reflects what is needed to return an assembly/system/equipment to an acceptable level of service.

Condition / VERY GOOD

- Representative of assembly/system/equipment that is new (or recently rehabilitated), performing properly and showing no visual signs of deficiency or wear
- **Action Required** / Normally scheduled servicing & maintenance procedures.

Condition / GOOD

- Representative of assembly/system/equipment that exhibit signs of minimal wear and deterioration with minimal impact on overall performance.
- **Action Required** / Minor maintenance may be required. Continuation of recommended servicing procedures.

Condition / FAIR

- Representative of assembly/system/equipment that are beginning to near the end of their serviceable life. Deterioration and wear is evident. Performance has been impacted.
- **Action Required** / Major repair and/or maintenance may be required to achieve acceptable performance levels moving forward.

Condition / POOR

- Representative of assembly/system/equipment that is nearing the end of its serviceable life. Deterioration and failure are widely evident. Minimally functional. No immediate risk surrounding health and welfare.
- **Action Required** / Moderate repair/rehabilitation required to achieve a level of usability/functionality.

Condition / VERY POOR

- Representative of assembly/system/equipment that has reached the end of its serviceable life. Evidence of heavy deterioration and overall failure. Potential risk to health and safety.
- **Action Required** / Replacement or significant repair/rehabilitation required to achieve a level of future usability/functionality.

IV SITE ASSESSMENT LENOX CENTER

Site analysis information in this report is limited to the area of the entry drive, parking lot and pedestrian pavement in close proximity to existing recreation center.

AB Ford Park / Lenox Center – Site Analysis

Based on 1967 plans for the “Recreation Center for the Handicapped”, the Recreation Center and adjacent site amenities were originally designed to accommodate the accessibility and programming requirements for members of the community with various disabilities. Since completion in 1969, the site has undergone a few improvements including expansion of the parking, updated playground equipment and safety surfacing and removal of much of the originally designed landscape. The majority of the roadways and parking areas were constructed without curbs, drop-offs, parking areas and walks all appear to be designed to better accommodate wheelchairs. Entry to the parking is provided from Lenox Street. A tube steel swing gate is located at the road intersection to close the parking area to traffic. Stone boulders have been recently placed around the parking area and block access to the drop-off loop to prohibit vehicles from driving into the lawn and park areas. New lighting has recently been installed. A picnic shelter has been installed southwest of the existing building and playground area to the east.

In addition to the recreation center and park elements, the site also includes two (2) towers that previously held radar equipment for the Nike Missile Program. The Target Tracking Radar (TTR) and Missile Tracking Radar (MTR) towers. The site was part of the The Nike Detroit-Cleveland Defense Area and was the (D-23) Integrated Fire Control (IFC) area that contained radar equipment. D-23 along with IFC (D-26) located on nearby Maheras Gentry Park, formerly Detroit Municipal Airport supported the D-23/26 launch area located on Belle Isle between Blue Heron Lagoon and the Detroit River. The sites were de-activated in 1960.

Grading, drainage, and utilities have not been reviewed as part of this analysis. The topographic survey, which is underway, will need to be completed before an assessment of these items can be made.



Photo ST-01 / Aerial Photograph of Neighborhood



Photo ST-02 / Aerial Photograph of A.B. Ford Park



Photo ST-03 / View south towards the Lenox Center.



Photo ST-04 / View north along Lenox Street toward A.B.Ford Park entrance.



Photo ST-05 / View north along Lenox Street toward A.B.Ford Park entrance.

Entry Drive

Asphalt Entry drive from Lenox street contains rutting in multiple locations, cracking, potholes and severe pavement deterioration throughout. The entry drive includes asphalt curb along the west and integral concrete curb and sidewalk on the east. Access to the drop-off loop is closed off with boulders. New lighting has recently been installed on the west side of the drive. The entry drive should be considered for removal and replacement.

Parking Lot

The parking lot consists of asphalt with significant pavement cracking, potholes and deterioration throughout the surface of the lot. The exterior of the parking lot is installed flush with adjacent grade in most locations and does not include curb. Asphalt curb is installed along the landscape islands within the parking lot and is in poor condition where it is not missing entirely. Concrete bumper blocks are installed to separate the parking bays from the drive lane and/or pedestrian walkways. Bumper blocks are in good to fair condition and most would be suitable for reuse. Parking lot striping is, for the most part, not visible. Based on a 9' parking width the parking capacity of the lot is approximately 76 spaces. This does not include the additional ADA parking closest to the entry on the drop-off drive. Parking lot islands have been mostly paved over with asphalt leaving small openings in the pavement for trees. New lighting has recently been installed. Due to the poor condition of the parking lot it should be considered for complete removal and replacement.

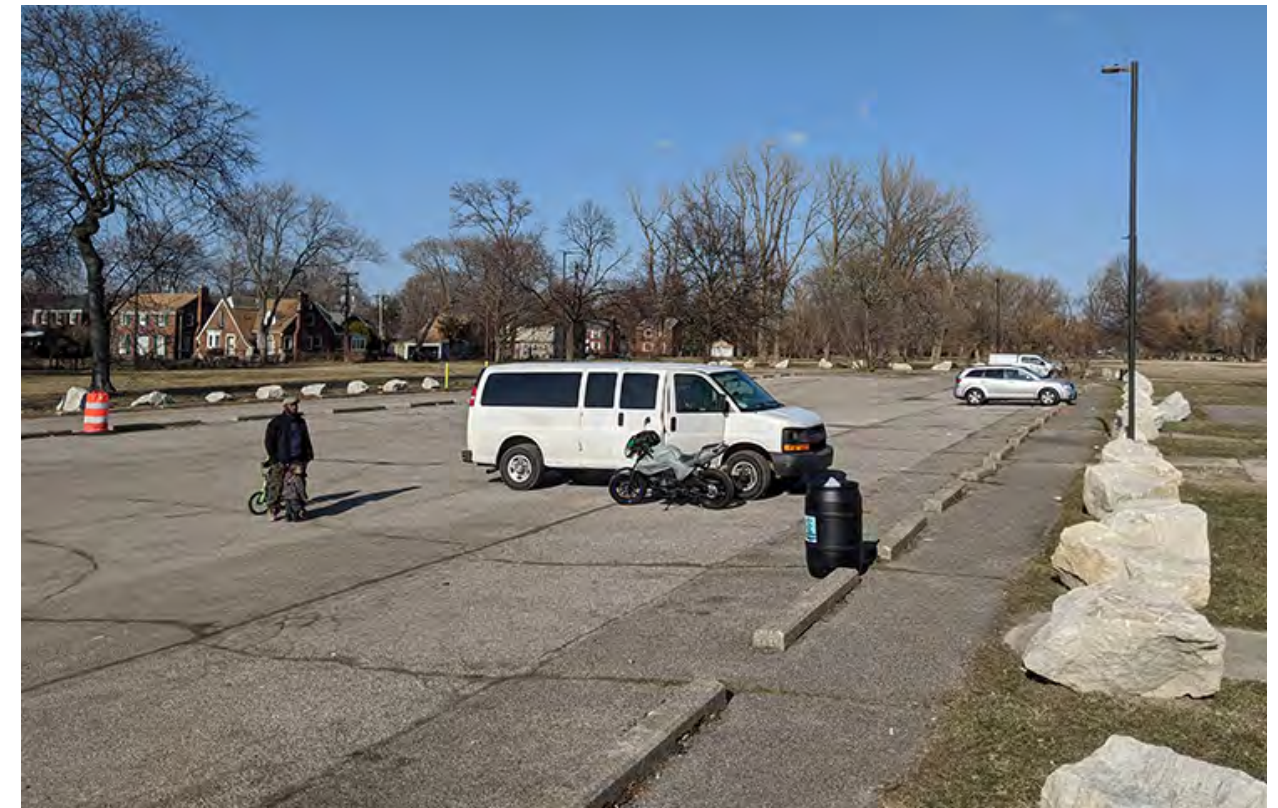


Photo ST-06 / View looking east of Main Parking Lot.



Photo ST-07 / View looking west of Main Parking Lot towards entry from Lenox St.

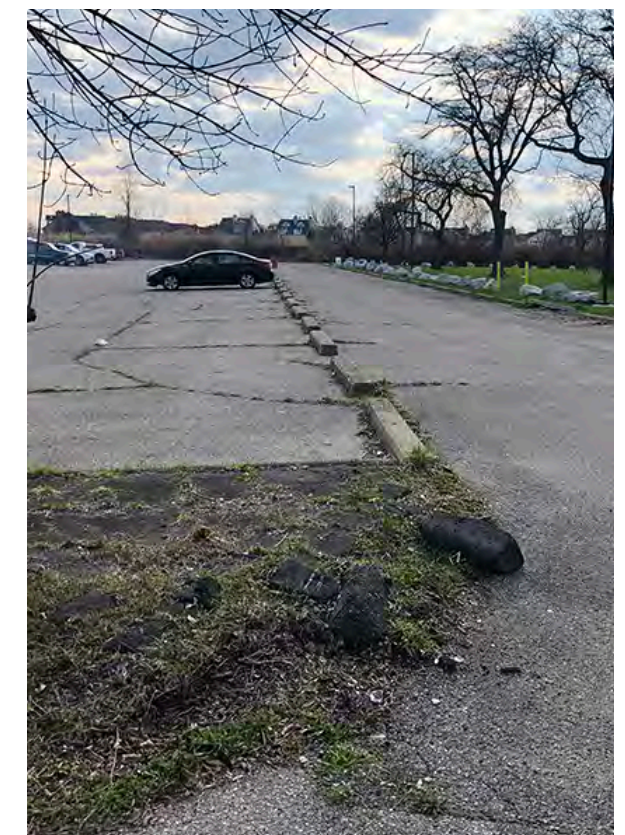


Photo ST-08 / View looking NW towards A.B.Ford Park entrance from Lenox St.



Photo ST-09 / Assessment Area A - Lenox Center
(Image March 7th, 2020 / Nearmap.com)

Drop-Off Loop / Barrier Free Parking

The drop-off loop extends from the parking lot to the recreation center. The loop is asphalt paved in poor condition with significant cracking, rutting and potholes. The outside face of the loop is against integral curb and sidewalk in some locations, transitioning to flush as the drive approaches the building. The concrete walk is in good to fair condition with vegetation growing in much of the jointing between the walk and the drive. The inside of the drive loop consists of primarily asphalt curb in fair to poor condition that transitions to concrete in the area of the barrier free parking. The concrete curb is in good to fair condition. Striping for ADA parking is, for the most part, not visible but based on number of ADA parking signs it appears to have been designed to accommodate approximately six (6) ADA spaces. New lighting has been installed around the drop-off loop.

Asphalt pavement should be considered for removal and replacement.



Photo ST-10 / View looking SE along Drop-Off Loop



Photo ST-11 / View looking NW along Drop-Off Loop



Photo ST-12 / View of Barrier Free Parking in front of Main Entrance to the Lenox Center.

Center Activity Green

The area contained between the parking lot and the drop-off loop is primarily lawn that appears in good condition, +/- 4 mature trees and +/-4 more recently planted trees. The lawn area is bisected by a concrete walk in fair condition that connects the parking to the building. The walk is at grade on both ends with no need for a curb ramp / transition. Four (4) concrete pads approximately 50' x 20' are located in the lawn and are connected by concrete walks to the parking area. These pads vary from fair to poor condition and all contain exposed fasteners imbedded in the concrete where previous U.S. Army buildings were mounted and subsequently removed in the 1960's. Remnants of some built-in timber planters remain and are in poor condition. Concrete pads should be considered for removal. They may be replaced if planned programming warrants reuse of the pads.



Photo ST-13 / View concrete pad looking NW



Photo ST-14 / View looking north over Central Green towards the Main Parking Lot.

Pedestrian Walkways

Pedestrian walkways immediately around the existing building are in **Fair to Poor** condition. There are cracked or heaved flags of concrete that may be removed and replaced on a case by case basis if desired to remain in the updated site design. Truncated domes at the building entry are cast in place and have cracked and heaving. This paving should be removed and replaced. Heaved slabs have made portions of the drop off non-ADA compliant. Some pavement near doors on the northeast side of the building show soil over the walks as evidence of possible drainage issues.

Concrete at the building entry should be replaced due to condition and to maintain accessibility to the Recreation Center. Assuming new plans do not relocate existing walks, spot replacement of up to 40% of existing walks can be considered for budgetary purposes.



Photo ST-15 / View looking NW concrete walk adjacent to playground.



Photo ST-16 / Concrete walk adjacent to Main Parking Lot.



Photo ST-17 / Heaving & cracked concrete truncated domes at the building entry



Photo ST-18 / View of corroded play structure.



Photo ST-19 / Overall view of the Playground looking North towards the Main Parking Lot.



Photo ST-20 / View swing sets and worn safety surface at grade.

Playground

The playground consists of one play-structure, two (2) swing structures, a free-standing slide, and a free-standing metal climber with poured-in-place safety surfacing below. One piece of equipment appears to be missing in a stand-alone portion of the playground. The date the playground equipment was manufactured or installed is unknown. If the equipment is to remain it should be confirmed that the existing equipment does not contain lead paint. A Certified Playground Safety Inspector should be engaged to confirm the existing equipment and surfacing meets current minimum standards. The safety surfacing is in fair to poor condition with portions of surfacing lifted, torn, and missing. The concrete header surrounding the surfacing is over grown by adjacent lawn.

Basketball Court

The basketball court is a half court paved asphalt pad in good to fair condition. The striping is worn but visible. The backboards, rims, poles and rims have been removed.



Photo ST-21 / View of basketball court looking south towards the Detroit River.



Photo ST-22 / View of basketball court looking SE towards the Lenox Center & the Detroit River.

Site Furnishings & Miscellaneous

- **Drinking Fountain** – spigot and other equipment is missing. Does not appear usable or functional.
- **Benches** – The majority of the benches are recycled plastic boards on powder coated steel structures. Benches are in-ground mounted on footings. Benches appear to be primarily in good condition.
- **Picnic Tables** – Picnic tables include wood on metal, recycled plastic, and expanded metal variations. The condition of the tables vary as does the installation type. In general, the wood picnic tables appear in better condition than the plastic and plastic-coated tables where burn marks and melted plastic are evidence of hot grills being placed on the tables.
- **Concrete Planters** – Large round precast concrete planters (five) are located along the drop off drive near the building entry. These appear in good condition and can be considered for reuse.
- **Nike Radar Towers** – Two towers remain on the site Target Tracking Radar (TTR) and Missile Tracking Radar (MTR). The TTR tower is located north of the building and appears in good condition. The MTR tower is located south of the building. The concrete portion of the tower appears in good condition. A structural engineer should validate the existing steel at the top of the tower to confirm its stability and safety in windy conditions.
- **Picnic Shelter** – The picnic shelter structure appears in good condition. Some graffiti on the interior should be removed and/or painted over. Concrete pad is in fair condition with portions of the slab cracking near each of the posts / foundations.



Photo ST-26 / Concrete Planters



Photo ST-27 / Picnic Table



Photo ST-23 / Drinking Fountain



Photo ST-24 / Bench



Photo ST-25 / Picnic Shelter



Photo ST-28 / Missile Tracking Radar (MTR) Tower



Photo ST-29 / Target Tracking Radar (TTR) Tower

Flood Zones:

Referencing the FEMA maps on the adjacent page, information for site flood zones are identified on both **Effective & Preliminary** maps. FEMA mandates that preliminary data is for review and guidance purposes only and is subject to change. Preliminary data cannot be used to rate flood insurance policies or enforce the federal mandatory purchase requirement. Preliminary data will be removed and replaced once effective data are available. Unlike preliminary data, effective data and maps are official and should be used for National Flood Insurance Program (NFIP) purposes and viewing risk premium zones applicable to a community.

Currently on the **'Effective'** map the Lenox Center building sits within an **Area of Minimal Flood Hazard - Preliminary Zone X**, and may be affected by larger storm events in excess of the 0.2% annual chance storm event. However within the **'Preliminary'** map, the southern edge of the property (adjacent to the Detroit River) and south west portion of A.B. Ford Park sit within the Federal Emergency Management Agency (FEMA) designated **Coastal Floodplain Preliminary Zone VE**. The south west corner of the Lenox Center building also sits within Zone VE. Zone VE is considered a High Hazard flood zone with a 1% chance of flooding each year, and a 26% chance of flooding over a 30 year mortgage. The remaining portion of the building remains within the **Area of Minimal Flood Hazard - Preliminary Zone X**.

FEMA defines **Floodproofing** as:

Any combination of structural and non-structural additions, changes, or adjustments to structures which reduce or eliminate flood damage to real estate or improved real property, water and sanitary facilities, structures and their contents. Floodproofing is not permitted in Coastal High Hazard Areas (Zone V, VE, or V1-30).

An excerpt from **FEMA Technical Memo 3-93**

In the FEMA publication "Floodproofing of Non-Residential Structures," floodproofing is described as a combination of adjustments and/or additions of features to buildings that eliminate or reduce the potential for flood damage. Examples of such adjustments and additions include anchoring of the building to resist flotation, collapse, and lateral movement; installation of watertight closures for doors and windows; reinforcement of walls to withstand floodwater pressures and impact forces generated by floating debris; use of membranes and other sealants to reduce seepage of floodwater through walls and wall penetrations; installation of pumps to control interior water levels; installation of check valves to prevent the entrance of floodwater or sewage flows through utilities; and the location of electrical, mechanical, utility, and other valuable damageable equipment and contents above the expected flood level.

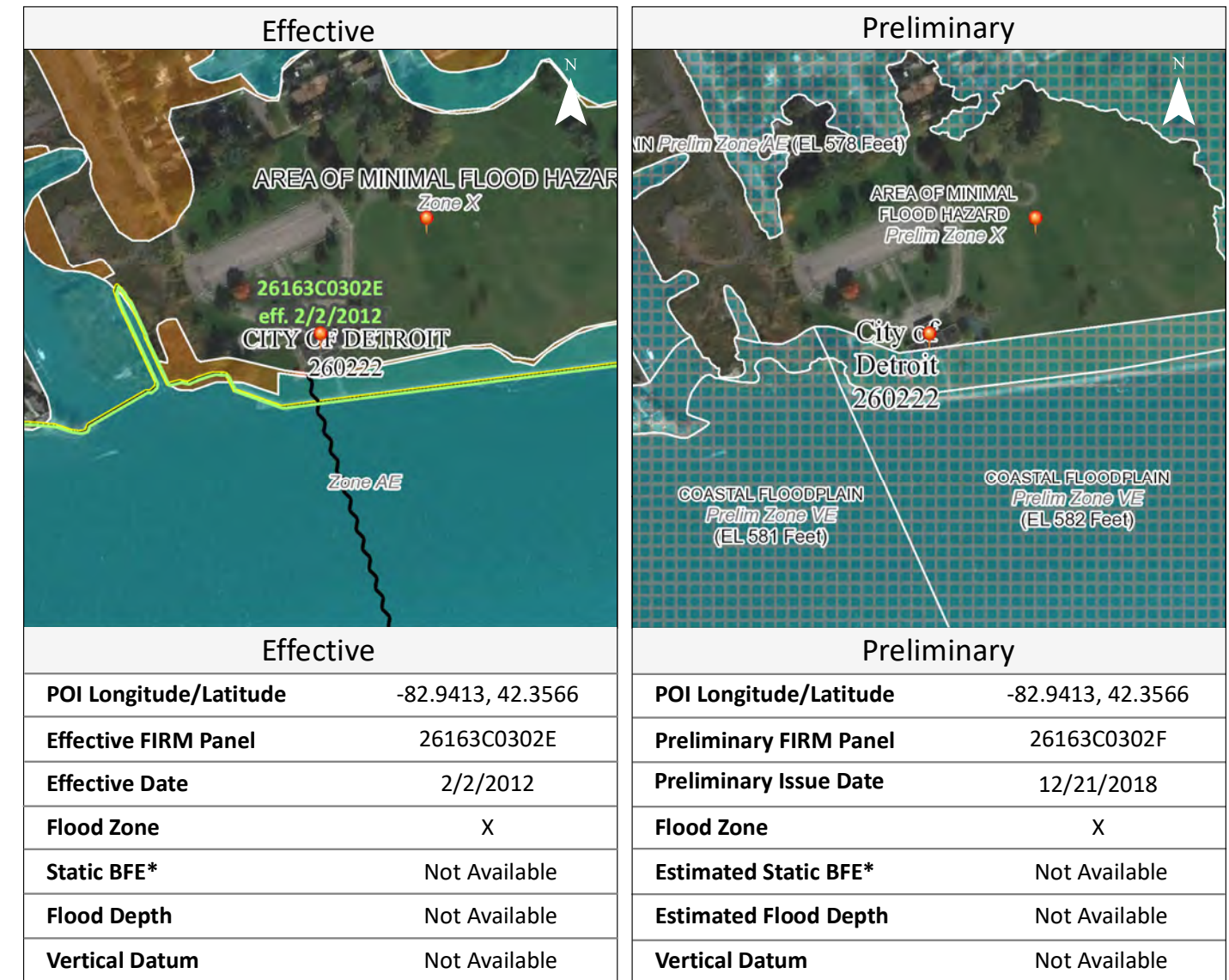
*Floodproofing components for an individual building may also include floodwalls, small localized levees, or berms around buildings. However, such components, because they are not part of the building itself, are generally not credited for the flood insurance rating of a building under the NFIP and are therefore not detailed within this bulletin. The NFIP allows a new or substantially improved non-residential building in an A zone (Zone A, AE, A 1-A30, AR, AO, or AH) to have a lowest floor below the base flood elevation (BFE), provided that the building has been designed, constructed, and certified to be floodproofed and to meet established criteria. Floodproofing of areas below the Base Flood Elevation (BFE) in residential buildings is not permitted under the NFIP. **In a Coastal High Hazard Area (Zone V, VE, or V 1-V30), construction or substantial improvement of a building with a lowest floor elevation below the BFE is not allowed, regardless of any floodproofing techniques employed.***

An excerpt from **FEMA P-936 - Floodproofing Non-Residential Buildings**

*FEMA, as part of its implementation of the Disaster Relief Act of 1974, shall apply certain minimization provisions. Specifically, **FEMA funding shall not be used to support new construction or Substantial Improvement in a floodway, and no new construction in a coastal high hazard area, except for (i) a functionally dependent use or (ii) a structure or facility which facilitates an open space use.***

Comparison of Flood Hazard

Effective & Preliminary Flood Hazards



* A **Base Flood Elevation** is the expected elevation of flood water during the 1% annual chance storm event. Structures below the estimated water surface elevation may experience flooding during a base flood event.

Hazard Level	Flood Hazard Zone
High Flood Hazard	AE, A, AH, AO, VE and V Zones. Properties in these flood zones have a 1% chance of flooding each year. This represents a 26% chance of flooding over the life of a 30-year mortgage.
Moderate Flood Hazard	Shaded Zone X. Properties in the moderate flood risk areas also have a chance of flooding from storm events that have a less than 1% chance of occurring each year. Moderate flood risk indicates an area that may be provided flood risk reduction due to a flood control system or an area that is prone to flooding during a 0.2% annual chance storm event. These areas may have been indicated as areas of shallow flooding by your community. Unshaded Zone X. Properties on higher ground and away from local flooding sources have a reduced flood risk when compared to the Moderate and High Flood Risk categories. Structures in these areas may be affected by larger storm events, in excess of the 0.2% annual chance storm event.
Low Flood Hazard	Insurance Note: High Risk Areas are called 'Special Flood Hazard Areas' and flood insurance is mandatory for federally backed mortgage holders. Properties in Moderate and Low Flood Risk areas may purchase flood insurance at a lower-cost rate, known as Preferred Risk Policies. See your local insurance agent or visit https://www.fema.gov/national-flood-insurance-program for more information.

Disclaimer: This report is for informational purposes only and is not authorized for official use. The positional accuracy may be compromised in some areas. Please contact your local floodplain administrator for more information or go to msc.fema.gov to view an official copy of the Flood Insurance Rate Maps.

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

V FACILITY ASSESSMENT

Historic Statement

This report pertains to the review and evaluation of the structures located within the 33.8 acre A.B Ford Park at 100 Lenox St in Detroit, MI. In the 1950's, during the height of the Cold War, the site served as a radar installation for the U.S. Army. Known as Nike Missile Control Site D-23, the facility served as operations for a line-of-sight anti-aircraft missile system stored on Belle Isle. Following deactivation of the site in 1962, land rights reverted to the City and it was returned to Alfred Brush Ford Park. Fund-raising efforts by the Kiwanis Club in the early 1960's led to the design and construction of what is today known as the Lenox Center. Completed in 1970, when the disability rights movement was only beginning to gain momentum, the center aimed to serve residents with disabilities and mobility challenges. Throughout the years, the facility has been referred to as: The Kiwanis Community Center, The Kiwanis Clubhouse at the Detroit Recreational Center and The Recreational Center for the Handicapped. The center ceased operations in 2013 and has fallen into significant disinvestment.



Nike Missile Control Site D-23 / Circa 1961



Nike Missile Launcher Site on Belle Isle / Circa 1961

V1 BUILDING ENVELOPE

Current Design Codes and Standards:

Michigan Building Code – 2015
Michigan Mechanical Code – 2015
Michigan Plumbing Code – 2015
ASHRAE 90.1-2013
NFPA 13, 96 & 70 (NEC)-2017

Summary of Findings & Recommendations

A. BUILDING SHELL

The following systems form the exterior envelope of the Lenox center;

- Face brick (exterior) over Concrete Masonry Unit (CMU) construction (interior), with no wall insulation. The original drawings (circa 1967) indicate that the 5/8" space between the brick and CMU is grouted solid. Condition ranges from **Fair to Very Poor**
- Precast concrete fascia (exterior) over Concrete Masonry Unit (CMU) construction (interior), with no wall insulation. The original drawings (circa 1967) indicate that the 5/8" space between the precast fascia and CMU is grouted solid. Condition ranges from **Fair to Poor**
- Painted Seamless Terne Roofing (1" double locked standing seam) over T&G Plywood Sheathing with 2" of Rigid Insulation on 1x6 plywood nailers. Condition ranges from **Poor to Very Poor**

The exterior face brick (outside of the masonry piers and steel lintels) is exhibiting minor to moderate levels of deterioration which range from mold growth and discoloration caused by water damage to moderate cracking and spalling in several locations. The shell has no insulating value and minimal air/vapor barrier protection. Evidence of air & water infiltration through cracks/voids at exterior walls, doors, vents, grilles, windows are extensive and required immediate attention.

There are six (6) steel 3 1/2' diameter standard pipe columns wrapped in face brick to form support piers for canopies along both the North and South elevations. (12 piers total). Most of the brick piers are showing signs of moderate-to-severe levels of deterioration in the form of cracking and brick/joint failure. The deterioration may be the result of water infiltration through the brick pier to the steel column. Once oxidation of the steel begins (rusting), forces are exerted outward which can cause vertical cracking and displacement of masonry. This is known as oxidized jacking. It is likely that the steel columns behind the masonry are deteriorating and will require replacement. This will require further on-site demolition/investigation confirm and determine I recommendations/remedial action.

RECOMMENDATION:

Areas of minor brick & mortar deterioration to be cleaned and/or replaced due to non-structural defects (minor spalling or chipping). For areas of moderate deterioration, replace cracked brick with new or salvaged brick and repoint areas as required. (Note: the extent of repairs cannot be completed until we have access for further inspections. Upon the completion of our inspection's elevations showing the areas of moderate deterioration which require repair and tuck-pointing will be documented.) All wall envelope components will require repair/refurbishment in the immediate to short term based on observed conditions.

At the twelve (12) brick piers the existing brick masonry will need to be removed for further inspection of the steel columns. Based on the condition of the brick and our experience it is likely that the base of the columns have deteriorated due to repeated water infiltration and subsequent freezing and thawing, possibly accelerated by exposure to de-icing salts. For the purpose of cost estimating we recommend that replacement of the steel pipe columns be assumed. Replacement should consist of shoring the existing structure, removing the existing columns and replacing with new galvanized pipe columns to match the existing. The new columns will have new baseplates with four (4) 1/2" diameter anchor bolts, drilled and epoxied into the existing concrete foundations.

ENVELOPE / OPENINGS

The following doors & windows are installed in the exterior envelope of the Lenox center;

- Windows - Ten (10) sized 7'-4" x 12"-0" and four (4) 7'-4" x 9'-0". the original windows have been replaced with an aluminum storefront system & insulated glazing. In several locations the aluminum frames have been compromised by the protective sheathing which has been fastened directly into the face of the frame. The glass has been broken or removed in several areas. Perimeter sealant has failed in several locations. Condition ranges from **Poor** to **Very Poor**
- Louver - One (1) sized 5'-4" x 3'-4" is in **Very Poor** condition. Seals have been compromised and is heavily corroded in areas. Water infiltration is evident at jambs and head condition.
- Doors - Conditions range from **Poor** to **Very Poor**:
 - Two (2) aluminum storefront doors & frame (with transom & sidelight glazing) at Lounge 109. Hardware is non-compliant with ADA egress requirements. Significant damage to glazing and frame.
 - Two (2) hollow metal doors with aluminum frames at Multi-Purpose 107. Significant corrosion. Hardware removed. Hardware is non-compliant with ADA egress requirements.
 - Two (2) hollow metal doors with aluminum frames at Multi-Purpose 111. Significant corrosion. Hardware removed. Hardware is non-compliant with ADA egress requirements.
 - One (1) hollow metal door with louver and aluminum frames at Mechanical Room 112. Significant corrosion and deterioration at base and louver. Hardware is non-compliant with ADA egress requirements.
 - Three (3) hollow metal doors with aluminum frames (1 each at the following locations; Men's Coat Room 116, Women's Coat Room 103 & Kitchen 106). Significant corrosion and deterioration is evident. Hardware is absent or non-compliant with ADA egress requirements.

Several of the masonry lintels are showing severe signs of deterioration, others are showing moderate or minor signs of deterioration. Based on the age of the building and our preliminary inspection it appears that flashing at the brick lintels was not originally installed or has become ineffective.

RECOMMENDATION:

Remove and replace all doors and windows. Remove the existing brick above and at the lintel bearings, install new galvanized and painted steel lintels (per the schedule STR-01 inserted below), flash behind the brick lintels per the Architectural Drawings and replace the brick masonry. The quantity and size of lintels will be confirmed upon the completion of our follow up investigation but based on images and original drawings provided we anticipate all of the ten (10) punched openings/doors will require replacement.

BRICK MASONRY LINTEL SCHEDULE (4" NOMINAL WIDTH)		
OPENING WIDTH	LINTEL SIZE	BEARING LENGTH
LESS THAN 8"	N.A.	N.A.
8" TO 36"	L3 1/2x3 1/2x1/4	4"
37" TO 42"	L5x3 1/2x1/4 (LLV)	8"
43" TO 60"	L6x3 1/2x5/16 (LLV)	8"
61" TO 72"	L6x3 1/2x3/8" (LLV)	12"
GREATER THAN 72"	CONSULT S.E.R.	CONSULT S.E.R.

STR-01 / Brick Masonry Lintel Schedule

ENVELOPE / ROOF & SOFFITS

The following roof & soffit assemblies are installed on the low-bay and high-bay roof of the Lenox center;

- Low Bay Roof - The existing roof is a Built-Up Roof (BUR) system with aggregate surfacing. Three (3) roof sumps are centered over the two Multi-purpose Rooms and Lounge. Water ponding was evidenced on the Main Roof. It appears that the seals at the roof sump locations have failed allowing water to infiltrate the building. There was considerable evidence of deterioration at the roof including; granular loss of the BUR system; failing flashing & sealant in several locations; and cracking/alligatoring in the roofing material

as evidenced by the discoloration of brick in many areas around the building perimeter, failure of the roof sealants on the back side of the parapet previously resulted in water infiltration into the parapet and down through the CMU walls. More recently it appears that copings were installed on top of all the parapets in an effort to mitigate this condition. However, it is unclear how far the waterproofing membrane extends up under the copings, or whether this solution was completely effective in eliminating all future leaks. Condition ranges from **Fair** to **Very Poor**

- High Bay Roof - The existing roof is a Built-Up Roof (BUR) system with aggregate surfacing. One (1) roof sump is centered over the Lobby. There was evidence of moderate deterioration at the roof including; granular loss of the BUR system; failing flashing & sealant in several locations. Condition ranges from **Fair** to **Very Poor**.
- Canopy Soffit - The existing soffit ceilings at both North and South canopy locations and entry recess to both Multi-Purpose rooms on the East & West elevations are Cement Plaster on Metal Lath supported by steel furring and runner channels suspended from the steel structure above. Perimeter sealant failure, water infiltration and water damage were evident in several locations. Recessed light fixtures in both the North and South canopies are beyond their serviceable life. There is evidence of body corrosion in several fixtures and fixture lenses are missing in some locations. Condition ranges from **Fair** to **Very Poor**.

RECOMMENDATION:

Removal and replacement of all exterior soffits, lighting and suspension substructure.

V2 BUILDING INTERIOR

INTERIORS / FINISHES

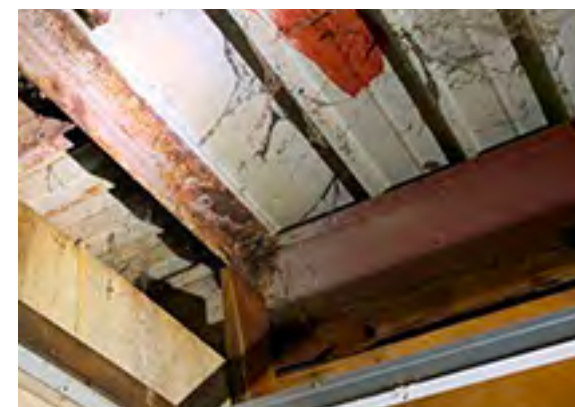
The following interior finish assemblies are used in the Lenox center;

- Floor - Finish materials consist of; Untreated Concrete, Ceramic Tile, Resilient Tile with cove Ceramic Tile Base and Resilient Base. Condition ranges from **Fair** to **Very Poor** - see interior photograph documentation Section VI.
- Walls - Finish materials consist of; Painted CMU, Ceramic Tile, Plywood Panelling, Untreated CMU. Condition ranges from **Fair** to **Very Poor** - see interior photograph documentation Section VI.
- Ceilings - Finish materials consist of; Acoustic Tile, Plaster, Cement Plaster and Exposed Steel structure. Condition ranges from **Fair** to **Very Poor** - see interior photograph documentation Section VI.

The majority of the finish materials are well beyond their usable life. Moderate to extensive deterioration was evident. Water infiltration and water damage was extensive in both floor and ceiling finishes.

INTERIORS / ROOF STEEL

The majority of the roof framing is in **Good to Fair** condition. Our preliminary inspection revealed a few areas that were showing minor to moderate signs of deterioration, indicating that the existing framing subject to deterioration will not require strengthening or replacement, but cleaning and re-painting will be necessary.



RECOMMENDATION:

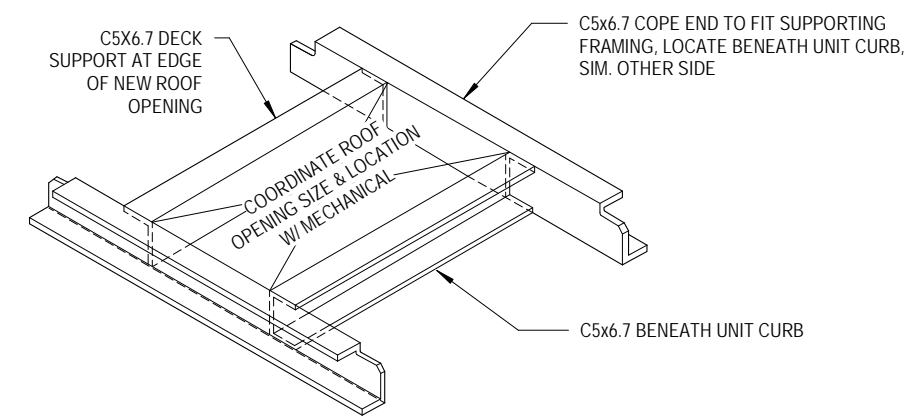
The location and quantity of repair areas cannot be determined until we have access for further inspections, however based on our preliminary inspection we anticipate the repairs to consist of cleaning the affected areas to a SSPC-SP3 level (power tool cleaning), and repainting the cleaned areas with two (2) applications of standard primer at two (2) to three (3) mils dry-film thickness each.

INTERIORS / ROOF OPENINGS

The current roof has several rooftop units which are expected to be removed and replaced with a new HVAC system. The existing system included several penetrations through the roof that are not reinforced as they should have been in the original construction. These openings will require infill to restore the roof deck and diaphragm.

RECOMMENDATION:

Remove the existing rooftop mechanical and penetrations through the roof and infill with 16 gauge sheet metal per diagram STR-02 inserted below. The location and quantity of infill area cannot be determined until we have access for further inspections, however based on satellite imagery and our preliminary walk through we estimate there are six (6) to eight (8) penetrations requiring on average six (6) square feet of repair area.



STR-03 / Framing for Curb Supported Mechanical Units at Existing Framing

RECOMMENDATIONS

Account for new framing to be installed to support the new units. New framing will be similar to framing shown in diagram STR-03.

Based on our analysis we anticipate approximately 170 pounds of steel necessary for each unit. The steel provided will be tedious to fabricate and install, therefore the cost per pound of steel to fabricate and install will be significantly higher than average.

Hazardous Materials:

The assessment is not considered a complete hazardous substance survey. The assessment team identified potential Asbestos-Containing Materials (ACM) and Hazardous Materials that were observable in the Lenox Center building which will require further investigation and physical testing. Destructive methods were **not** used to access samples. Materials which were examined included plaster ceilings, insulation, ceiling tiles, mechanical tape, floor tile, base, tile adhesive, and window mastic. In addition to identifying potential ACM's, the assessment team identified locations of other potential hazardous material including; PCBs and Mercury within electrical equipment & fluorescent lights; lead-based paint; solder plumbing joints; and silica present in the concrete and CMU.

RECOMMENDATION

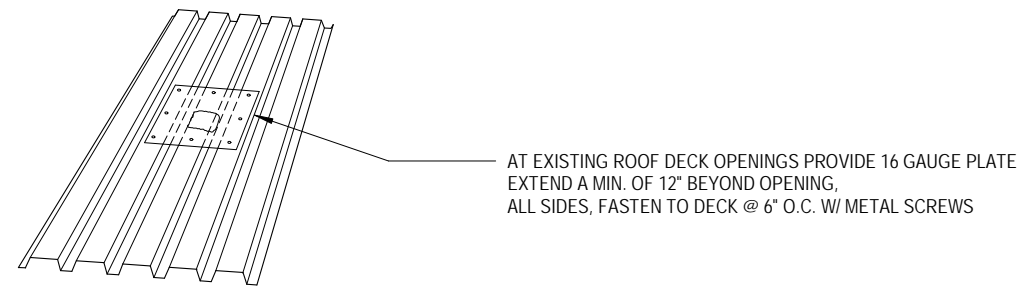
Based on the age of the building (50 years), and the presence of many original finishes and construction materials from this era, it is very likely that ACM's & hazardous materials are present in several if not all of the materials noted above. A complete Hazardous Material Assessment (HMA) will need to be completed and all hazardous materials professionally abated by experienced, trained and qualified workers following the guidelines established by the National Emission Standards for Hazardous Air Pollutants (NESHAP) for the removal of asbestos before this structure can be renovated. If during the abatement or renovation process further suspect ACM's are uncovered, samples must be analyzed and the material abated if necessary using proper NESHAP procedures and safety measures.

Life / Fire Safety

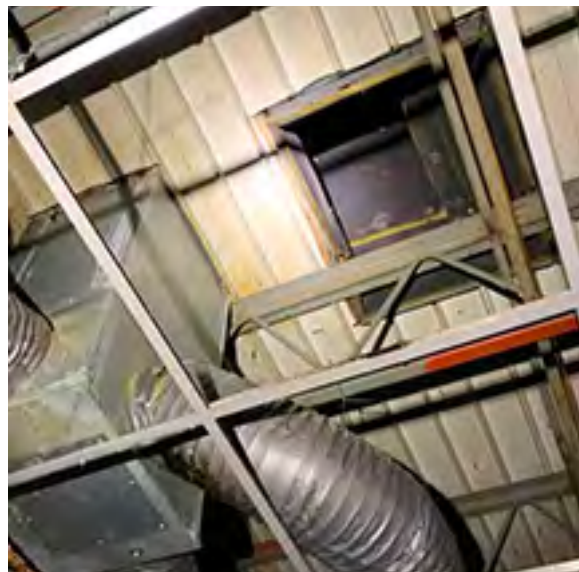
The building is classified as a single-storey **Group A-3 Occupancy** (assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A), with an estimated gross floor area of approximately 6,740 square feet. Currently the building is **TYPE II-B Unprotected Non-Combustible** - meaning that the Lenox Center is constructed of non-combustible materials but these materials have no fire resistance. As such a Non-Sprinkled (NS) building with this occupancy and building type has an **Allowable Building Height** of 55'-0" above the ground plane and an **Allowable Number of Stories** of two (2).

The existing building is not equipped with an Automatic Sprinkler System. However, per section 903.2.1.3 of the 2015 Michigan Building Code;

An automatic sprinkler system shall be provided for fire areas containing Group A-3 occupancies and



STR-02 / Metal Deck Infill at Roof Penetration



INTERIORS / FUTURE MECHANICAL SUPPORT

The renovation will require several new rooftop units to support the building, however the type, quantity and size of units is still being determined. Based on the current size the Mechanical Engineer anticipates the need for four (4) to five (5) new rooftop units. Part of the design process will be to locate those units in areas where the rooftop framing can support their weight without additional reinforcing of the existing roof framing, however new framing to support the units and their openings will be necessary.

intervening floors of the building where one of the following conditions exists;

1. The fire area exceeds 12,000 square feet.
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

Currently the occupant load as calculated for the Lenox Center is 397 and will require the installation of an Automatic Sprinkler System. (See Section VIII Drawings G-101 for area based occupant load calculations)

V3 BUILDING SYSTEMS

MECHANICAL

Fire Protection

The building does not currently have a fire suppression system. Per the Michigan building code, the occupancy classification is A-3 which does not require fire suppression unless the building exceeds 12,000 square feet, however as stated above, the occupant load does exceed 300 people. A fire suppression system is recommended for many reasons, most importantly protecting all physical assets. In event fire suppression is desired, a new 6" dedicated service main will be required. According to NFPA 13, the proposed building use would be classified as light hazard. A fire riser will can be in a closet along the exterior of the building. Direct access to outside is desired but not a requirement. A fire department connection will need to be coordinated with the city. Given the setback from the parking lot, a remote freestanding connection may be desired. Additionally, nearby fire hydrant access will need to be addressed.

Plumbing

Domestic Plumbing System

A 3" water service is routed beneath the building and comes up through mechanical room floor. A newer 3" water meter is in the mechanical room. Domestic cold water is routed to the main bathroom groups, lounges, locker rooms/showers, mechanical room, water heaters, etc. Copper throughout building appears to be copper.

Fuel gas

The existing gas service regulator and meter is in the mechanical room. Vents from regulator are routed outdoors per documents. The gas service pipe is 1-1/4" according to existing plans. Two separate gas meters are called out with one serving incinerator and water heater and the other serving the boiler. Gas piping is routed from meter assembly to the mechanical room equipment and/or to gas fired equipment. The gas service pipe does not comply with the Fuel Gas Code. Per the code, the gas service pipe shall enter the building above grade. It currently is route beneath the building slab and enters within the mechanical room. This should be corrected and coordination with utility will be required.

Water Heating

A central electric 80-gallon tank water heater is in the main mechanical room. The water heater is newer, with unknown date of manufacture, and serves both bathrooms, janitor closet, and kitchen. A hot water recirculation system is installed with a newer inline pump. System appear to be in good condition.

Sanitary and Vent

Waste is collected from all plumbing fixtures in main bathroom cores and connected to sanitary service pipe located on the north side of the building. The existing sewer main is 5". All sanitary flows by gravity. The existing kitchen has a grease interceptor for the sink. Sanitary piping is mostly 3" and 4" from plumbing fixtures routed to sewer lead. Based on existing architectural drawings finished floor is called out as 102'-0" and pipe inverts are 98'-6" leaving the building.

Storm System

Primary roof conductors are routed from roof sumps down through building and extend to the site storm system. The existing roof conductors are rusting and some drains, which are missing baskets, are filled with debris. The primary roof conductors are wrapped with insulation and should be tested for asbestos. Asbestos

is commonly found in buildings of this age. The primary storm lead is on the south side of the building.

The building does not currently have a secondary roof conductor system for small (4-6") parapets. Given the building has a parapet, we recommend an overflow piping will be routed to downspout nozzles located at grade level.

Heating, Ventilating, and Air Conditioning

Mechanical and Plumbing systems are original to the building dated 1967. Based on site analysis, air cooled rooftop air conditioners were provided for the building. These do not appear on the existing mechanical plans. Based on condition, air conditioners are dated.

Boiler

A natural gas fired boiler for a heating hot water system is located in the mechanical room. The boiler is naturally vented and is 585 MBH input, The boiler serves a constant volume heating hot water system that supplies heating hot water to a unit heater and heating and ventilating unit. The boiler is original to the building and beyond its useful life.

Heating and Ventilating Unit

A constant volume multi-zone heating and ventilating unit serves all the spaces in the building. The unit is located above the storage room adjacent to the mechanical room. The unit has a total of four zones with mixing dampers. This type of unit would not be permitted for use with current energy codes and is beyond useful life. This unit is recommended to be removed.

Rooftop Air Conditioners

Air conditioners are located on the roof with ducts routed down through the roof to serve spaces. Original building drawings do not show this equipment as was likely added after building first constructed. The units are beyond their useful life. Ductwork from units is insulated.

Control System

The equipment controls are all pneumatic. The air compressor is located in the mechanical room. Pneumatic controls are not commonly used today and should be removed.

ELECTRICAL

Power

The main electrical service for the building is served by a 400A main distribution panel fed through a CT cabinet and meter (Photo E-01). Power is served to the building underground and originates at the overhead utility pole located along Scripps Ave. The incoming service is supplied via parallel sets of 500 KCMIL cables that are capable of providing 760A at 208/120V, 3 phase, 4 wire and terminate within the mechanical room. Only one set of 500 KCMIL cables is pulled from the CT cabinet to the main distribution panel (Photo E-03).

The main distribution panel is a fusible type and manufactured by Square D. The distribution panels are also square D and are circuit breaker type. There were not manufacture dates listed but they are assumed to be original to the building and approximately 50 years old and past their useful life. (Photo E-04)

Telephone Service

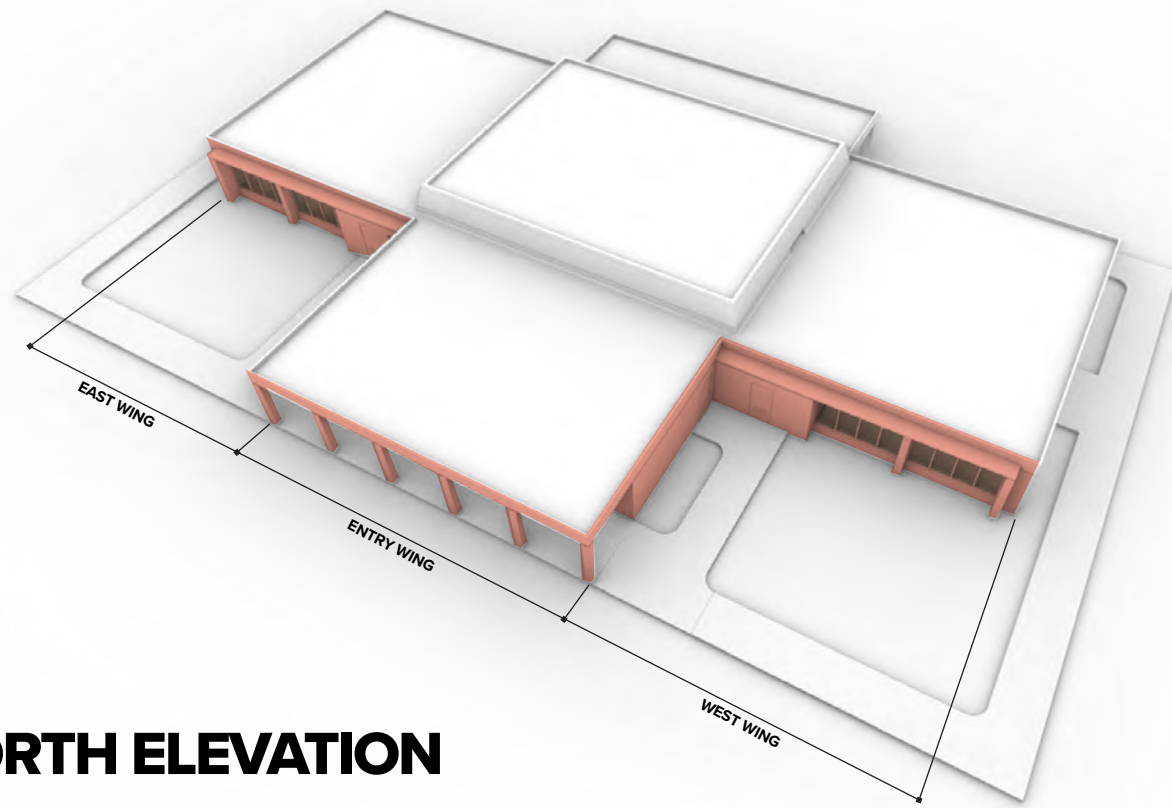
Telephone service is provided underground from the utility pole located along Scripps Ave. The service parallels the electrical service. The telephone service is terminated on a plywood back board to the right of the main electrical service in the mechanical room (Photo E-05).

Lighting

The interior and exterior lighting for the building appear to consist of primarily fluorescent and HID luminaires in **Poor** to **Very Poor** condition. All lighting and controls will require replacement.

VI PHOTOGRAPHS





NORTH ELEVATION

Lenox Center / Exterior Envelope Assessment

The North Elevation is divided into 3 separate sections. Access to the Lenox Center is provided through two main entry doors in the central portion of the building below a canopy supported by 4 brick piers. The building wings flanking the main entry volume provide access to the Kitchen (103) and Women's Coat Room (106) on the west and Mechanical (112) and Men's Coat Room (116) on the east. Each wing has two bays of windows (7'-4" x 12'-0"), that are currently boarded over.



Photo N-01 / Overall view of North Elevation / East Wing



Photo N-02 / View SW towards exterior access to Mechanical Room (112) & disconnected utility.



Photo N-04 / View of spalling face brick and sealant failure at precast concrete fascia and canopy.



Photo N-05 / Deteriorating & corroded steel lintels causing horizontal bed joints in masonry to open.

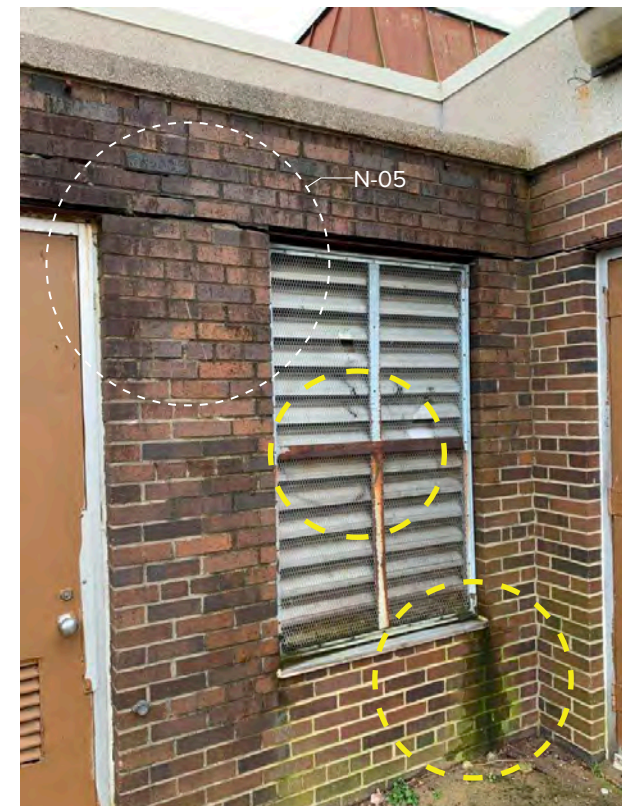


Photo N-03 / Evidence of moisture damage in brick and corrosion at mechanical air intake louver.



Photo N-06 / Deteriorating & corroded steel lintels causing horizontal bed joints in masonry to open.



Photo N-07 / Partial view of North Elevation / Entry Wing (east)



Photo N-10 / View of main entrance in north elevation. Existing clean-out for main sanitary line is corroded and filled with debris. Evidence of heaving, deteriorating and pitted concrete slab. Recessed entrance mats at both doors are corroded and decaying. Hollow metal doors and frame in Fair to Poor condition.



Photo N-08 / Multiple cracks through joints & brick at column 9-K. High levels of stress in the material.



Photo N-09 / View of north canopy ceiling (cement plaster on metal lath) with precast concrete fascia.

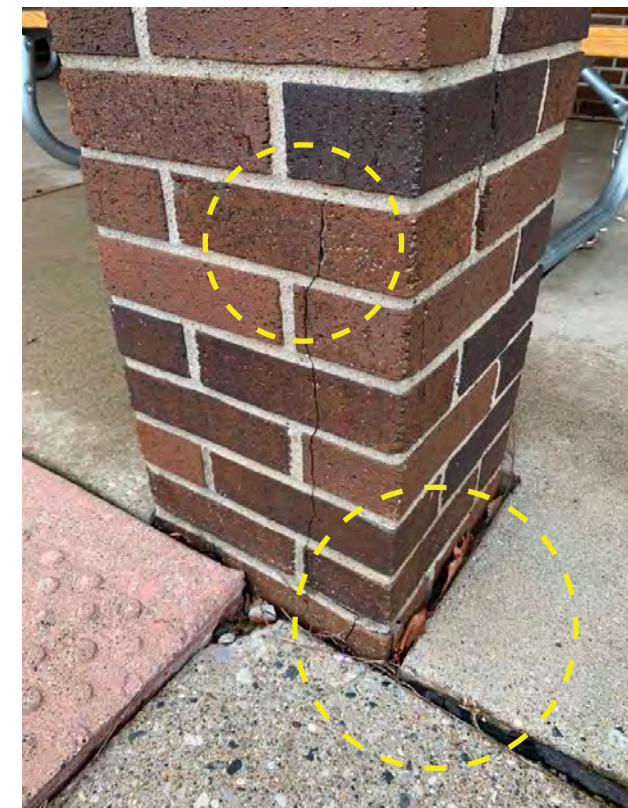


Photo N-11 / View of heaving concrete slabs at base of column 5-K. Stress and cracking evident in brick.



Photo N-12 / Full length crack through joints & brick at column 5-K. High levels of stress in the material.



Photo N-13 / Partial view of North Elevation / Entry Wing (west)



Photo N-16 / View SE towards main entrance cove. Evidence of vine growth over canopy soffit ceiling (cement plaster on metal lath) with 12" x 12" recessed incandescent light fixtures.



Photo N-14 / Multiple cracks through joints & brick at column 4-K. High levels of stress in the material.



Photo N-15 / Multiple cracks through joints & brick at column 4-K. High levels of stress in the material.

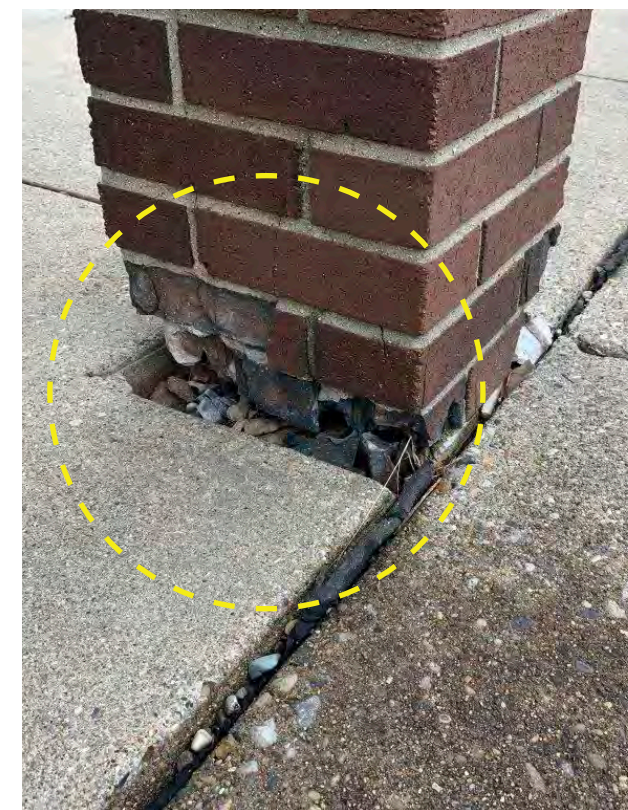


Photo N-17 / View of heaving concrete slabs at base of column 4-K. Brick failure at base layer.



Photo N-18 / View at column-canopy joint at 5-K - joint failure and evidence of bearing plate corrosion.

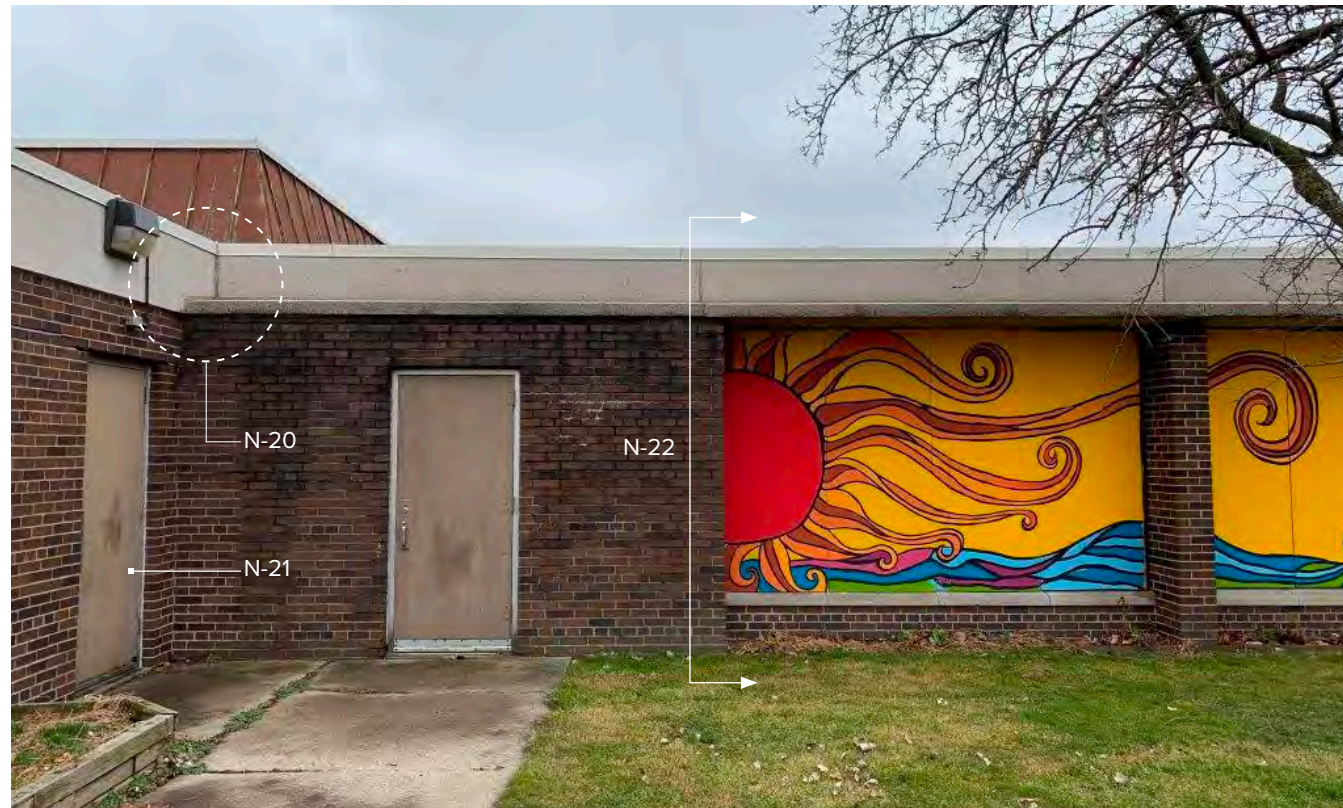


Photo N-19 / Partial view of North Elevation / West Wing (east).



Photo N-22 / Partial view of North Elevation / West Wing (west). Painted mural on protective plywood sheathing has been fastened through aluminum storefront framing. Glass behind is shattered or missing.



Photo N-20 / Joint openings allow water ingress which will has exacerbated freeze-thaw deterioration.



Photo N-21/ Corroded door base. Corroded steel lintels causing horizontal bed joint failure in masonry.

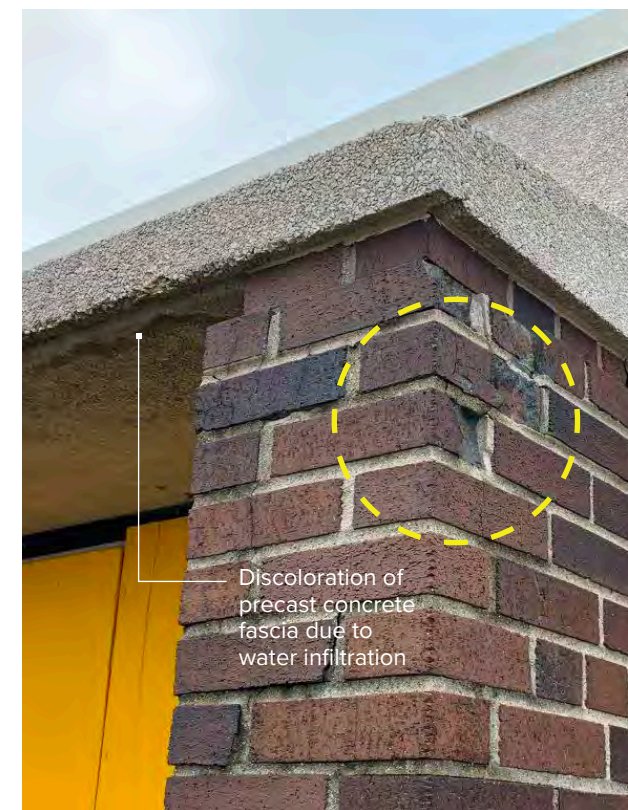
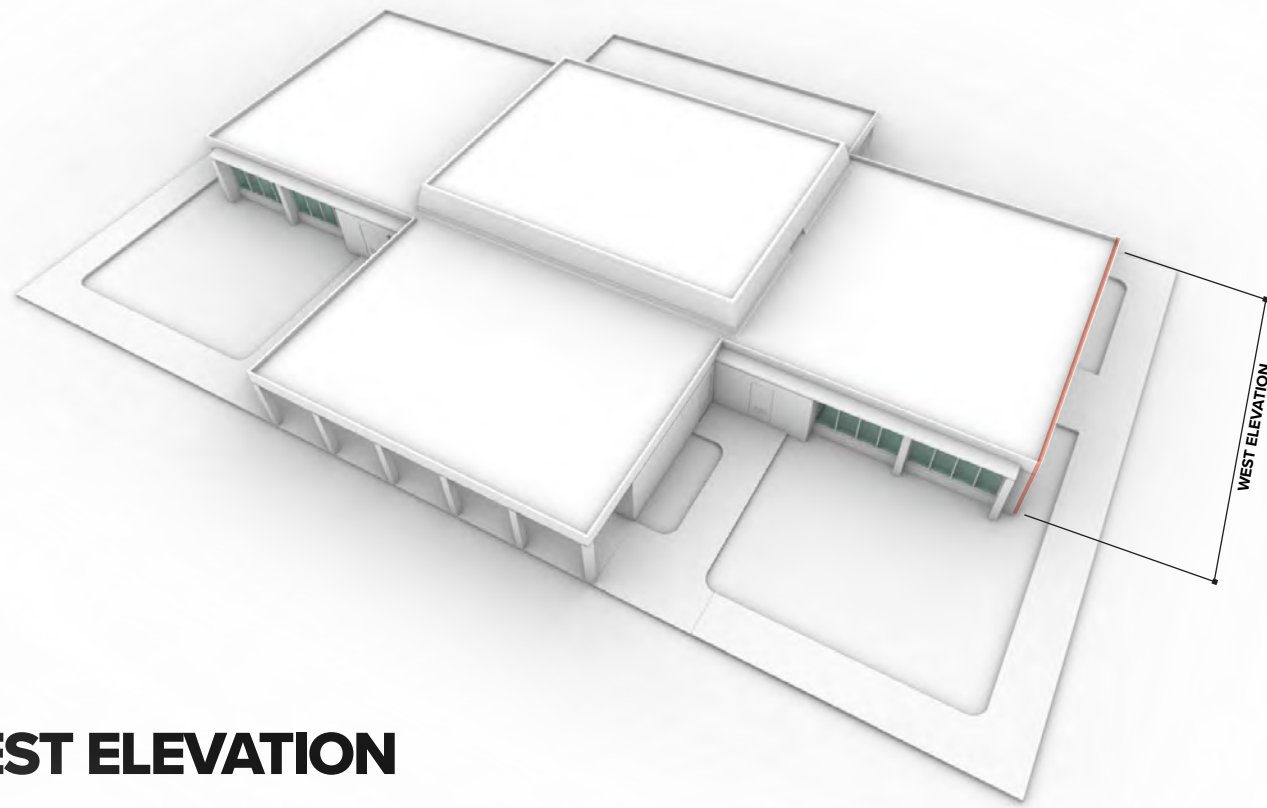


Photo N-23 / View of cracked face brick and sealant failure at precast concrete fascia and canopy.



Photo N-24 / View of failing sealant in precast concrete fascia at column 1-G.



WEST ELEVATION

Lenox Center / Exterior Envelope Assessment

At the West Elevation access to the Lenox Center is provided through two entry doors in the central portion of the facade providing access to the Multi-Purpose Room (107).



Photo W-02 / View looks SW towards exterior access to Mechanical Room (112). Door hardware is missing components. Doors are jammed in frames.



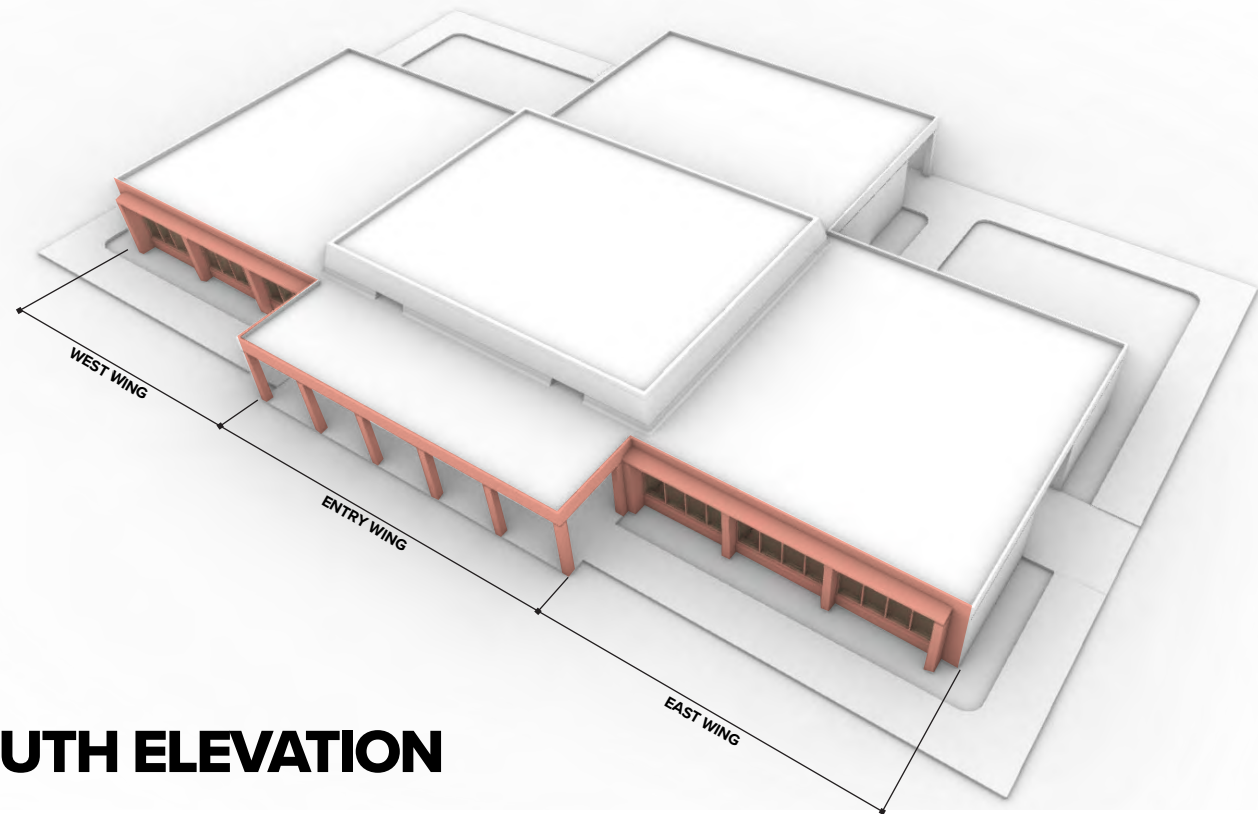
Photo W-01 / Overall view of West Elevation. Face brick is in Good to Fair position on this side of the building.



Photo W-03 / Minor corrosion in steel lintels and door leaf. Door hardware absent.



Photo W-04 / Deteriorating & corroded steel lintels causing horizontal bed joints in masonry to open.



SOUTH ELEVATION

Lenox Center / Exterior Envelope Assessment

At the West Elevation access to the Lenox Center is provided through two entry doors in the central portion of the facade providing access to the Multi-Purpose Room (107) and Women's Coat Room (106) on the west and Mechanical (112) and Men's Coat Room (116) on the east. Each wing has two bays of windows (7'-4" x 12'-0"), that are currently boarded over.



Photo S-01 / Partial view of South Elevation / West Wing. Protective plywood sheathing has been fastened through aluminum storefront framing. Glass behind is shattered or missing.



Photo S-02 / View of spalling / cracked brick and sealant failure at precast concrete and pilaster.



Photo S-04 / View of water damage and failure at precast concrete canopy/fascia at column B-2.



Photo S-05 / View of cracked face brick and sealant failure at precast concrete fascia and canopy.



Photo S-03 / View of spalling / cracked brick and decay of precast concrete and pilaster.



Photo S-06 / View of water damage and failure at precast concrete canopy/fascia at column B-3.



Photo S-07 / Partial view of South Elevation / Entry Wing (west)



Photo S-10 / View of NW wingwall at column 4-B. Evidence of moisture damage in canopy soffit ceiling (cement plaster on metal lath). Moisture damage and efflorescence in lower brick wall. Sealant failure at window frame.

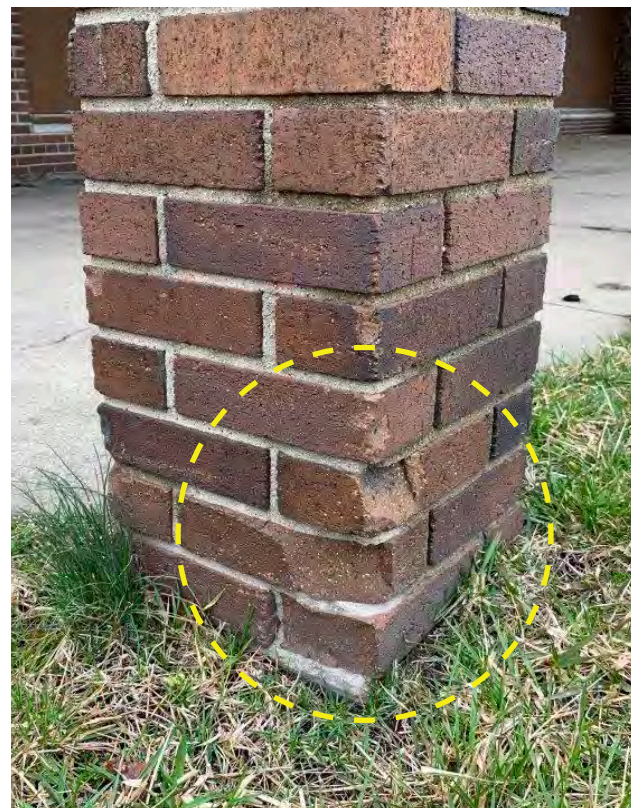


Photo S-08 / View of open joints, vertical cracking and loose brick at base of column 4-A.



Photo S-09 / View of water damage and failing sealant in precast concrete fascia at column 4-A.

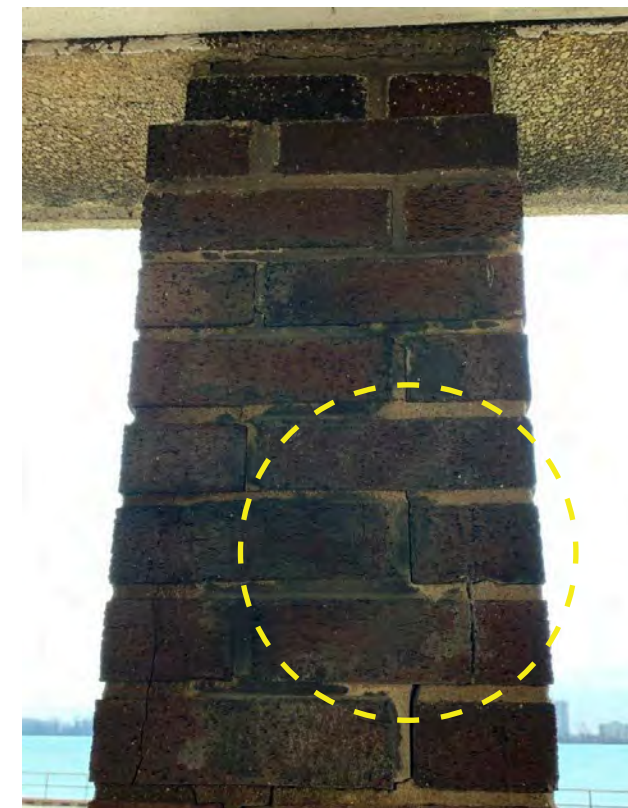


Photo S-11 / Moisture damage, open joints & cracking through joints & brick at column 5-A.

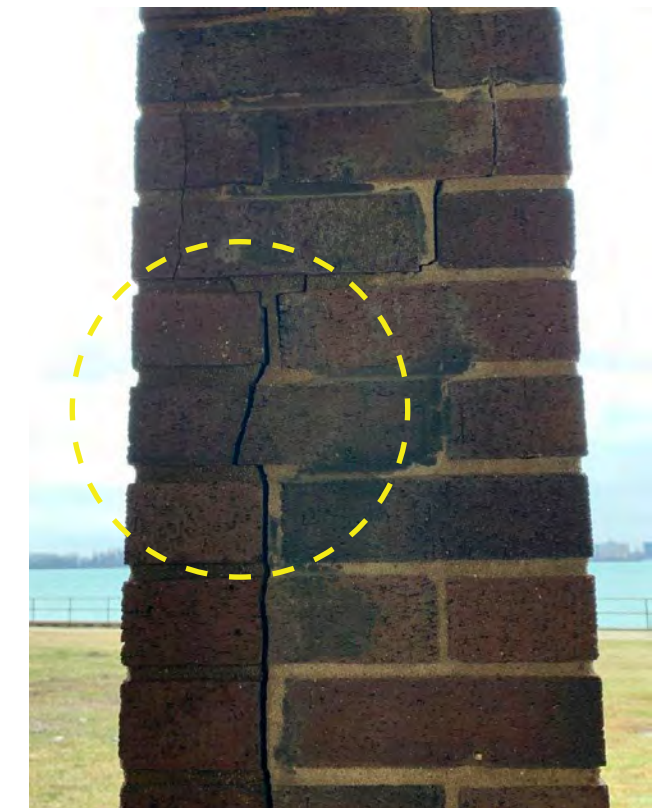


Photo S-12 / Moisture damage, open joints & vertical cracking through joints & brick at column 6-A.



Photo S-13 / Partial view of South Elevation / Entry Wing (east)



Photo S-16 / View of NE wingwall at column 9-B. Evidence of moisture damage in canopy soffit ceiling (cement plaster on metal lath). Moisture damage brick wall wing-wall. Sealant failure at window frame with broken glass.



Photo S-14 / View of water damage, open joints & vertical cracking and loose brick at column 8-A.



Photo S-15 / View of water damage, failing sealant and spalling precast concrete fascia at column 9-A.



Photo S-17 / View at column-canopy joint at 9-B - joint failure, water damage & bearing plate corrosion.

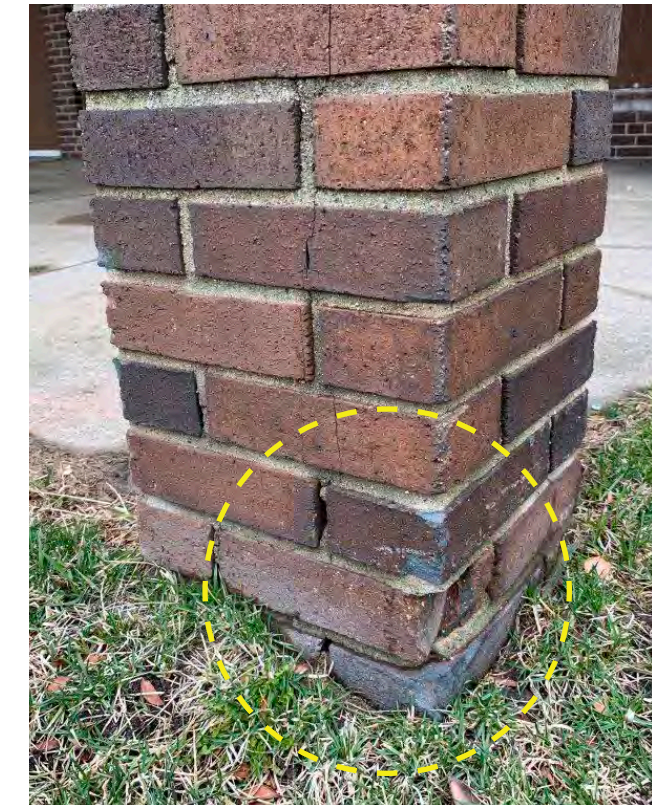


Photo S-18 / View of open joints, vertical cracking and loose brick at base of column 9-A.



Photo S-19 / Partial view of South Elevation / East Wing. Protective plywood sheathing has been fastened through aluminum storefront framing. Glass behind is shattered or missing.



Photo S-21 / Broken glazing and plywood has been fastened through aluminum window frame.



Photo S-23 / View of sealant failure and edge decay of precast concrete fascia and canopy at B-12



Photo S-24 / Evidence of broken glazing and loss of joint material between precast concrete sill.



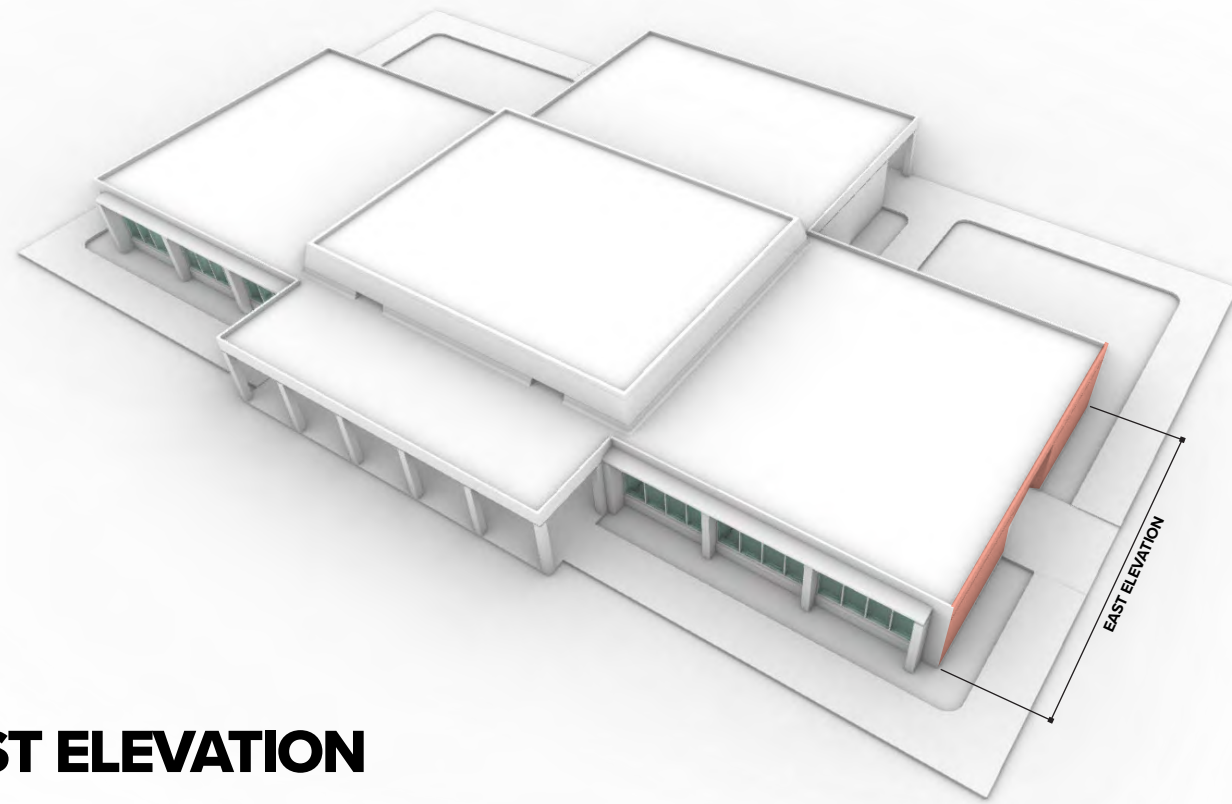
Photo S-20 / View at precast concrete canopy at B-9. Evidence of joint failure between face brick and precast concrete fascia, water damage and broken glass at window openings.



Photo S-22 / View of water damage at brick and precast concrete canopy at column B-12.



Photo S-25 / Evidence water damage and failing joints in face brick wing-wall at column B-12.



EAST ELEVATION

Lenox Center / Exterior Envelope Assessment

At the East Elevation access to the Lenox Center is provided through two entry doors in the central portion of the facade providing access to the Multi-Purpose Room (111).



Photo E-01 / Overall view of East Elevation



Photo E-02 / Evidence of corroded door, frame and steel lintel. opening.



Photo E-04 / Sealant failure in joint between precast concrete fascia and soffit.



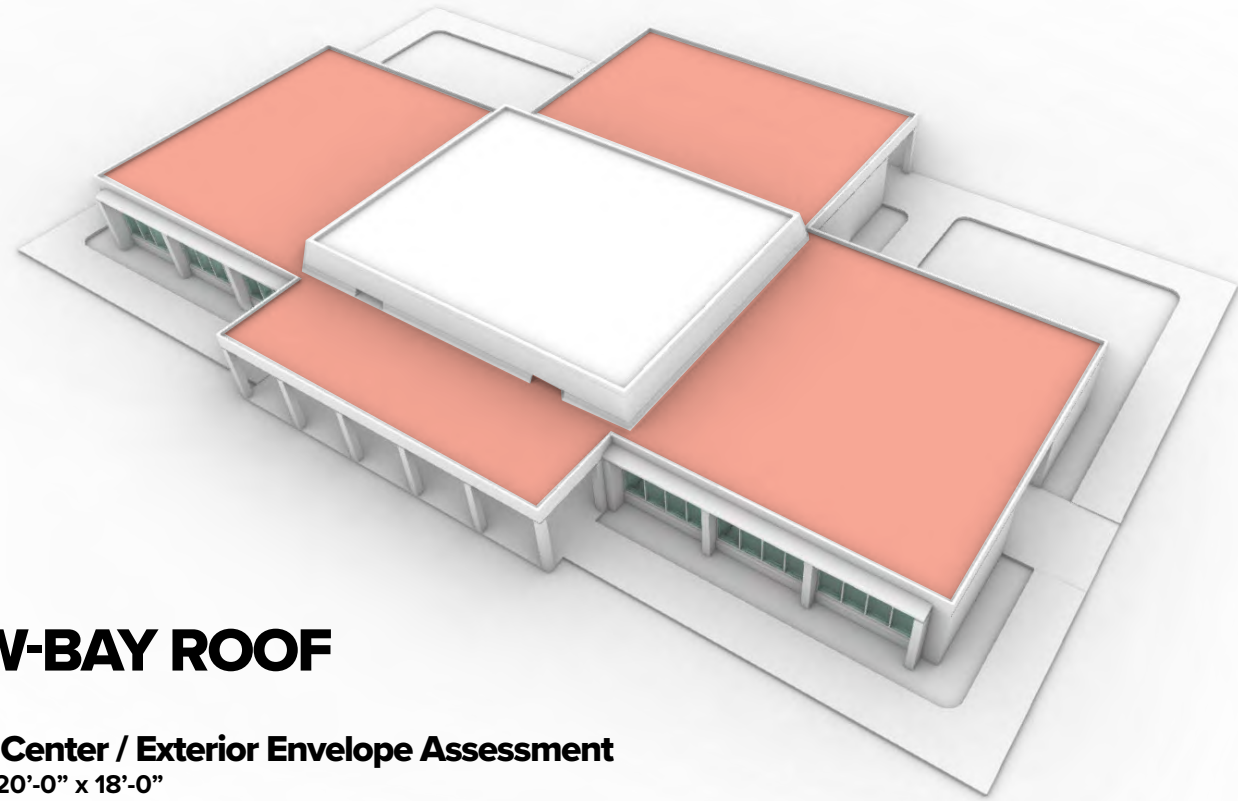
Photo E-05 / Evidence of corroded steel lintel and open joint in masonry above door opening.



Photo E-03 / Damaged surface mounted light fixture.



Photo E-06 / corroded door base and frame evidenced at entry.



LOW-BAY ROOF

Lenox Center / Exterior Envelope Assessment

Area 20'-0" x 18'-0"

Roof	Poor / Built-Up Roof (BUR) system with aggregate surface. Evidence of ponding and aggregate loss.
Insulation	Fair to Poor / 2" Rigid Insulation
Decking	Fair / 1 1/2" metal decking.
Flashing	Poor / Sealant failure in several areas at building perimeter and roof penetrations.
Drainage	Poor / Seal at roof sumps has deteriorated allowing water to penetrate the building interior. No redundancy for overflow drainage has been provided.



Photo R-01 / Overall view of Low-Bay Roof looking South.



Photo R-02 / View of cap flashing over precast concrete fascia & canopy with pitting evident



Photo R-03 / Evidence of ponding water and aggregate loss at Built-Up Roof. Corroded Mech. Unit.



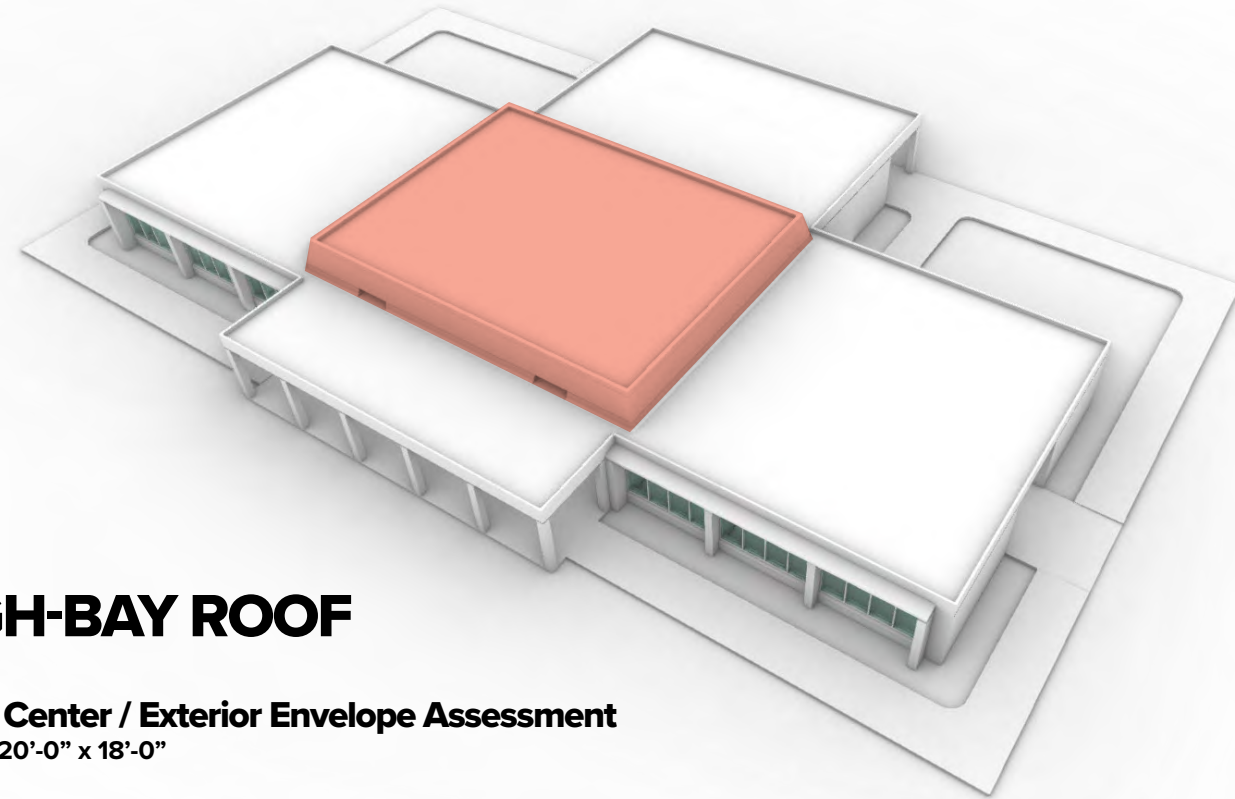
Photo R-04 / View looking West. Evidence of water ponding and aggregate loss on main roof.



Photo R-05 / Existing air cooled rooftop air conditioner with supply & return ductwork through the roof.



Photo R-06 / Existing roof drain (no basket strainer) and filled with debris. Drain body is corroded.



HIGH-BAY ROOF

Lenox Center / Exterior Envelope Assessment

Area 20'-0" x 18'-0"

- Roof** Poor / Built-Up Roof (BUR) system with aggregate surface. Evidence of ponding and aggregate loss. High bay is surrounded by a seamless terne standing-seam clad sloped wall with evidence of back-up sheathing decay and corrosion. Mechanical penetrations are corroded.
- Insulation** Fair to Poor / 2" Rigid Insulation
- Decking** Fair / 1 1/2" metal decking.
- Flashing** Poor / Sealant failure in several areas at building perimeter and roof penetrations.
- Drainage** Poor / Seal at roof sumps has deteriorated allowing water to penetrate the building interior.



Photo R-07 / Overall view of High-Bay Roof looking North East



Photo R-08 / View of seamless terne standing-seam roofing at sloped wall of high-bay roof.



Photo R-09 / Evidence of sealant failure, sheathing decay at roof exhaust & cracking at BUR.



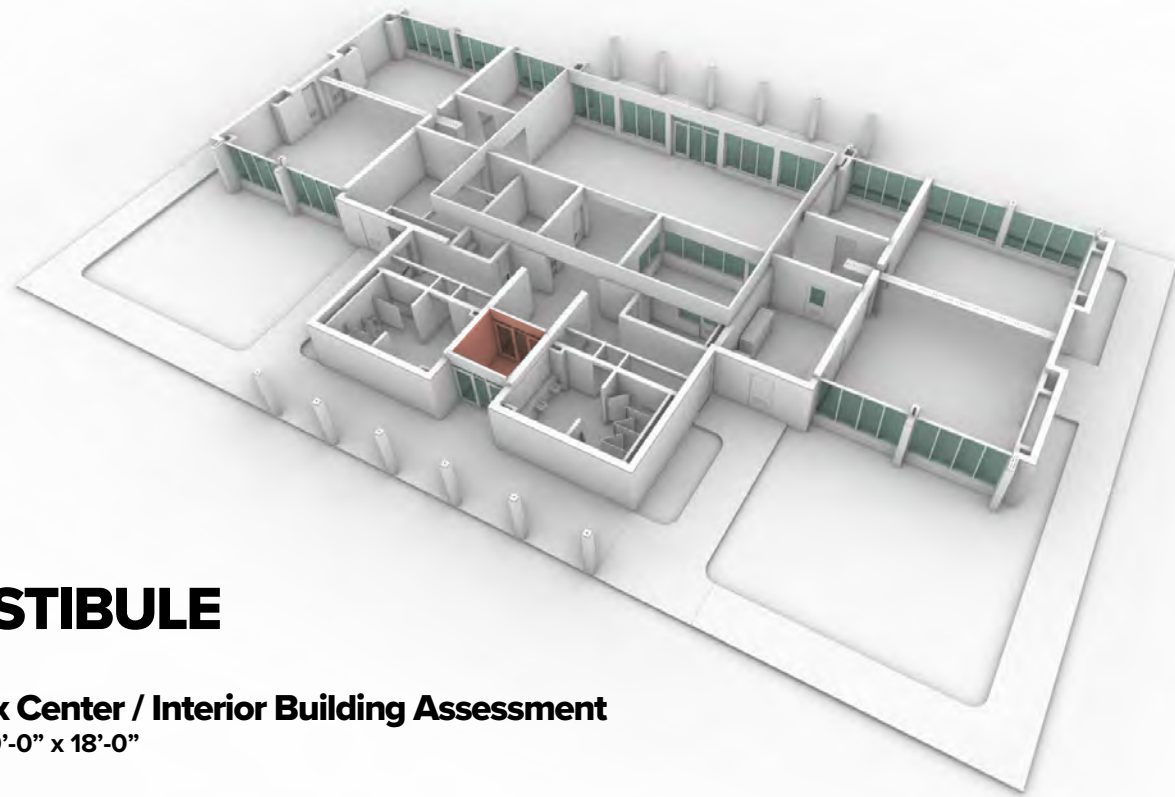
Photo R-10 / Evidence of water ponding, corroded mechanical and aggregate loss on main roof.



Photo R-11 / View of seamless terne standing-seam roofing with roof exhaust at sloped wall of high-bay.



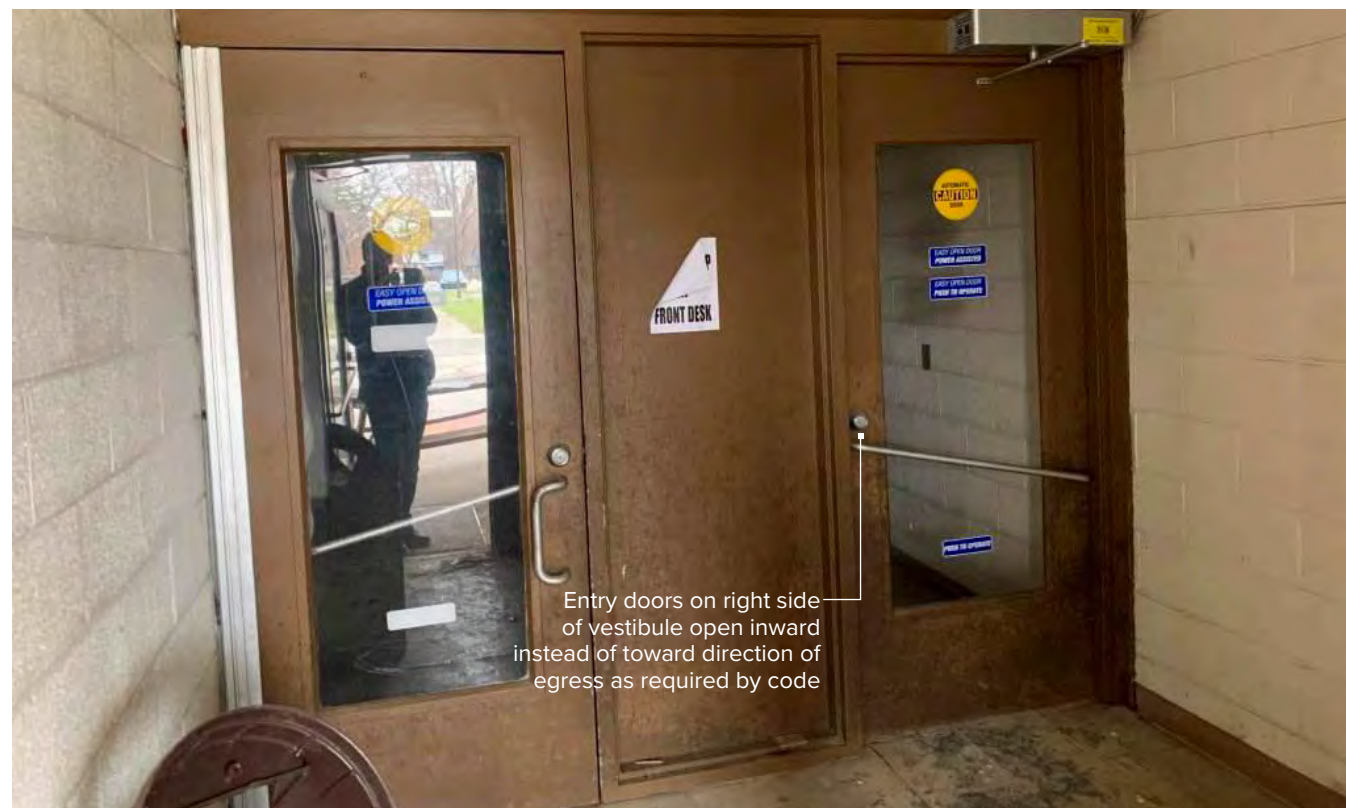
Photo R-12 / Evidence of sealant failure at flashing, moisture damage to wood & cracking at BUR.



VESTIBULE

Lenox Center / Interior Building Assessment Size 20'-0" x 18'-0"

- Floor** **Very Poor** / CIP concrete with Resilient Tile. Significant deterioration & moisture damage.
- Base** **Very Poor** / Rubber base
- Walls** **Fair** / Concrete Masonry Unit with painted finish.
- Doors** **Poor** / Exterior & interior hollow metal doors with painted finish. Corrosion evident.
- Frame** **Poor** / Hollow metal frame with painted finish - areas of minor corrosion.
- Ceiling** **Very Poor** / Plaster on furring.
- Light Fixtures** **Very Poor** / Recessed combination fixture/diffuser.



Entry doors on right side of vestibule open inward instead of toward direction of egress as required by code

Photo I-01 / Overall view of Vestibule (101) interior.



Egress doors have keyed dead bolt and do not have panic hardware.

Photo I-02 / View of exterior door at Vestibule (101) - Alum. threshold and Entry Mat in Very Poor condition.

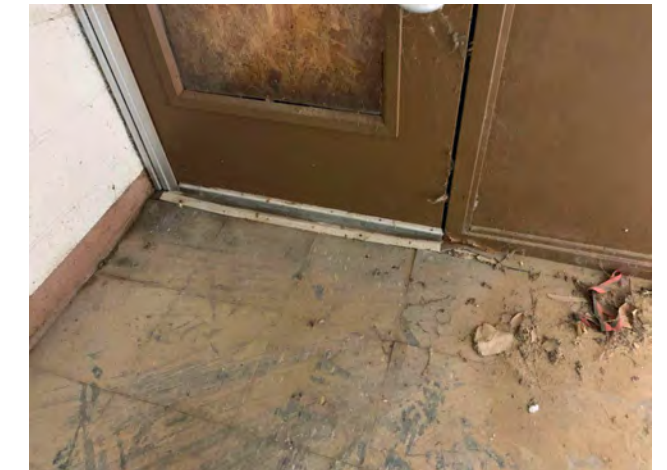


Photo I-04 / View of water damaged and delaminating resilient tile at Vestibule floor.



Photo I-05 / View of corroded frame, water damaged and delaminating resilient tile at Vestibule floor.

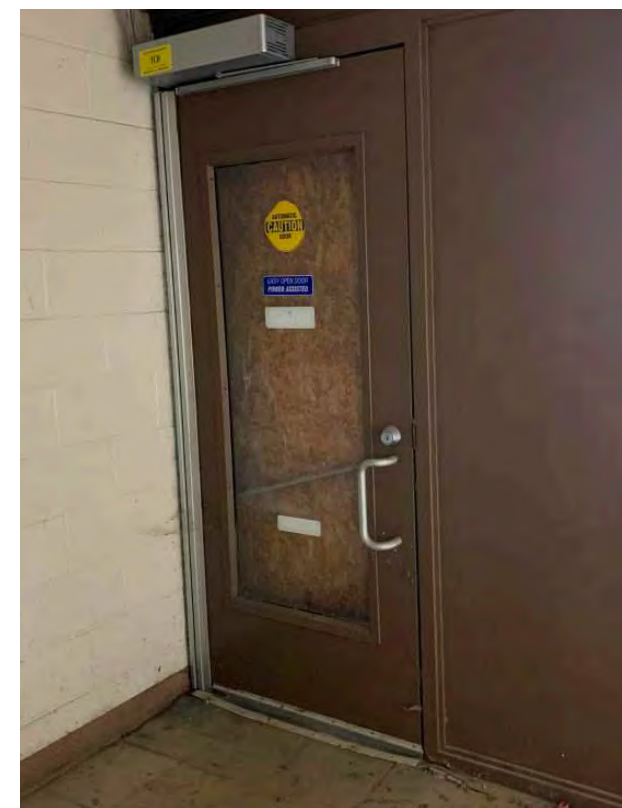


Photo I-03 / View of interior door at Vestibule (101) with painted central panel.



slab is cracked and lifted in this area inside the building - cause unknown, but suspect possible plumbing rupture (or other cause) from below slab - further investigation is required

Photo I-06 / View of water damaged and delaminating resilient tile at Vestibule floor.



WOMEN'S TOILET ROOM

Lenox Center / Interior Building Assessment
 Size 16'-10" x 12'-4"

- Floor** Fair to Poor / Ceramic Tile over CIP concrete slab.
- Base** Fair to Poor / Ceramic Tile
- Walls** Fair / Ceramic Tile over Concrete Masonry Unit
- Partitions** Very Poor / Corrosion evident. Clearances and wall mounted grab bars do not meet code.
- Plumbing** Very Poor / Toilet removed. Fixture clearances do not meet code..
- Ceiling** Very Poor / Plaster on furring.
- Light Fixtures** Very Poor / Recessed 1x4 fluorescent troffer & 12" square incandescent.



Faucets and other plumbing hardware is missing.

Photo I-07 / Wall-mounted lavatory and pipe protection panel is non-compliant with ADA regulations. Wall mounted hand dryers, paper towel dispenser and soap dispensers are corroded in various states of disrepair.

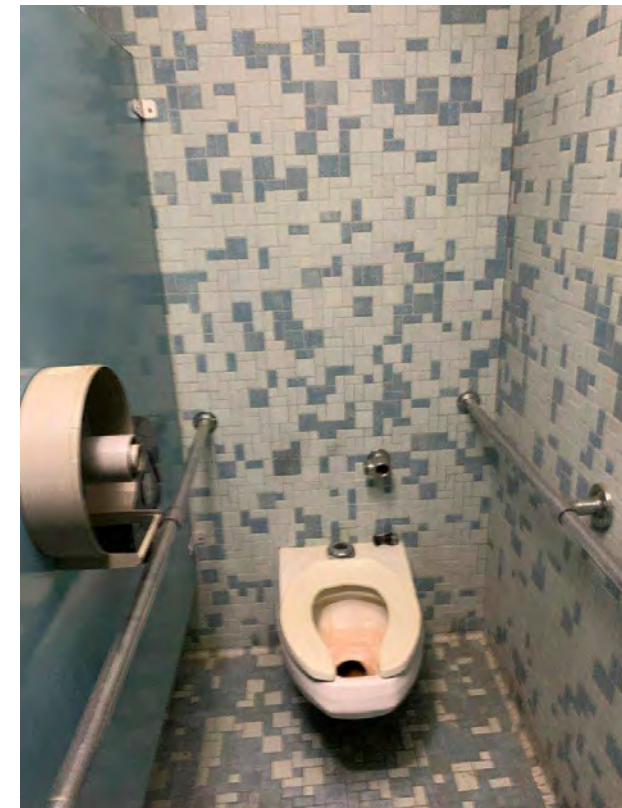


Photo I-08 / Stall does not meet clearance or grab bar mounting requirements for ADA compliance.

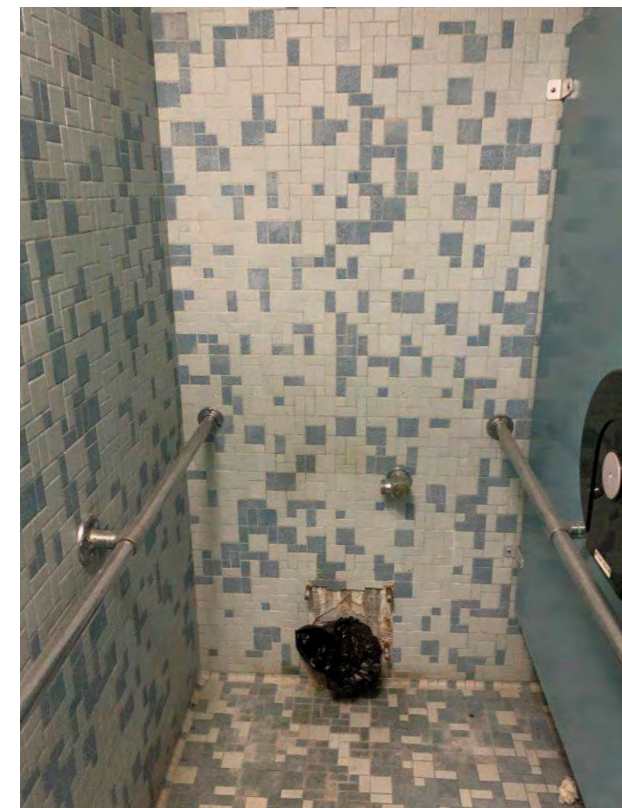


Photo I-09 / Missing fixture. Stall does not meet clearance or grab bar mounting for ADA compliance.



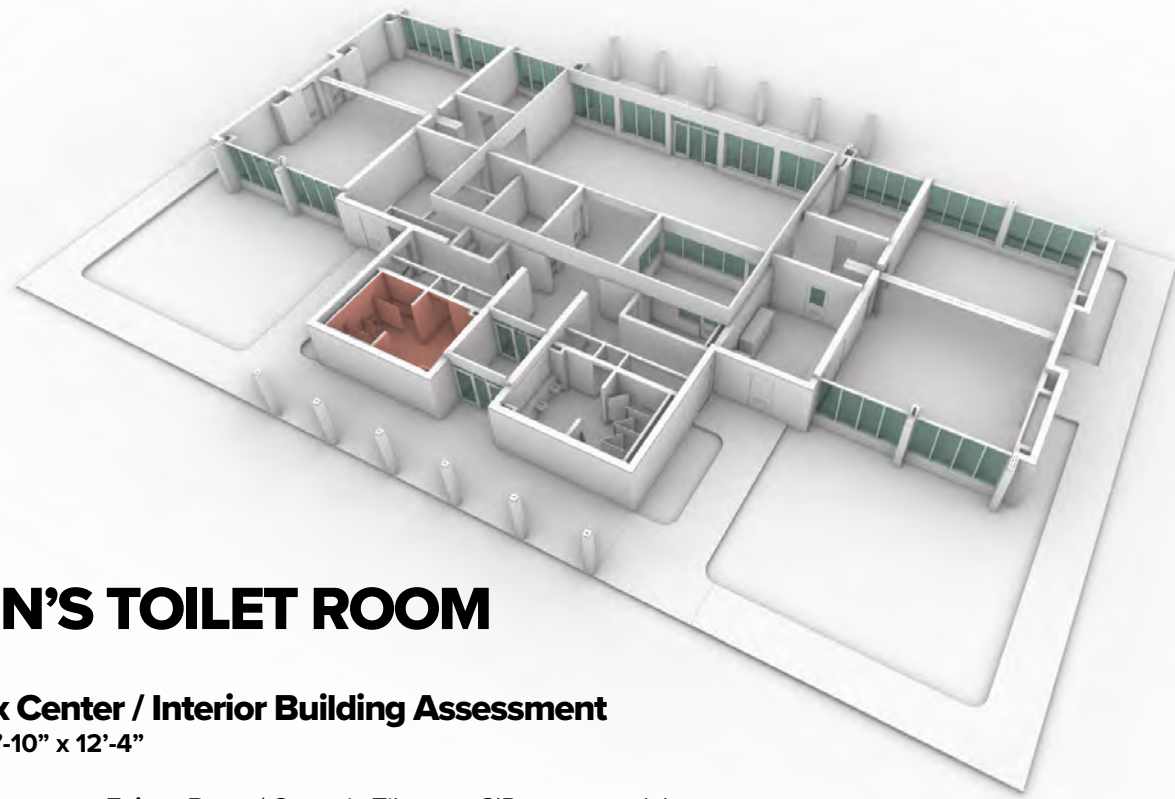
Photo I-10 / View of floor mounted partitions with signs of delaminating finish, corrosion & deterioration.



Photo I-11 / Wall-mounted lavatory and pipe protection panel is non-compliant with ADA regulations.



Photo I-12 / Corrosion and deterioration at wall mounted electric hand dryer.



MEN'S TOILET ROOM

Lenox Center / Interior Building Assessment

Size 16'-10" x 12'-4"

Floor	Fair to Poor / Ceramic Tile over CIP concrete slab.
Base	Fair to Poor / Ceramic Tile
Walls	Fair / Ceramic Tile over Concrete Masonry Unit
Partitions	Very Poor / Corrosion evident. Clearances and wall mounted grab bars do not meet code.
Plumbing	Very Poor / Toilet removed. Fixture clearances do not meet code..
Ceiling	Very Poor / Plaster on furring.
Light Fixtures	Very Poor / Recessed 1x4 fluorescent troffer & 12" square incandescent.

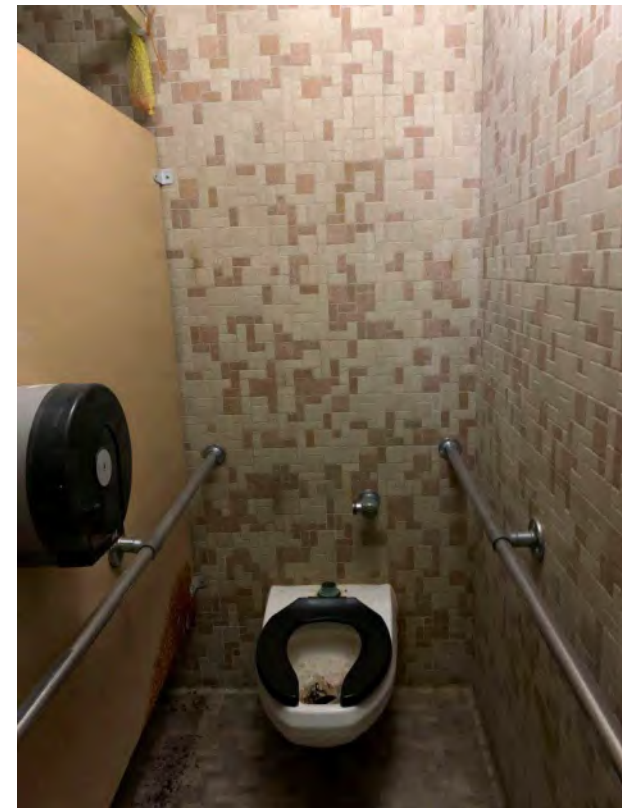


Photo I-14 / Stall does not meet clearance or grab bar mounting requirements for ADA compliance.



Photo 1-16 / View of water damaged and delaminating resilient tile at Vestibule floor.



Photo I-17 / View of corroded recessed 1x4 fluorescent troffer in plaster ceiling.

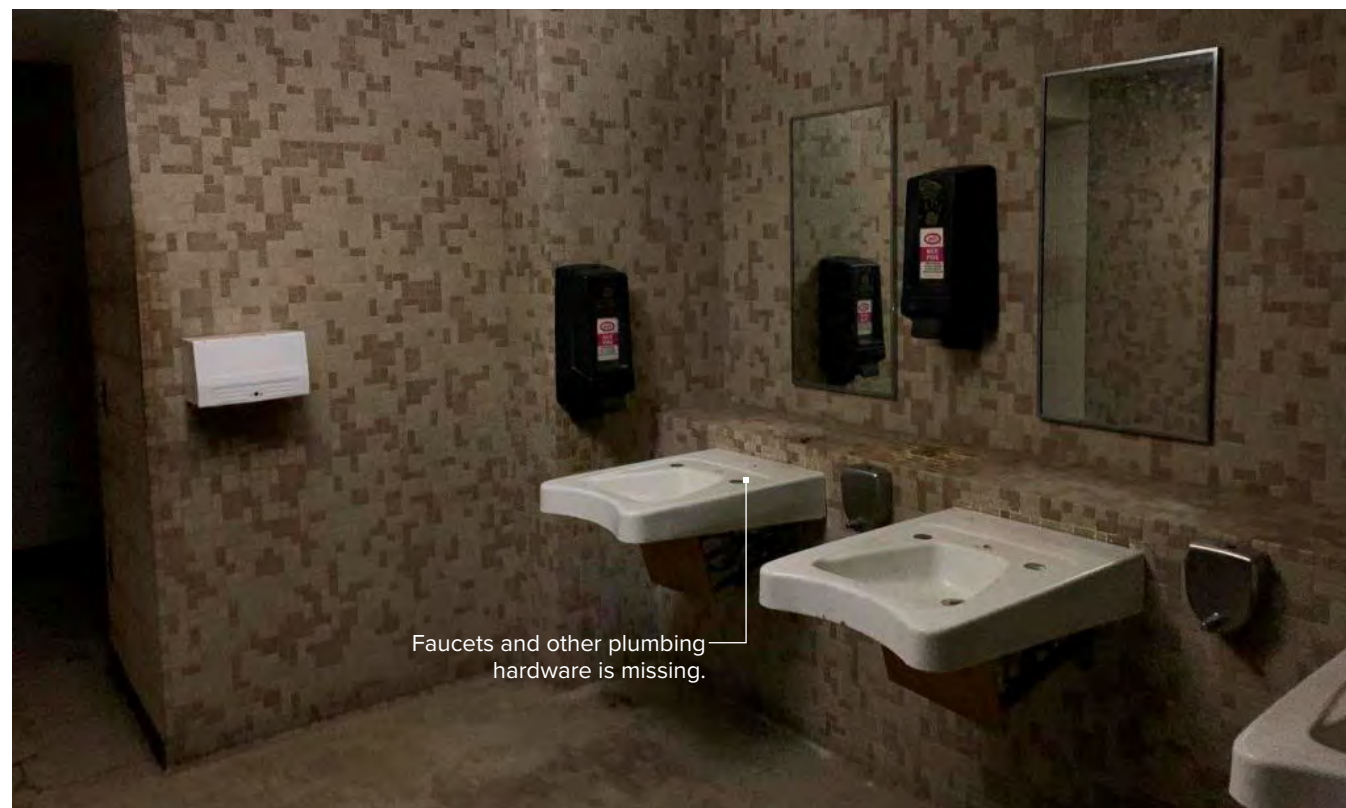


Photo I-13 / Wall-mounted lavatory and pipe protection panel is non-compliant with ADA regulations. Wall mounted hand dryers, paper towel dispenser and soap dispensers are corroded in various states of disrepair.

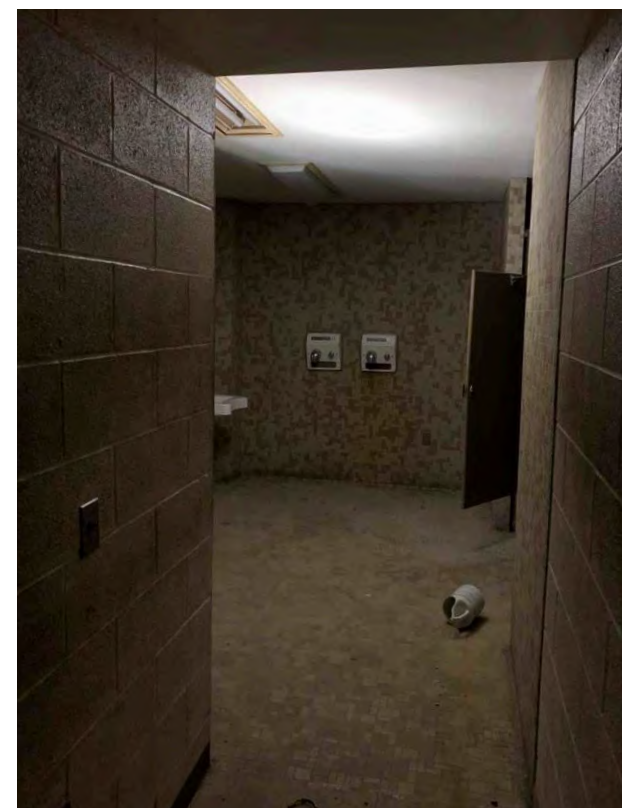


Photo I-15 / Corrosion and deterioration at wall mounted electric hand dryer.



Photo I-18 / Wall-mounted lavatory and pipe protection panel is non-compliant with ADA regulations.

LOBBY / COAT ROOMS

Lenox Center / Interior Building Assessment

Size 13'-0" x 27'-2" (Lobby) / 19'-0" x 8'-0" (Coat Room)

Floor	Very Poor / CIP concrete with Resilient Tile. Significant deterioration & moisture damage.
Base	Very Poor / Rubber base - delaminating and missing in areas.
Walls	Fair to Poor / Concrete Masonry Unit with painted finish. Plywood panels in Coat Rooms
Doors	Very Poor / Exterior hollow metal doors with painted finish. Significant corrosion evident.
Frame	Fair / Aluminum frame with anodized finish - areas of pitting and sealant failure.
Ceiling	Very Poor / Plaster on furring.
Light Fixtures	Very Poor / Recessed 10" and 12" down-lights & 12" square incandescent.

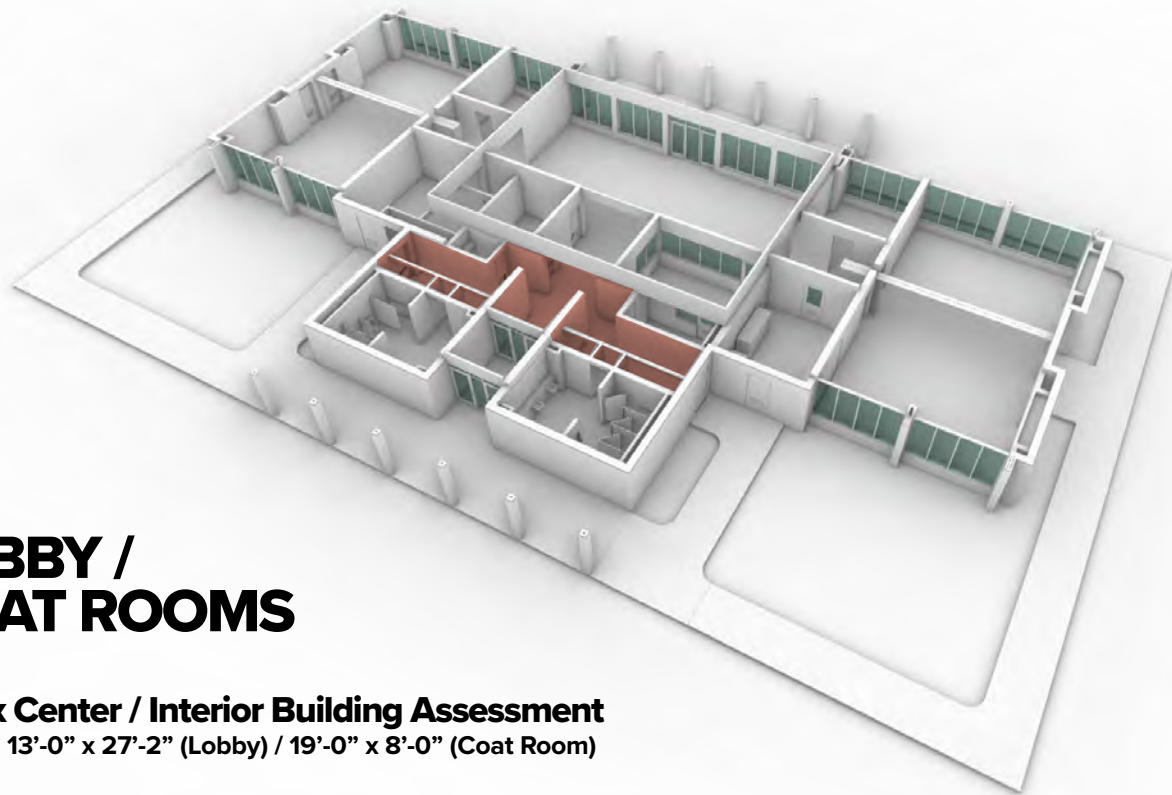


Photo I-19 / Overall view of Lobby (115) interior.

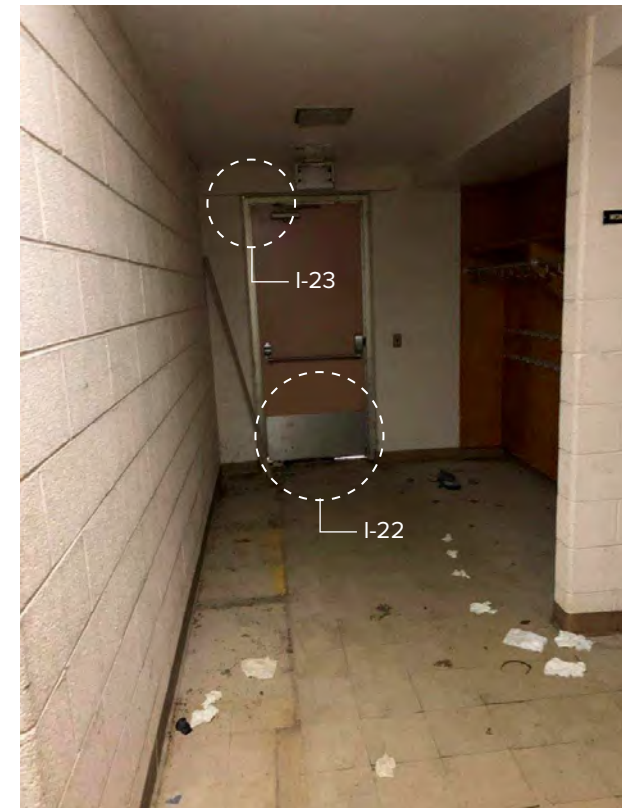


Photo I-20 / View Women's Coat Room (103). Evidence of damaged floor and plywood panelling.



Photo I-22 / Corroded door base and threshold in Women's Coat Room (103)



Photo I-23 / Failure in joint at concrete door lintel and translated cracking along CMU wall and plaster ceiling.

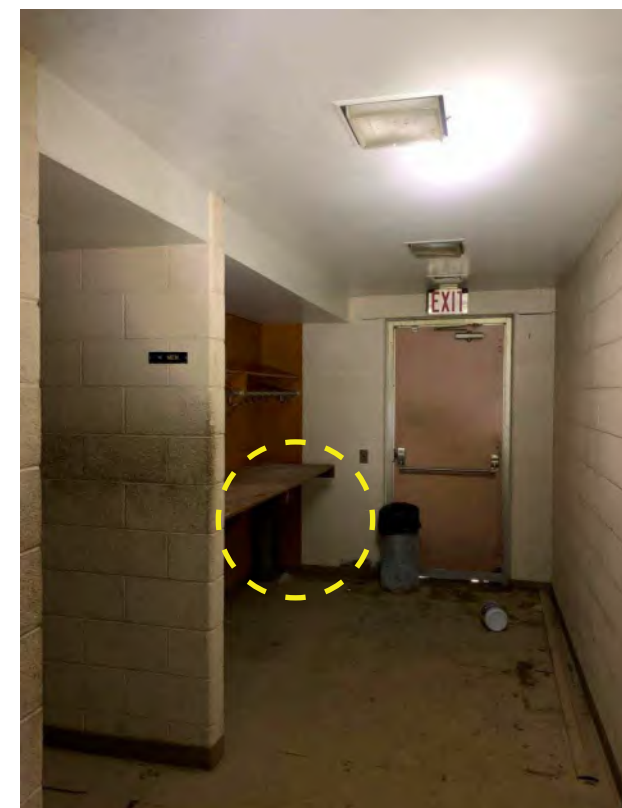


Photo I-21 / View of Men's Coat Room (116). Evidence of damaged floor and plywood panelling.



Photo I-24 / Failure in joint at concrete door lintel.

OFFICE / FIRST AID

Lenox Center / Interior Building Assessment

Size 17'-4" x 10'-4" (Office) / 7'-4" x 12'-2" (First Aid)

- Floor** Very Poor / CIP concrete with Resilient Tile. Significant deterioration & moisture damage.
- Base** Very Poor / Rubber base - delaminating.
- Walls** Fair to Poor / Concrete Masonry Unit with painted finish. Painted hollow metal frame & glazing.
- Doors** Poor / Exterior hollow metal doors with painted finish. Significant corrosion evident.
- Frame** Fair / Aluminum frame with anodized finish - areas of pitting and sealant failure.
- Ceiling** Very Poor / Acoustic ceiling tile & grid. Tile has been removed.
- Light Fixtures** Very Poor / Recessed 1x4 fluorescent troffer.

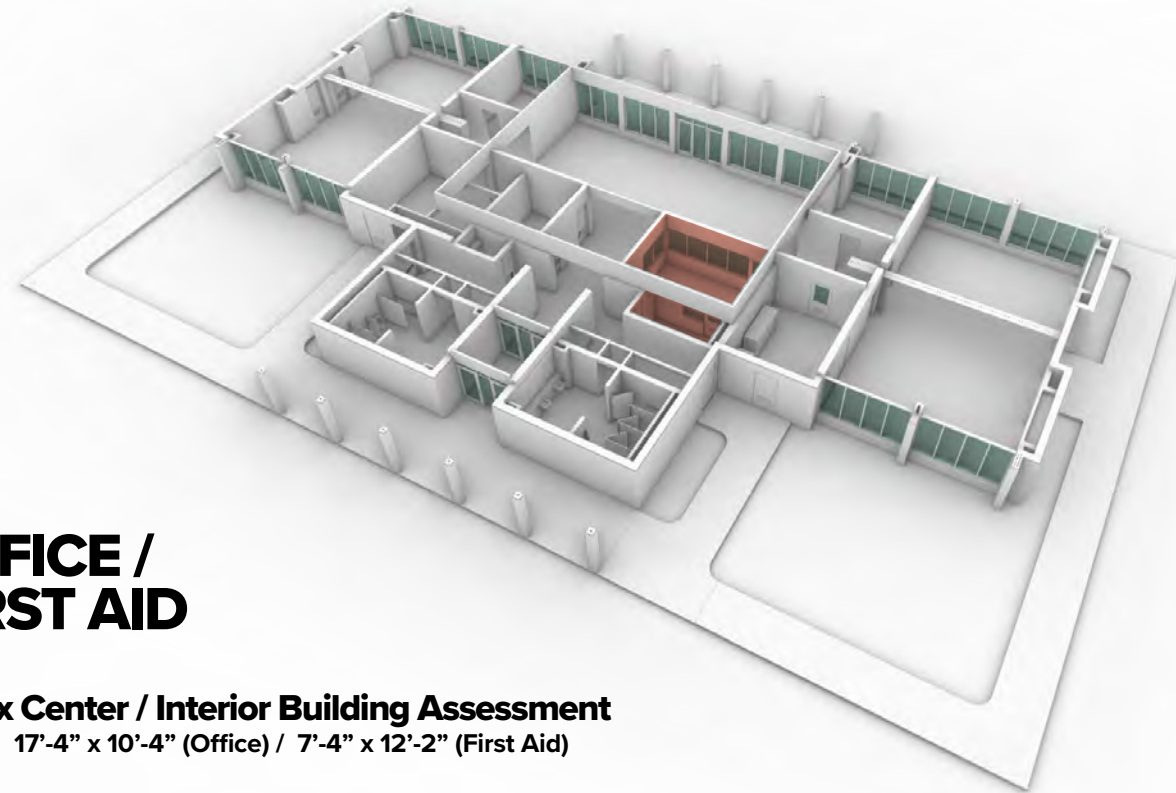


Photo I-26 / View looking west towards entry to Lounge (109) from Office (105)

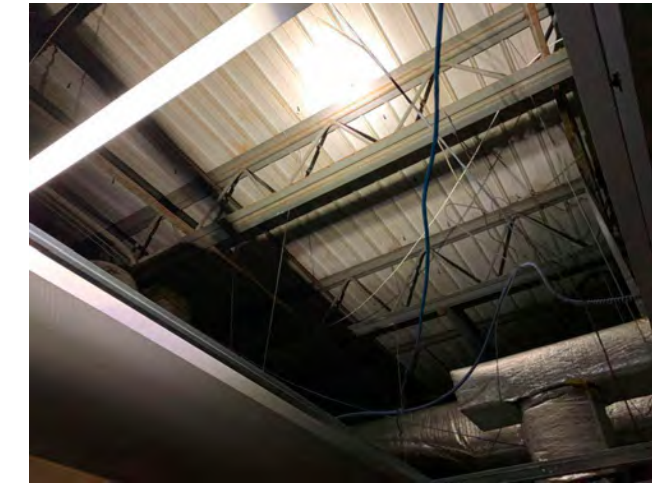


Photo I-28 / View through ceiling grid of steel joist framing and metal roof deck.



Photo I-29 / View through ceiling grid of insulated ducts, steel joist framing and metal roof deck.



Photo I-25 / Overall view of Office (105) interior.



Photo I-27 / Interior view of First Aid (104).

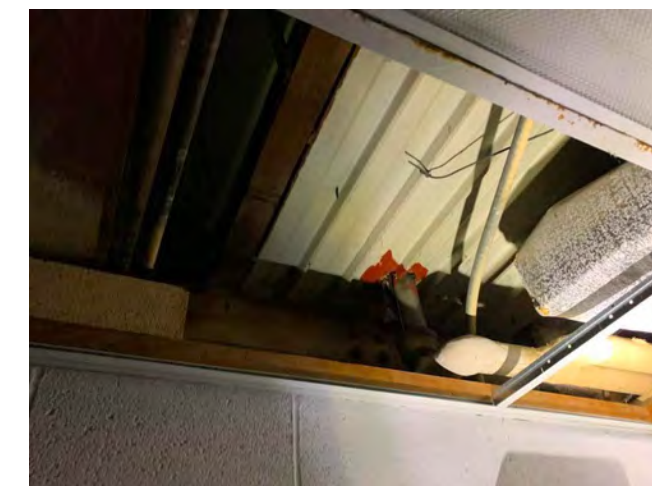
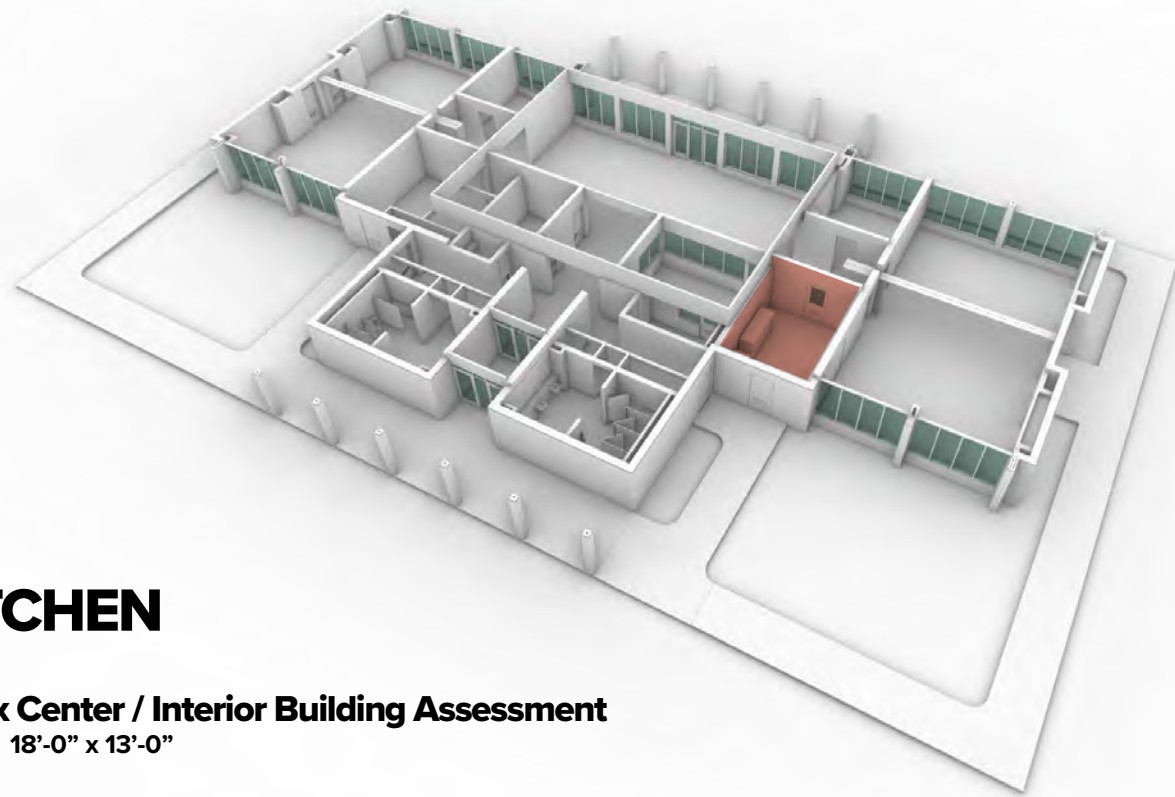


Photo I-30 / View through ceiling grid of pipe penetration through metal roof deck.



KITCHEN

Lenox Center / Interior Building Assessment

Size 18'-0" x 13'-0"

- Floor** Very Poor / CIP concrete with Resilient Tile. Significant deterioration & moisture damage.
- Base** Very Poor / Rubber base - delaminating.
- Walls** Fair to Poor / Concrete Masonry Unit with painted finish. Finish delaminating. Joint failure evident.
- Doors** Very Poor / Fire-rated doors Type B corroded - no glass. Exterior HM door and hardware corroded.
- Frame** Fair to Poor / Exterior aluminum frame pitting and sealant failure. HM frames corroded.
- Ceiling** Very Poor / Plaster on furring heavily damaged in areas. Moisture evident
- Light Fixtures** Very Poor / Surface mounted 1x4 fluorescent fixtures - lens missing. Corroded outer body.



Photo I-31 / Overall view of Office (105) interior.



Photo I-32 / Range/oven with minor corrosion and in general disrepair. Moisture damage evident at plaster ceiling. Resilient tile broken & delaminating from slab..



Photo I-33 / 3-compartment sink with minor corrosion and in general disrepair.



Photo I-34 / Sealant failure at perimeter of exterior door. Evidence of moisture on face of CMU walls.



Photo I-35 / Failure plaster ceiling due to extensive water damage and moisture infiltration.

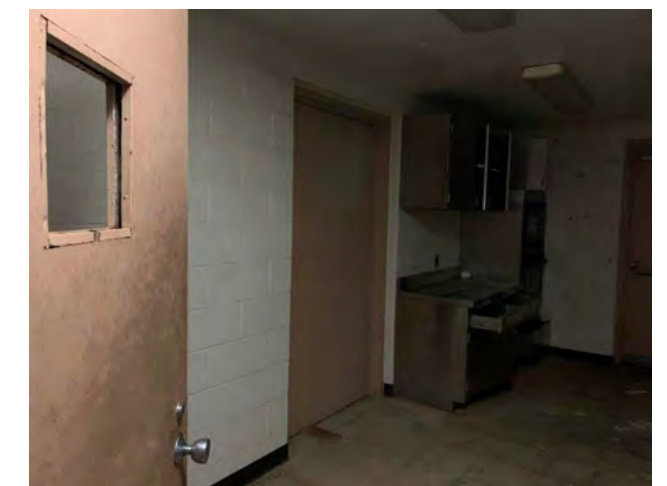
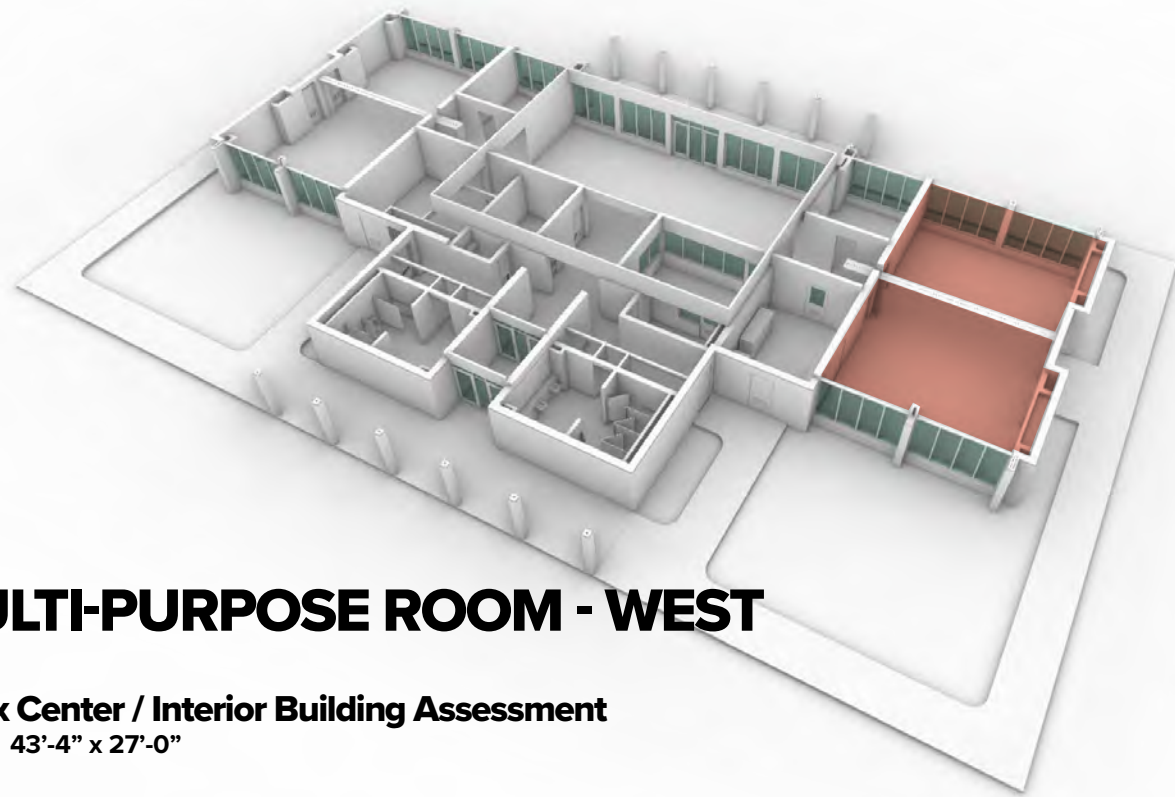


Photo I-36 / Evidence of corrosion on fire-rated doors with no glazing in 12x12 opening.



MULTI-PURPOSE ROOM - WEST

Lenox Center / Interior Building Assessment

Size 43'-4" x 27'-0"

- Floor** Very Poor / CIP concrete with Resilient Tile. Significant deterioration & moisture damage.
- Base** Very Poor / Rubber base - delaminating.
- Walls** Fair to Poor / Concrete Masonry Unit with painted finish. Aluminum window frames with no glazing.
- Doors** Poor / Exterior HM doors with painted finish. Hardware removed, disrepair with corrosion evident.
- Frame** Fair to Poor / Aluminum frame with anodized finish - areas of pitting and sealant failure.
- Ceiling** Very Poor / Acoustic ceiling tile & grid. Tile has been removed.
- Light Fixtures** Very Poor / Recessed 4'x4' fluorescent fixture with extruded opal lens.



Photo I-37 / Overall view of Multi-Purpose (107) interior.

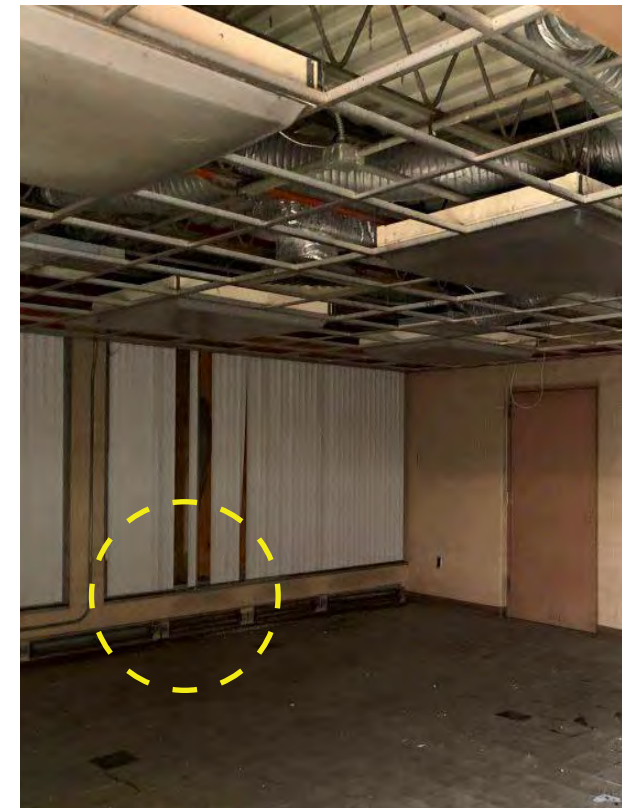


Photo I-38 / Covers removed and heavy corrosion in electric base board radiators. Ceiling tiles removed.



Photo I-39 / Covers missing & corrosion in electric base board radiators. Window blinds in poor condition.



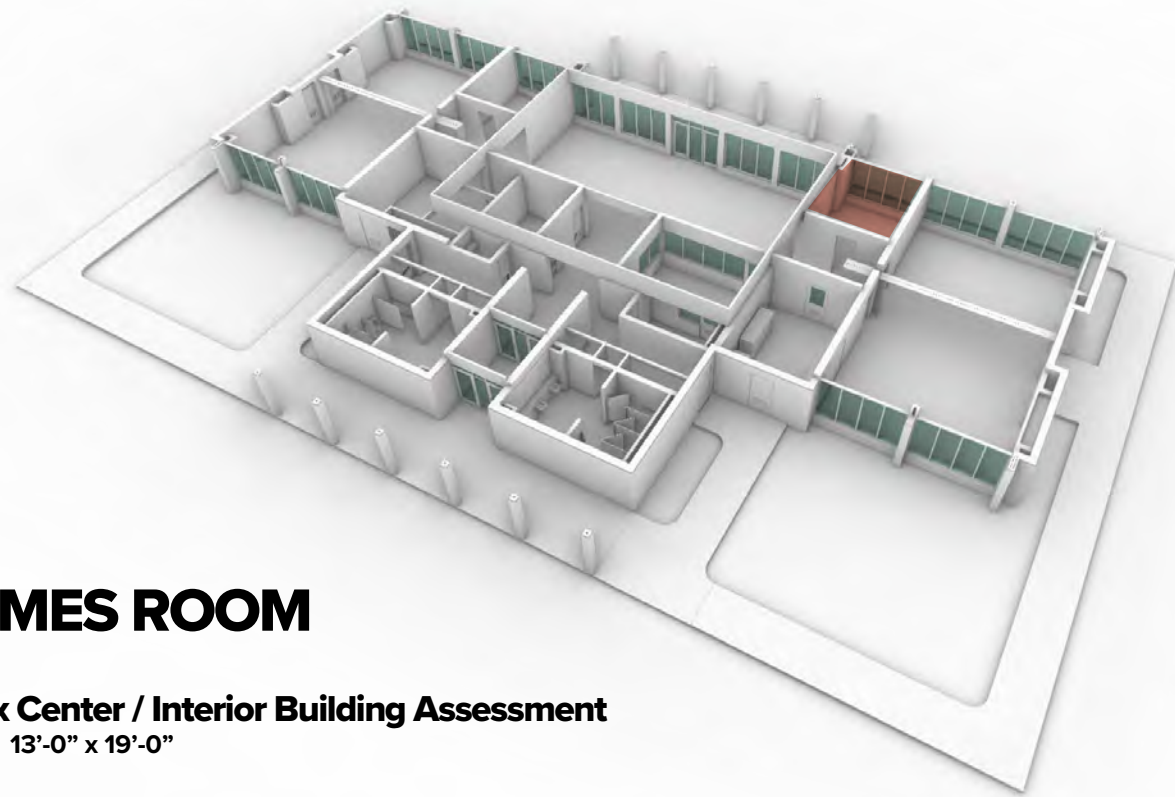
Photo 1-40 / View through ceiling grid of steel joist framing, metal roof deck and roof sump penetration.



Photo I-41 / View through ceiling grid of steel beam framing, metal roof deck & plywood cove at perimeter.



Photo I-42 / Delaminated & crumbling resilient floor tile. Corrosion evidenced in light fixture housing.



GAMES ROOM

Lenox Center / Interior Building Assessment

Size 13'-0" x 19'-0"

- Floor** Very Poor / CIP concrete with Resilient Tile. Significant deterioration & moisture damage.
- Base** Very Poor / Rubber base - delaminating.
- Walls** Fair to Poor / Concrete Masonry Unit with painted finish. Aluminum window frames with no glazing.
- Doors** Poor / N/A
- Frame** Fair to Poor / Aluminum frame with anodized finish - areas of pitting and sealant failure.
- Ceiling** Very Poor / Acoustic ceiling tile & grid. Tile has been removed.
- Light Fixtures** Very Poor / Recessed 2'x4' fluorescent fixture.



Photo I-43 / Overall view of Games Room (108). Aluminum window frames have been compromised by fastening of plywood sheathing. Glazing has been removed. Electric base board radiators have been damaged and corroding.

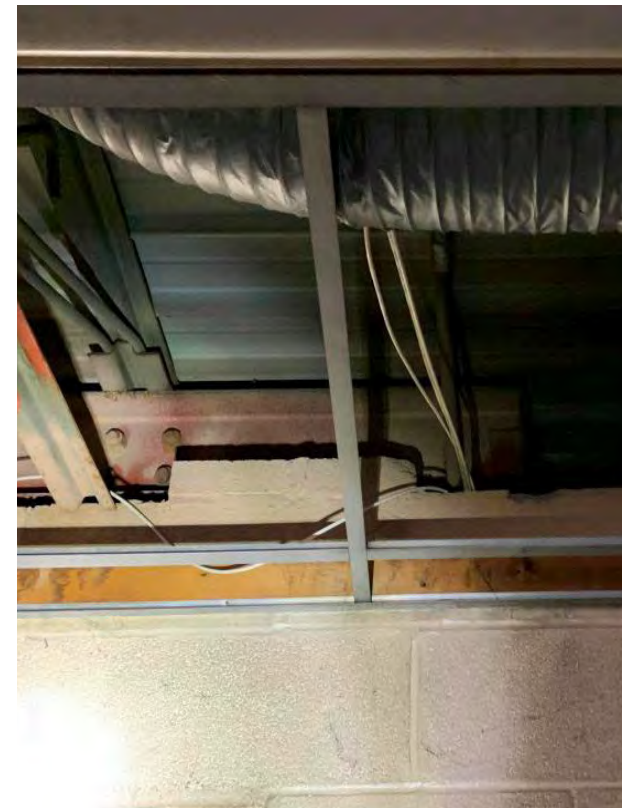


Photo I-44 / View through ceiling grid of steel beam & joist framing and metal roof deck.



Photo I-46 / View through ceiling grid of insulated piping, duct work and metal roof deck.

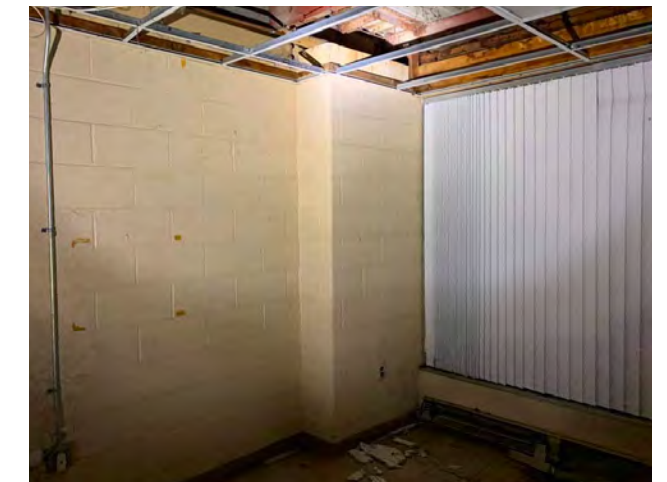


Photo I-47 / Covers removed and heavy corrosion in electric base board radiators.

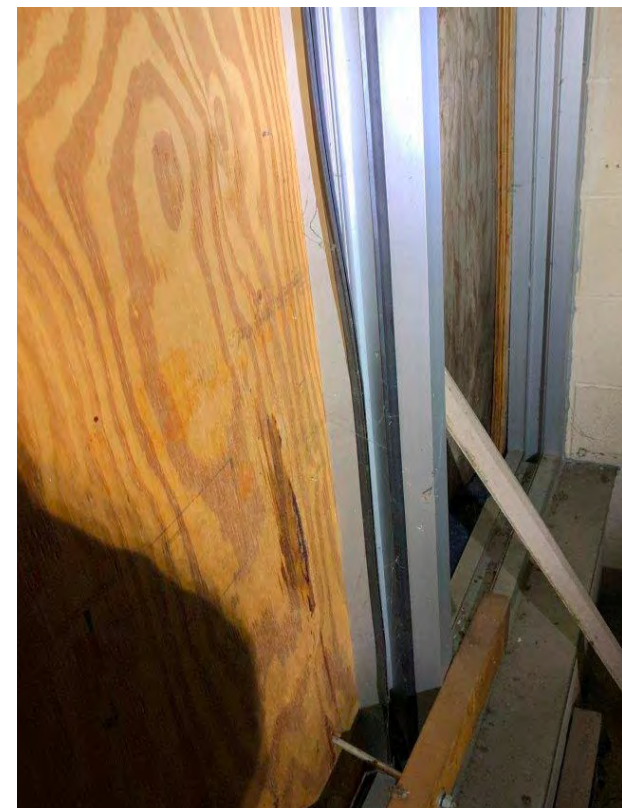
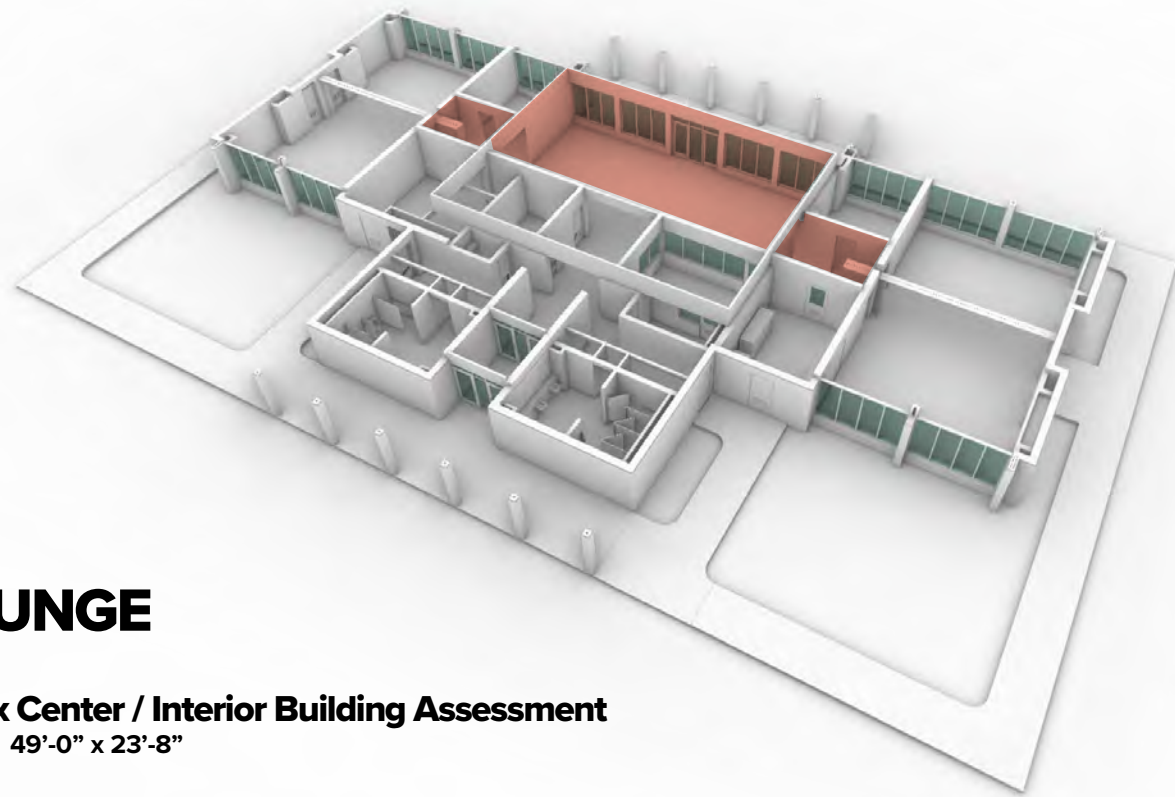


Photo I-45 / Heavy damage to aluminum window frames. Glazing removed.



Photo I-48 / Delaminated & crumbling resilient floor tile. Corrosion evident in mechanical diffuser.



LOUNGE

Lenox Center / Interior Building Assessment

Size 49'-0" x 23'-8"

- Floor** Very Poor / CIP concrete with Resilient Tile. Significant deterioration & moisture damage.
- Base** Very Poor / Rubber base - delaminating.
- Walls** Fair to Poor / Concrete Masonry Unit with painted finish. Aluminum window frames with no glazing.
- Doors** Poor / Exterior aluminum doors. Damage evident where sheathing has been fastened through frame.
- Frame** Poor / Aluminum frame with anodized finish. Sheathing has been fastened through frame.
- Ceiling** Very Poor / Acoustic ceiling tile & grid corroded & damaged. Tile has been removed.
- Light Fixtures** Very Poor / Recessed 2'x4' fluorescent fixtures.



Photo I-49 / Aluminum window frames have been compromised by fastening of plywood sheathing. Glazing has been vandalized in several locations. Electric base board radiators have been damaged and are heavily corroded.



Photo I-50 / Covers removed and heavy corrosion in electric base board radiators. Ceiling tiles removed. Glazing damaged or missing in some frames.

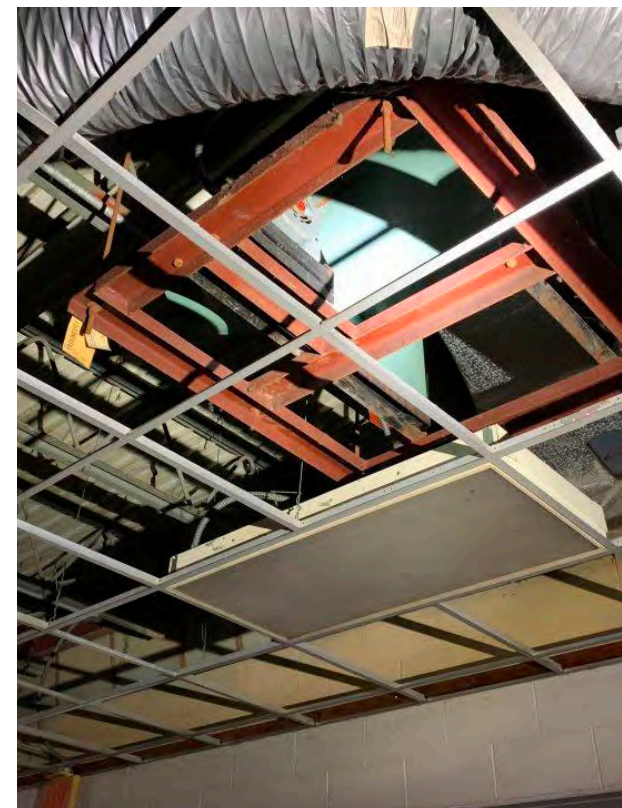


Photo I-51 / Support framing for attic exhaust fan at high-bay roof.



Photo I-52 / View towards Office (105). Delaminated & crumbling resilient floor tile. Ceiling Tile removed.

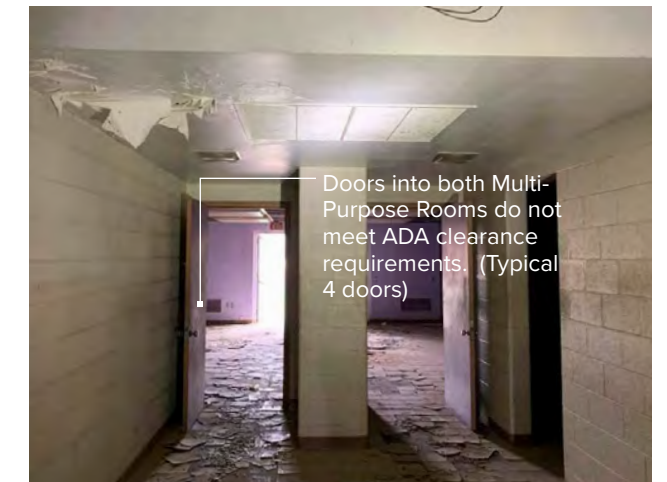


Photo I-53 / View east towards Multi-Purpose Room (111). Moisture damage and delamination of plaster.

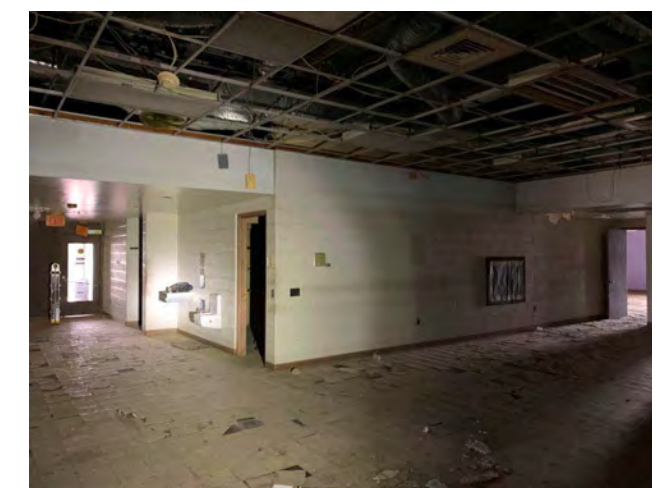


Photo I-54 / Delaminated & crumbling resilient floor tile. Ceiling Tile removed - grid in poor condition.

STORAGE / JANITOR'S CLOSET

Lenox Center / Interior Building Assessment

Size 10'-8" x 13'-4" (Storage) / 6'-6" x 4'-4" (JC)

Floor	Fair / CIP concrete - no finish. Minor evidence of deterioration
Base	Very Poor / Rubber base (JC only).
Walls	Fair / Concrete Masonry Unit with painted finish.
Doors	Poor / Exterior HM doors with painted finish. Hardware removed, disrepair with corrosion evident.
Frame	Fair to Poor / Aluminum frame with anodized finish - areas of pitting and sealant failure.
Ceiling	Fair to Very Poor / Exposed to structure (Storage) / Plaster ceiling with mold & moisture damage (JC).
Light Fixtures	Very Poor / Incandescent Reflective Luminaire Manufacturer (RLM) fixture. (Storage).

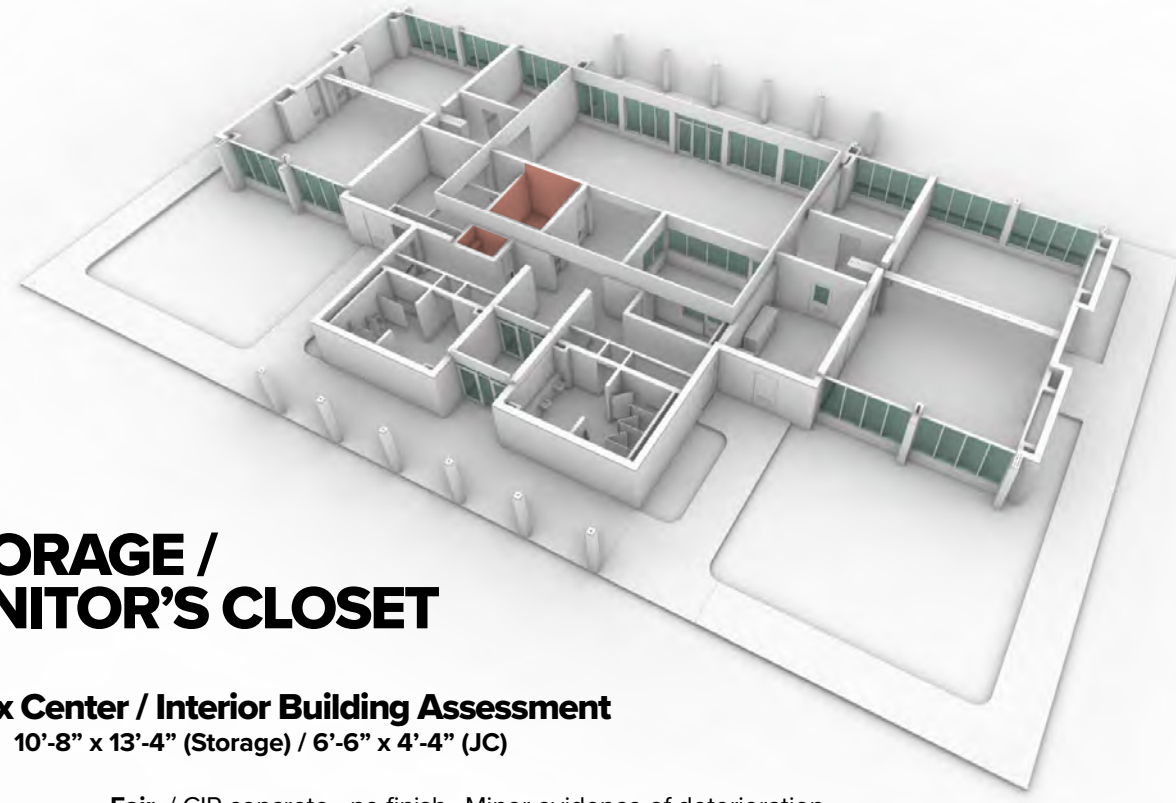


Photo I-57 / Wall mounted Security Panel - ADT Focus 75 in Storage (113).



Photo I-59 / Storage (113) - View of Heating & Ventilating Unit (HV-1)



Photo I-55 / View of Storage (113) interior - Exhaust Fan controls and Security Panel on south wall.-



Photo I-56 / Storage (113) - View of Heating & Ventilating Unit (HV-1) on structural support above.

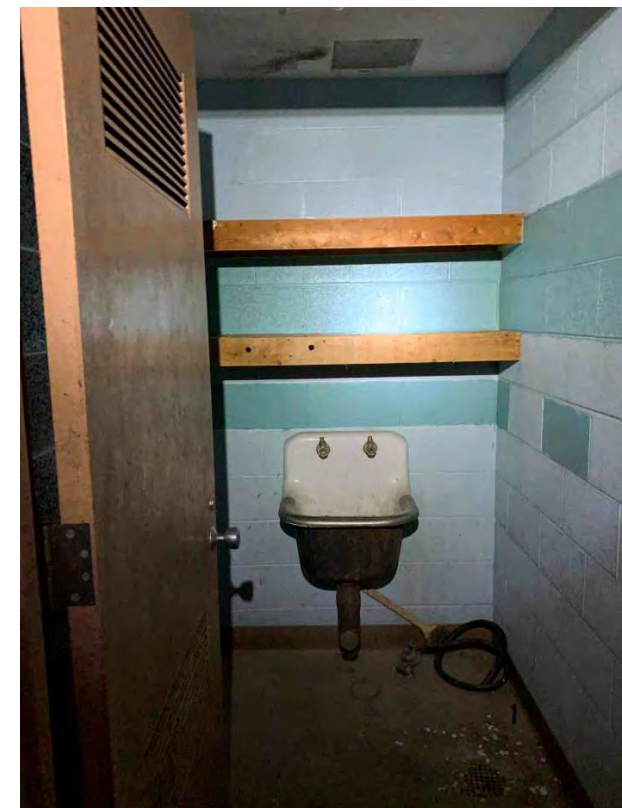


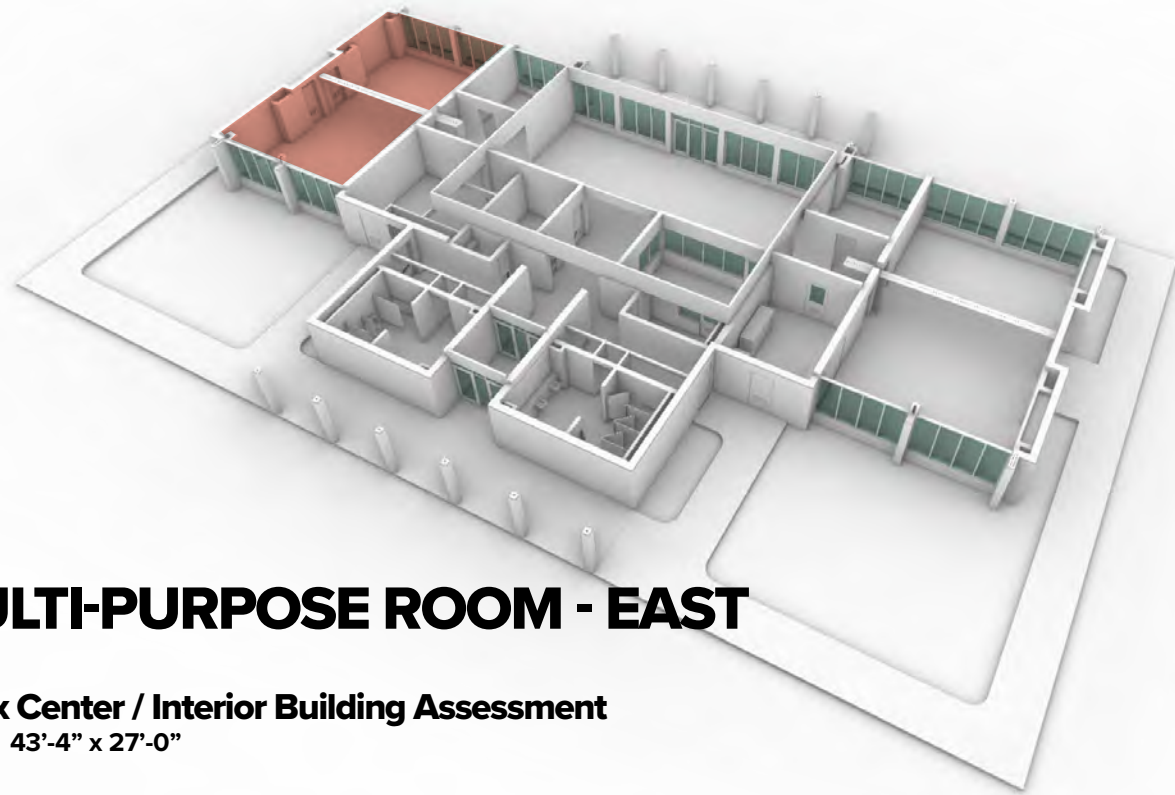
Photo I-58 / View of Janitor's Closet (114) interior - 3" floor drain with wall mounted sink.



Photo I-60 / View of Heating & Ventilating Unit (HV-1) and incandescent light fixture.



Photo I-61 / Delaminated & crumbling plaster ceiling with evidence of mold. Corrosion fixture housing.



MULTI-PURPOSE ROOM - EAST

Lenox Center / Interior Building Assessment

Size 43'-4" x 27'-0"

Floor	Very Poor / CIP concrete with Resilient Tile. Significant deterioration & moisture damage.
Base	Very Poor / Rubber base - delaminating.
Walls	Fair to Poor / Concrete Masonry Unit with painted finish. Aluminum window frames with no glazing.
Doors	Poor / Exterior HM doors with painted finish. Hardware removed, disrepair with corrosion evident.
Frame	Fair to Poor / Aluminum frame with anodized finish - areas of pitting and sealant failure.
Ceiling	Very Poor / Acoustic ceiling tile & grid. Tile has been removed.
Light Fixtures	Very Poor / Recessed 4'x4' fluorescent fixture with extruded opal lens.



Photo I-62 / Overall view of Multi-Purpose (111) interior.



Photo I-63 / Covers removed and heavy corrosion in electric base board radiators. Ceiling tiles removed.



Photo I-65 / View of folding room partition and recessed pocket. Resilient tile floor delaminating.



Photo I-66 / View through ceiling grid of joist framing, metal roof deck & wood nailer at perimeter.



Photo I-64 / Failing roof sump. Water has infiltrated the interior of Multi-Purpose Room.

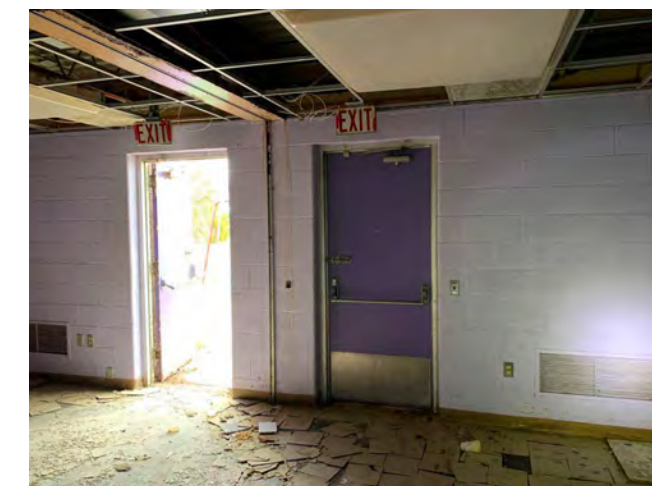
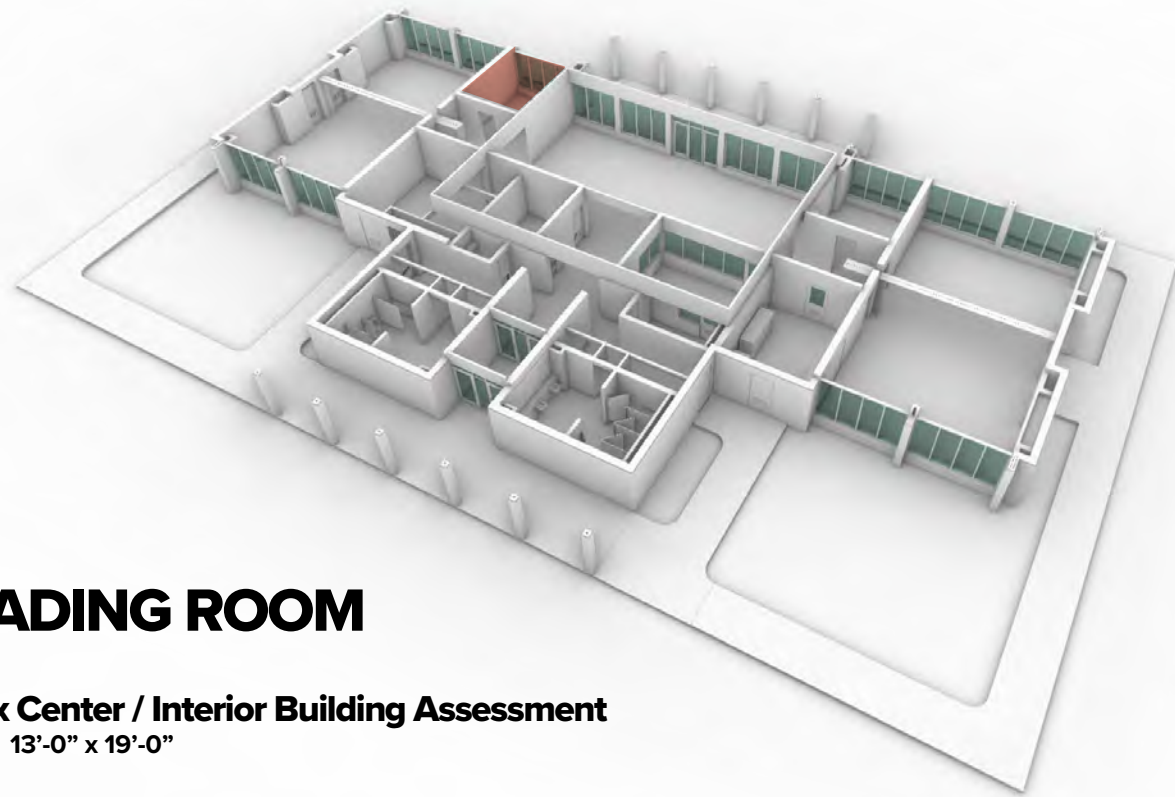


Photo I-67 / Delaminated & crumbling resilient floor tile. Corrosion evident in exterior doors.



READING ROOM

Lenox Center / Interior Building Assessment

Size 13'-0" x 19'-0"

Floor	Very Poor / CIP concrete with Resilient Tile. Significant deterioration & moisture damage.
Base	Very Poor / Rubber base - delaminating.
Walls	Fair to Poor / Concrete Masonry Unit with painted finish. Aluminum window frames with no glazing.
Doors	Poor / N/A
Frame	Fair to Poor / Aluminum frame with anodized finish - areas of pitting and sealant failure.
Ceiling	Very Poor / Acoustic ceiling tile & grid. Tile has been removed.
Light Fixtures	Very Poor / Recessed 2'x4' fluorescent fixture.



Photo I-68 / Overall view of Reading Room (110). Aluminum window frames have been compromised by fastening of plywood sheathing. Glazing has been removed. Electric base board radiators have been damaged and are corroding.

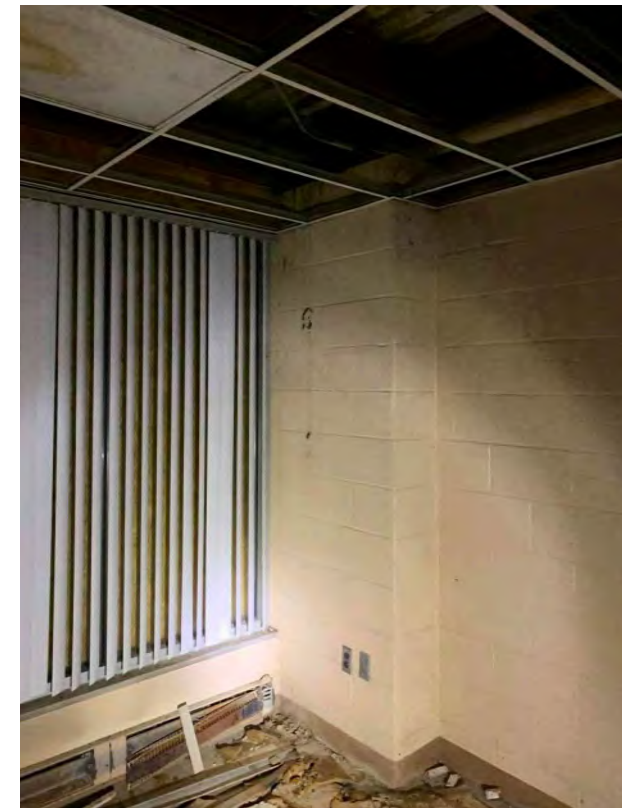


Photo I-69 / Electric base board radiators have been damaged and are corroding.



Photo I-70 / Delaminated & crumbling resilient floor tile.



Photo I-71 / View through ceiling grid of steel beam framing, metal roof deck & plywood cove at perimeter.



Photo I-72 / View through ceiling grid of insulated duct work and metal roof deck.

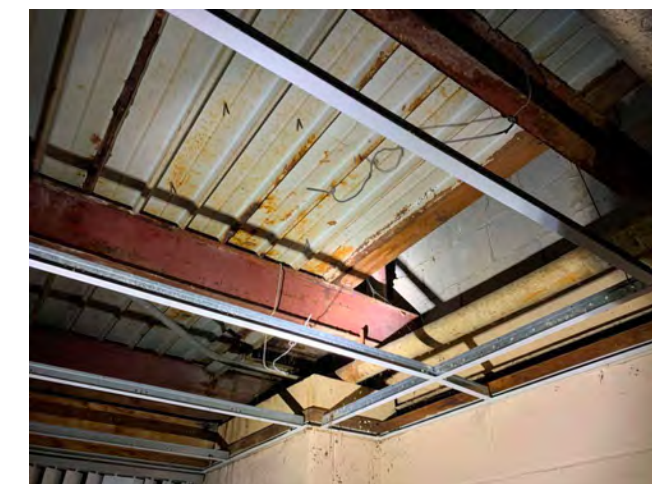
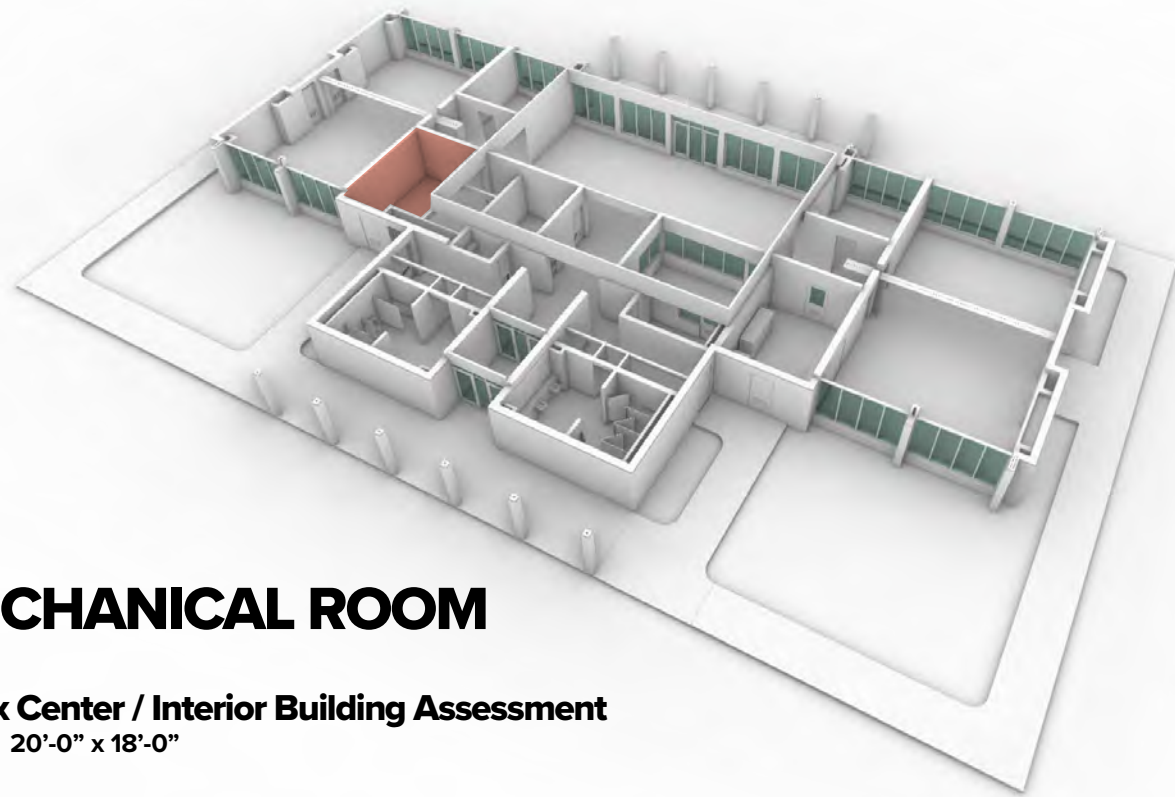


Photo I-73 / View through ceiling grid of steel beams and corroded and metal roof deck.



MECHANICAL ROOM

Lenox Center / Interior Building Assessment

Size 20'-0" x 18'-0"

- Floor** Fair / CIP concrete with no finish. Evidence of deterioration & moisture damage. Sand throughout.
- Base** N/A
- Walls** Fair / Concrete Masonry Unit with no finish. Evidence of efflorescence and moisture damage in masonry.
- Doors** Very Poor / Exterior hollow metal door w/ louver heavily deteriorated and corroded.
- Frame** Poor / Aluminum frame - pitted and damaged in areas.
- Ceiling** Very Poor / Plaster on furring.
- Light** Very Poor / Incandescent Reflective Luminaire Manufacturer (RLM) fixture.



Photo M-01 / Overall view of Mechanical Room (112).



Photo M-02 / View existing boiler, expansion tank, three-way valves, pump, and associated heating hot water piping.



Photo M-03 / View of newer water heater and recirculation pump.



Photo M-04 / View of existing 3" water meter with unknown water service pipe size.



Photo M-05 / View of where existing gas meters were located. Meters have been removed.



Photo M-06 / View of vents from boiler and incinerator routed through roof.



Photo E-01/ Partial view of South Elevation / East Wing

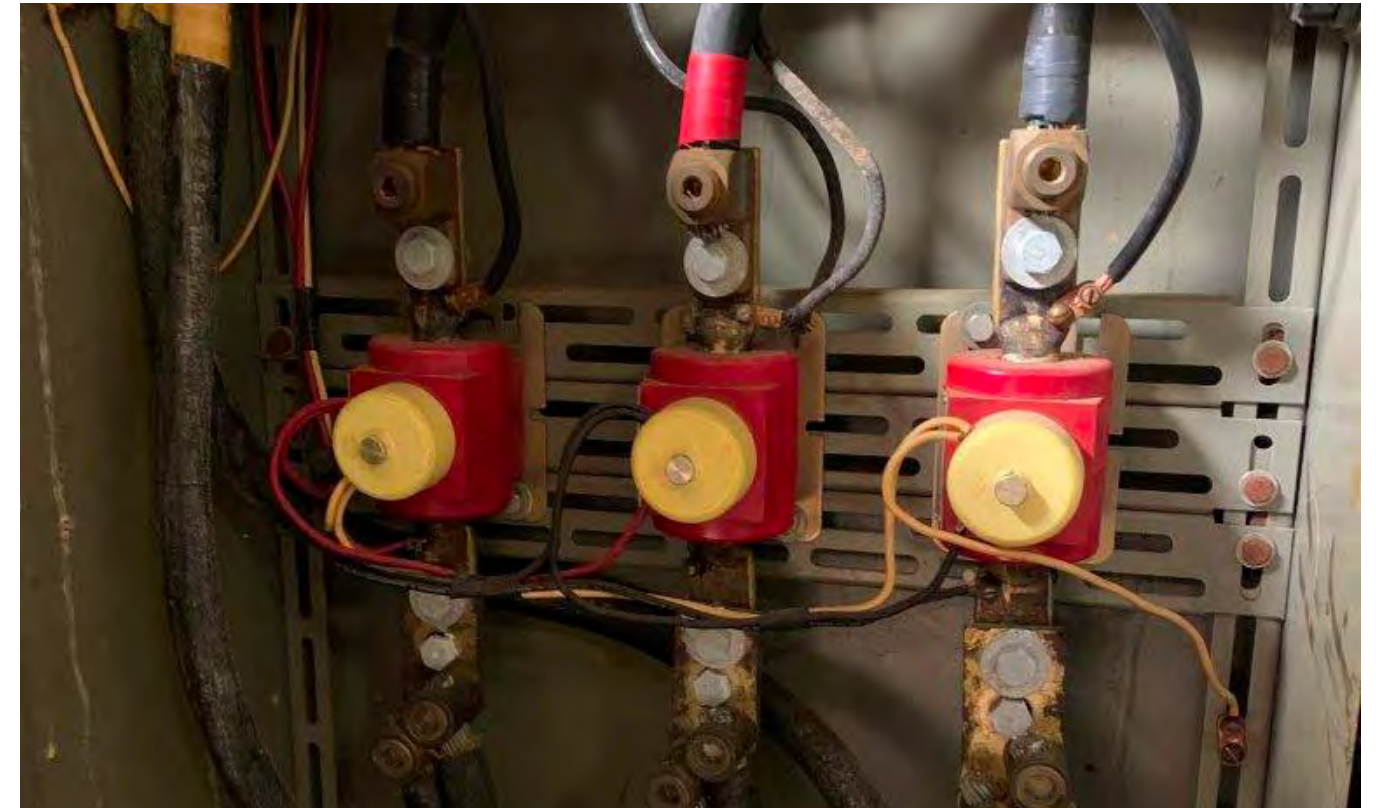


Photo E-03 / Only one set of 500 KCMIL cables is pulled from the CT cabinet to the main distribution panel.



Photo E-02 / View of wall mounted meter in Mechanical Room (112).



Photo E-04 / View of existing Square D Panel.

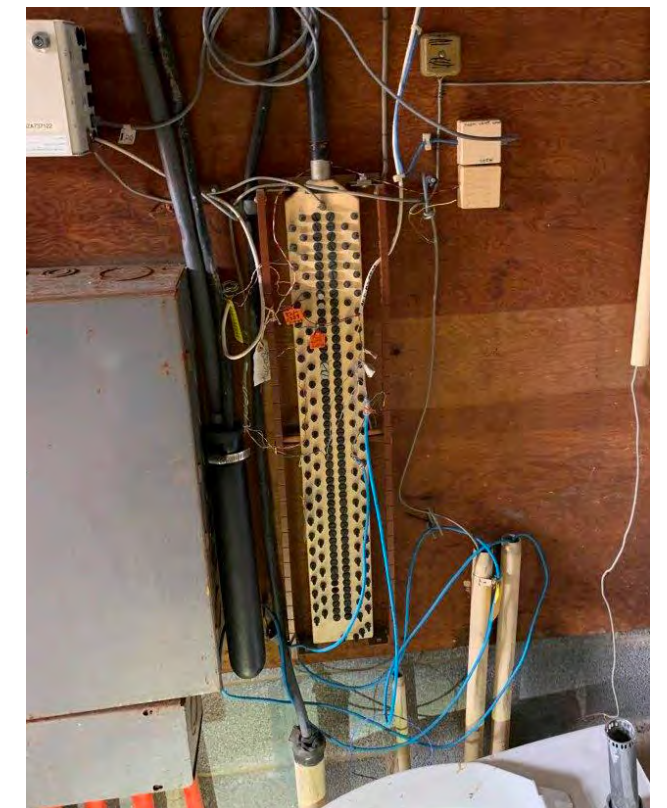


Photo E-05 / View of existing Telephone Service.

VII ASSESSMENT WORKSHEET & COST SUMMARY



Site Name:	Alfred Brush Ford Park		
Site Address:	100 Lenox Street		
State:	Detroit, MI 48215	Area (SF): Gross/ Rentable:	6,740
Reviewed By:	INFORM STUDIO	Date of Review:	4/17/2020
		Net/ Useable:	

GENERAL INFORMATION

Landlord:	City of Detroit	Landlord Phone No.:	
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EXISTING BUILDING/ CONSTRUCTION DOCUMENTS AVAILABLE:

A. Site/ Civil Engineering drawings:	No	No drawings available at time of visit
B. Topographic Survey:	No	No drawings available at time of visit
C. Architectural drawings:	Yes	original 1967 drawings
D. Structural Drawings:	Yes	original 1967 drawings
E. Plumbing Engineering Drawings:	Yes	original 1967 drawings
F. Mechanical Engineering Drawings:	Yes	original 1967 drawings
G. Electrical Engineering Drawings:	Yes	original 1967 drawings
H. Drawings to be field measured & developed by Architect:	No	

1.0 - BUILDING CODES & DESIGN

A. Jurisdiction Name:	City of Detroit	Telephone No:	(313) 224-2733
B. Bldg Dept. Contact:	Buildings, Safety, Engineering, & Environmental	Permit Review Time:	
C. Current Codes & Editions:	2015 Michigan Building Code		
D. Building Use Classification:	A-3: Assembly	No. of Stories:	1
		Floor Level:	1st/ Ground
E. Construction Classification:	IIB	Building Occupancy:	Vacant - Formerly A-3
F. Space Currently Occupied:	No	Previous/ Current Use:	Community Center
G. Adjacent Tenant Use:			
Left of Space:	N.A.	Standalone	Hazardous: N.A.
Right of space:	N.A.	Standalone	Hazardous: N.A.
H. Sprinklered:	No	Year Constructed:	
I. Minimum of 2 means of egress provided from tenant space?	Yes		
J. Is project near public Transportation route?	T.B.D.		
Plan Review Fees:	Excluded. Final scope unkown.		Fees:
Building Permit Fees	Excluded. Final scope unkown.		Fees:

2.0 - PLANNING/ ZONING

A. Jurisdiction Name:	City of Detroit	Telephone No:	(313) 224-1339
B. Department Contact Name:	Planning and Development Department		
C. Current Zoning designation of property per Jurisdiction's Classification:	Yes	PR	
D. Proposed project is an allowed use in the current Building/ Site Zoning Classification without change in zoning or conditional/ special use approvals:	Yes		
E. Confirmed by Municipality in writing:	No	By Architect:	Yes
		Name:	Kenneth R. Van Tine
F. Is the current Flood Zone in a Special Flood Hazard Area (SFHA):	Yes	partially/undetermined	
Impact Fees:	Excluded. Final scope unkown.		Fees: \$ -
			Fees: \$ -

3.0 - COMMON AREAS

A. Common Lobbies are used to access Tenant space?		
1) Floor is level without ramps or change in elevation.	N.A.	No shared common area
2) Doors meet ADA width & clearance requirements	N.A.	No shared common area

3) Door Hardware meets ADA requirements:	N.A.	No shared common area
4) If required, doors have proper fire rating label?	N.A.	No shared common area

Required Improvements:

None	Costs: \$	-
	Costs: \$	-

B. Common Hallways/ Corridors are shared with other tenants?

1) Corridor width is ADA compliant:	N.A.	No shared common area
2) Floor is level without ramps or change in elevation.	N.A.	No shared common area
3) If required, corridor walls are fire rated?	N.A.	No shared common area
4) If required, doors have proper fire rating label?	N.A.	No shared common area

Required Improvements:

None	Costs: \$	-
	Costs: \$	-

C. Stairways used as 2nd means of egress or emergency egress?

1) Treads & Risers meet current code requirements	N.A.	Single story building - no stairway; no steps at approach
Riser Hgt: _____ Tread Depth: _____ Nose Depth: _____		
2) Handrails/ Guards meet current code requirements?	N.A.	None required
Handrail Hgt: _____ Rail Dia. _____ Guard Hgt: _____		
3) Guard does not allow 4" sphere to pass?	N.A.	Type: _____
4) Area of Refuge required &/or provided?	N.A.	None required
5) Stair width: _____		
6) Doors have proper fire rating label & positive latching?	N.A.	
7) Exit & emergency lighting provided.	N.A.	

Required Improvements:

None	Costs: \$	-
	Costs: \$	-

D. Shared LL Janitor Closet or Utility Rooms

1) Floor Drain provided:	Yes	condition T.B.D.
2) Floor Sink/ Utility sink provided:	Yes	Sink Type: Wall tub needs replacement
3) Adequate lighting & exhaust fan provided:	Yes	needs replacement

Required Improvements:

Excluded. Final scope unkown. Likely to be demolished.	Costs: \$	-
	Costs: \$	-
	Costs: \$	-

E. Roof Access

1) Roof hatch access to roof provided:	No	Type: Portable Ladder
2) Fixed ladder is provided to access roof if parapet is 16' or higher above grade.	No	None required, parapet is less than 11'-0" a.f.f.
3) Roof hatch 10' min. from roof edge or parapet or guard rail provided.	N.A.	

Required Improvements:

None. Less than 16' above floor/grade.	Costs: \$	-
	Costs: \$	-
	Costs: \$	-

F. Elevators

1) Elevator appropriately sized to meet ADA reqm'ts:	N.A.	Single story building - no elevator
Cab Width: _____ Cab Depth: _____	N.A.	N.A.
2) Tactile signage & call buttons meet ADA reqm'ts:	N.A.	

3) Fire Department communication provided:	N.A.	
4) Elevator components meet ADA requirements:	N.A.	
a. Call controls (size, location & projection)	N.A.	
b. Clear floor space (30" x 48")	N.A.	
c. Call buttons have visual signals	N.A.	
d. Hall signals meet visual & audible reqm'ts	N.A.	
e. Hoistway jamb signs have tactile characters	N.A.	

Required Improvements:

None	Costs: \$	-
	Costs: \$	-
	Costs: \$	-

BUILDING EXTERIOR/ SHELL

4.0 - FOUNDATION AND FLOOR SLAB

A. Foundations:

Appear to meet code & Soil Condition reqm'ts?	Yes	No evidence of unusual settlement
Appear to be free of cracks or settlement?	Yes	

Required Improvements:

No evidence of repairs required	Costs: \$	-
	Costs: \$	-

B. Floor Slabs:

1) Floor slab is level, smooth & broom clean?	Existing VCT cracked and delaminating, Ceramic tile in restroom		
Evidence of: Cracks: Yes Settlement:	No	Consistent elevation?	No, at entry
2) Glues/ adhesives removed, ready for new finishes?	No	Existing VCT is cracked and delaminating. Vestibule and	
3) Where there is no floor slab, soil is prepped for under slab plumbing (as approved by Tenant) to be installed prior to pouring the concrete slab.	N.A.		
4) Visible signs of moisture issues or concerns?	Yes	Sand inside of mechanical room, indication of water entry	

Required Improvements:

Investigate cause of slab heaving and cracking, suspect plumbing line or freeze-thaw problem	Costs: \$	2,000.00
Replace slab in Vestibule (Approx 170 SF) and reinforced frost slab at entrance area (Approx 40 SF)	Costs: \$	2,100.00
Add curb at mechanical room entry door to prevent additional water/sand infiltration	Costs: \$	500.00
Remove existing VCT and Ceramic tile - see Secton 10.0 Demolition for removal of finishes	Costs: \$	-

5.0 - STRUCTURAL

1) Large column free area available:	Yes	
2) Clear height to underside of : Deck: H.P. 14'-0"	L.P. 14'-0"	
Joist Beam: H.P.	L.P.	
3) Roof/ Floor system: Type: Steel Joist w/ metal deck	Condition: Fair	
4) Evidence of Structural defects (Patent & Latent)	No	
5) Masonry: Exterior Bearing walls	Yes	Interior Bearing or Shear walls:
6) Lintels in wall are free of rust :	No	Lintels above door and louver openings must be replaced

Required Improvements:

replacement)	Costs: \$	2,700.00
Replace steel tubes, baseplates, and bolts at freestanding columns. Excludes shoring. (12 columns)	Costs: \$	9,100.00
Roof steel repair - clean steel and repaint (400 SF allowance)	Costs: \$	2,000.00
Patch roof deck penetrations and replace areas of rusted roof deck (850 SF allowance, excludes disposal)	Costs: \$	3,900.00

Future mechanical support framing (Assumes 3-4 units at 170 lbs of steel each)	Costs: \$	2,900.00
Tuck point minor cracks in CMU bearing walls, engineer to evaluate conditions for further repair - see 6.0	Costs: \$	-

6.0 - EXISTING EXTERIOR WALLS, SOFFITS AND CANOPIES

A. Exterior Wall System(s):

1) Finish Material/ Systems:	Brick over CMU	
2) Wall Systems free of cracks or deterioration?	No	Condition: Repair Req'd
3) Expansion/ Controls joints installed & sealed?	No	
4) Flashings & weeps provided at: base of wall?	No	above openings: No
5) Visible signs of moisture penetrating walls?	Partially	

Required Improvements:

Replace brick at broken, cracked, or spawling areas (~400 SF allowance, excludes doors and columns)	Costs: \$	12,000.00
Remove/replace cracked brick from freestanding exterior columns (~480 SF allowance)	Costs: \$	14,600.00
Clean entire façade to remove heavy soils, biologicals, stains, paint, etc (~2700 SF water, add for acid)	Costs: \$	8,700.00
Repair and seal cracks in precast concrete parapet fascias and caps (~500 LF allowance)	Costs: \$	1,850.00
	Costs: \$	750.00

B. Exterior Walls Thermal Insulation:

Thermal wall insulation is installed in all exterior, demising & plumbing walls (per energy code requirements)	No	Type 1: Unknown	Type 2:	
ASHRAE 90.1 Req'd Values	Mass Walls:	Metal Bldg:	Steel Framed:	Wood Framed:
Zone: 5 & 4 Marine	R-11.4 c.i.	R-13.0	R-13.0 + R7.5 c.i.	R-13.0 + R3.8 c.i.
Installed R-value:	0	N.A.	N.A.	N.A.
Insulation has protective gyp. layer or flame spread 25 and smoke develop of 450 or less	N.A.			
Insulation installed as a continuous system:	No			

Required Improvements:

Adhere 2" continuous XPS insulation sealed and taped + 2 1/2" steel stud furring + 5/8" gyp board at interior face of masonry (~2700 SF)	Costs: \$	20,800.00
	Costs: \$	-

C. Exterior Soffits, Canopy/ Covered Walkways:

1) Entrance canopy or covered walkway provided?	Yes	Type: Covered Walkway
Condition: Fair		
Roof Type: Built-up Asphalt	Condition: Replace	
Soffit Type: Cement Plaster	Condition: Fair	
2) Sealants are in good condition?	Fair	

Required Improvements:

Patch and repair damaged cement plaster soffits (~250 SF Allowance)	Costs: \$	750.00
Prep, Prime, and Paint soffits (~1250 SF)	Costs: \$	1,900.00

7.0 - ROOF COVERING

A. Roofing Systems:

1) Type: Built-up Asphalt	Condition: Replace	Puddled water
2) Roof penetrations are properly flashed and sealed:	Partially	Visual signs of roof leaks: Yes
3) Parapet: Yes Height above roof:	11'-0"	Flashing condition: Good
4) Drainage:		
a. Roof has a minimum slope of 1/4" per foot:	No	Drainage Type: Roof Sumps/Int. Drains

b. Provisions for Overflow:	No	Overflow Type:	None
5) Confirm Landlord is responsible for any defects:	N.A.		

Required Improvements:

Remove existing built-up roof and replace with energy compliance tapered membrane system, including associated flashing and copings (~8520 SF)	Costs:	\$	85,200.00
Remove and replace standing seam roof at high bay area (~750 SF)	Costs:	\$	24,000.00
Replace 4 and add 2 cast iron roof sumps including associated piping and overflow drains	Costs:	\$	20,600.00
Recommend assessment and report by roofing manufacturers representative	Costs:	\$	-

B. Roof/ Attic Thermal Insulation:

1) Roof Structure Type:	Steel Joist w/ metal deck	Insulation Type:	Unknown
2) Insulation Thickness:	2"	R-Value:	
3) ASHRAE 90.1 Req'd Values:	Zone: 5 & 4 Marine	Location:	Top of deck
Above Deck:	Z5: R-30	Metal Bldg:	Z5: R-19.0
		Attic:	Z5: R-38.0

Required Improvements:

See roofing systems. Replace with energy compliance roof assembly.	Costs:	\$	-
	Costs:	\$	-

8.0 - EXTERIOR WINDOW SYSTEMS

1) Frame Type:	Clear Anodized Alum.	Thermally Broken:	No
2) Frame Condition:	Replace	Sealant Condition:	Replace
3) Sill flashings installed:	T.B.D.	Signs of Water Infiltration:	No
4) Glazing Unit Type:		Tempered where required:	
5) Blinds/ roller shades on all exterior windows (full hgt):	Yes	Shade Type:	Vertical blinds
6) Film Applied to Windows?	No		
7) Storefront Windows:	Sill Height:	Head Height:	
8) Punched/ Ribbon Windows:	Sill Height:	Head Height:	

Required Improvements:

Remove existing wood and storefront framing systems from openings. Install 2" x 4 1/2" thermally broken storefront system with 1" clear low-E insulated glazing. Includes sealants. (~1300 SF)	Costs:	\$	58,500.00
Remove window treatments - Refer to 10.0 for Demo Scope			

9.0 - EXTERIOR DOORS

A. Front / Entry Door(s):	Door #1	Door #2	Door #3	Door #4	
1) Door: Material:	H.M./ Glass	H.M./ Glass	H.M./ Glass	H.M./ Glass	Door 1-2 Exterior, Door 3-4 Vest
Width	(1) 40"	(1) 40"	(1) 40"	(1) 40"	
Height	84"	84"	84"	84"	
2) Condition of Door:	Replace	Replace	Replace	Replace	All doors to swing toward egress
3) Matches Storefront Finish:	Yes	Yes	N.A.	N.A.	
4) Insulated Glass	No	No	No	No	
5) Thermally Broken	No	No	No	No	
6) ADA Compliance					
a. Threshold	Yes	Yes	No	No	Type: Aluminum Threshold
b. Pull side clearance - 18" min:	Yes	Yes	Yes	Yes	
c. Push side clearance - 12" min:	Yes	Yes	Yes	Yes	
d. Grasping requirements:	Yes	Yes	Yes	Yes	Type: Push / Pull
7) Lockset Meets Egress reqm'ts:	No	No	No	No	No panic
a. Lockset Type:	Deadbolt	Deadbolt	Deadbolt	Deadbolt	Replace with panic or push/pull
8) Weather-stripping/ Sweeps:	N.A.	N.A.			Replace weather strips with door

9) Automatic door operator:	No	No			Recommended
10) Sealants in Good Condition:	No	No			Replace sealants with door

Required Improvements:

Replace (4) entry and vestibule doors with new thermally broken medium stile storefront doors with exit device, closer, threshold, and ancillary hardware (~\$3100/thermal door; ~2700 non-thermal door)	Costs:	\$	12,400.00
Replace (2) entry doors at lounge with new thermally broken medium stile storefront doors with exit device, closer, threshold, and ancillary hardware (~\$3100/thermal door; ~2700 non-thermal door)		\$	6,200.00
Replace (4) egress doors at multi-purpose rooms with new thermally broken medium stile storefront doors with exit device, closer, threshold, and ancillary hardware (~\$3100/thermal door; ~2700 non-thermal door)	Costs:	\$	12,400.00

B. Rear/ Service Door(s):	Door #1	Door #2	Door #3	Door #4	
1) Door: Location:	Mech Rm	Corr East	Corr West	Kitchen	
Material:	H. M.	H. M.	H. M.	H. M.	
Width	(1) 36"	(1) 36"	(1) 36"	(1) 36"	
Height	84"	84"	84"	84"	
2) Condition of Door:	Replace	Replace	Replace	Replace	
3) H.M. doors are insulated	No	T.B.D.	T.B.D.	T.B.D.	
4) Insulated Glass	No	No	No	No	
5) Thermally Broken	No	No	No	No	
6) ADA Compliance					
a. Threshold	Yes	Yes	Yes	Yes	Type: Aluminum Threshold
b. Pull side clearance - 18" min:	N.A.	Yes	Yes	Yes	
c. Push side clearance - 12" min:	N.A.	Yes	Yes	Yes	
d. Grasping requirements:	No	Yes	Yes	Yes	Type: Lever Handles
7) Lockset Meets Egress reqm'ts:	N.A.	Yes	Yes	Yes	
a. Lockset Type:	Deadbolt	Exit (Panic)	Exit (Panic)	Exit (Panic)	Panics are non-compliant
8) Weather-stripping/ Sweeps:	No	Yes	Yes	Yes	
10) Sealants in Good Condition:	No	No	No	T.B.D.	

Required Improvements:

Remove existing doors and frames. Replace with 16 GA welded frames and 18 GA insulated metal doors. Include cont hinge, panic device, closer, thresholds, seals, and other ancillary hardware. (~\$3500/unit)	Costs:	\$	14,000.00
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BUILDING INTERIOR

10.0 - DEMOLITION

A. Interior Demolition		Comments:
1) Space Condition:	Existing finishes remain, to be removed	
2) Landlord has demolished:		
a. All partitions, doors/frames, ceiling & flooring:	No	Partitions to remain, paint
b. All plumbing back to demising wall or below floor & lines capped.	No	
c. All mechanical ducts back to HVAC unit drops	No	
d. All electrical back to panels	No	
3) Tenant space is broom clean - ready for build-out	No	Finishes to be stripped and removed

Required Improvements:

Interior to be completely demolished. Remove all interior wall, floor, and ceiling finishes. Remove all interior millwork, fixtures, and equipment. Remove existing non-load bearing interior partitions. Remove all existing PME fixtures and cut/cap utilities back to source. (~6740 SF)	Costs:	\$	53,920.00
	Costs:	\$	-

B. Environmental Hazards

1) ASBESTOS: Any known materials in the building?					
Floor tile/ adhesive	T.B.D.	Ceiling tile:	No	Plaster:	No
Roofing:	No	Pipe Insul:	Yes	Other:	Testing required for VCT floor tile
2) MOLD: Visible signs/ known Mold within the bldg?	Yes	Isolated areas of mold observed, in JC and at roof leakage			
3) PCB: Known/ visible PCB material within the Bldg?	T.B.D.				
4) LEAD Paint:	T.B.D.	Testing required			
5) Other Known Hazards disclosed by Landlord:					

Required Remediation:

may contain asbestos. Full scope indeterminate upon visual inspection. Additional testing by consultant specializing in testing and removal of hazardous materials is required. (~\$15/SF allowance provided)	Costs: \$	101,000.00
Test for other hazards.	Costs: \$	-

11.0 - INTERIOR DEMISING WALLS

1) Existing Demising wall construction assembly:			
Fire rating of wall assembly:		Wall extends floor to deck above?	
Top of wall is firestopped?		Duct penetrations have fire dampers	
2) Demising walls have acoustic insul. (STC 45 min.)			
3) Demising walls are unpainted, spackled & sanded?			

Required Improvements:

Not Applicable	Costs: \$	-
	Costs: \$	-

12.0 - UTILITIES PROVIDERS

1) Water	Detroit Water and Sewerage	Telephone No.	(313) 267-8000
2) Sanitary:	Detroit Water and Sewerage	Telephone No.	(313) 267-8000
3) Natural Gas:	DTE Energy	Telephone No.	(800) 477-4747
4) Electric:	DTE Energy	Telephone No.	(800) 477-4747

Required Connection/ Impact Fees:

Water meter/connection/ Impact Fees:	Excluded. Final scope unknown.	Fees: \$	-
Sanitary connection/ Impact Fees:	Excluded. Final scope unknown.	Fees: \$	-
Gas Co. Meter/ connection Fee:	Excluded. Final scope unknown.	Fees: \$	-
Electric Co. Meter/ connection Fee:	Excluded. Final scope unknown.	Fees: \$	-

13.0 - PLUMBING

A. Domestic Water Service

1) Appears to conform to current plumbing codes?	Yes	Service dedicated to tenant area:	Yes
2) 1" min. meter & line stubbed to space with valve.	Yes	Service size to tenant space:	3"
3) Water flow test available from LL within last year?	No	Tenant space separately metered:	N.A.
4) Water lines properly insulated?	Yes		

Required Improvements:

None	Costs: \$	-
	Costs: \$	-

B Sanitary Sewer

1) 4" min. sanitary line is provided to Tenant space.	Yes	5"
2) 4" Roof vent(s) provide for tenant use:	Yes	

Required Improvements:

No overflow for storm - refer to 7.0 Roofing	Costs: \$	-
	Costs: \$	-

14.0 - FIRE SUPPRESSION AND FIRE ALARM

A. Fire Suppression System

1) Sprinkler system required by code?	TBD	
2) Complete sprinkler system provided throughout.	No	
3) Sprinkler Heads independent of domestic system	N.A.	
4) Sprinkler lines installed above 11'-0" A.F.F.	N.A.	Hgt: _____

Required Improvements:

Fire suppression requirement to be confirmed. Varies by area and occupant load. TBD.	Costs: \$	-
New fire riser assembly, and distribution piping. (~\$7/SF)	Costs: \$	47,000.00
New 6" ductile iron water line from building to main, includes excavation and backfill. (~500 LF)	Costs: \$	56,000.00

A. Fire Alarm System

1) Fire alarm system provided by Landlord		Required by Code:	Yes
2) Fire Alarm system dedicated to tenant space.		Serves:	
3) Carbon Monoxide detection provide with system?			
4) Where required by code, smoke detectors installed			
5) Duct smoke detectors provided in:			
Supply air ducts over ,2000 cfm.		Return air ducts over 5,000 cfm.	

Required Improvements:

Excluded. Existing infrastructure and final scope unknown.	Costs: \$	-
	Costs: \$	-

15.0 - GAS SERVICE

1) Tenant space is separately metered.	Yes		
2) Gas Pipe is: Properly supported off roof?	N.A.	Exterior gas pipe is painted	N.A.

Required Improvements:

Gas pipe must not come up into the building. Per IFGC, the gas pipe must enter the building above grade.	Costs: \$	-
Existing gas service pipe is 1-1/4". No cost anticipated to reconfigure incoming service (by utility)	Costs: \$	-

16.0 - MECHANICAL/ HEATING VENTILATION AIR CONDITIONING

1) Bldg. appears to conform to the current mech. Code?	No	System Type:	
2) Air intake proximity to vents/ E.F.'s > 10 feet	Yes		
3) Fresh/outside air provided to space per code reqm'ts.	T.B.D.		
4) HVAC units equipped with: Economizers:	No	Power Exhaust?	Yes
5) Supply air to space is sufficient for Medical Off. use	T.B.D.		
6) Mech. units &/or ductwork are dedicated to space	Yes		
7) Ductwork is properly insulated:	T.B.D.		

Mechanical Units & Air Handlers	Condensing/ Heat Pump	Age/ Yr.	Manufacturer
Unit #1/ Model #			
Unit #2/ Model #			
Unit #3/ Model #			
Unit #4/ Model #			
Unit #5/ Model #			
Unit #6/ Model #			

Required Improvements:

dictated by rehab and additiona scope, but currently accoutning for two 5 ton and one 7.5 ton unit. Assumed to be \$75,000-100,000, but indeterminate until final scope know. Allowance included for new RTUs only.	Costs: \$	100,000.00
	Costs: \$	-
	Costs: \$	-

17.0 - ELECTRICAL SERVICE

1) Requested service size per space square footage:		Requested Amps	#REF!
2) Existing Service: Size: 800A Voltage: 120/208, 3P		Service provided through: CT Cabinet	
3) Tenant space is separately metered:	Yes		
4) HVAC Equipment is powered by LL separately from Tenant Service/ Panels	Yes		
5) Dedicated Panel boards available in tenant space	Yes		
Panel Boards Designation	Voltage	Amps	# of Circuits
Panel: LP-A	120/208, 3P	150A	42 Circ.
Panel: PNL-B	120/208, 3P	150A	42 Circ.
Panel: MAIN DIST PNL	120/208, 3P	400A	
Panel:			
Panel:			
Panel:			
7) Conduit & wire provided to power exterior signage.			
8) Exit signs & emergency lighting provided?			

Required Improvements:

No visible dates on any equipment name plates; however the equipment appears to be 50-60 years old and past its useful life. Replace incoming distribution equipment - figure 400A distribution panel, CT cabinet and meter, panelboards, 200' 500kcmil THW wire, 20 feeders, etc. Final scope may dictate adjustments.	Costs: \$	49,900.00
	Costs: \$	-

18.0 - TELEPHONE/ DATA

1) Landlord has provided cabling to tenant space for tenant's telephone termination with punch blocks		
2) D-Mark location within bldg. is easily accessible:	Yes	Distance: Adjacent to building electrical
3) Service Provider:	TBD	Telephone No.
Required Improvements:		
Scope of improvements excluded. Final telecom requirements are unknown.	Costs: \$	-
	Costs: \$	-

19.0 - CABLE OR SATELLITE TV

1) Satellite/ Cable TV service is available at building?		Type:
2) Service provided with termination & multi-switches?		Distance:
3) Service Provider:		Telephone No.
Required Improvements:		
Scope of improvements excluded. Final telecom requirements are unknown.	Costs: \$	-
	Costs: \$	-

20.0 - ACCESSIBILITY

A. Accessible Route Compliance:

1) Curb cuts/ ramps meet ADA requirements:	Yes	No curbing at dropoff
2) Tactile Warnings provided:	Yes	Type: Truncated domes

3) Sidewalks:	Condition:	Poor	Sidewalks cracked, heaving, and uneven due to freeze/thaw
	Slope of walk ≤ 5% (1:20)	T.B.D.	Slope: Appears to comply
	Cross slope is ≤ 2% (1:48)	T.B.D.	Cross Slope: Appears to comply
4) Ramps:	Condition:		
	Slope of walk > 5% (1:20)		Slope:
	Cross slope is ≤ 2% (1:48)		Cross Slope:
	Guards/ Handrails provided		
	Landings provided every 30" of rise		
5) Do traffic patterns allow for safe pedestrian travel:		Yes	
6) Accessible route from Public Transportation?		Partially	

Required Improvements:

Remove and replace concrete walks around building perimeter, minimum 6 ft out from building (~4100 SF)	Costs: \$	32,800.00
	Costs: \$	-
	Costs: \$	-
	Costs: \$	-

B. Exterior Entrance Compliance

1) Exterior Doors meet 18" pull side clearance reqm't.	Yes	
2) Landing 5' deep (2% max. slope) at entry doors?	Yes	frost slab heaving in front of doors
Required Improvements:		
Refer to section 4.0 Foundations and Slabs	Costs: \$	-
	Costs: \$	-
	Costs: \$	-

21.0 - EXISTING SITE LIGHTING

1) Parking Lot has adequate lighting per current code:		Type:
2) Parking lot lights are powered from House panel:		
Required Improvements:		
Parking lot not in scope.	Costs: \$	-
	Costs: \$	-

22.0 - EXTERIOR BUILDING LIGHTING

1) Building mtd. lights provided to illuminate walkways	Yes	Type: Building Mounted Area Light
2) Egress doors have emerg. lights w/ battery back-up	No	
3) Building Area lights are powered from House panel	Yes	
Required Improvements:		
Add emergency egress lights with battery backup at all egress doors, 8 locations	Costs: \$	8,000.00
Replace exterior canopy lights, 5 front + 4 rear = 9 locations	Costs: \$	9,000.00
Replace building area lights for general illumination around building, 6 locations	Costs: \$	6,000.00
Assumes replacing power feeds for each fixture	Costs: \$	-

23.0 - PARKING LOT

A. Parking Lot

1) Total # of spaces equals (5/1000 s.f.of NPS Space):		Total # provided:
2) Parking spaces dedicated to NPS:		# of Dedicated spaces:
3) Pavement Surface Material: Front:		Rear:
4) Pavement Condition: Front:		Rear:
5) Striping Condition: Front:		Rear:
6) Adequate area for snow removal?		

Required Improvements:

Parking lot not in scope.	Costs: \$	-
	Costs: \$	-
	Costs: \$	-

B. Parking Space Accessibility Compliance

1) Accessible spaces are located near suite entrance:					
2) Accessible Parking Spaces:	Total No.		Total # is 10% of total parking:		
3) Accessible Space	Space #1	Space #2	Space #3	Space #4	
4) Size (8' min. x 20')					
5) Abuts 5' min. loading/ aisle					
6) Abuts 8' min. loading/ aisle					
7) Slope ≤ 2% (ANSI A117.1, 502.5)					Slope:
8) Cross Slope ≤ 2% (ANSI A117.1, 502.5)					Cross:
9) Compliant Signage					

Required Improvements:

Parking lot not in scope.	Costs: \$	-
	Costs: \$	-
	Costs: \$	-

24.0 - REFUGE ENCLOSURE

1) Trash dumpster provided near suite:	No	Type:	
2) Enclosure has 6" reinforced concrete pad		Enclosure has gates:	
3) Recycling available at site:	T.B.D.		

Required Improvements:

Unknown if existing on site. Allowance included.	Costs: \$	40,000.00
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25.0 - EXTERIOR SIGNAGE

1) Existing Monument Sign provided/ allowed:	Partially	Type:	Ground Mtd. Monument
2) Existing Monument Sign: Illuminated:	No	Type:	
3) Building mounted sign provided/ allowed:	No	Building signage not existing, site signage outside of scope	

Required Improvements:

Excluded. Final scope unknown.	Costs: \$	-
	Costs: \$	-

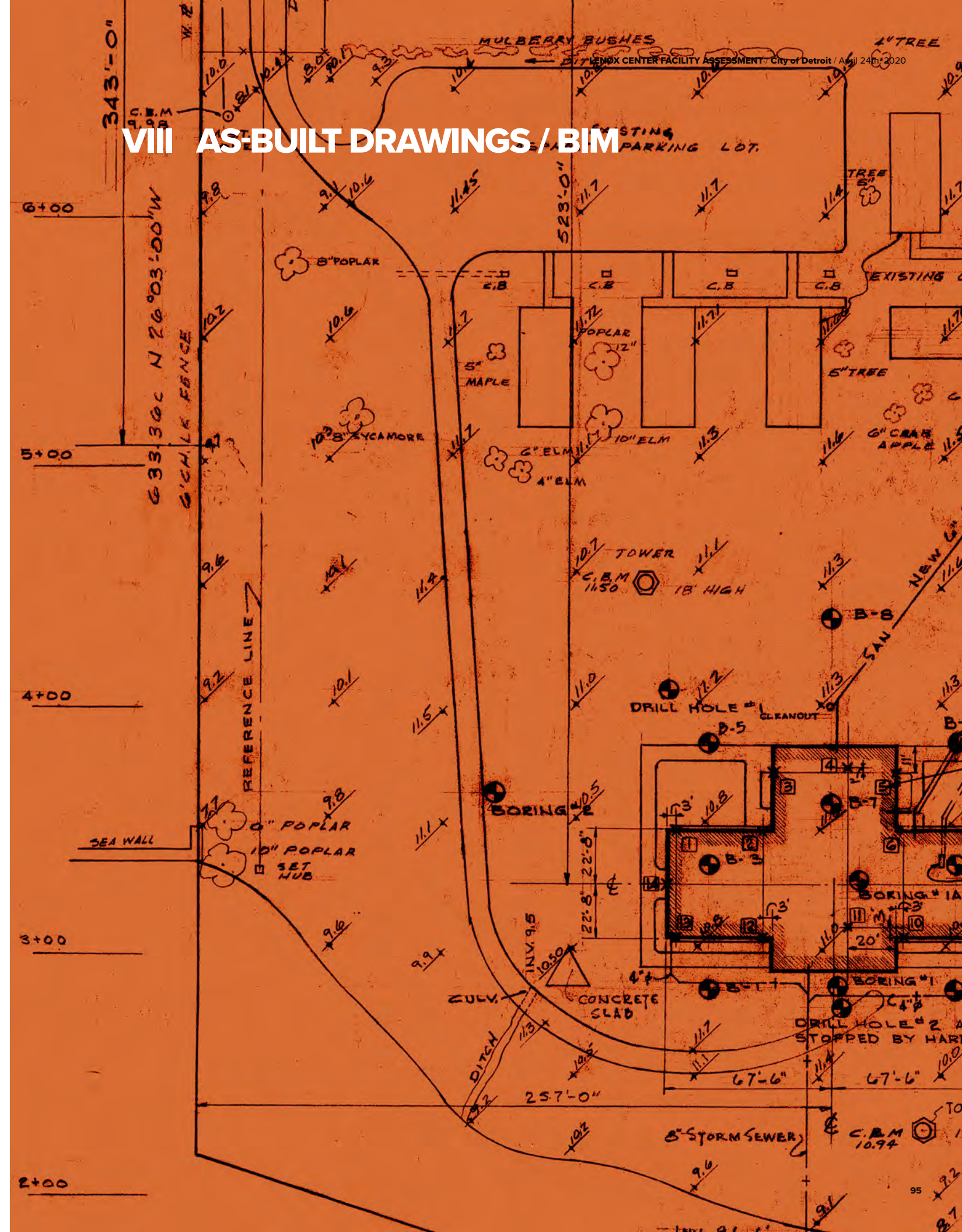
Site Name:	Alfred Brush Ford Park			
Site Address:	100 Lenox Street			
State:	Detroit, MI 48215	Market:	0	Area (SF): Gross/ Rentable:
Reviewed By:	INFORM STUDIO	Date of Review:	4/17/2020	Net/ Useable:
				6,740
				0

ESTIMATED MBI COST SUMMARY

1.0 - BUILDING CODES & DESIGN		0.00%	\$	-
Building Permit /Variance Costs/ Fees:	\$	-		
2.0 - PLANNING/ ZONING		0.00%	\$	-
Impact Fees:	\$	-		
3.0 - COMMON AREAS		0.00%	\$	-
Common Lobbies are used to access Tenant space?	\$	-		
Common Hallways/ Corridors are shared with other tenants?	\$	-		
Stairways used as 2nd means of egress or emergency egress?	\$	-		
Shared LL Janitor Closet or Utility Rooms	\$	-		
Roof Access	\$	-		
Elevators	\$	-		
4.0 - FOUNDATION AND FLOOR SLAB		0.46%	\$	4,600.00
Foundations:	\$	-		
Floor Slabs:	\$	4,600.00		
5.0 - STRUCTURAL		2.06%	\$	20,600.00
Structural Improvements	\$	20,600.00		
6.0 - EXISTING EXTERIOR WALLS, SOFFITS AND CANOPIES		6.60%	\$	66,150.00
Exterior Wall System(s):	\$	42,700.00		
Exterior Walls Thermal Insulation:	\$	20,800.00		
Exterior Soffits, Canopy/ Covered Walkways:	\$	2,650.00		
7.0 - ROOF COVERING		12.95%	\$	129,800.00
Roofing Systems:	\$	129,800.00		
Roof/ Attic Thermal Insulation:	\$	-		
8.0 - EXTERIOR WINDOW SYSTEMS		5.84%	\$	58,500.00
Exterior Windows:	\$	58,500.00		
9.0 - EXTERIOR DOORS		4.49%	\$	45,000.00
Front / Entry Door(s):	\$	31,000.00		
Rear/ Service Door(s):	\$	14,000.00		
10.0 - DEMOLITION		15.46%	\$	154,920.00
Interior Demolition	\$	53,920.00		
Environmental Hazards	\$	101,000.00		
11.0 - INTERIOR DEMISING WALLS		0.00%	\$	-
Interior Demising Walls:	\$	-		
12.0 - UTILITIES PROVIDERS		0.00%	\$	-
Required Connection/ Impact Fees:	\$	-		
13.0 - PLUMBING		0.00%	\$	-
Domestic Water Service	\$	-		
Sanitary Sewer	\$	-		
14.0 - FIRE SUPPRESSION AND FIRE ALARM		10.28%	\$	103,000.00

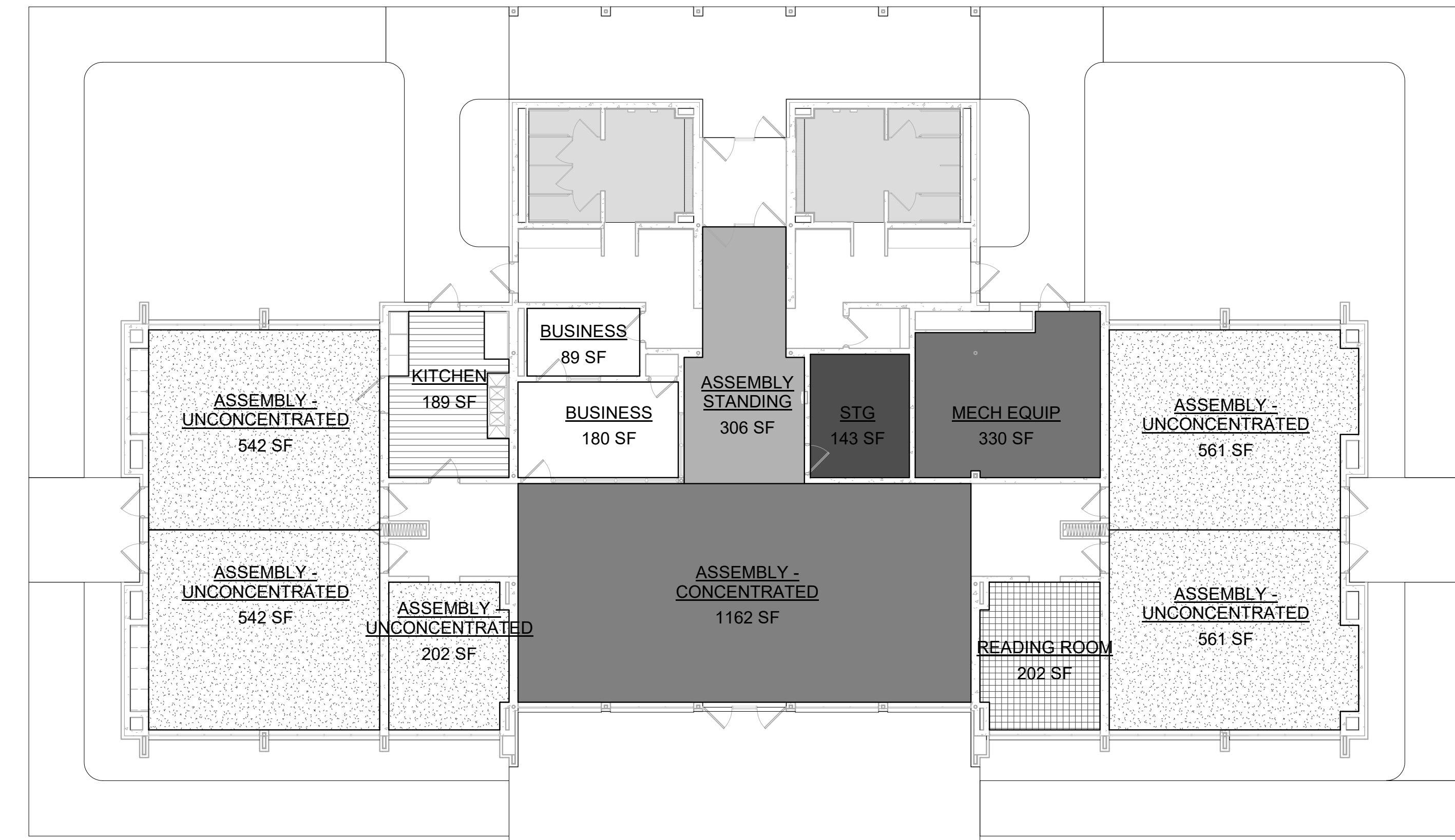
Fire Suppression System	\$	103,000.00		
Fire Alarm System	\$	-		
15.0 - GAS SERVICE			0.00%	\$ -
Gas Service	\$	-		
16.0 - MECHANICAL/ HEATING VENTILATION AIR CONDITIONING			9.98%	\$ 100,000.00
HVAC Systems:	\$	100,000.00		
17.0 - ELECTRICAL SERVICE			4.98%	\$ 49,900.00
Electrical Service	\$	49,900.00		
18.0 - TELEPHONE/ DATA			0.00%	\$ -
Telephone/ Data	\$	-		
19.0 - CABLE OR SATELLITE TV			0.00%	\$ -
Cable/ Satellite TV Services	\$	-		
20.0 - ACCESSIBILITY			3.27%	\$ 32,800.00
Accessible Route Compliance:	\$	32,800.00		
Exterior Entrance Compliance	\$	-		
21.0 - EXISTING SITE LIGHTING			0.00%	\$ -
Site Lighting	\$	-		
22.0 - EXTERIOR BUILDING LIGHTING			2.29%	\$ 23,000.00
Building Lighting	\$	23,000.00		
23.0 - PARKING LOT			0.00%	\$ -
Parking Lot	\$	-		
Parking Space Accessibility Compliance	\$	-		
24.0 - REFUGE ENCLOSURE			3.99%	\$ 40,000.00
Trash Enclosure	\$	40,000.00		
25.0 - EXTERIOR SIGNAGE			0.00%	\$ -
Signage	\$	-		
ESTIMATED COST	\$	828,270.00		
GENERAL CONDITIONS (10%)	\$	82,827.00		
Subtotals:	\$	911,097.00		
OH&P (10%)	\$	91,109.70		
TOTAL ESTIMATED COST	\$	1,002,206.70		
MBBI COST PER SQUARE FOOT	\$	148.70		
ESCALATION				
[assume annual increase of	4.6%]		Cost/ S.F.	
Cost after 1 Year:	\$	1,048,308.21	\$	155.54
Cost after 2 Years:	\$	1,096,530.39	\$	162.69
Cost after 3 Years:	\$	1,146,970.78	\$	170.17

VIII AS-BUILT DRAWINGS / BIM



FUNCTION OF SPACE LEGEND

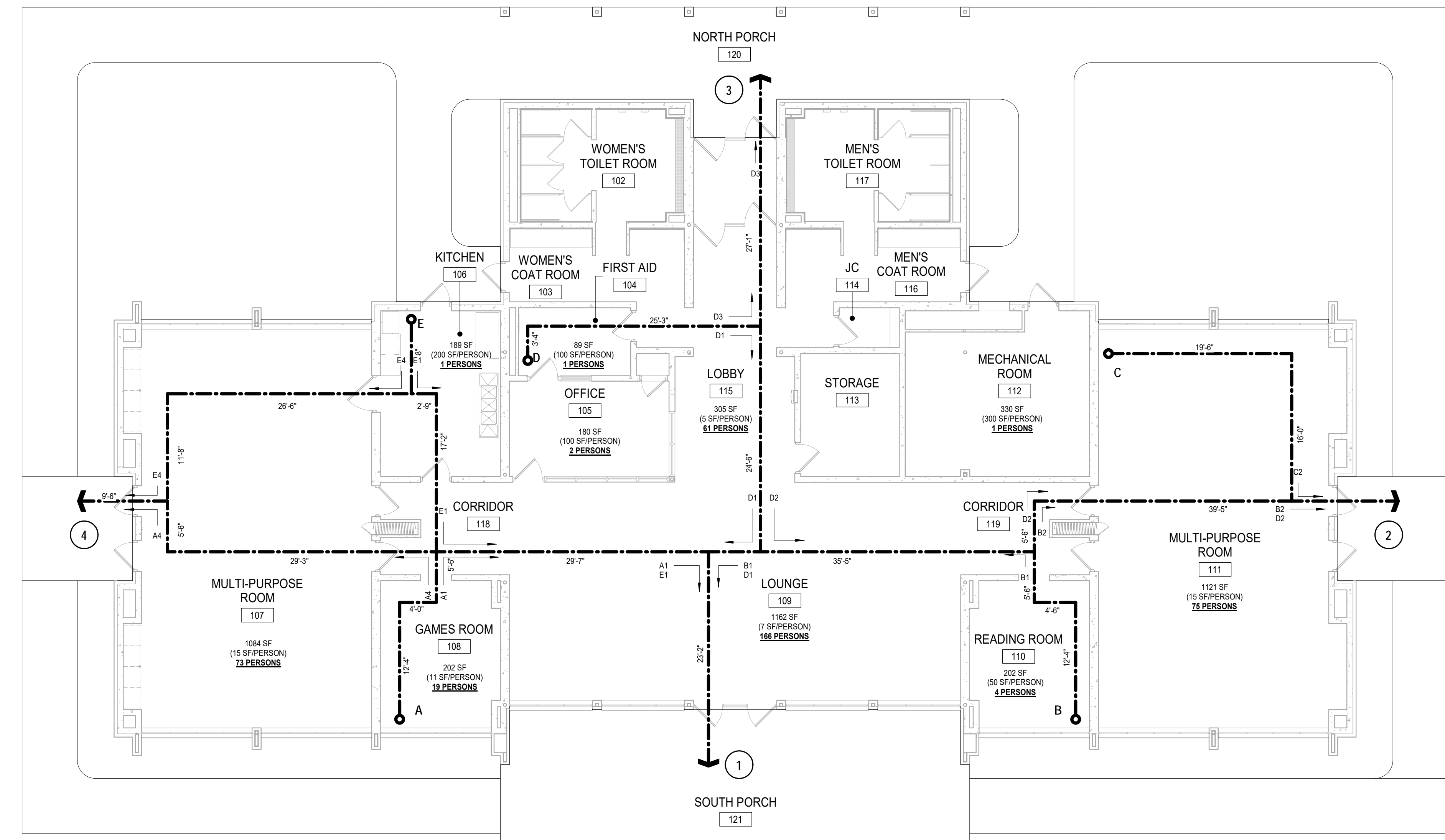
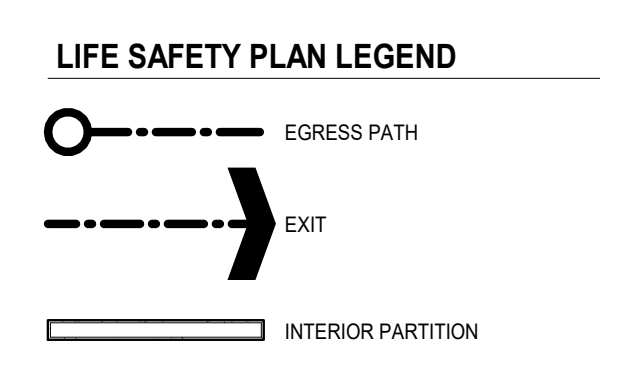
- ASSEMBLY STANDING
- ASSEMBLY - CONCENTRATED
- ASSEMBLY - UNCONCENTRATED
- BUSINESS
- KITCHEN
- MECH EQUIP
- READING ROOM
- STG



2 LIFE SAFETY PLAN - USE DIAGRAM
3/32" = 1'-0"

AREA SCHEDULE			
NAME	AREA	OCCUPANT FACTOR	OCCUPANT LOAD
ASSEMBLY STANDING	306 SF	5 SF	61
ASSEMBLY - CONCENTRATED	1162 SF	7 SF	166
ASSEMBLY - UNCONCENTRATED	2407 SF	15 SF	160
BUSINESS	269 SF	100 SF	3
KITCHEN	189 SF	200 SF	1
MECH EQUIP	330 SF	300 SF	1
READING ROOM	202 SF	50 SF	4
STG	143 SF	300 SF	0
Grand Total	5007 SF		397

- 1
DISTANCE
A= 74' - 10"
B= 81' - 2"
C= 127' - 7"
D= 81' - 11"
E= 133' - 7"
EGRESS REQ'D **xx INCHES**
PROVIDED **21.6 INCHES**
- 2
DISTANCE
A= 133' - 3"
B= 67' - 3"
C= 47' - 0"
D= 127' - 10"
E= 137' - 0"
EGRESS REQ'D **xx INCHES**
PROVIDED **21.6 INCHES**
- 3
DISTANCE
A= 108' - 8"
B= 103' - 8"
C= 150' - 5"
D= 55' - 11"
E= 114' - 7"
EGRESS REQ'D **xx INCHES**
PROVIDED **28.6 INCHES**
- 4
DISTANCE
A= 66' - 7"
B= 131' - 7"
C= 178' - 6"
D= 132' - 7"
E= 71' - 8"
EGRESS REQ'D **xx INCHES**
PROVIDED **21.6 INCHES**



1 FLOOR PLAN - LIFE SAFETY
1/8" = 1'-0"

ISSUED	DATE	BY	REVISION

OWNER: LENOX COMMUNITY CENTER
CLIENT NAME: LENOX COMMUNITY CENTER
CLIENT ADDRESS STREET NUMBER: ALRED FORD BRUSH PARK
CITY, STATE ZIP: DETROIT, MI 48215

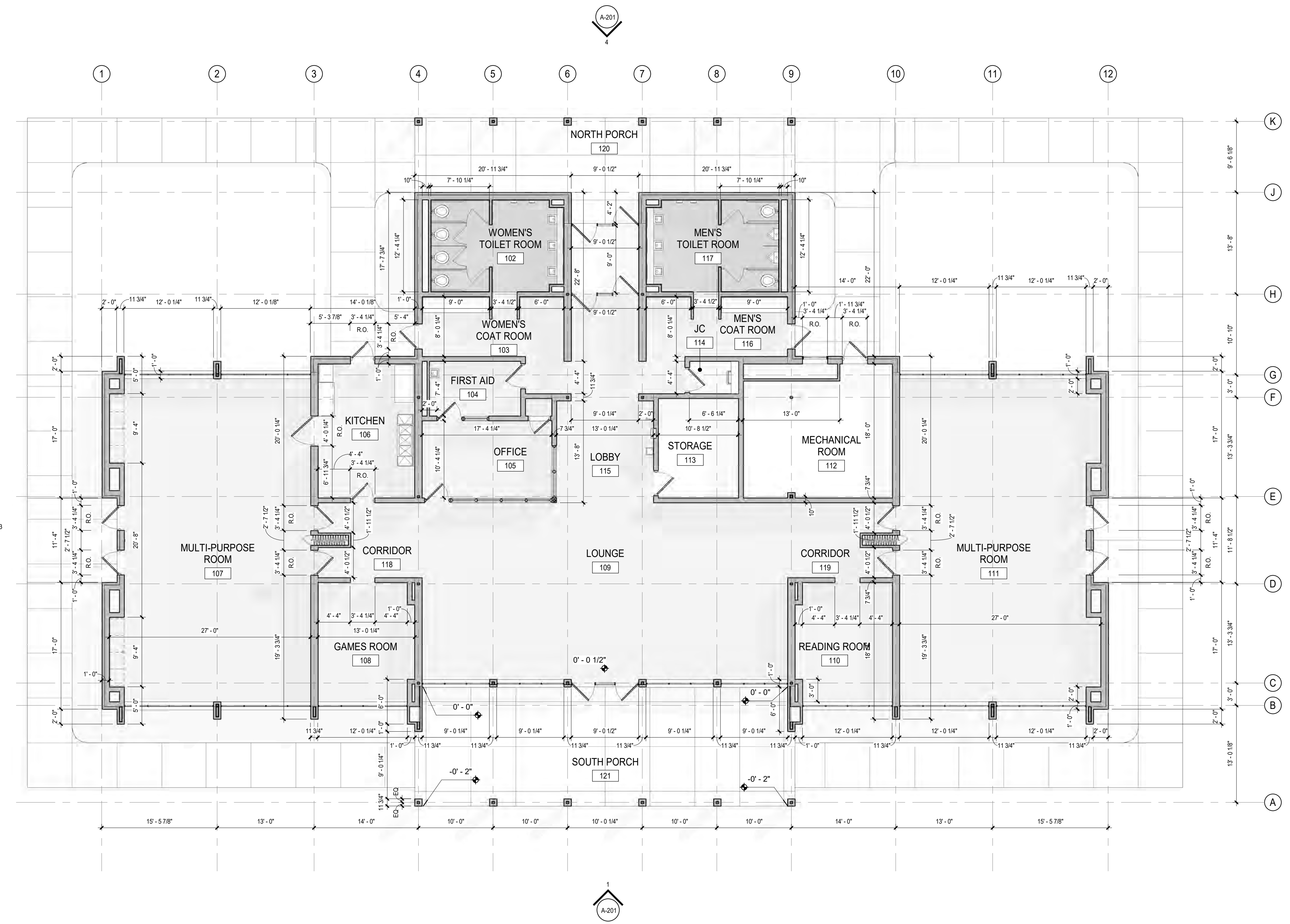
PROJECT: LENOX COMMUNITY CENTER
CLIENT NAME: LENOX COMMUNITY CENTER
CLIENT ADDRESS STREET NUMBER: ALRED FORD BRUSH PARK
CITY, STATE ZIP: DETROIT, MI 48215

SHEET: CODE COMPLIANCE & LIFE SAFETY PLAN

NOT FOR CONSTRUCTION

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY.
2. ALL DIMENSIONS ARE TO FACE OF BRICK/BLOCK, UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT.
4. ALL DIMENSIONS NOTED "AFF" ARE ABOVE FINISH SURFACE OF SLAB.
5. COORDINATE WITH MECHANICAL DRAWINGS, ENGINEERS AND CONTRACTOR FOR OPENINGS REQUIRED IN ALL FULL HEIGHT PARTITIONS (SLAB TO SLAB).



DATE	ISSUED	BY	FOR
04/24/2020	AS-BUILTS	JR	CI


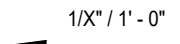
OWNER: **LENOX COMMUNITY CENTER**
CLIENT NAME: **LENOX COMMUNITY CENTER**
CLIENT ADDRESS STREET NUMBER: **ALRED FORD BRUSH PARK**
CITY, STATE ZIP: **DETROIT, MI 48215**

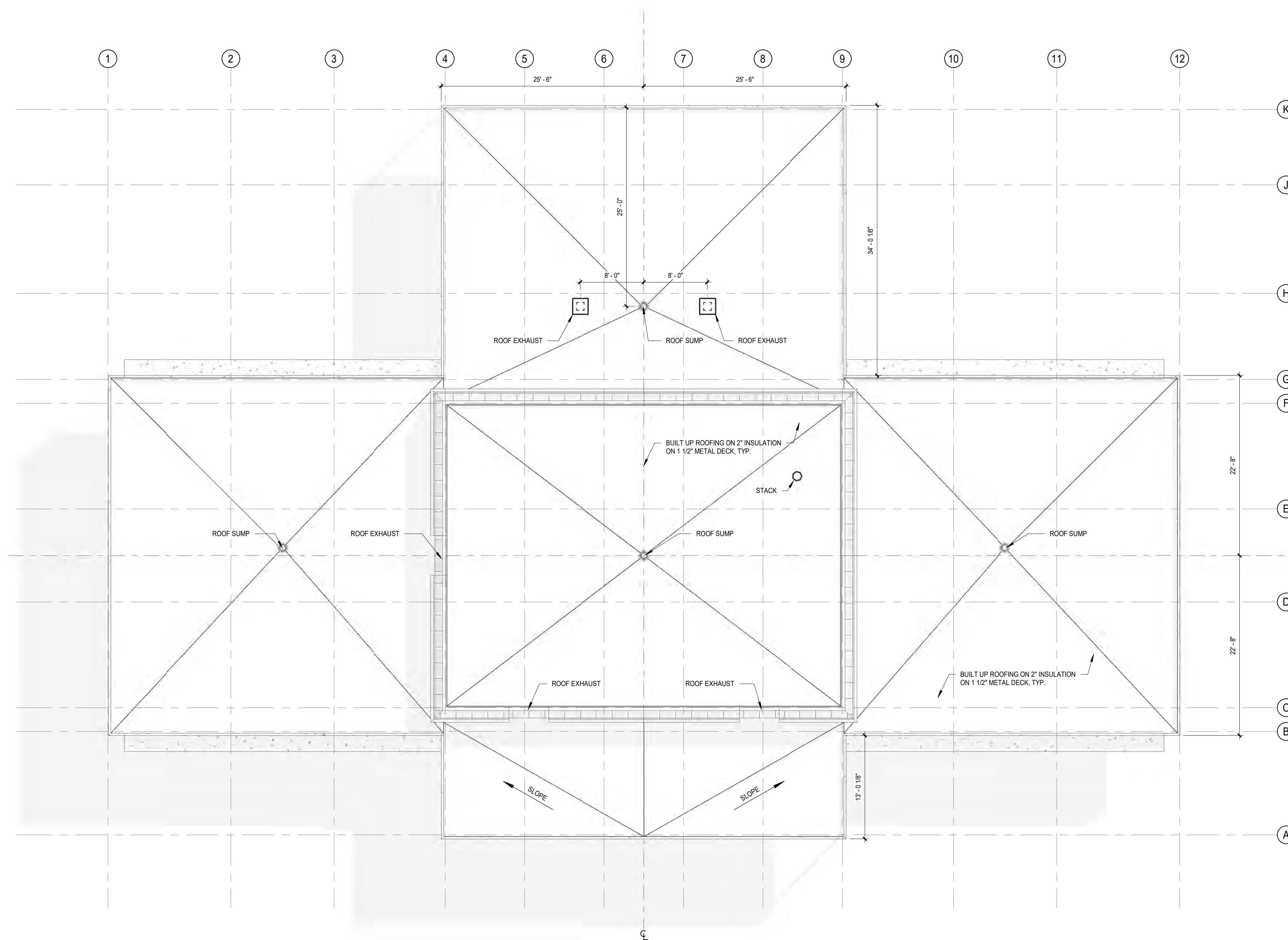
PROJECT: **OVERALL FLOOR PLAN - EXISTING**
SHEET: **CONSTRUCTION**

PROJECT: **2723.00**
SHEET NO.: **A-101**

1 FLOOR PLAN - EXISTING
1/8" = 1'-0"

ROOF PLAN LEGEND

-  SLOPED STRUCTURE ROOF ASSEMBLY EXTENTS
-  1X' / 1' - 0" ROOF SLOPE



1 ROOF PLAN - EXISTING
1/8" = 1'-0" REF: 1/A-201

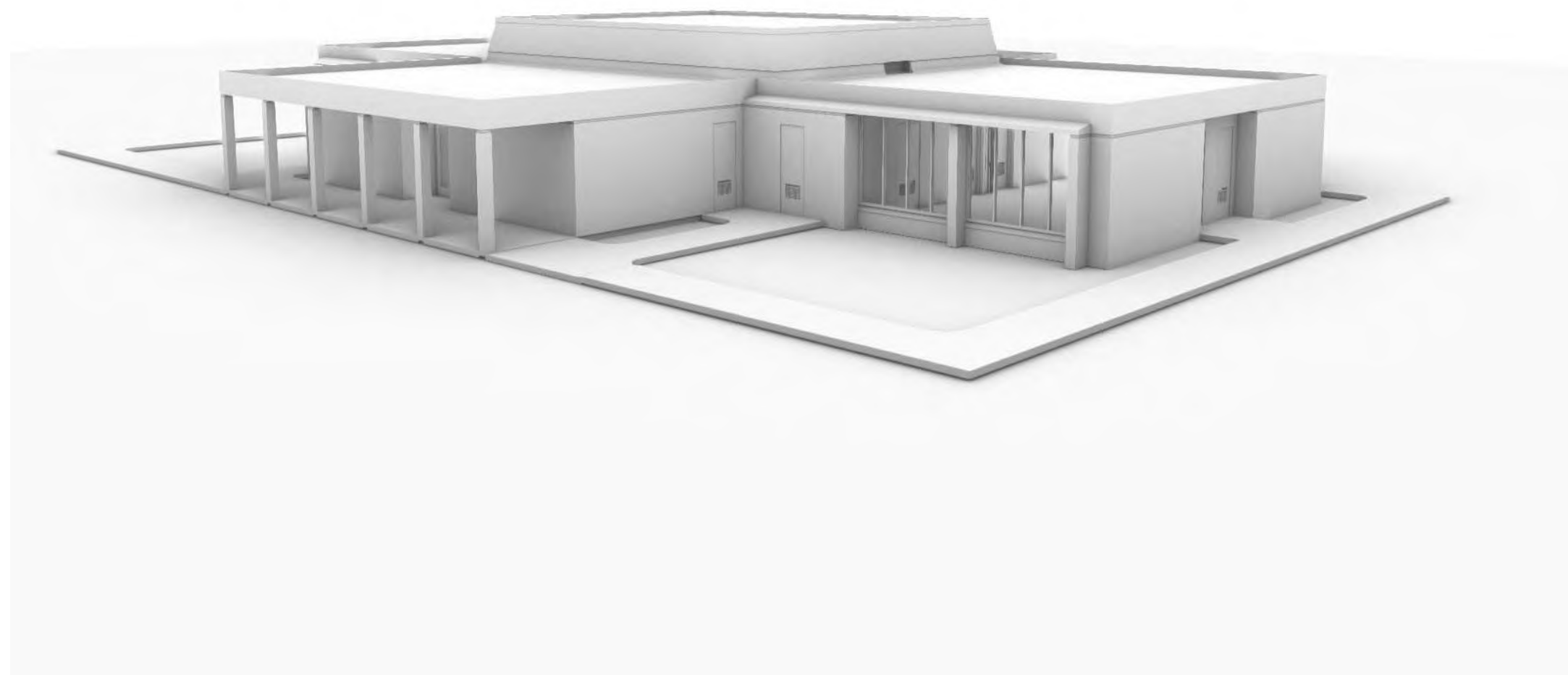
ISSUED	DATE	BY	REVISION

OWNER: LENOX COMMUNITY CENTER
CLIENT NAME: LENOX COMMUNITY CENTER
CLIENT ADDRESS STREET NUMBER: ALFRED FORD BRUSH PARK
CITY, STATE ZIP: DETROIT, MI 48215

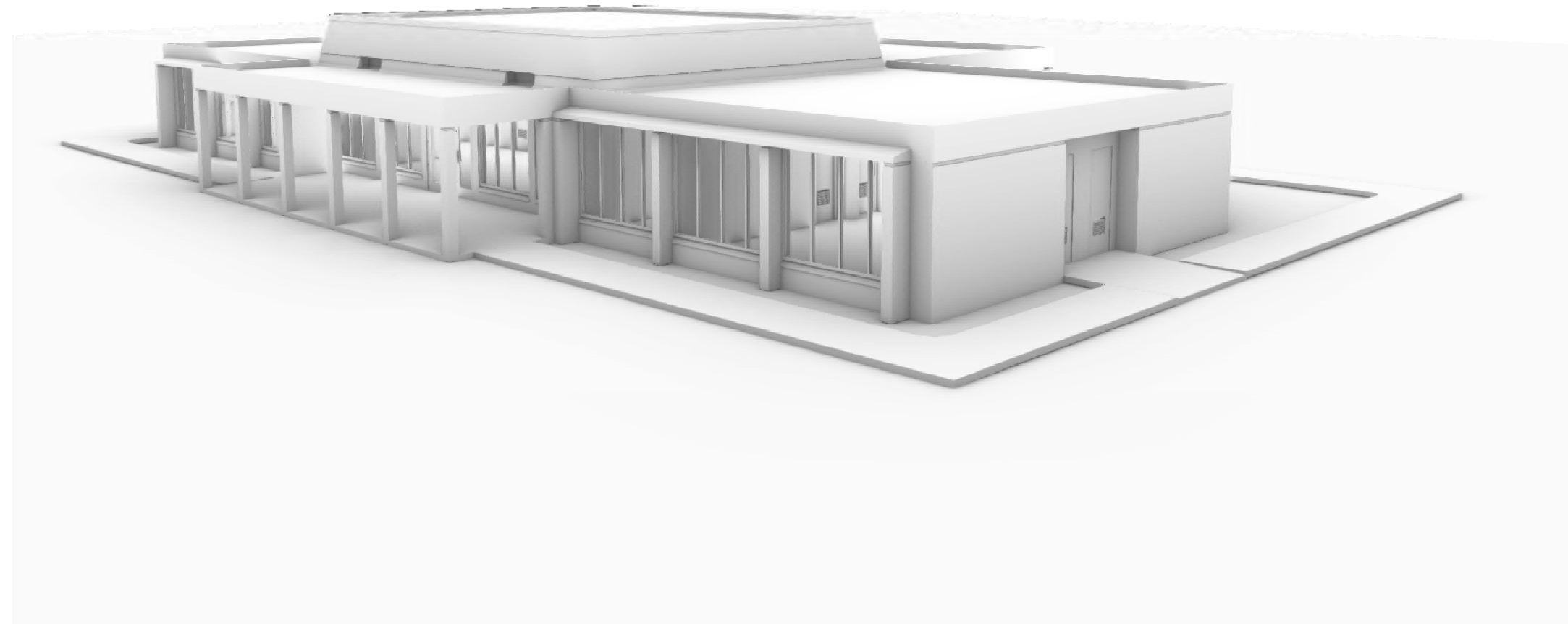
PROJECT: OVERALL ROOF PLAN
SHEET: CONSTRUCTION

THIS DRAWING IS THE PROPERTY OF INFORM STUDIO - UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS, IS PROHIBITED.

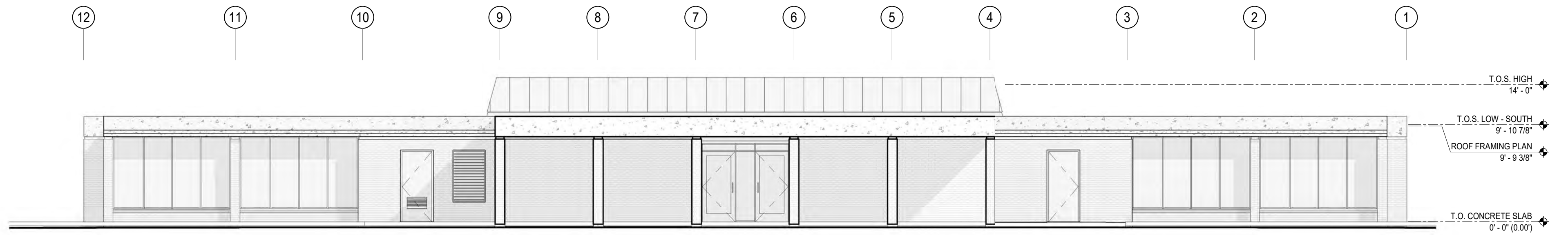
4/23/2023 3:35:54 PM



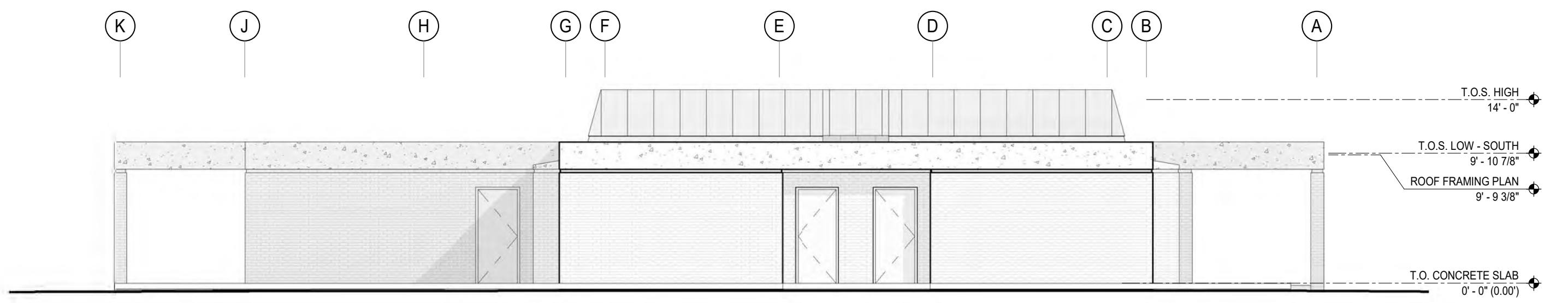
6 NORTH WEST AERIAL VIEW
 12" = 1'-0"



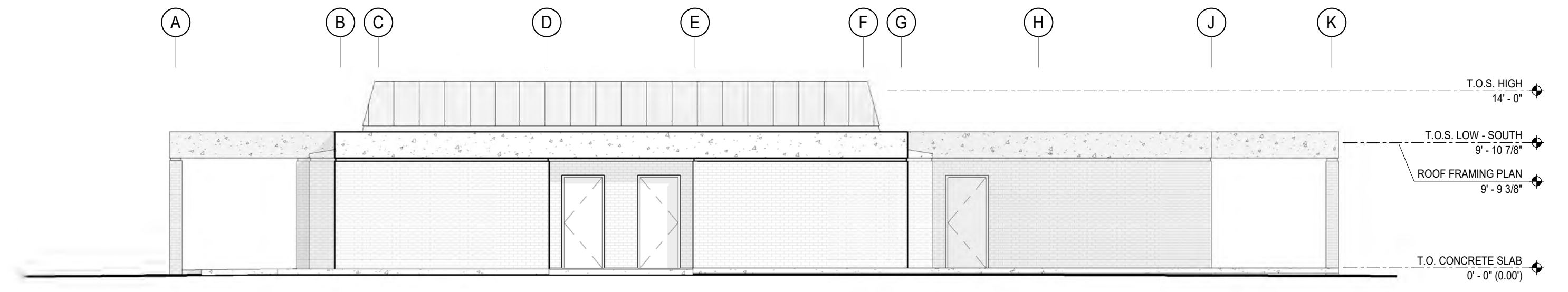
5 SOUTH EAST AERIAL VIEW
 12" = 1'-0"



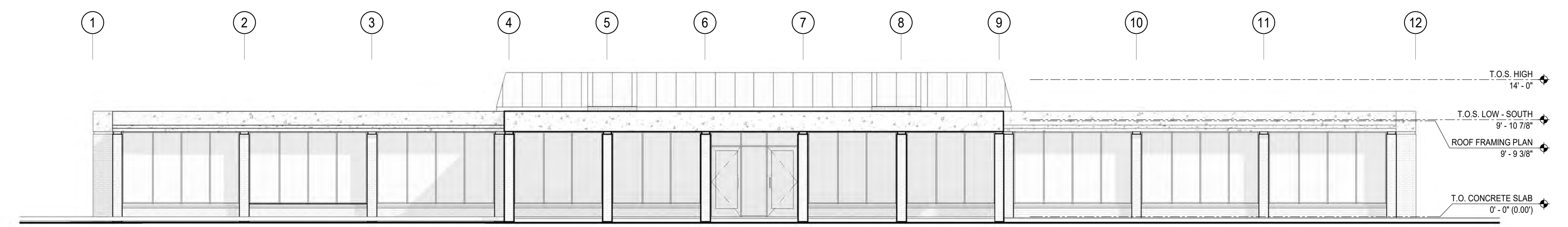
4 BUILDING ELEVATION - NORTH
 1/8" = 1'-0" REF: 1/A-101



3 BUILDING ELEVATION - WEST
 1/8" = 1'-0" REF: 1/A-101



2 BUILDING ELEVATION - EAST
 1/8" = 1'-0" REF: 1/A-101



1 BUILDING ELEVATION - SOUTH
 1/8" = 1'-0" REF: 1/A-101

DATE	ISSUED	BY	FOR

PROJECT
 LENOX COMMUNITY CENTER
 ALRED FORD BRUSH PARK
 DETROIT, MI 48215

OWNER
 LENOX COMMUNITY CENTER

CLIENT NAME
 CLIENT ADDRESS STREET
 NUMBER
 CITY, STATE ZIP

EXTERIOR ELEVATIONS

NOT FOR CONSTRUCTION

PROJECT 2723.00
SHEET NO. A-201



APPENDIX E
REGULATORY DATABASE REPORT

Lenox Center

100 Lenox Street
Detroit, MI 48215

Inquiry Number: 6609301.2s
August 06, 2021

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	20
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-6
Physical Setting Source Map Findings	A-7
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

100 LENOX STREET
DETROIT, MI 48215

COORDINATES

Latitude (North): 42.3565460 - 42° 21' 23.56"
Longitude (West): 82.9413000 - 82° 56' 28.68"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 340119.4
UTM Y (Meters): 4690975.5
Elevation: 577 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6066652 BELLE ISLE, MI
Version Date: 2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140628
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 100 LENOX STREET
 DETROIT, MI 48215

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	MORGAN DEVELOPMENT L	189 LENOX ST	RCRA-VSQQ	Higher	119, 0.023, NW
A2	FORMER BOAT HOUSE	189 LENOX ST	UST	Higher	119, 0.023, NW
3	ANTRIM E D	141 NEWPORT AVE	EDR Hist Auto	Lower	647, 0.123, NE
B4	LENOX WATERFRONT EST	LENOX AND AVONDALE S	INVENTORY	Lower	1279, 0.242, NW
B5	MORGAN DEVELOPMENT L	SOUTH SIDE OF LENOX	INVENTORY	Lower	1279, 0.242, NW
6	NIKE D-23/26 - DETRO		FUDS	Higher	1599, 0.303, West
C7	IJN ENTERPRISES INC	14601 RIVERSIDE BLVD	LUST, UST, INVENTORY, WDS	Lower	2267, 0.429, ENE
C8	VACANT LAND ON THE R	14630 RIVERSIDE BOUL	INVENTORY	Higher	2286, 0.433, ENE
9	GUYTON ELEMENTARY SC	355 PHILIP ST	INVENTORY, WDS	Lower	2561, 0.485, NNE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

EXECUTIVE SUMMARY

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facilities Database

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

AST..... Aboveground Tanks

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

AUL..... Engineering and Institutional Controls

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields and UST Site Database

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Facilities

HIST LF..... Inactive Solid Waste Facilities

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

EXECUTIVE SUMMARY

PART 201.....	Part 201 Site List
CDL.....	Clandestine Drug Lab Listing
DEL PART 201.....	Delisted List of Contaminated Sites
US CDL.....	National Clandestine Laboratory Register
PFAS.....	PFAS Contaminated Sites Listing

Local Land Records

LIENS.....	Lien List
LIENS 2.....	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS.....	Hazardous Materials Information Reporting System
SPILLS.....	Pollution Emergency Alerting System

Other Ascertainable Records

RCRA NonGen / NLR.....	RCRA - Non Generators / No Longer Regulated
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
FINDS.....	Facility Index System/Facility Registry System
ECHO.....	Enforcement & Compliance History Information
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM.....	EPA Fuels Program Registered Listing

EXECUTIVE SUMMARY

AIRS.....	Permit and Emissions Inventory Data
ASBESTOS.....	ASBESTOS
BEA.....	Baseline Environmental Assessment Database
COAL ASH.....	Coal Ash Disposal Sites
DRYCLEANERS.....	Drycleaning Establishments
Financial Assurance.....	Financial Assurance Information Listing
LEAD.....	Lead Safe Housing Registry
NPDES.....	List of Active NPDES Permits
UIC.....	Underground Injection Wells Database
WDS.....	Waste Data System
MINES MRDS.....	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA PART 201.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 03/22/2021 has revealed that there is 1

EXECUTIVE SUMMARY

RCRA-VSQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MORGAN DEVELOPMENT L EPA ID:: MIK521783340	189 LENOX ST	NW 0 - 1/8 (0.023 mi.)	A1	8

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the LUST list, as provided by EDR, and dated 05/06/2021 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>IJN ENTERPRISES INC</i> Release Status: Closed Substance Release: Gasoline Facility Id: 00005232	<i>14601 RIVERSIDE BLVD</i>	<i>ENE 1/4 - 1/2 (0.429 mi.)</i>	<i>C7</i>	<i>15</i>

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Michigan UST database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORMER BOAT HOUSE Database: UST, Date of Government Version: 04/26/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00041981	189 LENOX ST	NW 0 - 1/8 (0.023 mi.)	A2	12

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

INVENTORY: The Inventory of Facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213, Leaking Underground Storage Tanks of the NREPA; and Facilities identified through submittals of Baseline

EXECUTIVE SUMMARY

Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all of the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities that are not known to DEQ are not on the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities listed here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective action has not been completed is located on the Leaking Underground Storage Tanks Site Search webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria. A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

A review of the INVENTORY list, as provided by EDR, and dated 01/20/2021 has revealed that there are 5 INVENTORY sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
VACANT LAND ON THE R	14630 RIVERSIDE BOUL	ENE 1/4 - 1/2 (0.433 mi.)	C8	18
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LENOX WATERFRONT EST Facility ID: 82002596	LENOX AND AVONDALE S	NW 1/8 - 1/4 (0.242 mi.)	B4	13
MORGAN DEVELOPMENT L Facility ID: 82002596	SOUTH SIDE OF LENOX	NW 1/8 - 1/4 (0.242 mi.)	B5	14
<i>IJN ENTERPRISES INC</i> Facility ID: 82002541 Facility ID: 00005232	<i>14601 RIVERSIDE BLVD</i>	<i>ENE 1/4 - 1/2 (0.429 mi.)</i>	<i>C7</i>	<i>15</i>
<i>GUYTON ELEMENTARY SC</i>	<i>355 PHILIP ST</i>	<i>NNE 1/4 - 1/2 (0.485 mi.)</i>	<i>9</i>	<i>19</i>

Other Ascertainable Records

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 02/11/2021 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NIKE D-23/26 - DETRO		W 1/4 - 1/2 (0.303 mi.)	6	14

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include

EXECUTIVE SUMMARY

gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

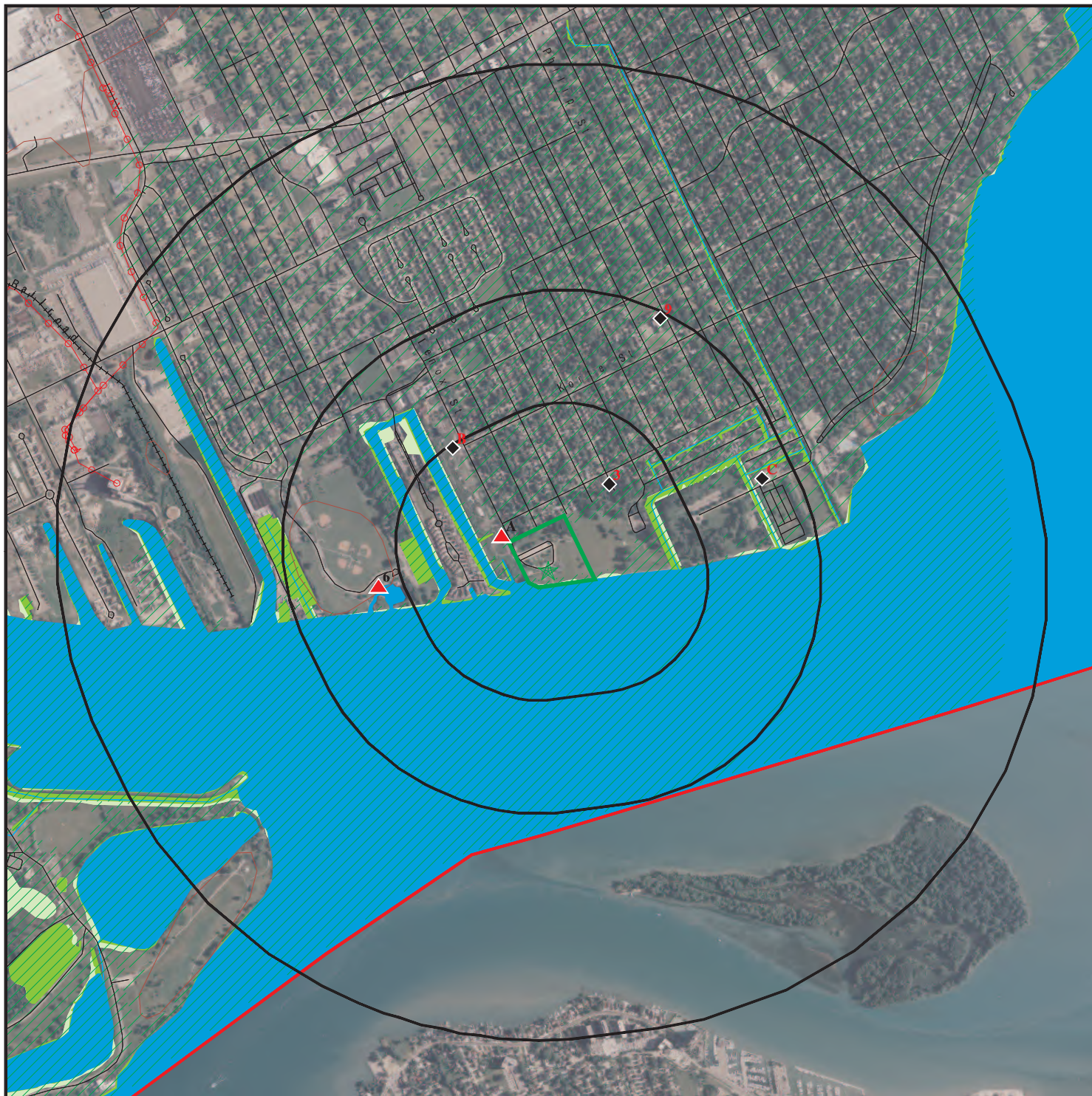
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ANTRIM E D	141 NEWPORT AVE	NE 0 - 1/8 (0.123 mi.)	3	13

EXECUTIVE SUMMARY


Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.


<u>Site Name</u>	<u>Database(s)</u>
SPARETIME FAMILY ENTERTAINMENT CEN	PART 201

OVERVIEW MAP - 6609301.2S



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites

 Indian Reservations BIA

 County Boundary

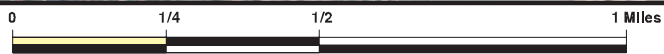
 Power transmission lines

 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

 State Wetlands

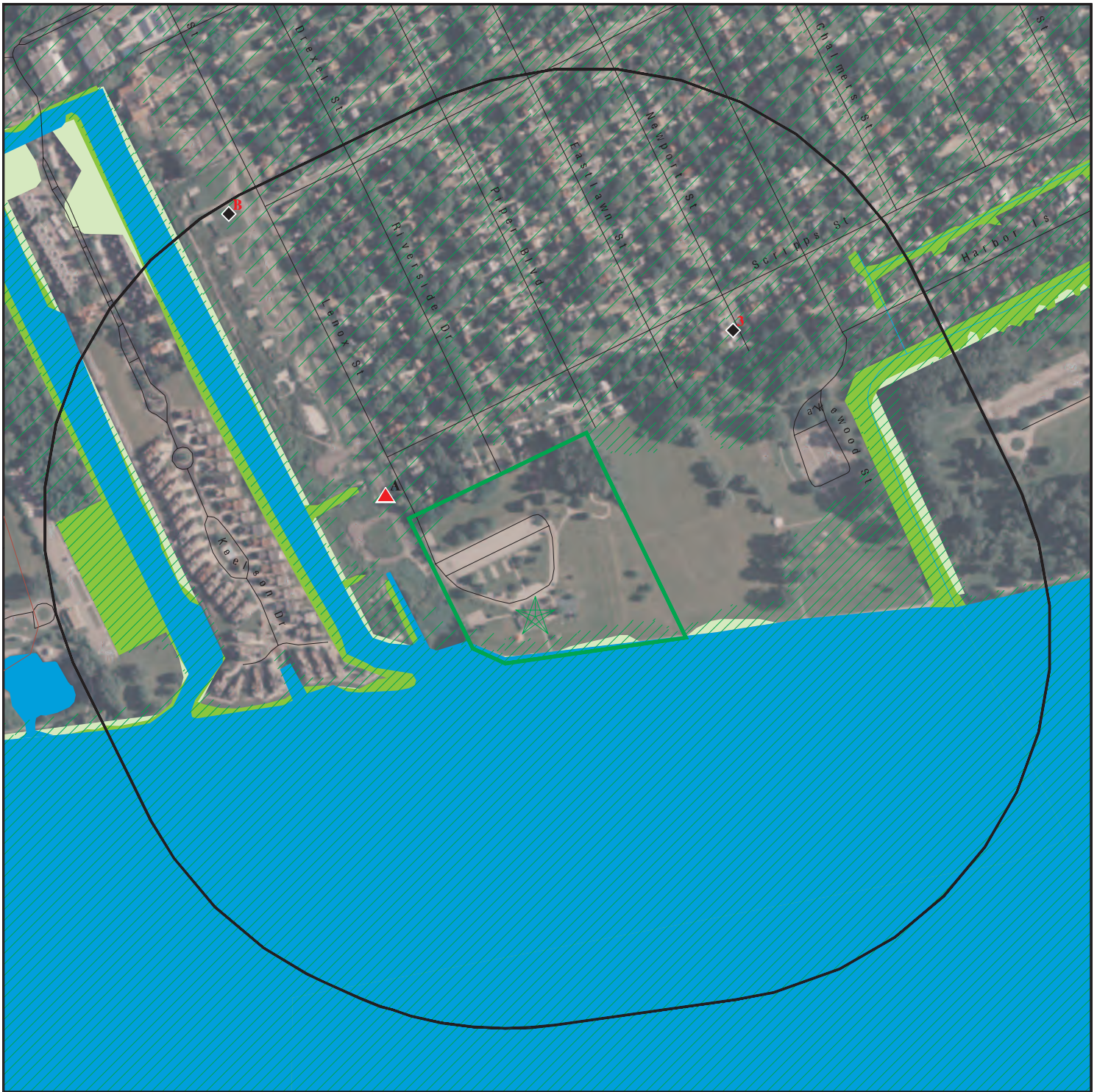









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Lenox Center
 ADDRESS: 100 Lenox Street
 Detroit MI 48215
 LAT/LONG: 42.356546 / 82.9413

CLIENT: ATC Group Services LLC
 CONTACT: Andrew Temerowski
 INQUIRY #: 6609301.2s
 DATE: August 06, 2021 10:28 am

DETAIL MAP - 6609301.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites



-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Lenox Center
 ADDRESS: 100 Lenox Street
 Detroit MI 48215
 LAT/LONG: 42.356546 / 82.9413

CLIENT: ATC Group Services LLC
 CONTACT: Andrew Temerowski
 INQUIRY #: 6609301.2s
 DATE: August 06, 2021 10:29 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		1	0	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		1	0	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
PART 201	1.000		0	0	0	0	NR	0
INVENTORY	0.500		0	2	3	NR	NR	5
CDL	TP		NR	NR	NR	NR	NR	0
DEL PART 201	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	1	0	NR	1
DOD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
BEA	0.500		0	0	0	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA PART 201	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	3	2	5	0	0	10

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MORGAN DEVELOPMENT LLC (Continued)

1010320243

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2011-03-03 13:15:53.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MORGAN DEVELOPMENT LLC
Legal Status:	Private
Date Became Current:	2007-03-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MORGAN DEVELOPMENT LLC
Legal Status:	Private
Date Became Current:	2007-03-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MORGAN DEVELOPMENT LLC (Continued)

1010320243

Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MORGAN DEVELOPMENT
Legal Status: Private
Date Became Current: 2007-03-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MORGAN DEVELOPMENT
Legal Status: Private
Date Became Current: 2007-03-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MORGAN DEVELOPMENT LLC
Legal Status: Private
Date Became Current: 2007-03-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MORGAN DEVELOPMENT
Legal Status: Private
Date Became Current: 2007-03-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MORGAN DEVELOPMENT
Legal Status: Private
Date Became Current: 2007-03-01 00:00:00.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MORGAN DEVELOPMENT LLC (Continued)

1010320243

Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MORGAN DEVELOPMENT LLC
Legal Status: Private
Date Became Current: 2007-03-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2007-03-05 00:00:00.0
Handler Name: MORGAN DEVELOPMENT LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2007-04-24 00:00:00.0
Handler Name: MORGAN DEVELOPMENT LLC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56291
NAICS Description: REMEDIATION SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MORGAN DEVELOPMENT LLC (Continued)

1010320243

Evaluations:

No Evaluations Found

**A2
NW
< 1/8
0.023 mi.
119 ft.**

**FORMER BOAT HOUSE
189 LENOX ST
DETROIT, MI 48215
Site 2 of 2 in cluster A**

**UST U004082528
N/A**

**Relative:
Higher
Actual:
579 ft.**

UST:
Name: FORMER BOAT HOUSE
Address: 189 LENOX ST
City,State,Zip: DETROIT 48215
Facility Type: CLOSED
Facility ID: 00041981
Owner Name: MORGAN DEVELOPMENT LLC
Owner Address: 15580 TELEGRAPH RD
Owner City: DETROIT
Owner State: MI
Owner Zip: 48239
Owner Contact: Not reported
Owner Phone: 3132551150
Contact: Mr Don Maritofor
Contact Phone: (313) 225-1150
Date of Collection: 08/08/2007
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Map
District: Region 1 - SE Michigan District Office
Tank ID: 2
Capacity: 5000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 03/09/2007
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.35802
Longitude: -82.94295

Name: FORMER BOAT HOUSE
Address: 189 LENOX ST
City,State,Zip: DETROIT 48215
Facility Type: CLOSED
Facility ID: 00041981
Owner Name: MORGAN DEVELOPMENT LLC
Owner Address: 15580 TELEGRAPH RD
Owner City: DETROIT

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FORMER BOAT HOUSE (Continued)

U004082528

Owner State: MI
 Owner Zip: 48239
 Owner Contact: Not reported
 Owner Phone: 3132551150
 Contact: Mr Don Maritofer
 Contact Phone: (313) 225-1150
 Date of Collection: 08/08/2007
 Accuracy: 40
 Horizontal Datum: NAD83
 Accuracy Value Unit: FEET
 Source: STATE OF MICHIGAN
 Point Line Area: POINT
 Desc Category: Not reported
 Method of Collection: Interpolation-Map
 District: Region 1 - SE Michigan District Office
 Tank ID: 1
 Capacity: 10000
 Tank Status: Removed from Ground
 Substance: Gasoline
 Install Date: Not reported
 Remove Date: 03/09/2007
 Tank Number: Not reported
 Tank Details Compartments: Not reported
 Tank Release Detection: Not reported
 Pipe Release Detection: Not reported
 Piping Material: Not reported
 Piping Type: Not reported
 Tank Construction: Not reported
 Impressed Device: Not reported
 Latitude: 42.35802
 Longitude: -82.94295

3
NE
 < 1/8
 0.123 mi.
 647 ft.

ANTRIM E D
141 NEWPORT AVE
DETROIT, MI

EDR Hist Auto 1009486960
N/A

Relative:
Lower

EDR Hist Auto

Actual:
575 ft.

Year: Name:
 1931 ANTRIM E D

Type:
 AUTOMOBILE REPAIRING

B4
NW
 1/8-1/4
 0.242 mi.
 1279 ft.

LENOX WATERFRONT ESTATES
LENOX AND AVONDALE STREETS
DETROIT, MI

INVENTORY S114031594
N/A

Site 1 of 2 in cluster B

Relative:
Lower

INVENTORY:

Actual:
576 ft.

Name: LENOX WATERFRONT ESTATES
 Address: LENOX AND AVONDALE STREETS
 City,State,Zip: DETROIT, MI
 Bea Number: Not reported
 Township: Detroit
 District: Southeast MI

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LENOX WATERFRONT ESTATES (Continued)

S114031594

Data Source: Part 201
 Latitude: 42.36052
 Longitude: -82.9454

**B5
 NW
 1/8-1/4
 0.242 mi.
 1279 ft.**

**MORGAN DEVELOPMENT LLC
 SOUTH SIDE OF LENOX STREET BETWEEN AVONDALE AND THE DETROIT
 WAYNE (County), MI**

**INVENTORY S114031595
 N/A**

Site 2 of 2 in cluster B

**Relative:
 Lower
 Actual:
 576 ft.**

INVENTORY:
 Name: MORGAN DEVELOPMENT LLC
 Address: SOUTH SIDE OF LENOX STREET BETWEEN AVONDALE AND THE DETROIT RIVER
 City,State,Zip: MI
 Bea Number: 200603236LV
 Township: Detroit
 District: Southeast MI
 Data Source: BEA
 Latitude: 42.36052
 Longitude: -82.9454

**6
 West
 1/4-1/2
 0.303 mi.
 1599 ft.**

**NIKE D-23/26 - DETROIT
 DETROIT, MI**

**FUDS 1024900314
 N/A**

**Relative:
 Higher
 Actual:
 581 ft.**

FUDS:
 EPA Region: 5
 Installation ID: MI59799F227700
 Congressional District Number: 14
 Name: NIKE D-23/26 - DETROIT
 FUDS Number: E05MI0125
 City: DETROIT
 State: MI
 County: WAYNE
 Object ID: 2790
 USACE Division: LRD
 USACE District: Louisville District (LRL)
 Status: Properties without projects
 Current Owner: Not reported
 EMS Map Link: <https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=59782>
 Eligibility: Eligible
 Has Projects: No
 NPL Status: Not on the NPL
 Property History: During the period extending from 28 April 1959 through 15 September 1969, the right to 57.110 acres in lease, 0.090 acre in easement and 0.078 acre in license was terminated and transferred back to the City of Detroit or to previous private property owners. Since termination of the leases and restorations that were completed as required, the former NIKE Battery sites 23-26 have been operated as part of the City of Detroit's Department of Parks and Recreation system.

Project Required: No
 Feature Description: Not reported
 X Coord: -82.948608398000005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NIKE D-23/26 - DETROIT (Continued)

1024900314

Y Coord: 42.356201171999999
Latitude: 42.356111110000001
Longitude: -82.948611110000002

C7
ENE
1/4-1/2
0.429 mi.
2267 ft.

IJN ENTERPRISES INC
14601 RIVERSIDE BLVD
DETROIT, MI 48215

Site 1 of 2 in cluster C

LUST U000267120
UST N/A
INVENTORY
WDS

Relative:
Lower
Actual:
576 ft.

LUST:
Name: IJN ENTERPRISES INC
Address: 14601 RIVERSIDE BLVD
City,State,Zip: DETROIT, MI 48215-
Facility ID: 00005232
Source: STATE OF MICHIGAN
Owner Name: IJNEnterprises LLC
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Warren
Site Name: Fisherman's Marina
Latitude: 42.35933
Longitude: -82.93218
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-1440-94
Release Date: 11/23/1994
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: 11/26/2019

UST:
Name: IJN ENTERPRISES INC
Address: 14601 RIVERSIDE BLVD
City,State,Zip: DETROIT 48215-3118
Facility Type: CLOSED
Facility ID: 00005232
Owner Name: IJN ENTERPRISES LLC
Owner Address: 14719 RIVERSIDE BLVD
Owner City: DETROIT
Owner State: MI
Owner Zip: 48215
Owner Contact: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IJN ENTERPRISES INC (Continued)

U000267120

Owner Phone: Not reported
Contact: Michael Thomas
Contact Phone: Not reported
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 1 - SE Michigan District Office
Tank ID: 3
Capacity: 5000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 12/12/1994
Remove Date: 06/12/2018
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.35933
Longitude: -82.93218

Name: IJN ENTERPRISES INC
Address: 14601 RIVERSIDE BLVD
City,State,Zip: DETROIT 48215-3118
Facility Type: CLOSED
Facility ID: 00005232
Owner Name: IJN ENTERPRISES LLC
Owner Address: 14719 RIVERSIDE BLVD
Owner City: DETROIT
Owner State: MI
Owner Zip: 48215
Owner Contact: Not reported
Owner Phone: Not reported
Contact: Michael Thomas
Contact Phone: Not reported
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 1 - SE Michigan District Office
Tank ID: 2
Capacity: 1000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IJN ENTERPRISES INC (Continued)

U000267120

Remove Date: 11/23/1994
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.35933
Longitude: -82.93218

Name: IJN ENTERPRISES INC
Address: 14601 RIVERSIDE BLVD
City,State,Zip: DETROIT 48215-3118
Facility Type: CLOSED
Facility ID: 00005232
Owner Name: IJN ENTERPRISES LLC
Owner Address: 14719 RIVERSIDE BLVD
Owner City: DETROIT
Owner State: MI
Owner Zip: 48215
Owner Contact: Not reported
Owner Phone: Not reported
Contact: Michael Thomas
Contact Phone: Not reported
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 1 - SE Michigan District Office
Tank ID: 1
Capacity: 2000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 11/23/1994
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.35933
Longitude: -82.93218

INVENTORY:

Name: FISHERMAN'S MARINA (00005232)
Address: 14601 RIVERSIDE BLVD.
City,State,Zip: DETROIT, MI
Bea Number: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IJN ENTERPRISES INC (Continued)

U000267120

Township: Detroit
District: Southeast MI
Data Source: Part 201
Latitude: 42.35962
Longitude: -82.93212

Name: HOWMAN'S MARINA
Address: 14601 RIVERSIDE BOULEVARD
City,State,Zip: MI 48215
Bea Number: 201606849LV
Township: Detroit
District: Southeast MI
Data Source: BEA
Latitude: 42.35962
Longitude: -82.93212

Name: IJN ENTERPRISES INC
Address: 14601 RIVERSIDE BLVD
City,State,Zip: DETROIT, MI 48215
Bea Number: Not reported
Township: Not reported
District: Southeast MI
Data Source: Part 213
Latitude: 42.35934
Longitude: -82.93219

WDS:

Name: FISHERMANS MARINA
Address: 14601 RIVERSIDE BLVD
City,State,Zip: DETROIT, MI 48215
Site Id: MIG000040749
WMD Id: 442982
Site Specific Name: FISHERMANS MARINA
Mailing Address: 14601 RIVERSIDE BLVD
Mailing City/State/Zip: 48215
Mailing County: WAYNE

C8
ENE
1/4-1/2
0.433 mi.
2286 ft.

VACANT LAND ON THE RIVERFRONT
14630 RIVERSIDE BOULEVARD
WAYNE (County), MI 48215

INVENTORY S114565046
N/A

Site 2 of 2 in cluster C

Relative:
Higher
Actual:
578 ft.

INVENTORY:
Name: VACANT LAND ON THE RIVERFRONT
Address: 14630 RIVERSIDE BOULEVARD
City,State,Zip: MI 48215
Bea Number: 201405866LV
Township: Detroit
District: Southeast MI
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

Name: VACANT LAND ON THE RIVERFRONT
Address: 14630 RIVERSIDE BOULEVARD
City,State,Zip: MI 48215

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VACANT LAND ON THE RIVERFRONT (Continued)

S114565046

Bea Number: 201405867LV
Township: Detroit
District: Southeast MI
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

9
NNE
1/4-1/2
0.485 mi.
2561 ft.

GUYTON ELEMENTARY SCHOOL
355 PHILIP ST
DETROIT, MI 48215

INVENTORY S111131191
WDS N/A

Relative:
Lower
Actual:
575 ft.

INVENTORY:
Name: GUYTON SCHOOL PROPERTY
Address: 355 PHILIP STREET
City,State,Zip: MI 48215
Bea Number: 201506506LV
Township: Detroit
District: Southeast MI
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

WDS:
Name: GUYTON ELEMENTARY SCHOOL
Address: 355 PHILIP ST
City,State,Zip: DETROIT, MI 48215
Site Id: MID985601970
WMD Id: 404172
Site Specific Name: GUYTON ELEM SCHOOL
Mailing Address: 5057 WOODWARD AVE
Mailing City/State/Zip: 48202
Mailing County: WAYNE

Count: 1 records.

ORPHAN SUMMARY

<u>City</u>	<u>EDR ID</u>	<u>Site Name</u>	<u>Site Address</u>	<u>Zip</u>	<u>Database(s)</u>
DETROIT	S108959577	SPARETIME FAMILY ENTERTAINMENT CEN	LYCASTE/JEFFERSON		PART 201

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: N/A
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: N/A
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021	Source: EPA
Date Data Arrived at EDR: 03/23/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 312-886-6186
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 312-886-6186
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 312-886-6186
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 312-886-6186
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/10/2021	Source: Department of the Navy
Date Data Arrived at EDR: 05/13/2021	Telephone: 843-820-7326
Date Made Active in Reports: 08/03/2021	Last EDR Contact: 08/05/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/22/2021
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 05/21/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 05/21/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2021

Date Data Arrived at EDR: 03/24/2021

Date Made Active in Reports: 06/17/2021

Number of Days to Update: 85

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 06/17/2021

Next Scheduled EDR Contact: 10/04/2021

Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

Date of Government Version: N/A

Date Data Arrived at EDR: 10/31/2013

Date Made Active in Reports: 11/20/2013

Number of Days to Update: 20

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-284-5103

Last EDR Contact: 07/13/2021

Next Scheduled EDR Contact: 11/01/2021

Data Release Frequency: No Update Planned

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/23/2021

Date Data Arrived at EDR: 03/24/2021

Date Made Active in Reports: 06/15/2021

Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-335-4035

Last EDR Contact: 06/21/2021

Next Scheduled EDR Contact: 10/04/2021

Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 05/06/2021

Date Data Arrived at EDR: 05/12/2021

Date Made Active in Reports: 07/02/2021

Number of Days to Update: 51

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-9837

Last EDR Contact: 07/01/2021

Next Scheduled EDR Contact: 11/22/2021

Data Release Frequency: Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020

Date Data Arrived at EDR: 05/20/2020

Date Made Active in Reports: 08/12/2020

Number of Days to Update: 84

Source: EPA Region 6

Telephone: 214-665-6597

Last EDR Contact: 06/11/2021

Next Scheduled EDR Contact: 11/01/2021

Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2020	Source: EPA Region 10
Date Data Arrived at EDR: 12/16/2020	Telephone: 206-553-2857
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2020	Telephone: 415-972-3372
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020	Source: EPA Region 8
Date Data Arrived at EDR: 12/16/2020	Telephone: 303-312-6271
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020	Source: EPA Region 7
Date Data Arrived at EDR: 12/22/2020	Telephone: 913-551-7003
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020	Source: EPA Region 4
Date Data Arrived at EDR: 12/18/2020	Telephone: 404-562-8677
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2020	Source: EPA Region 1
Date Data Arrived at EDR: 12/16/2020	Telephone: 617-918-1313
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020	Source: EPA, Region 5
Date Data Arrived at EDR: 12/16/2020	Telephone: 312-886-7439
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

State and tribal registered storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021	Source: FEMA
Date Data Arrived at EDR: 02/17/2021	Telephone: 202-646-5797
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Varies

UST: Underground Storage Tank Facility List

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 04/26/2021	Source: Department of Licensing & Regulatory Affairs
Date Data Arrived at EDR: 05/11/2021	Telephone: 517-373-1820
Date Made Active in Reports: 07/29/2021	Last EDR Contact: 05/11/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Annually

UST 2: Underground Storage Tank Listing

A listing of underground storage tank site locations that have unknown owner information.

Date of Government Version: 04/09/2021	Source: Department of Licensing & Regulatory Affairs
Date Data Arrived at EDR: 04/16/2021	Telephone: 517-373-1820
Date Made Active in Reports: 07/07/2021	Last EDR Contact: 07/21/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Varies

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 02/08/2021	Source: Department of Licensing & Regulatory Affairs
Date Data Arrived at EDR: 02/17/2021	Telephone: 517-373-1820
Date Made Active in Reports: 03/17/2021	Last EDR Contact: 08/05/2021
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/22/2021
	Data Release Frequency: No Update Planned

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020	Source: EPA Region 7
Date Data Arrived at EDR: 12/22/2020	Telephone: 913-551-7003
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020	Source: EPA Region 8
Date Data Arrived at EDR: 12/16/2020	Telephone: 303-312-6137
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AUL: Engineering and Institutional Controls

A listing of sites with institutional and/or engineering controls in place.

Date of Government Version: 11/23/2020

Date Data Arrived at EDR: 11/24/2020

Date Made Active in Reports: 02/10/2021

Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-4828

Last EDR Contact: 05/19/2021

Next Scheduled EDR Contact: 09/06/2021

Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015

Date Data Arrived at EDR: 09/29/2015

Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1

Telephone: 617-918-1102

Last EDR Contact: 06/15/2021

Next Scheduled EDR Contact: 10/04/2021

Data Release Frequency: No Update Planned

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008

Date Data Arrived at EDR: 04/22/2008

Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7

Telephone: 913-551-7365

Last EDR Contact: 07/08/2021

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: No Update Planned

State and tribal Brownfields sites

BROWNFIELDS: Brownfields and USTfield Site Database

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 01/15/2016

Date Data Arrived at EDR: 02/02/2016

Date Made Active in Reports: 04/04/2016

Number of Days to Update: 62

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-4805

Last EDR Contact: 07/14/2021

Next Scheduled EDR Contact: 11/01/2021

Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations

A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detroit Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/19/2021

Date Data Arrived at EDR: 04/21/2021

Date Made Active in Reports: 07/09/2021

Number of Days to Update: 79

Source: Economic Development Corporation

Telephone: 888-522-0103

Last EDR Contact: 07/19/2021

Next Scheduled EDR Contact: 11/01/2021

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/15/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 12/28/2020
Date Data Arrived at EDR: 12/30/2020
Date Made Active in Reports: 03/17/2021
Number of Days to Update: 77

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-5719
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997
Date Data Arrived at EDR: 02/28/2003
Date Made Active in Reports: 03/06/2003
Number of Days to Update: 6

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4034
Last EDR Contact: 02/28/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/22/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

PART 201: Part 201 Site List

A Part 201 Listed site is a location that has been evaluated and scored by the DEQ using the Part 201 scoring model. The location is or includes a "facility" as defined by Part 201, where there has been a release of a hazardous substance(s) in excess of the Part 201 residential criteria, and/or where corrective actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use. The Part 201 List does not include all of the sites of contamination that are subject to regulation under Part 201 because owners are not required to inform the DEQ about the sites and can pursue cleanup independently. Sites of environmental contamination that are not known to DEQ are not on the list, nor are sites with releases that resulted in low environmental impact.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/03/2014
Date Made Active in Reports: 10/03/2014
Number of Days to Update: 0

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-5103
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

INVENTORY: Inventory of Facilities

The Inventory of Facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213, Leaking Underground Storage Tanks of the NREPA; and Facilities identified through submittals of Baseline Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all of the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities that are not known to DEQ are not on the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities listed here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective action has not been completed is located on the Leaking Underground Storage Tanks Site Search webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria. A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-5136
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 01/04/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 79

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEL PART 201: Delisted List of Contaminated Sites

A deleted site has been removed from the Part 201 List because information known to the DEQ at the time of the evaluation does not support inclusion on the Part 201 List. This designation is often applied to sites where changes in cleanup criteria resulted in a determination that the site no longer exceeds any applicable cleanup criterion.

A delisted site has been removed from the Part 201 List because response actions have reduced the levels of contaminants to concentrations which meet or are below the criteria for unrestricted residential use.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 09/11/2013
Number of Days to Update: 41

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9541
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contaminated Sites Listing

PFAS have been widely used in numerous industrial and residential applications since the 1950s. Their stability and unique chemical properties produce waterproof, stain resistant, and nonstick qualities in products. They are found in some firefighting foams and a wide range of consumer products such as carpet treatments, non-stick cookware, water-resistant fabrics, food packaging materials, and personal care products.

Date of Government Version: 05/05/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/29/2021
Number of Days to Update: 79

Source: Department of Environment, Great Lakes & Energy
Telephone: 517-284-9278
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

Local Land Records

LIENS: Lien List

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC * 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 10/17/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 55

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-7603
Last EDR Contact: 07/16/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

PEAS: Pollution Emergency Alerting System

Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

Date of Government Version: 03/28/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/08/2021
Number of Days to Update: 79

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-8427
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 47

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/09/2021
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/18/2021
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 202-566-1917
Date Made Active in Reports: 06/17/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/26/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/15/2021
	Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 05/07/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 06/17/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/27/2021
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 05/17/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 04/19/2021	Source: EPA
Date Data Arrived at EDR: 04/20/2021	Telephone: 202-564-4203
Date Made Active in Reports: 07/16/2021	Last EDR Contact: 07/19/2021
Number of Days to Update: 87	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: 703-416-0223
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/07/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/13/2021	Telephone: 202-564-8600
Date Made Active in Reports: 08/03/2021	Last EDR Contact: 07/14/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: 202-564-6023
Date Made Active in Reports: 03/05/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/15/2021
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020	Source: EPA
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-566-0500
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 07/09/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/29/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/11/2021	Telephone: 301-415-7169
Date Made Active in Reports: 05/11/2021	Last EDR Contact: 07/14/2021
Number of Days to Update: 61	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019	Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020	Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 05/27/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 05/27/2021
Number of Days to Update: 251	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/07/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 07/02/2021
Number of Days to Update: 546	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Varies

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 07/23/2021
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/15/2021
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 05/21/2021
Number of Days to Update: 74	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/03/2021	Telephone: 703-603-8787
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust.

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 81

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/17/2021
Date Data Arrived at EDR: 03/18/2021
Date Made Active in Reports: 06/08/2021
Number of Days to Update: 82

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-7074
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Annually

ASBESTOS: Asbestos Notification Listing Asbestos

Date of Government Version: 05/31/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 21

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-284-7699
Last EDR Contact: 08/03/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

BEA: Baseline Environmental Assessment Database

A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

Date of Government Version: 08/21/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 09/12/2013
Number of Days to Update: 20

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9541
Last EDR Contact: 08/05/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: No Update Planned

COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 04/01/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 79

Source: Department of Environment, Great Lakes, and Energy
Telephone: 586-753-3754
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

Date of Government Version: 01/07/2021
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4586
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 10/24/2021
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 04/05/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-6610
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/22/2021
Number of Days to Update: 5

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4034
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINANCIAL ASSURANCE 3: Financial Assurance Information Listing

Financial assurance information for underground storage tank facilities.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 73

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-335-7279
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

LEAD CERT: Lead Safe Housing Registry

A listing of Michigan properties included in the Lead Safe Housing Registry.

Date of Government Version: 03/25/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 82

Source: Department of Community Health
Telephone: 517-335-9699
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

NPDES: List of Active NPDES Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 10/22/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 03/16/2021
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1300
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 01/05/2021
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 04/19/2021
Number of Days to Update: 101

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1515
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

WDS: Waste Data System

The Waste Data System (WDS) tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste programs.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 03/31/2021
Date Made Active in Reports: 06/22/2021
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-6562
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA PART 201: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A	Source: Department of Environment, Great Lakes, and Energy
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A	Source: Department of Environment, Great Lakes, and Energy
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A	Source: Department of Environment, Great Lakes, and Energy
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/28/2021
Number of Days to Update: 78

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LENOX CENTER
100 LENOX STREET
DETROIT, MI 48215

TARGET PROPERTY COORDINATES

Latitude (North):	42.356546 - 42° 21' 23.57"
Longitude (West):	82.9413 - 82° 56' 28.68"
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	340119.4
UTM Y (Meters):	4690975.5
Elevation:	577 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6066652 BELLE ISLE, MI
Version Date:	2014

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

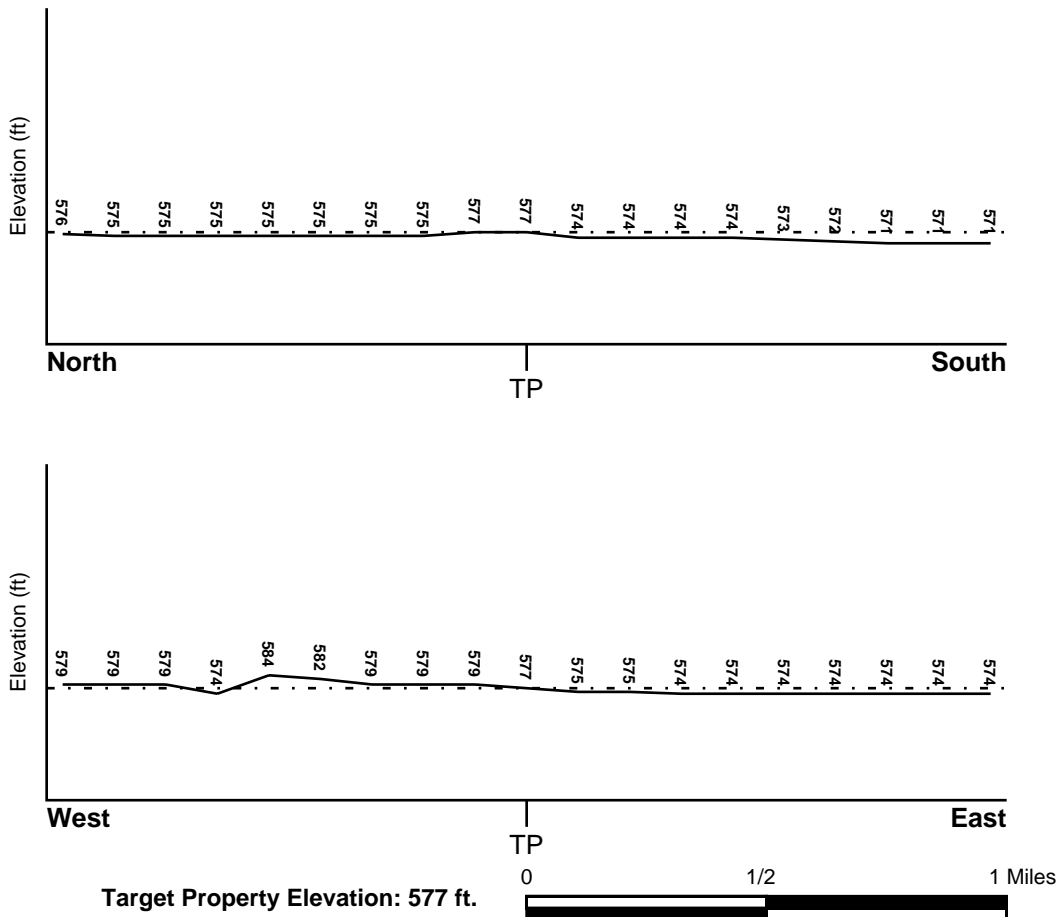
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
26163C0302E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
26163C0306E	FEMA FIRM Flood data
26163C0304E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
BELLE ISLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Paleozoic
System: Devonian
Series: Middle Devonian
Code: D2 (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

No detail available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
<u> </u>	<u> </u>	<u> </u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

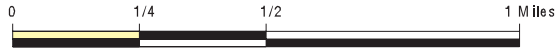
STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
<u> </u>	<u> </u>	<u> </u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 6609301.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Lenox Center
 ADDRESS: 100 Lenox Street
 Detroit MI 48215
 LAT/LONG: 42.356546 / 82.9413

CLIENT: ATC Group Services LLC
 CONTACT: Andrew Temerowski
 INQUIRY #: 6609301.2s
 DATE: August 06, 2021 10:29 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Zipcode	Test Date	LT Sign	Result
48215	8/3/2007		0.7
48215	8/3/2009		0.9
48215	11/16/2009	<	0.3

Federal EPA Radon Zone for WAYNE County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for WAYNE COUNTY, MI

Number of sites tested: 159

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.853 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.398 pCi/L	97%	3%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

The data in this file was obtained from Wellogis, the Michigan Department of Environmental Quality Statewide Groundwater Database (SGWD). Wellogis contains approximately 425,000 water well records found within the State of Michigan, and although it represents the best available data, it cannot be considered a complete database of all the wells or well records in existence. Locations of verified municipal and private water well sites compiled from Michigan Department of Public Health, Water Well and Pump Records. Available in the following MI counties: Calhoun, Eaton, Genesee, Ingham, Jackson, Kalamazoo, Kent, Midland, Muskegon, Oakland, Ottawa, Saginaw, St. Clair, Washtenaw.

OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells

Source: Department of Environmental Quality

Telephone: 517-241-1528

Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

RADON

State Database: MI Radon

Source: Department of Environmental Quality

Telephone: 517-335-9551

Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality

Telephone: 517-335-8037

These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX F
AERIAL PHOTOGRAPHS



Lenox Center

100 Lenox Street

Detroit, MI 48215

Inquiry Number: 6609301.5

August 06, 2021

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/06/21

Site Name:

Lenox Center
100 Lenox Street
Detroit, MI 48215
EDR Inquiry # 6609301.5

Client Name:

ATC Group Services LLC
46555 Humboldt Drive
Novi, MI 48377
Contact: Andrew Temerowski



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1999	1"=500'	Acquisition Date: March 28, 1999	USGS/DOQQ
1997	1"=500'	Flight Date: May 04, 1997	DTE
1981	1"=500'	Flight Date: October 17, 1981	DTE
1973	1"=500'	Flight Date: July 17, 1973	USDA
1967	1"=500'	Flight Date: March 29, 1967	USGS
1961	1"=500'	Flight Date: May 24, 1961	DTE
1956	1"=500'	Flight Date: April 13, 1956	DTE
1952	1"=500'	Flight Date: April 16, 1952	DTE
1949	1"=500'	Flight Date: April 28, 1949	DTE
1937	1"=500'	Flight Date: July 23, 1937	USDA

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INQUIRY #: 6609301.5

YEAR: 2016

— = 500'





INQUIRY #: 6609301.5

YEAR: 2012

— = 500'





INQUIRY #: 6609301.5

YEAR: 2009

— = 500'





INQUIRY #: 6609301.5

YEAR: 2005

— = 500'





INQUIRY #: 6609301.5

YEAR: 1999

— = 500'





INQUIRY #: 6609301.5

YEAR: 1997

— = 500'

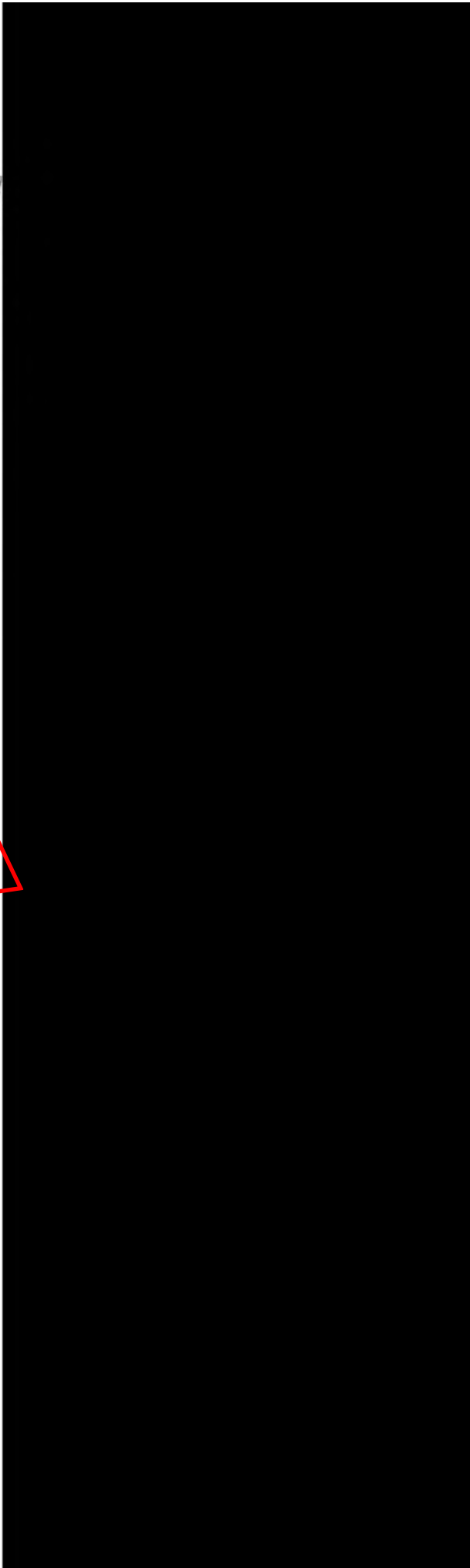




INQUIRY #: 6609301.5

YEAR: 1981

— = 500'





INQUIRY #: 6609301.5

YEAR: 1973

— = 500'





INQUIRY #: 6609301.5

YEAR: 1967

— = 500'





INQUIRY #: 6609301.5

YEAR: 1961

— = 500'





INQUIRY #: 6609301.5

YEAR: 1956

— = 500'





INQUIRY #: 6609301.5

YEAR: 1952

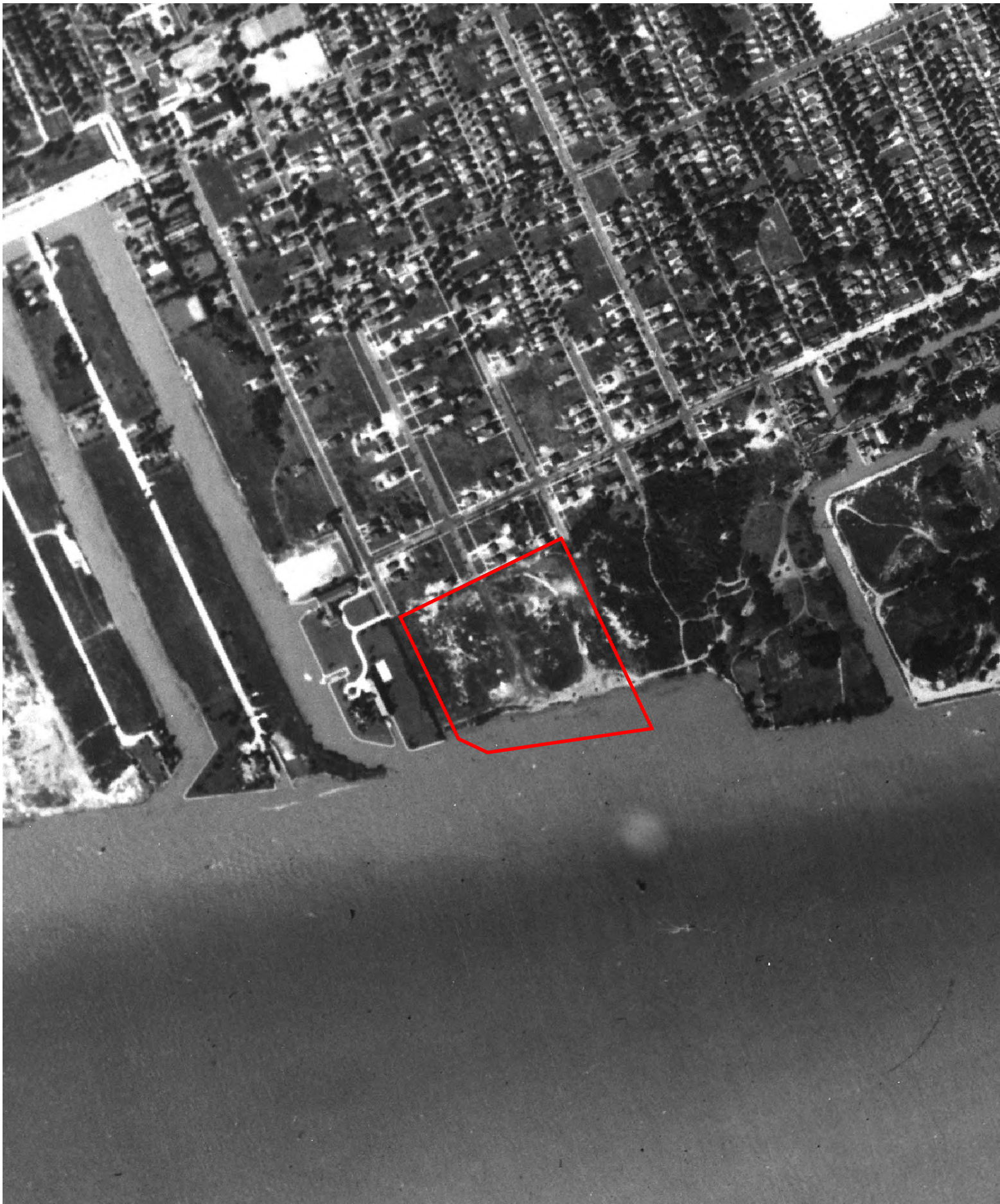
— = 500'





INQUIRY #: 6609301.5
YEAR: 1949
= 500'





INQUIRY #: 6609301.5

YEAR: 1937

— = 500'





APPENDIX G
HISTORICAL RESEARCH DOCUMENTATION

Lenox Center

100 Lenox Street
Detroit, MI 48215

Inquiry Number: 6609301.6
August 11, 2021

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1987	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bresser's Cross-Index Directory Company
1982	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bresser's Cross-Index Directory Company
1977	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bresser's Cross-Index Directory Company
1972	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bresser's Cross-Index Directory Company
1967	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bresser's Cross-Index Directory Company
1962	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bresser's Cross-Index Directory Company
1957	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bresser's Cross-Index Directory Company
1954	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1940	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1935	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1931	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory

EXECUTIVE SUMMARY

Year Target Street Cross Street Source

FINDINGS

TARGET PROPERTY STREET

100 Lenox Street
Detroit, MI 48215

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

LENOX ST

2017	pg A1	EDR Digital Archive
2014	pg A3	EDR Digital Archive
2010	pg A5	EDR Digital Archive
2005	pg A7	EDR Digital Archive
2000	pg A9	EDR Digital Archive
1995	pg A11	EDR Digital Archive
1992	pg A13	EDR Digital Archive
1987	pg A15	Bresser's Cross-Index Directory Company
1987	pg A16	Bresser's Cross-Index Directory Company
1982	pg A18	Bresser's Cross-Index Directory Company
1982	pg A19	Bresser's Cross-Index Directory Company
1977	pg A22	Bresser's Cross-Index Directory Company
1977	pg A23	Bresser's Cross-Index Directory Company
1972	pg A26	Bresser's Cross-Index Directory Company
1967	pg A28	Bresser's Cross-Index Directory Company
1967	pg A29	Bresser's Cross-Index Directory Company
1962	pg A31	Bresser's Cross-Index Directory Company
1957	pg A33	Bresser's Cross-Index Directory Company
1954	pg A35	Polk's City Directory
1940	pg A38	Polk's City Directory
1935	pg A41	Polk's City Directory
1935	pg A42	Polk's City Directory
1931	pg A44	Polk's City Directory

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

RIVERSIDE DR

2017	pg. A2	EDR Digital Archive
2014	pg. A4	EDR Digital Archive
2010	pg. A6	EDR Digital Archive
2005	pg. A8	EDR Digital Archive
2000	pg. A10	EDR Digital Archive
1995	pg. A12	EDR Digital Archive
1992	pg. A14	EDR Digital Archive
1987	pg. A17	Bresser's Cross-Index Directory Company
1982	pg. A20	Bresser's Cross-Index Directory Company
1982	pg. A21	Bresser's Cross-Index Directory Company
1977	pg. A24	Bresser's Cross-Index Directory Company
1977	pg. A25	Bresser's Cross-Index Directory Company
1972	pg. A27	Bresser's Cross-Index Directory Company
1967	pg. A30	Bresser's Cross-Index Directory Company
1962	pg. A32	Bresser's Cross-Index Directory Company
1957	pg. A34	Bresser's Cross-Index Directory Company
1954	pg. A36	Polk's City Directory
1954	pg. A37	Polk's City Directory
1940	pg. A39	Polk's City Directory
1940	pg. A40	Polk's City Directory
1935	pg. A43	Polk's City Directory
1931	-	Polk's City Directory
		Street not listed in Source

City Directory Images

LENOX ST 2017

174 KEYDEL, JASON I
178 CHESTER, MARCUS A
180 WALKER, N
192 OWENS, THEOPHILUS
200 WEST, MARTHA A
204 GALLOWAY, KIMBERLY
208 DEANS, STARR D
212 PALMORE, J
222 COKER, ERROL E

RIVERSIDE DR 2017

174	MARRS, LUDIA E
187	ARCHER, NEVILLE R
190	HOWARD, DOROTHY L
191	GRANT, KEITH
202	FOSTER, PAULETTE A
203	WILSON, ROBERT
206	BUTLER, DONALD L
207	DOCK, JAMES C
212	DAVIS, SIDNEY E
213	ESKEW, SHEILA D
217	WINN, JULIEN L
222	JOHNSON, DEON
223	WATT, JONATHAN B
228	BAKER, NORMAN G
229	KEMP, BERNIE

LENOX ST 2014

174	KEYDEL, JASON I
180	HOSTENY, JAMES J
192	TATE, COLEMAN A
200	WEST, MARTHA A
204	DANN, MARY S
	MEANS, QUAYSHAWN
	MOORE, DALE M
208	DEANS, STARR D
212	OCCUPANT UNKNOWN,
222	COKER, ERROL E
228	OCCUPANT UNKNOWN,

RIVERSIDE DR 2014

174	MARRS, CHARLES E
175	MAYS, LORINE C
181	MASON, JOSEPH J
187	ARCHER, SARAI
190	OCCUPANT UNKNOWN,
191	GRANT, KEITH
202	FOSTER, PAULETTE A
203	STREETY, JULIUS G
206	BUTLER, ARDELL
207	DOCK, JAMES C
212	DAVIS, SIDNEY E
213	ESKEW, SHEILA D
216	OCCUPANT UNKNOWN,
217	WINN, JULIEN L
218	EARLY, THERESA L
	GLOVER, SHARKIA A
	JOHNSON, ELLEN
222	JOHNSON, VINA
223	WATT, JONATHAN B
228	BAKER, NORMAN G
229	KEMP, DEBORAH L



-

LENOX ST 2010

174	KEYDEL, JASON I
180	KNAPP, STEPHEN M
188	DURRAH, ALICIA
192	GRAVES, WILLIAM E
200	WEST, MARTHA A
204	DOSS, J
	WEST, SHARICE
212	PALMORE, SAMUEL J
222	COKER, EARL F
228	CRIBBS, REGINALD M

RIVERSIDE DR 2010

174	MARRS, CHARLES E
175	PARKER, BUNIA L
180	OSGOOD, RAFELIA M
181	MASON, JOSEPH J
184	WILLIAMS, KEILA T
187	ARCHER, NEVILLE R
190	HOWARD, JEFFREY V
191	HOUTHOFFD, KEITH
202	FOSTER, PAULETTE A
203	STREETY, MICHELE R
206	BUTLER, DONALD L
207	DOCK, JAMES C
212	DAVIS, SIDNEY E
213	LATTIMER, JAMES W
216	FORD, BEVERLY A
218	EARLY, THERESA L
	GLOVER, SHARKIA A
	GRIGGS, Y
	JOHNSON, ELLEN
223	WATT, JONATHAN B
228	BAKER, ALMA
229	KEMP, JR

LENOX ST 2005

100 CITY OF DETROIT
174 BISHOP, SUSANNE
180 SERVICE CHRISTMAS CORNER GO THE GAME
SRVC CHRSTM CRNR GO THE GAME
188 DURRAH, ALICIA
192 TATE, DEBRA F
204 GALLOWAY, ELISA
GALLOWAY, KIMBERLY
208 DEANS, STAR
LEWIS, VALERIE A
212 PALMORE, JOSEPH H
222 COKER, EARL F
228 JOHNSON, MATTIE

RIVERSIDE DR 2005

174	MARRS, CHARLES E
175	PARKER, BERNARD
180	OSGOOD, RAFAELA M
184	BURNSIDE, BEVERLY
187	ARCHER, NEVILLE R
190	POOLE, MICHELLE
191	GRANT, JULIE A
200	STEVENS, CALVIN
202	FOSTER, PAULETTE A
203	STREETY, JULIUS G
206	BUTLER, JR
207	DOCK, JAMES C
212	DAVIS, SIDNEY E
213	LATTIMER, JAMES W
216	MCFARLIN, DESHAWN A
217	WINN, JULIEN
223	WATT, JONATHAN B
228	BAKER, VERNETTA S
229	KEMP, BENNIE J

LENOX ST 2000

100	DETROIT CITY OF
138	COLEMAN, COLLEEN
174	KEYDEL, CONRAD K
178	MILLER, JAMES
180	KNAPP, STEPHEN
188	BANKS, KARLA
192	GRAVES, WILLIAM
208	LEWIS, VALERIE
212	PALMORE, SHARON A
222	COKER, ANNIE L
228	WATKINS, KIM Y

RIVERSIDE DR 2000

174	MARRS, CHARLES
175	DENNARD, T
191	GRANT, KEITH
	HOUTHOOFD, JULIE
200	MICCHELLI, JOSEPH
202	FOSTER, PAULETT
	JACKSON, LEROY
206	BUTLER, CHARLIE
212	MCCAMEY, KRISTA
213	LATTIMER, JAMES
216	GILMORE, RENEE
218	MCDUFFY, EVA
223	WATT, K
229	KEMP, EUGENE

LENOX ST 1995

100	DETROIT RECREATION CTR
178	MILLER, JAMES
180	KNAPP, STEPHEN
188	SAAD, GEORGE J
200	JOHNSON, LOUISE
204	OCCUPANT UNKNOWNN
208	MITCHELL, ALICE
222	COKER, EARL F
228	OCCUPANT UNKNOWNN

RIVERSIDE DR 1995

174 MARRS, CHARLES
175 JOHNSON, JOSEPH
181 MASON, ANNIE L
187 ARCHER, NEVILLE R
191 GRANT, KEITH
HOUTHOOFD, JULIE
202 FOSTER, P
WINSTON, ANITA
203 OCCUPANT UNKNOWNN
206 BUTLER, CHARLIE JR
207 DOCK, JAMES C
212 DAVIS, SIDNEY E
213 OCCUPANT UNKNOWNN
216 OCCUPANT UNKNOWNN
217 BUTLER, ARDELL
218 MCDUFFY, EVA
223 WATT, K
228 OCCUPANT UNKNOWNN
229 KEMP, EUGENE JR

LENOX ST 1992

100	HANDICAPPD REC CTR
180	KNAPP, STEPHEN
188	SAAD, GEORGE J
192	GORDON, CHARLES W
200	JOHNSON, LOUISE

RIVERSIDE DR

1992

175	JOHNSON, JOSEPH
187	ARCHER, NEVILLE
202	FOSTER, P
206	BUTLER, CHARLIE JR
218	MCDUFFY, EVA
223	WATT, K
228	BAKER, NORMAN
229	KEMP, EUGENE JR

LENOX ST 1987

19535

675 RESIDENCE

NP

7 BUSINESS

● LENOX

48215

●●	1-	499	T	5133	\$B●●D10
●●	500-	999	T	5134	\$D●●D10
●●	1000-	2499	T	5128	\$D●●D 9
●●	2500-	3899	T	5127	\$D●●D 9
●●	3900-	4999	T	5123	\$D●●C 9
●●	5000-	6133	T	5121	\$C●●C 9

100*HANDICAPPED REC CN 2677145

174

NP

178 EMMA CHESTER

8●8232135

R PHOTOCOPIED IN ANY MANNER WHATSOEVER EXCEPT AS

LENOX ST 1987

		LENOX	
180	STEPHEN KNAPP	4	3313190
	JUDITH TALLENT		□8233827
188	GEORGE J SAAD		8219044
192	HOWARD C BEST	2	8233606
	CHARLES W GORDON		□8228234
200	LOUISE JOHNSON	3	3316473
204	HERMAN MARVIN JR	4	3310519
212	222	NP	
228	REGINALD CRIBBS	3	8235008
232		NP	
236	PAUL BISLAND		-8246062
240	BECKY HENNIG	5	8243255
244	JACK CONRAD		□8225687
246		NP	
248	C J RICHARDSON	5	•3316586
252		NP	
256	PATRICK D HEDEMARK		□3312869
264	RANDY MEIER	3	8227316
	J P TRIVEDI	4	8241494
274	BRIAN MITCHELL	3	3317651
278	280 284 294	NP	
296	300 310 318	NP	
334		NP	
342	S FOUTNER	7	8230485
348	BRIAN BLOCH		□3313614
356	VERNELL TARVER		-8231235
364		NP	
370	KRISHNA HARE	1	8246000
	*INTL SOC FR KRSHNA		8246000
	NAVEEN KRISNADAS	9	8243083
	RANDALL MEIER	1	8221728
376	WALTER WILLIAMS SR	3	8223405
383	*8HAKTIVEDANTA CTR		3316740
	*FISHER MANSION		3316740
	*ASHRAM TELEPHONE		8249119
	*INT KRISHNA GOVIND		3316740
	R MEIER	0	8231684
	*VIDYA INTRNATL		□3313980
396	409 413 425	NP	
429	435 766 1022	NP	
1037	1038 1040 1044	NP	
1046		NP	
1047	GRADY W CASTILE		•8216999
1056	1058 1070 1071	NP	
1072	1090	NP	
1094	JAVE THOMAS		3310783
1095	1096 1097 1101	NP	
1103		NP	
1107	M Y SIPARI		3316497
1109	1110	NP	
1112	ANTONIO JACKSON		□8236847
1115	1117	NP	
1118	J T ROBINSON		•8216082
1120	1122 1124	NP	
1126	EARL STEWART		3316583
1128	SHEILA M THOMAS		□8246507
1131		NP	
1132	CATHERINE C FLACK	8	3314257
1134	1136	NP	
1138	LUCILLE BUTTS		8224660

RIVERSIDE DR 1987

6						1267
7						1267
9	●	RIVERSIDE DR			48215	
9						1267
2	●●	100- 299 T 5133			\$B●●D10	1289
3		174		NP		
1		175 JOSEPH JOHNSON			4●8231326	1269
1		180 181 184		NP		1270
2		187 TRAVIS HENDERSON			4 8233751	1271
1		190 191 202 203		NP		1271
8		206 CHARLIE BUTLER JR			●8215880	1272
0		207 212		NP		1272
7		213 R A FAIRBANKS			●8211971	1273
5		216 CHAS R ALLARD JR			□8228120	1273
0		217 R L SABBATH			□8221065	1280
0		218 222		NP		1280
2		223 K WATT			4●8242535	1280
8		228 NORMAN BAKER			2 3312849	1281
0		229 EUGENE KEMP JR			8225780	1281
9		232 233		NP		1282
9		239 JOHN D FERGUSON			□8220921	1282
2		242 THOMAS JONES			8247635	1284
7		243 VERA MAE WORTHY			●8248977	1284
6		248 W LLOYD			1 8225498	1285
4		249 252 255 258		NP		1285
2		259		NP		1285
6		263 E C ALLEN			8●3314432	1286
5		264 MCKINLEY FRENCHER			●8242605	1286
8		269 M R MULDAUR			8222636	1287
3		270 KARL E ACKERMANN			8215798	1287
0		272 ALYCE AZIZI			-8248552	1288
3		274 275 278 281		NP		
7		284		NP		1288
2		285 WILLIAM MCCALL			3318864	1289
2		288 291 294		NP		1290
5		295 THOMAS H GALLAGHER			8228776	1290
5		47 RESIDENCE				1290
6						1290
1	●	RIVER TOWERS			48214	1291
4						1291
7		SEE 2800 JEFFERSON				1292

LENOX ST 1982

676 RESIDENCE

16 BUSINESS

LENOX

48215

...	1-	499	T	752	SC..012	1
...	500-	999	T	754	SE..012	1
...	1000-	2499	T	779	SO..011	2
...	2500-	3299	T	780	SO..C11	2
...	3900-	4999	T	781	SO..C11	2
...	5000-	6199	T	787	SC..C11	2
100*	HANDICAPPED REC CTR			2677	145	2
174	LAWRENCE J CZAPLA			6	3311176	2
	*PHIFER WIRE PROO				3313700	2
178	EMMA CHESTER			8.	8232135	2
180*	DEVASADHAN YOGA				8229607	2
183						2
188	GEORGE J SAAD				8219044	2
189						2
200	ERIC BRAADLEY			0.	8235562	2
204						2
208	ANGELI K MOULTRIE				8241229	2
212						2
222	ANNIE LOIS COKER			5.	8232370	2
	EARL COKER			5.	8232370	2
228	232					2
236	RANDALL MEIER			7	3315334	2
240						2
244	NAVEEN KHURANA				-3317079	2
246	PIYUSH DESAI			0	8232242	2
248	PETER G MCPHAIL				.3313292	2
252	JAMES M SHERWIN				.8223836	2
256	ROBERT E HASKETT				8214423	2
264	JOHN LARSON				8248618	2


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LENOX ST 1982

PAGE	358	CROSS ST CR
9	264	BRUCE TASSINARE 8 3311479
1	274	C LARSON #8225188
1	278	280 284 294 NP
	296	300 310 318 NP
3	334	NP
0	342	S FOUTNER 7 8230485
	348	NAVEEN KHORANA 9 8249308
0	356	364 NP
8	370	KRISHNA HARE #8246000
9		*INTL SOC FR KRSHNA 8246000
2		NAVEEN KRISNAOAS 9 3310130
5		RANOALL MEIER #8221728
3	376	BROWNIE L WILLIAMS #8223405
1	383	*HEALTHY WLTHY&WISE #8240077
4		*INTL KRISHNA CSCNS 8249119
0		NAVEEN KRISNAOAS 9 8243083
6		R MEIER 0 8231684
6		J SPRINGER #8243575
7	396	NP
5	409	MICHAEL E MULLINS 5.8231582
8	413	ERNEST MANSEAU .8248154
5	421	425 429 NP
7	435	PHYLLIS WINSTON 0 8210062
3	476	553 561 569 NP
3	572	584 627 639 NP
9	641	695 697 703 NP
0	705	708 714 721 NP
0	738	760 762 763 NP
6	766	768 774 775 NP
1	781	802 804 814 NP
	826	840 874 883 NP
1	894	931 1022 1035 NP
8	1037	NP
1	1038	OSCAR GLEATON 9 8234820
7	1040	1044 1046 NP
6	1047	GRADY W CASTILE .8216999
8	1056	1058 1070 1071 NP
6	1072	1090 NP
8	1094	JAVE THOMAS 6 8222560
6	1095	1096 1097 1101 NP
1	1103	NP
0	1107	M Y SIPARI 3 3316497
8	1109	1110 NP
5	1112	DEBORAH GRIER -3310197
9	1115	NP
4	1117	CALVIN BELL -8211636
7	1118	J T ROBINSON .8216082
	1120	NP
1	1122	ROSETTA COOK 2 3312213
	1124	NP
1	1126	EARL STEWART 2 3316583
7	1128	1131 NP
1	1132	CATHERINE C FLACK 8 3314257
1	1134	NP

RIVERSIDE DR

1982

5	58 RESIDENCE	5 BUSINESS
6	 RIVERSIDE DR	48215
3		
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	174 175 180 181	NP
	184	NP
2	187 LAURA T SMITH	8213691
	190	NP
4	191 G J KIRCHNER	0.8225101
5	202	NP
5	203 LESLIE P BYCRAFT	8222449
	206 CHARLIE BUTLER JR	2.8215880
	207 NATHANIEL BROWN	9 3317513
5	212	NP
	213 R A FAIRBANKS	.8211971

T AS AUTHORIZED IN WRITING BY THE PUBLISHER

RIVERSIDE DR 1982

RIVERSIDE DR 1982 DETROIT

..... 48215
 216 WILLIAM BUTTS 0 8240370
 217 NP
 218 HARVEY J VALLIER 8245158
 222 223 228 NP
 229 EUGENE KEMP JR 5 8225780
 232 233 239 NP
 242 THOMAS JONES 3 8247635
 243 JAMES C WORTHY 0 8243760
 VERA MAE WORTHY 2.8248977
 248 W LLOYD #8210289
 252 NP
 255 ALLAN G LUMLEY .8222685
 258 259 NP
 263 E C ALLEN 8.3314432
 264 MCKINLEY FRENCHER 3.8242605
 269 M R MULDAUR 8222636
 270 KARL E ACKERMANN 8215798
 272 274 275 NP
 278 REGINALD CRIBBS 7 8235006
 ROBERT E LOUIS 9 8225141
 281 284 NP
 285 WILLIAM MCCALL .3318864
 288 291 294 NP
 295 THOMAS H GALLAGHER 8228776
 48 RESIDENCE

● RIVERVIEW AVE 48239

LENOX ST 1977

688 RESIDENCE

9 BUSINESS

● LENOX

4821S

8
7
6
5
4
3
2
1
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7
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...	1-	499	T	752	\$C..D12
...	500-	999	T	754	\$E..012
...	1000-	2499	T	779	\$D..011
...	2500-	3299	T	780	\$O..C11
...	3900-	4999	T	781	\$D..C11
...	5000-	8999	T	787	\$C..C11
FT DF	*HANDICAPPD	REC	CTR	82300S4	
174	LAWRENCE J	CZAPLA	6	3311176	
178	STAN	CHESTER	3	823213S	
180	MANU G	PATEL		8229607	
183	J	THORNBURY	3	3314206	
188	GEORGE J	5AAO		8219044	

LENOX ST 1977

CROSS-INDEX DIRECTORY		PAGE	
4	189	EUGENE ELMER	2 8228254
1		GLENDON H ROBERTS	4 8248018
8		RICHARD YDST	0 8228254
	200	PERRY V BRADLEY	9 8225218
0	204	LINO SPRUIEL	□8240151
S	208	RANDALL CIESLAK	□3312045
6		BARBARA RIAS	6 8233787
	212		NP
	215		NP
7	217		NP
1	222	ANNIE LOIS CDKER	S.8232370
1		EARL CDKER	S.8232370
	228		NP
3	232		NP
0	234		NP
0	236	RANDALL MEIER	□3315334
8	240		NP
9	244	NAVEEN KHURANA	□3317079
3	246		NP
1	248	PETER G MCPHAIL	.3313292
4	252	JAMES M SHERWIN	.VA23836
6	256	ROBERT E HASKETT	8214423
6	264	KENNETH BOEHM	6 8232793
1		M VANDERSTRAETEN	6 3312362
1	274	J K FEHIR	3 8214346
7		RDSE HALL	2 8215107
7	278		NP
6	280		NP
	284		NP
8	294	FRANK SALTZMAN	□3318664
9	300		NP
8	310		NP
7	318		NP
8	319		NP
9	334		NP
0	342	S FOUTNER	-8230485
4	348		NP
6	356		NP
9	364	KENNETH L PARRISH	2 8220162
9	370	G ARAM HAMAMJIAN	□3312714
1	376		NP
2	383	*HARE KRISHNA TEMPL	8249119
S		*HARE KRISHNA TEMPL	8246000
7		*INTL KRISHNA CSCNS	8246000
4		*INTL KRISHNA CSCNS	8249119
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	409	MICHAEL LESIAK	6 8231351
	413	ERNEST MANSEAU	.VA48154
9	421	JDE BURNSIDE	3 4991500
9	425	GUSTAVA COOPER	9.821959S
9	429	CHESTER BROWN	6 8243909
5	435	ANNIE DAVENPORT	□3315783
7	437		NP
	449		NP
2	451		NP
2	454		NP

RIVERSIDE DR 1977

6 3 9 7	6 3 9 7	RIVERSIDE DR	48215
7	•••	I- 299 T	752 \$C..D12
	174		NP
7	175	GEDRGE H MCGRAW	S 8230787
7	180	DEAN H OSGDDD	1.8248776
7	181	JOHN A HANCDOCK	.3317299
7	184	H N GATHERIGHT III	16 8240688
3		LESLIE TYUS	6 8225608
	187	LAURA T SMITH	8213691
	190		NP
	191	MICHAEL D SMITH	4 VA25101
7	202	RUSSELL G MARSDEN	.VA43244
6	203	LESLIE P BYCRAFT	8222449
S	206	CHARLIE BUTLER JR	2.8215880
		E JEAN BUTLER	4 3318093

R, OR PHOTOCOPIED IN ANY MANNER WHATSOEVER EXCEPT AS

RIVERSIDE DR 1977

207		NP	
212		NP	
213	R A FAIRBANKS		.VA11971
216		NP	
217		NP	
218	HARVEY J VALLIER		8245158
222	REV LARRY E STIER		1.8216593
223	SIONEY WILSDN		4 8217261
228		NP	
229	EUGENE KEMP JR		5 8225780
232		NP	
233		NP	
239	STARR DEANS		▣8229528
242	THOMAS JONES		3 8247635
243	VERA MAE WDRTHY		2.8248977
248		NP	
249		NP	
252		NP	
255	ALLAN G LUMLEY		0.8222685
258	ROBERT R ELDRED		2.8244832
259		NP	
263	G T ALLEN		1.3314432
264	MCKINLEY FRENCHER		3.8242605
269	M R MULDAUR		8222636
270	KARL E ACKERMANN		8215798
272	M FITCH		▣8224763
274		NP	
275		NP	
278	REGINALD CRIBBS		▣8235006
281		NP	
284	ROBERT HARRIS		-3317791
285	RICHARD MARCOLINI		-8222638
	WILLIAM MCCALL		.3318864
288		NP	
290		NP	
291		NP	
294		NP	
295	THOMAS H GALLAGHER		8228776
	51 RESIDENCE		

● RIVERVIEW AVE 48239

8800-12500 T 84702 4A 0 2

LENOX ST 1972

LENOX		4821S
...	1- 499 T	752 \$C..D12
...	500- 999 T	754 \$O..D12
...	1000- 2499 T	779 \$C..D11
...	2500- 3899 T	780 \$C..C11
...	3900- 4999 T	781 \$O..C11
...	5000- 8999 T	787 \$C..C11
FT OF*CTY HANOICPPPO REC 8230054		
101*	H J THDMSEN 8DAT	823SS17
174	WILLIAM B NOLAN 8	VA31281
180	NELSON ZIMMER	4.3312347
183	JOSEPH MAIULLO III	3314206
	DARRELL LOMAS	-8248076
	EUGENE ELMER	8248076
	*G PITTENGER 8DAT	8248076
188	GEORGE J SAAD	8219044
189	GARY HENRIKSEN	0 8228254
	RICHARD YOST	0 8228254
200	PERRY V BRADLEY	9 8225218
204	CLAYTON A EPHRAIM	0 4992528
208	DENNIS RUSHING	1 4998892
	TIMOTHY MOORE	1.8216328
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215	RUODLF F WIEBE	8 8215737
217	MICHAEL O CARRIER	-8226076
222	ROBERT B MCELROY	6.8223186
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234	WILBERT PURIFOY	.8229589
236	NORMAN P MCELROY	.8243539
240	JOSEPH J HENZE	9.3311062
244		NP
246	LINDA H ROMER	.3311980
248	PETER G MCPHAIL	.3313292
252	JAMES M SHERWIN	.VA23836
256	ROBERT E HASKETT	6 8214423
264	ROBERT R ELSEY	8223315
	NORMAN O GROSSE	8228148
274	ROSE HALL	821S107
	DENNIS M GAUTHIER	8232051
278		NP
280	FREDA O RICHARDSON	0 8219747
294	VIRGINIA ALLEN	-8210499
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310		NP
318		NP
319		NP
334	LYDIA PORTER	0 8220696
348	SPENCER HAIRE	-3318428
356		NP
364	KENNETH L PARRISH	-8220162
370	WILLIAM O SHERMAN	.3318348
376	CHARLES W SCHULTZ	0.8233714
383*	RAOAR OEVICES MFG	VA21002
	*RAOAR SENTRY ALARM	VA21002
396		NP
409	P J HARRINGTON	-3318323
	A ZIPPLE	3318323
	K A KENNY	3318323
	O MELOCHE	3318323
	A LASZLO	3318323
413	ERNEST MANSEAU	.VA48154
421		NP
425	GUSTAVA COOPER	9.821959S
429	LEE ALLEN. HICKS	7.8232416
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437		NP
449		NP
451		NP
472	PATRICK J MCHUGH	.E012S01
476	JOHN F MCHUGH	.8219467
482		NP
486	CLOVIS WOODALL	8212824
492*	APARTMENTS	
	*NMIA	
	I PENOERGRASS	8218324

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RIVERSIDE DR 1972

	RIVERSIDE DR	48215	
9	...	1- 299 T	752 \$C..012
2	174		NP
7	175	GEORGE H MCGRAW	9.8230787
	180	DEAN H OSGOOD	1.3310614
	181	JOHN A HANCOCK	.3317299
5	184		NP
6	187	LAURA T SMITH	8213691
3	190	MRS E E DEVIEW	4.VA14407
9		ROBERT S FISK	4 8214407
4	191	EDWARD S SMITH JR	.VA25101
7	202	RUSSELL G MARSDEN	.VA43244
	203	LESLIE P BYCRAFT	VA22449
	206	CHARLIE BUTLER JR	-8215880
4	207		NP
1	212		NP
9	213	R A FAIRBANKS	.VA11971
3	216	WILLIAM SUNOSTRCM	□3316403
7		JOHN M BERGMAN	□3316403
5		WILLIAM H GILROY	□3316403
	217		NP
	218	HARVEY J VALLIER	8245158
9	222	LEWIS MCCANTS JR	-3313605
	223	JAMES L WILSON	□8212826
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1	229	BRENT D PERRY	-8236839
2	232		NP
5	233	REV LARRY E STIER	1.8216593
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7	243	VERA MAE WORTHY	-8236914
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3	249	CLAUD E PACE	-4992661
3	252		NP
8	255	ALLAN G LUMLEY	0.8222685
8	258	ROBERT R ELOREO	□8244832
	259		NP
	263	G T ALLEN	1.3314432
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	269	M N MULGAUR	8222636
2	270	KARL E ACKERMANN	3 8215798
7	272	P G SCHIESLER	.VA44969
	274	KENNETH M STILWELL	.VA27387
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		RONALD T ROBBINS	1 8249649
6	281	EASTER M GARVIN	-8218206
	284	S K BARR	-8233437
5		JAMES O OSMER	1 8244453
8		CHARLENE BLOCK	□8233437
1		N WILK	□8233437
0	285	CRAIG A EILER	0 8211928
1		WILLIAM MCCALL	7 3318864
0	288		NP
	290		NP
	291		NP
5	294		NP
	295	THOMAS H GALLAGHER	8228776
2		55 RESIDENCE	
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9	RIVERVIEW AVE	48239	1

LENOX ST 1967

597 RESIDENCE 5 BUSINESS

LENOX

48215

•••••	100-	499	TZ	390	\$B.	.012
101	LARRY E	PARSONS	5	8216910		
	HOWARD J	THOMSEN	6	8235517		
174	FRANK J	GUTHEIL	4	VA31281		
	H G	HILLER	5	VA31281		
178	M E	EARLY	6	VA40396		
180	JANE	BARRETT	5	3312347		
	NELSON	ZIMMER	4	3312347		
183	GLENDON H	ROBERTS	1	VA39653		
188	GEORGE J	SAAD		VA19044		
189	HENRY	HENRIKSEN	5	8222672		
200	EDWARD	SCHEMKE		VA22343		
204	FRANCES I	KIRCHNER		8229885		

LENOX ST 1967

	FRANK J KIEFFER	VA47209
208		NP
212	RALPH G CLARK	5.8225746
215	E M BAILEY	8 ED15908
	MAGDALEN MATICK	7 VA32183
217	WILLIAM A BAILEY	.ED16491
222	ROBERT B MCELROY	6 8223186
228	M RACKSTRAW	8223911
232	JOSEPH L KOONS	.8230672
236	NORMAN P MCELROY	9.8245718
240	I F BALLBACH ATTY	VA27936
241	WALLACE J GOYETTE	VA42785
	THOMAS W MCKENNA	6 8218760
244	ERNEST W TAYLOR	6 8223447
246	LINDA H ROMER	.ED11980
248	DR PETER G MCPHAIL	3313292
252	JAMES M SHERWIN	VA23836
256	ROBERT E HASKETT	6 8214423
264		NP
274	DAVID V GLEASON	2 3315602
	J A MENNER	VA27744
277	EDITH TAYLOR RN	VA29141
278	CHARLES W OHNO	-8234595
279	FRANK N KLUPP	VA49545
280	E J RICHARDSON	6 8232699
	FREDA D RICHARDSON	.VA19747
284	ROBERT A ROSE	4 8222086
	F A MEEHAN	.VA25988
294	WILLIAM CARLTON	3 8240952
	JAMES FOX	4 8215982
300	JUDGE REDDICK	6 8233454
310		NP
315		NP
318	WALTER E WILLIAMS	6 8221284
319	DOUGLAS H BROWN	0 VA47172
334	MARY L BROCKETT	0 3316563
	RUTH M STOOPS	4 3316563
342	JAMES A BRECKELS	.VA16742
348	KATHLEEN COFFEY	6 8240548
	CARL MACDERMOTT	0.VA27904
	ALICE C RYAN	2 8240548
356	JOSEPH CIRILLO	9 VA45059
364	DON F BAULCH	VA27416
370	WILLIAM D SHERMAN	.ED18348
376	FRANK X NORRIS	.VA23678
383	LAWRENCE P FISHER	VA21002
396	JAMES B MCCLUSKEY	.ED16659
409	EDGAR CHAPAGNE	8230965
413	ERNEST MANSEAU	.VA48154
421	WILLIAM H CUSTER	.ED15173
425	WALLACE MENCIVAGE	3 3316919
	JAMES A LOPSZATIS	ED18477
429	LEE ALLEN HICKS	8232416
435		NP
437		NP
441		NP
445	JOHN A JUNGA	.VA15309

RIVERSIDE DR 1967

RIVERSIDE DR 48215

..: 1- 299 TZ 390 \$0.012
 174 FRANK GRZANKA .VA19060
 175 RICHARD COURY .VA28204
 180 WM C HENTSCHEL .VA23359
 181 JOHN A HANCOCK 2.3317299
 184 FRANK J DROGOSCH .ED10161
 187 LAURA T SMITH VA13691
 190 MRS E E DEVIEW 4.VA14407
 ROBERT S FISK 4 VA14407
 191 EDWARD S SMITH JR .VA25101
 202 RUSSELL G MARSDEN .VA43244
 203 LESLIE P BYCRAFT 9 VA22449
 206 JOSEPH VENTIMIGLIA.8246432
 207 JOHN E MCFATRIDGE ED17580
 212 NADA BLACKBURN 6 8249449
 213 R A FAIRBANKS .VA11971
 216 NP
 217 NP
 218 HARVEY J VALLIER 2 8245158
 222 I GRANT #8243112
 223 T D BONNELL 0.VA40363
 229 MARK A LOUSH 2.8217779
 232 JOHN R DUBOIS .ED18019
 233 C J FLEMING .VA29158
 239 DOMINIC SCICLUNA 6 8226385
 242 WM L PASQUINELLI 4.8231352
 243 JAMES P HOBAN 7.VA15770
 248 EDWARD R KMETZ 8231837
 249 CHARLES C DICKSON2.3311183
 252 WALTER T LUMLEY .VA10539
 255 WILLIAM D KANE 3.8229685
 258 PETER B HODDE .VA22671
 259 M H SULLIVAN 6 3313173
 263 E C SHAW 3 3314432
 264 TIMOTHY K CARROLL #8234415
 269 M N MULDAUR VA22636
 270 CARL R WILGUS 3.8215798
 KARL E ACKERMANN 3 8215798
 272 P G SCHIESLER 8.VA44969
 274 KENNETH M STILWELL.VA27387
 K M STILWELL 4 3314909
 275 NP
 278 ANTONIA DRAGONAS #8229741
 HAROLD ROBINSON 6 8235394
 281 JAMES H TUTTLE 5 3311669
 284 J SCHEHL .8217728
 ALBERT T QUICK 6 8234701
 285 WILLIAM MCCALL #3318864
 GLENN MATHEWS JR 6 8245131
 288 JEROME MAISANO 3 8233073
 290 NP
 291 A S GELARDI ED10689
 294 NP
 295 THOMAS H GALLAGHER 7 VA28776

53 RESIDENCE

RIVERVIEW AVE 48239

..... 8800-12599 TZ 450 \$A. D 2

LENOX ST 1962

	556 RESIDENCE	9 BUSINESS
1	LENOX	
5	ZONE 15	
5 100- 499 TZ 390	\$B..D12
2	101 THOMAS TRIPP	VA29572
8	CHARLES C CREEDON	VA26015
7	DEWITT E TAYLOR JR	VA26015
9	174 C ED HILLER	.VA31281
6	178 JAMES B EARLY	.VA40396
2	180 H DAVID KARLSON	VA28353
7	183 GLENDON H ROBERTS	VA39653
9	188 GEORGE J SAAD	VA19044
6	189 D M DAVIDSON	VA20262
6	200 EDWARD SCHEMKE	VA22343
6	204 FRANK J KIEFFER	VA47209
6	208 GLENN W SMITH	-8227265
1	212 F A SMARCH	.VA26578
2	215 MAGDALEN MATICK	VA32183
8	E M BAILEY	ED15908
8	217 WILLIAM A BAILEY	.ED16491
6	222*US MARINE SALVAGE	8225561
6	JOSEPH H CAROLLO	VA25518
7	228 MABEL RACKSTRAW	VA23911
8	232 ANN BRISBOIS	-8230635
	JOSEPH L KOONS	.VA30672
1	236 NORMAN P MCELROY	.VA49998
8	240*I F BALLBACH ATTY	VA27936
3	241 DR PETER MCPHAIL	VA32170
5	W J GOYETTE	VA42785
5	244 GERALD REASONER	-8224529
4	246 LINDA H ROMER	.ED11980
5	248 FRANCES I KIRCHNER	8229885
8	252 JAMES M SHERWIN	VA23836
4	256 T B KENVIN	-8244091
2	264 ROBERT W WILKERSON	ED17474
	GROVER CHILDRESS	-8247926
5	274 DAVID V GLEASON	-3315602
9	J A MENNER	VA27744
3	277 EDITH TAYLOR	VA29141
1	STEFAN M POTH	VA10595
5	278 HAROLD A HOGAN	VA44701
4	279 FRANK N KLUPP	VA49545
4	280 FRED A RICHARDSON	VA19747
5	284 JAMES MOONEY	VA10210
5	F A MEEHAN	.VA25988
2	294 WM S GREEN	.ED10980
2	310 MARY BASICH	.VA31589
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8	JERRY J MULLIN	-8232037
8	PETER THOMAS	VA14366
1	319 SHELIAH J DORIAN	VA47172
6	DOUGLAS H BROWN	VA47172
9	334	NP
9	342 JAMES A BRECKELS	.VA16742
8	348 ALICE C RYAN	-8240548
3	CARL MACDERMOTT	.VA27904
3	356 JOSEPH CIRILLO	VA45059
4	364 DON F BAULCH	VA27416
2	370 WILLIAM D SHERMAN	.ED18348
9	376 FRANK X NORRIS	.VA23678
8	383 LAWRENCE P FISHER	VA21002
4	396 JAMES B MCCLUSKEY	.ED16659
	409 BERNARD BERGERON	ED12654
	EDGAR CHAMPAGNE	-8230965
5	EDMOND BERGERON	ED12654
4	413 ERNEST MANSEAU	.VA48154
	421 WILLIAM H CUSTER	.ED15173
2	425 JAMES A LOPSZATIS	ED18477
4	JOHN PAUL MOREY	.VA48581
2	429 S PALAZZOLO	-3316745
	441 MATILDA M TRINITY	.VA41536
9	445 JOHN A JUNGA	.VA15309
5	449 MELVIN A SMITH	ED18110
9	451 P S KATSAROS	-VA30933
8	455 CLARK H WOONTON	VA31029
2	457	NP
0	461 IVAN BOROWSKY	.VA29214
5	465 MILDRED HOPKINSON	.ED18002
8	466 DESSA M JOY	.VA16584
9	LILLIAN F BEAUDIN	VA16584
3	468 JOS H KRAMER	.ED13794

RIVERSIDE DR 1962

RIVERSIDE DR ZONE 15

..... TO- 299 TZ 390 \$D..D12
 174 FRANK GRZANKA .VA19060
 175 RICHARD COURY .VA28204
 180 WM C HENTSCHEL .VA23359
 181 JOHN A HANCOCK -3317299
 184 FRANK J DROGOSCH .ED10161
 187 LAURA T SMITH VA13691
 190 NP
 191 EDWARD S SMITH JR .VA25101
 *SMITH SERVICES ED17200
 *BAY CITY FOUNDRY CO ED17200
 202 RUSSELL G MARSDEN .VA43244
 203 LESLIE P BYCRAFT VA22449
 206 JOS VENTIMIGLIA .VA46432
 207 JOHN E MCFATRIDGE ED17580
 212 HAROLD W REDSHAW .VA40853
 213 R A FAIRBANKS .VA11971
 216 SOPHIA GARBARINO .VA43509
 *DET LF UNDRWRTRS -8221918
 217 ALBERT J FISCELLI VA12698
 218 HARVEY J VALLIER -8245158
 222 ISABELLE GRANT VA43112
 223 T D BONNELL .VA40363
 228 CATHERINE MULLIN ED16908
 229 MARK A LOUSH -8217779
 232 JOHN R DUBOIS .ED18019
 233 C J FLEMING .VA29158
 239 F F PIGGINS VA42526
 242 W L PASQUINELLI .VA31568
 243 JAMES P HOBAN .VA15770
 248 EDWARD R KMETZ 8231837
 249 CHARLES C DICKSON -3311183
 252 WALTER T LUMLEY .VA10539
 255 *BROOKLYN WNDW CLNR VA29189
 WILLIAM D KANE .VA29189
 258 PETER B HODDE .VA22671
 259 NP
 263 CLARENCE A SHAW .ED14432
 264 JAMES T OLIVER -8218953
 269 M N MULDAUR VA22636
 272 P G SCHIESLER .VA44969
 274 KENNETH STILWELL .VA27387
 278 ANNA E TIBBITS -8210012
 R A PRINCE -8211298
 281 J SCHEHL .VA17728
 284 GEORGE J GUINDON VA26219
 G A COUNCIL -8212944
 285 WILLIAM MCCALL .VA12721
 288 JEROME MAISANO VA12687
 290 NP
 291 A S GELARDI ED10689
 295 T H GALLAGHER VA28776
 47 RESIDENCE 4 BUSINESS

RIVERVIEW AVE ZONE 39

LENOX ST 1957

LENOX AVE		ZONE 15
101	RON KENNEDY	ED1-7869
	CHARLES C CREEDN	VA2-6015
	DEWITT E TAYLOR JR	VA2-6015
174	C ED HILLER	VA3-1281
178	JAMES B EARLY	VA4-0396
180	MRS JOHN L ERNST	VA2-0084
188	GEDRGE J SAAD	VA1-9044
189	D N DAVIDSON	VA2-0262
180	GLENN O LEASE	VA2-0084
200	EDWARD SCHEMKE	VA2-2343
204	FRANK J KIEFFER	VA4-4209
	CLIFFORD MARBLE JR	VA4-3673
208	RADDIE GDLUSIN	VA2-4993
212	F A SMARCH	VA2-6578
215	JAMES F CRANE	VA3-0168
	MAGDALEN MATICK	VA3-2183
	*CRANE CDNST CO BRH	VA2-3191
	GEORGE C CRANE JR	VA2-3191
217	WILLIAM A BAILEY	ED1-6491
228	MABEL RACKSTR AW	VA2-3911
232	JOSEPH H CAROLLO	VA2-5518
	*U S MARINE SALVAGE	VA2-2561
236	C R SHAW	VA4-4527
240	MRS SAMUEL OUFF	VA4-0929
241	R F WOOBURY	E01-0624
	WALLACE J GOYETTE	VA4-2785
244	MARION VAN ANTWERP	VA2-0944
246	LINDA H RDMER	ED1-1980
248	H DAVID KARLSDN	VA4-7529
252	JAMES M SHERWIN	VA2-3836
256	LILLIAN E SPENCER	VA1-9432
264	LESLIE P BYCRAFT	VA2-2449
	GLEN ROBINSDN	VA2-8404
274	A T SRDWR	E01-71020
	J A MENER	VA2-0744
277	WILLIAM G LOUWERS	VA2-0457
	EDITH TAYLOR	VA2-9141
278	DR PETER MCPHAIL	VA4-2766
	HARDLD A HDGAN	VA4-4701
279	FRANK N KLUPP	VA4-9545
280	FREDA D RICHARDSDN	VA1-9747
284	ARTHUR M MILNE	VA4-6643
	F A MEEHAN	VA2-5988
294	EUGENE MCNIGHT	VA2-5121
	WM S GREEN	ED1-0980
300	*DR F RIEHLMILLER	VA1-8499
310	MARY BASICH	VA3-1589
315	WILLIAM F TALBDT	VA2-8377
318	CARL O BRUSH	VA1-4366
	PETER THOMAS	VA1-4366
319	ANDREW T SHIMA	VA4-4865
334	MARY BROCKETT	VA2-9823
	HELEN M RICE	VA2-9823
342	JAMES A BRECKELS	VA1-6742
348	JOHN OESCHRYVER	VA1-5911
	CAROL COFFEY	VA1-3283
356	STANLEY PASZYNSKI	VA4-4890
364	DDN BAULCH	VA4-3707
370	WILLIAM D SHERMAN	ED1-3248
376	FRANK X NORRIS	VA2-3678
383	LAWRENCE P FISHER	VA2-1002
396	JAMES B MCLUSKEY	E01-6659
409	HUGH J MACDONALD	VA2-8876
	BERNARD BERGERON	ED1-2654
	EDMOND BERGERON	ED1-2654
413	ERNEST MANSEAU	VA4-8154
421	WILLIAM H CUSTER	ED1-5173
425	JOHN PAUL MDREY	VA4-8581
	JAMES A LOPSZATIS	ED1-8477
435	JAMES T CATELLANE	VA2-285
437	C S CATANZARO	VA4-7416
441	MATILOA M TRINITY	VA4-1536
445	JOHN A JUNGA	VA1-5309
449	MELVIN A SMITH	ED1-8110
451	STEVE KATSARDS	VA3-0933
455	C H WOONTON JR	ED1-5138
457	GEDRGE WASHKO	VA4-2275
461	IVAN BDRDWSKY	VA2-9214
465	MILDRED HOPKINSDN	ED1-8002
466	OESSA M JOY	VA1-6584
	LILLIAN F BEAUOIN	VA1-6584
468	JOS RAMER	VA2-8104
472	P J MCHUGH	ED1-3501
473	JDS STPDS	VA4-9223
476	JOHN MCHUGH	VA1-9467
477	C R SKOWRONSKI	VA1-7815
480	JOSEPH PELLERITO	VA1-3028
481	DARTH R NEWPORT	VA1-1387
	NORMAN MILDSTAN	VA2-6336
483	NDRMAN H PARMELEE	VA4-7500
	CHARLES R HESLEP	VA4-5875
486	JOSEPH MALOUF	VA3-2158
487	R B H BALCOM	VA4-2956
	JDHM HUPMAN	VA4-2956
488	RDSS SCHROEDER	VA2-7197
490	G B FEHRIBACH	VA2-0977
491	ROBT D STANLEY	ED1-6352
492	ANN BARR	VA4-9977
	MARY NEVIN	VA4-6821
	REGINALO BARR	VA4-9977
	BRYAN CULLINAN	VA1-9042
	EUGENE CHEESEMAN	ED1-8451
	CLIEF F MCNAMARA	ED1-0357
	HELEN WELLINGTON	ED1-1896
	DAVID HAWY	VA1-3941
	J T FOURNIER SR	VA1-3941
	EDWARD J ANDRE	VA1-8216
	RICHARD C BROWN	VA4-1211
	WILLIAM P KINSEY	VA2-7325
	HARRY N EVENDEN	VA2-8616
	ALEC KOTCH	VA2-7572
	GEORGE GAGNON	VA4-4492
499	*A A BEER STORE	VA2-8108
502	GEORGE MARAN	ED1-5700
503	RALPH SCHWAB JR	VA3-0546
506	JOHN DONNELLY	ED1-2615
507	MARJORIE HEILMAN	VA2-2843

RIVERSIDE DR 1957

14719 DR H A SPENCER □VA2-6922
 ROBERT B DARLING VA2-2863

RIVERSIDE DR

ZONE 15

174 FRANK GRZANKA VA1-9060
 175 RICHARD COURY VA2-8204
 180 WM C HENTSCHEL VA2-3359
 184 FRANK J DROGOSCH ED1-0161
 187 LAURA T SMITH VA4-2916
 191 *SMITH SERVICES □ED1-7200
 EDWARD S SMITH JR VA2-5101
 202 RUSSELL G MARSDEN VA4-3244
 203 RALPH T KIRCHNER VA2-9885
 206 JOS VENTIMIGLIA VA4-6432
 207 JOHN E MCFATRIDGE ED1-7580
 212 HAROLD W REDSHAW VA4-0853
 213 R A FAIRBANKS VA1-1971
 216 SOPHIA GARBARINO □VA4-3509
 217 ALBERT J FISCELLI VA1-2698
 218 LOUELLA PARKE □VA1-6401
 222 ISABELLE GRANT VA4-3112
 223 T D BONNELL VA4-0363
 228 ARTHUR F DOZOIS VA4-3842
 229 J L GRIEGER VA2-9575
 232 JOHN R DUBOIS ED1-8019
 233 C J FLEMING VA2-9158
 239 F F PIGGINS VA4-2526
 242 W L PASQUINELLI □VA3-1568
 243 JAMES P HOBAN □VA1-5770
 248 GRANCIS P MCDYER ED1-2982
 249 R VAN ALPHEN VA4-0108
 252 WALTER T LUMLEY VA1-0539
 255 *BROOKLYN WNDW CLNR VA2-9189
 WILLIAM D KANE VA2-9189
 258 RUDY BOISVERT VA1-5297
 259 EDNA L PARSHALL VA1-1320
 C L CLEMENTS □VA1-1320
 263 CLARENCE A SHAW ED1-4432
 269 M N MULDAUR VA2-2636
 270 JEROME F DRISCOLL VA1-6920
 272 MAX WILBERT □ED1-5692
 274 KENNETH STILWELL VA2-7387
 275 ANTHONY DALIAN VA1-3472
 278 GEORGE J GUINDON VA2-6219
 W F MCKINNEY □VA1-3569
 281 J SCHEHL VA1-7728
 284 T S WHEELER □ED1-0027
 PETER B HODDE VA2-2671
 285 WILLIAM MCCALL VA1-2721
 288 ROBERT J SNOWDEN VA1-0998
 291 CHAS CCACCIO ED1-0689
 CARL BOAK □VA2-6992
 294 DONALD A VANDECARR VA2-4083
 295 T H GALLAGHER □VA2-8776

RIVERVIEW AVE

ZONE 39

8825 JOE GAJEWSKI □KE7-2368
 8828 THOMAS W HARGRAVES KE5-7888
 8838 EDWIN MIKA KE5-8492

LENOX ST 1954

Harper av Intersects

248E

LENOX AV—From Detroit River north to Harper av,
intersecting E Jefferson av at 13100

101 Creedon Chas C VA 2-6015
Carollo Jos H VA 2-9490
174 Hiller Edwin C VA 3-1281
178 Early Jas B VA 4-0396
180 Ernst Lydia H Mrs VA 2-0084
183 Adamson Patk VA 2-8312
188 Saad Geo VA 1-9044
189 No return
192 Vacant

Scripps av Intersects

200 Hoot Ralph S ED 1-7471
204 Saloman Geo W VA 4-9441
208 Golusin Raddie VA 2-4993
212 Smarch Floryan A VA 2-6578
215 Tapert Jos E VA 2-0655
217 Balley Wm A ED 1-6491
222 Wickham Ray C VA 2-5506
228 Wise Wm F VA 4-0672
236 Shaw Carol R VA 4-4527
240 No return
241 Woodhury Robt F ED 1-0614
Gayette Wallace VA 4-2785
244 VanAntwerp Philip VA 2-0944
246 Bomer Linda H ED 1-1980
248 Karlson Henry D VA 4-7529
252 Sherwin Jas M VA 2-3836
256 No return
264 Bycroft Leslie P VA 4-1756
Muer Mary A Mrs ED 1-5312
274 Snow Allen T ED 1-1020
Menner Jack A VA 2-7744
277 Klupp Frank W VA 4-7545
278 Hogan Harold A VA 4-4701
279 Bird Fredk R
280 Richardson Clifford ED 1-3421
284 Meehan Francis A VA 2-5988
Milne Arth VA 4-6643
294 Green Wm H ED 1-0981
McKnight Eug VA 2-5121

Korte av Intersects

315 Stodgell Chas W VA 4-7437
319 Shima Andrew I VA 4-4805
334 No return
342 Hoban Nicholas A VA 2-5149
348 MacDormott Carl VA 2-7727
MacDormott John J
356 Ptaszynski Stanley C VA 4-4890
364 Bauleh Don F VA 4-3707
370 Sherman Wm D ED 1-8348
376 Morris Frank X VA 2-3698
383 Fisher Lawrence C VA 2-1002
396 McClusky Jas B ED 1-6659

Avondale av Intersects

409 Dimeglio Jos VA 1-5055
Dencef Frank VA 1-6508
413 Manseau Ernest VA 4-8154
421 Custer Wm H ED 1-5173
425 Bens Donald P VA 4-4285
Lapszatis Jas A ED 1-8477
435 Catellane Jas T VA 2-1285
437 Catanzaro Chas S VA 4-7416

Overhill et Intersects

441 Trinity Matilda Mrs VA 4-1536
445 Miller Andrew VA 1-3484
449 O'Malia John E VA 3-1117
451 Katsaros Steve VA 2-9657
454 Dahl Eug D
455 Borowsky Ivan M VA 2-9214
457 Keegan John A ED 1-7351
465 Hopkinson Herbert ED 1-8002
466 Truscott Fred VA 4-8508
468 Kramer Jos H ED 1-3794
469 Eberwein John C VA 2-8224
472 McHugh Patk J ED 1-2501
473 Sipor Jos VA 4-9223
476 McHugh John F VA 1-9467
477 Skowronski Casmier VA 1-7875
480 Pellerito Jos VA 4-8153
481 Drinkwater John C VA 1-2579
Newport Oarth R
482 Rosemeck Frank M ED 1-3887
483 AuFrance Chas R VA 4-5238
486 Malouf Jos N VA 4-3637
487 Hobson Lloyd L VA 3-0850
Jackson Leon ED 1-2875
488 McCleary Edwin L
490 Schroeder Ross H VA 2-7197
491 Stanley Robt D ED 1-6397

492 Apartments
200 Kotch Alec J VA 2-7572
201 Barr Reginald E VA 2-4357
202 Cheeseman Eug R ED 1-8451
203 Davis Mildred ED 1-3742
204 Laciak Dane W ED 1-7705
205 McNamara Clifford F ED 1-0357
206 Couls Margt Mrs ED 1-3742
207 Couls Jack D VA 4-6236
301 Gagnon Geo N VA 4-4492
302 Evenden Harry VA 2-8616
303 Peacock Dundas ED 1-3622

RIVERSIDE DR 1954

248F

RIVERSIDE DR—From Detroit River north to 13200
Korte av, 1 east of Lenox av

- 174 Grzanka Frank ① ED 1-1018
175 Coury Richd R ① VA 2-8204
180 Hentschel Wm C ① VA 2-3359
184 Drogosch Frank J ① ED 1-0161
187 Smith Edw S ① VA 4-2916
190 Vacant
191 Smith Edw S ① steel castings mfr VA 2-5101
Scripps av intersects
202 Marsden Russell G ① VA 4-3244
203 Kirchner Ralph T ① VA 2-9885
206 Ventimiglia Jos ① VA 4-6432

RIVERSIDE DR 1954

207 McFatridge John E ① ED 1-7580
 212 Redshaw Harold W ① VA 4-0858
 213 Fairbanks Ralph A ① VA 1-1971
 216 Garbarino Anthony ① VA 4-3509
 217 Fiscelli Albert J ① VA 1-2698
 218 Parke Luella Mrs
 222 Grant Isabel M ① VA 4-3112
 223 Bonnell Thos D ① VA 4-0363
 228 Dazois Arth F ① VA 4-3842
 229 Grieger John L ① VA 2-9575
 232 Dubois John R ED 1-8019
 233 Fleming C Jos ① VA 2-9158
 239 Piggins Frederic F ① VA 4-2526
 242 Ross Evelyn D Mrs ① VA 2-1594
 243 Sheridan Jas V ① VA 2-5286
 248 McDyer Frank P ① ED 1-2982
 249 Tholl Wm E jr ① ED 1-5471
 252 Lumley Walter A ① VA 1-0539
 255 Kane Wm D ① window cln VA 2-9189
 258 Maskill Olive M ① VA 2-9881
 259 Nordness Lynn ① VA 2-0472
 263 Vacant
 264 Stricklin C Harley ① VA 1-4503
 269 Muldaur Mortimer N ① VA 2-2636
 270 Booth Geo W ① VA 1-0961
 272 Marshall Jas
 274 Stilwell Kenneth M ① VA 2-7387
 275 Dalian Anthony M ① VA 1-3472
 278 Guindon Geo J VA 2-6219
 Driscoll Jerome F VE 1-6920
 281 Schehl Jules ① VA 1-7728
 284 Hodde Peter B VA 2-2671
 285 Versnick Geo V ① VA 1-7986
 Spur Richd A ED 1-7954
 288 Snowden Robt J VA 1-0998
 290 Carlton R Lindell ① VA 4-2819
 291 Craecio Anna Mrs ① ED 1-0689
 Causley Jas F VA 4-2708
 294 Hedges Frank W ① VA 1-3555
 295 Gullo Anton ED 1-5679

Korte intersects

229C

LENOX ST 1940

LENOX AV—From Detroit

Rivior north to Harper av,

1 east of Dickerson

101△Fisher Wm P◎

174△Peterson Walter A

◎

178△Early Jas B

180△McCarthy John H

183△Wickham Mont

188△Bartnicke Benj A◎

189△Hilmer Ernest A

192△Libey Cleon E◎

Scripps av intorsects

200△Hoot Ralph S◎

204 Beck Chas R

Koury Elias G

208△Siple Colin A

Doonan Eug J

215 Rawlins Albert L

217△Bailey Wm A

222△Wickham Roy C◎

236△Shaw Carol R◎

241△Dowd Leo J◎

△Peacock Edw J

244△Mootz Henry L◎

246△Warren Everett A

264△Kathrein Anton◎

△Murray Jos D

274 Anderson Edwin J

△Snow Fredk W

277△Delgatty Lloyd E

278△Girard Fredk

△Hogan Harold A◎

△Russell Martin

Pennefather Jas

279△Pennefather Richd H

284 Richardson Clifford J

△Meehan Francis A◎

294△Green Wm S

△Barber Arth

Kerte av intersects

317 Vacant

319△Ryan Frank W

334△Schorn Andrew J◎

339 Penneyfather Richd H

342△Hoban Nicholas A◎

348△MacDormott Carl◎

Close Geo J

364△Baulch Donald F◎

370△Sherman Wm D◎

383△Fisher Lawrence P◎

396△Harrop Edw J

Avondale av intersects

409 Dimeglio Jos

△Radtke Bernard J

413 Vacant

421△Schmelzle Peter J◎

425△Huber Geo P◎

△Huber Walter G

435 Cattelane Jas T

437△Smith Paul

Averhill et onds

441 Burleson Jas G

445△Radu Vincent K

449 Miller Fred L

RIVERSIDE DR 1940

RIVERSIDE DRIVE —

From Detroit River north
to Korte av, 1 east of
Lenox av

174ΔMcRury Elmer E⊙

175ΔStippick Richd F⊙

180ΔHentschel Wm O⊙

184ΔBrooks O Roy⊙

187ΔSmith Edw S⊙

191 Smith Edw S Jr⊙

Scripps av intersects

202ΔKirby Thos J⊙

203ΔKirchner Ralph T

207ΔMcPatridge John E⊙

212ΔRedshaw Harold W⊙

223ΔYager Stanley N⊙

228ΔDozois Anne Mrs⊙

RIVERSIDE DR 1940

RIVERSIDE DRIVE—

Contd

- 229 Δ Grieger John L ©
 232 Δ Dubois John R ©
 233 Δ Fleming Clarence J
 ©
 239 Δ Martin Jos F ©
 242 Δ Ross Theo A ©
 243 Δ White Jos M © real
 est
 248 Δ McDyer Francis P ©
 258 Δ Maskill Olive Mrs ©
 270 Δ Delaney Jas E ©
 278 Δ Thorn Frank A
 Δ Kelly Frank J
 284 Δ Jenn Steven C
 Δ Flavell Thos M
 285 Δ Hodde Peter B ©
 Δ McKee Harry
 288 Δ MacArthur Fred A
 290 Vacant
 291 Vacant
 294 Δ Roethel John H ©
 295 Δ Marcus Edw N

RIVERVIEW AV (For

LENOX ST 1935

19014 Gray John

LENOX AV—From Essex
av north to Harper av, In-
tersecting E Jeffers av
at 13100

100ΔDougherty Henry J
102ΔSteiner Edw F
103 Gibson Percy J
105 Lough John F
106ΔDonnelly John
107 Loudon Edw G
109 Milligan Robt J
113 Berkich Vaughn
114 Finkel Geo W
115ΔHorner Geoffrey
118 Owens John A
Mellott Howard
121ΔKiely Thos
124ΔColeman Thos H
125 Forhan Wm F
132ΔO'Rourke Martha H
Mrs
133 Vincent Frank J
134ΔLyon Hurst M
137 O'Meara John
138ΔHicks Cecile L Mrs
Rhinehart Lora E
Mrs
146ΔBroderick Michl J
150 Creagh Kenneth J
151 Deno Manor Apts
Apartments:
1 ΔRudick Robt O
2 Rissman Earle
3 Anderson Ann
4 Sanslow Eli S
5 Wilson Delbert A
6 Hedges Ronald L
7 VanDam John
8 Earley Harry R
9 Moeckel Carl C
10 Bergwall Eric A
11 Sharp Lonzo E
12 Kruger Erwin O
13 Geary Chas
14 Rice Herbert E
Street continued
155 Amer Albert H
156ΔRickenbach Carl H
157 Smith Arlan R
158 Richardson Eug M
163 Vacant
164ΔKlee Edw
165 Howard Fred W
167 Kennedy Howard N
168ΔShilling Raymond

LENOX ST 1935

	169 Cordesman Ellsworth J
	170 Hughes Richd
	172 Meloche Harold P
	173 McLaughlin Philip
	174ΔLoveless David J
	175 Rousselle Wilfred J
	178ΔMielka Edw
	180 Kroeger Elmer P
	181ΔWoonton Herbert W
	186ΔGunsaulus A Lee
	187 O'Neill Thos J
	188ΔBoes Clarence N
	192 Schoonermaker Hiram O
	193 Valle Ansilio V
	194ΔStolzenfeld Erwin H
	198 Clark Frank W
	199 Bowen Wm H
	200 Scheppman Theo J
	208 Walter Peter J
	204ΔMcIntosh Guy
	205 Bullard Homer W
	206 Manian John
	210 Brown Harry I
	211 Kowalski Michl J
	214 Parmalee Erwin E
	215 Wuestenberg Ervin
	216 Boy Frank J
	219ΔVernier Purcell G
	220 Bossow Walter A
	222 StCroix Clarence T
	223 Derry Roy J
	226ΔBaulch Edwin O
	228ΔKramer Jos A
	229ΔCarmichael John E
	231 Hayes Wm
	232ΔPickering Ernest R
	234ΔRowe Fredk H
	235ΔDrean Harry J
	237 Callahan Peter V
	240 Rostoni Louis P
	241ΔGilbert Rolland J
	244 Vandenbusche Gustave J
	247 Linton Annie Mrs
	252ΔSchoof John H
	253 Allard Henry W
	255ΔArthur Jack M Arthur Percy
	256 Moylan Herbert J
	258 Isles Jas F
	259ΔCoyne Mieh J
	262 Dixon Maurice T.
	263 Breunan Wm P Thomas Edw
	264 Sarenius Wm L
	265 Georgopoulos Jas E
	267 Spanos Wm J
	268 King Paul J
	270ΔAldrich John A
	271 Fenior Ulrich J
	273ΔWurm Edw A
	274 Erisman Harry M
	275 StCharles Edw
	277 LeDuc Walter A
	278 Anderson Albert E
	279ΔZiegeler Mary Mrs
	280 Wilson John ΔSmith Ellz Mrs
	281 Lawther Alex S
	282 Kuehn Frank G
	283 Young Fred N
	284ΔSplittgerber Alf H
	285ΔSunders Cecil
	287ΔMitchell John R
	288 Farrell Wm C
	289 Vacant
	290ΔLeeks Wm H ptr
	291 Gervais Geo S
	293 Graham John
	294 Schott Nicholas H
	296ΔBueche Wm F
	297ΔDarling Cecil J
	299 Mouilleseaux Frances Mrs Freud av intersects
	302 Tattan Edw J
	303 Panos Basil S
	304 Beech Frank G
	305 Vacant
	308 Vacant
	309ΔCoward Emma L Mrs
	310 Wolford Jas B

RIVERSIDE DR 1935

RIVERSIDE DRIVE—

From Korte av south to
Scripps av, a continuation
of S Drexel av

404 Δ Mason Percy W

415 Δ Pickering Lovell R

417 Δ Lynch Edw W

424 Δ Potor Walter A

Δ Hodde Peter B

425 Δ Taylor Nelson

Δ Miller Wm O J

437 Δ Cronander J Edwin

Thorn Frank A

477 Δ Maskill Olive M Mrs

507 Δ Ross Theodore

525 Δ Dubois John R

sw cor Keelson dr Gray Edw
eng

RIVERSIDE LANE—

From 14649 Riverside
bivd south to Detroit
River. 1 w of Alter rd

927 Vacant

935 Δ Cummings Frank E

943 Peitz Harry

949 Δ Pearson John W

RIVERVIEW AV (Former-

LENOX ST 1931

LENORE AV—Contd

18475 Vacant
 18477 Maus Adolph
 18484 Shaw Martin
 18484 Steffen Frank truck
 ing
 18485 Greshover Anna
 Mrs
 18514 Morrison Jas C
 Margareta av intersects
 18615 Reeder Alva H
 18625 Vacant
 Grand River av intersects
 18938 Ferguson Robt H
 18946 Bass Stanley W
 18944 Acton Wm A
 18960 Boer Peter
 18968 Foerster Anna Mrs
 18960 Tetreau Fred A
 conir
 18981 Petsch Gustave
 18997 Kirsch Roy A
 W Seven Mile rd intersects
 19185 Watson Thos
 19201 Watton Percy
 19227 Hunt Harry D
 19249 Swanson Peter
 19255 Farrar Balva
 19263 Sandhoff Stanley W
 19270 Vacant
 19284 Vacant
 19334 Honeyhall Thos A
 19335 Grout Arth W
 19335 Snyder Thos J
 19336 Matteson Arth G
 19371 Schram Geo H
 19411 Heath Ella Mrs
 19420 McKee Geo F
 19441 Miller Wm
 19460 Vacant
 19470 Stieher Edw
 19473 Dillaway Geo R
 19480 Booth Richd L
 19501 Booth Rich A
 19511 Booth Leonard G
 19514 Gray John W
 Frisbee av intersects

LENOX AV—From Essex

av north to Forest av, in-
 tersecting Jefferson av at
 13100
 109 Dougherty Henry J
 102 Eric Wm McJ
 103 Stichler Philip K
 105 Tucker Rufus J
 106 Donnelly John
 107 Laufen Anna Mrs
 109 Rockley Ernest
 113 Berlich Vaughn P
 114 Sine Edgar G
 115 LeLuce John W
 118 Owens John A
 121 Klely Margt Mrs
 124 Coleman Thos H
 125 Greene Elmer J
 132 O'Rourke Martha H
 Mrs
 133 Vincent Frank
 134 Lyon Hurst M
 137 Dowbury Thos
 O'Mara John
 138 Hicks Cecil L Mrs
 139 Smith Theo B
 146 Broderick Michl J
 150 Kilder Hector
 151 Dano Manor

Apartments:

1 Rudick Robt O
 2 Lane Ohn
 3 Vacant
 4 Myers Valentine F
 5 Vacant
 6 Vacant
 7 Pettit John L
 8 LaBombard Richd L
 9 Amos Wm T
 10 Taylor Norman E
 11 Plunkard Edw J
 12 Kosal Rose Mrs
 13 Buljak Andrew
 14 Purves Harry

Street continued

155 Mrock Fred
 159 Kriegenbach Carl H
 157 Webb Geo H
 158 Whitnoff Stanley
 163 Stewart Noble H
 164 Letourneau Al J
 165 Vacant
 167 Cordesman Ellsworth
 J
 168 Sharpe Clyde M
 169 Clark Manville H
 170 Vacant
 172 Anderson John D
 173 Hansen Flora
 174 Loveless Jas
 175 Otergard Geo
 178 LaDuka Philip
 180 Mietke Edw
 181 Wootton Herbert W
 186 Phillips Glenn
 187 May John S
 188 Hagstrom Fred
 192 Schoonmaker Hiram C
 193 Graybill Addison C
 194 Vacant
 198 Foster Fred W
 199 Richards Ernest A
 conir
 Richards Lucille Mrs
 beauty shon
 200 Schepman Theo J
 203 Fries Chas J
 204 Vacant
 205 Vacant
 206 Austin Fints
 210 Brown Harry J
 211 O'Neill Thos J
 215 VanMater Wesley
 216 Provencher Earl J
 218 Hanson Jewell
 219 Vernier Purcell G
 220 Bossow Walter C A
 222 Lyon Glenn E
 223 Cooper Wm L
 226 Bauich Edwin C
 228 Steffen Wm S
 229 Carmichael John E
 231 McPherson Robt J
 232 Pickering Ernest
 234 Rowe Fred H
 235 Huerth Arnold
 237 Drear Harry J
 240 Reston Louis J
 241 Gilbert Roland J
 244 Fern Andrew


247 Linton Annie Mrs
 252 McLutosh Guy H
 253 McHugh John
 254 Arthur Escourt E
 256 Smyrna Jas B
 258 Isles Jas
 259 Labadie Frank
 262 Noren Carl
 263 Livsey Geo
 264 Ferguson Thos A
 265 Vacant
 267 Vacant
 268 Goodman Lucille Mrs
 270 Aldrich John A
 271 Cunningham John P
 273 Wynn Edw A
 274 Crawford Albert L
 275 Britton Wm S
 276 Duvall Clara Mrs
 278 Anderson Albert E
 279 Zelgoler Mary Mrs
 280 Wilson John
 281 Vacant
 282 Stokoski John
 283 Stanley Carson J
 284 Splittgerber Alf H
 285 Saunders Cecil H
 287 Burke Jos J
 288 Farrell Wm C
 289 Forbes Chas E
 290 Locke Wm H
 291 Gaffney Frank A
 293 Kaake Wm H
 294 Buerhe Wm F
 296 Squiras Nathan
 297 Darling Cecil J
 299 Espey Henry C
 Fred av intersects
 302 Bulck Kath A Mrs
 304 Denny Harry S
 305 Panoz Basil S
 308 Harper Vernon
 309 Lewis Tudor
 310 Reghl Henry
 311 Vacant
 315 Lopi Harry G
 316 Feigstner Lucius E
 317 Reynaud Saml
 320 Barlow Glenn A
 321 Wellington Graham F
 324 Roberts Wm E
 325 Rutter Roy R
 326 Buchanan Thos R
 327 Fleck Geo R
 328 Gilbert John H
 329 Johnson Peter F
 343 Ritter John M
 344 Beaton Johanna Mrs
 345 Flannery Edw
 346 Ohm Edw J
 348 Treuss John P
 351 Dunbar Harold
 353 Griffiths Edw I
 354 Hyde Reht R
 355 Baker Albert G
 359 Baker Jos H
 360 O'Brien Jas J
 362 Driver Harry
 363 Weiss Jos
 367 Reichenbach Effie M
 Mrs
 368 Burke John J
 373 Heilman Harry C
 374 Allen Fremont C
 375 Herr Ediz Mrs
 379 Cavanaugh Patk F
 380 Lenox Apartments

Apartments:

1 Wallace Oscar
 2 Schweigshardt
 Gustave J
 3 Vacant
 4 Landen Barnet
 5 Vacant
 6 Vacant
 7 Krause Adeline
 8 Vacant
 9 Massau John E
 10 Vacant
 11 Vacant
 12 Vacant

Street continued

381 Sinks Wm H
 385 Kunkel Nathan S
 387 Gedalia Adolph G I
 393 McCluskey Frank
 394 Brinkman Chas W
 396 Mastan Perry F
 396 Weisman Rudyard K
 398 Beacher John J
 399 McFarlane Geo
 400 Harriton Guy
 401 Vacant
 404 Stinnett Harry R
 405 Clees Robt J
 406 Vacant
 407 Chapman Alma Mrs
 410 Vacant
 411 Duthie David
 412 Patrick Louise A Mrs
 415 Wolf Edw
 416 Richmond Bernard
 417 Mollison Frank W
 418 McNamara Fredk G
 419 Schaumburger Aug
 422 Ransom Chas A
 423 Stephens Chas
 424 Hill Geo A
 425 Prior Roy A
 426 Heathfield Edwin
 428 Holman Jos F
 429 Grove Edw J
 431 Waddell Robt
 434 Vacant
 435 Vacant
 436 Vacant
 437 Bass Emily L Mrs
 438 Jones Tabitha
 440 Johnson Roy G
 441 Vacant
 443 Vacant
 444 Patrick Adolph J
 446 Alvey Selwyn G
 447 Dray Christine Mrs
 449 Larrance Martha Mrs
 452 Tessey Earl C
 454 Riehl R
 465 Keller Geo H
 457 Vacant
 458 Vacant
 459 Seywer Lloyd M
 460 Feldt Aug
 461 Fraser Malcolm E
 461 Dubuittier Gustave P
 465 Vacant
 466 Bleacher Wm
 467 Dixon Peter C
 470 O'Hare Frank J
 471 Baker Fred M



Lenox Center
100 Lenox Street
Detroit, MI 48215

Inquiry Number: 6609301.3

August 09, 2021

Certified Sanborn® Map Report



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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/09/21

Site Name:

Lenox Center
100 Lenox Street
Detroit, MI 48215
EDR Inquiry # 6609301.3

Client Name:

ATC Group Services LLC
46555 Humboldt Drive
Novi, MI 48377
Contact: Andrew Temerowski



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PO # NA

Project 188BS21459

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1996	1929
1991	
1989	
1977	
1962	
1957	
1949	



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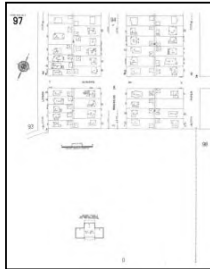


2002 Source Sheets



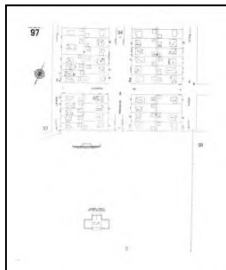
Volume 11, Sheet 97
2002

1996 Source Sheets



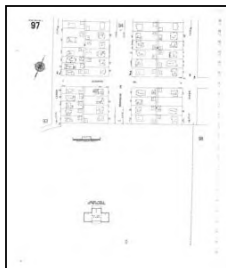
Volume 11, Sheet 97
1996

1991 Source Sheets

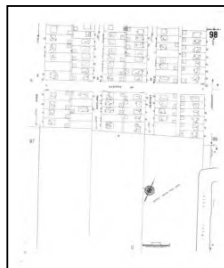


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1991

1989 Source Sheets



Volume 11, Sheet 97
1989



Volume 11, Sheet 98
1989

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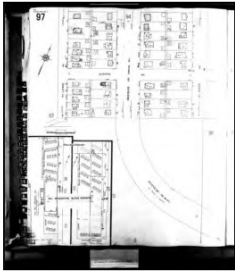


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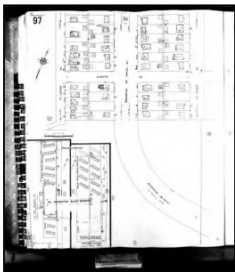
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1977

1962 Source Sheets

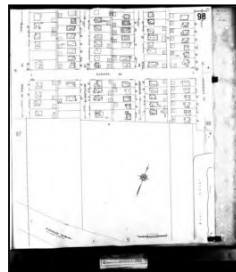


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1962

1957 Source Sheets

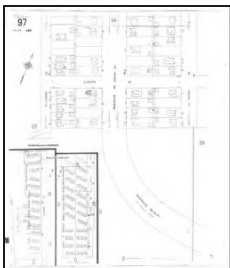


Volume 11, Sheet 97
1957



Volume 11, Sheet 98
1957

1949 Source Sheets



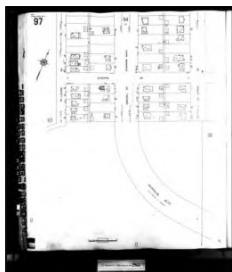
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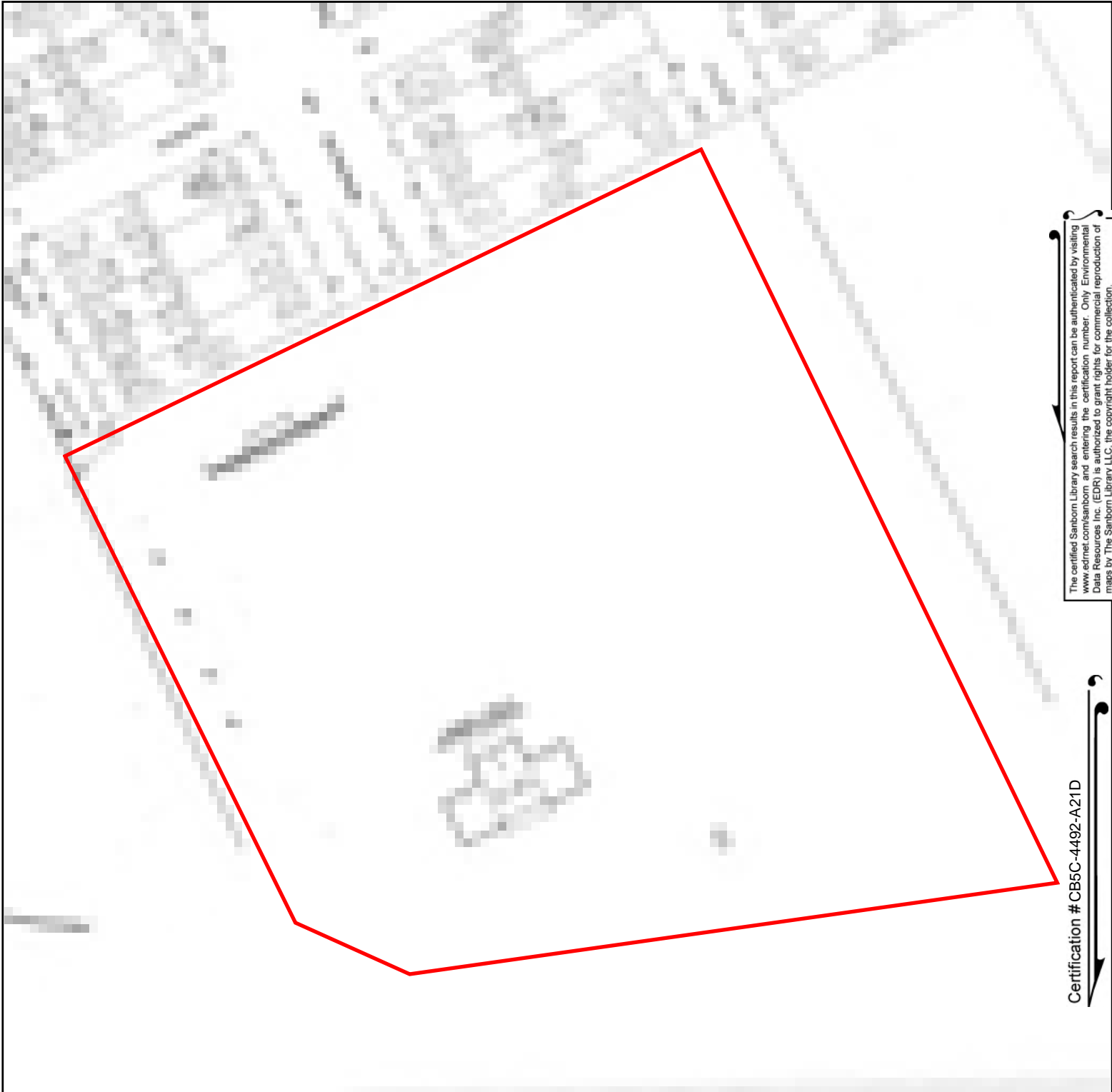


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1942

1929 Source Sheets



Volume 11, Sheet 97
1929



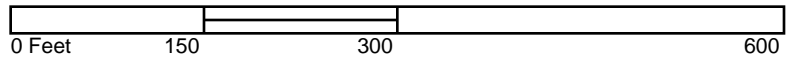
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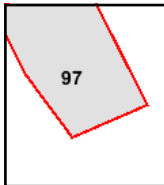
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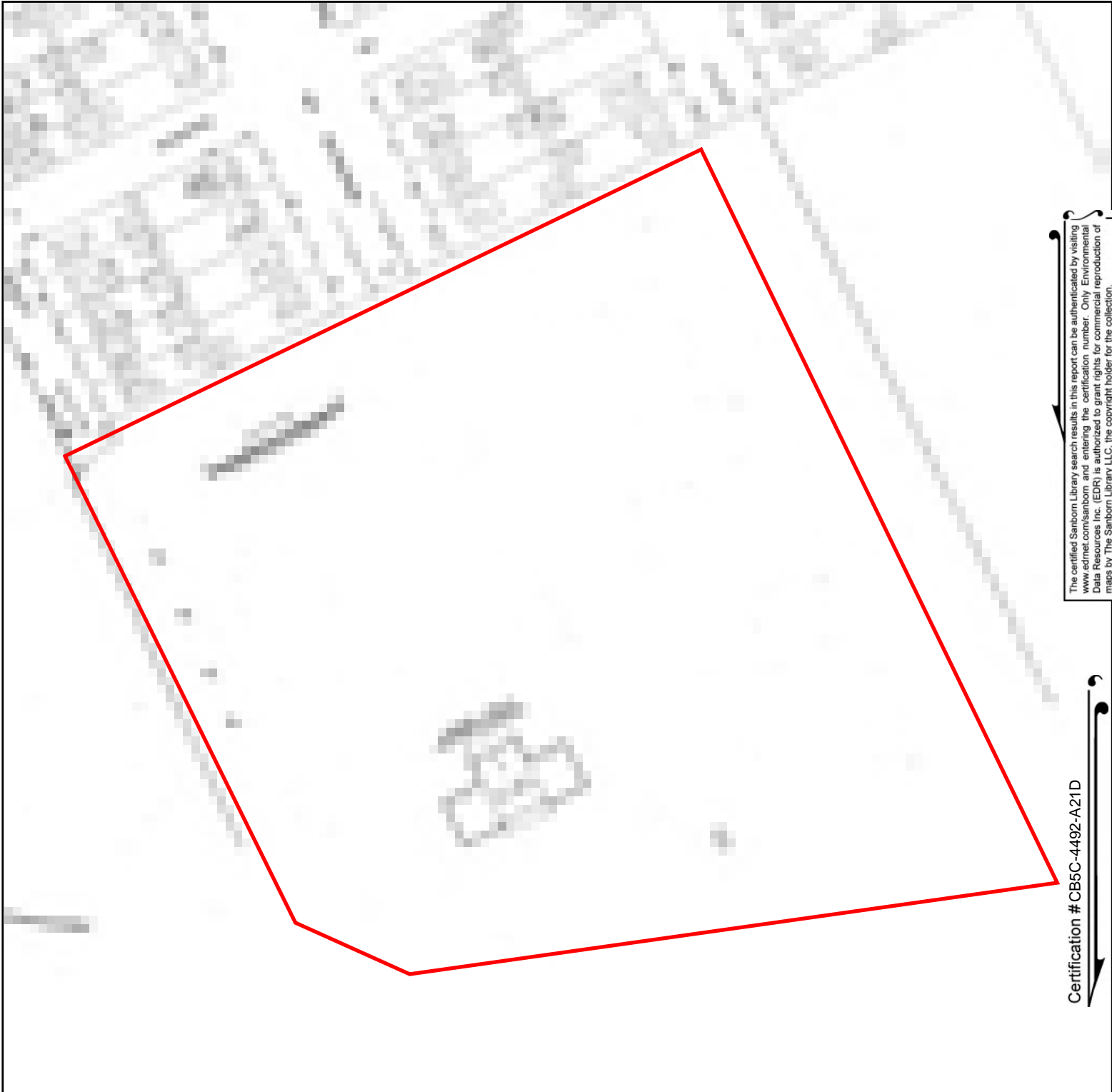


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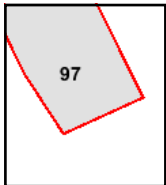
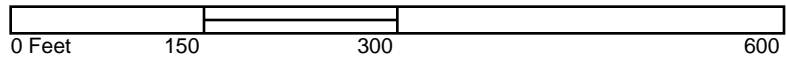
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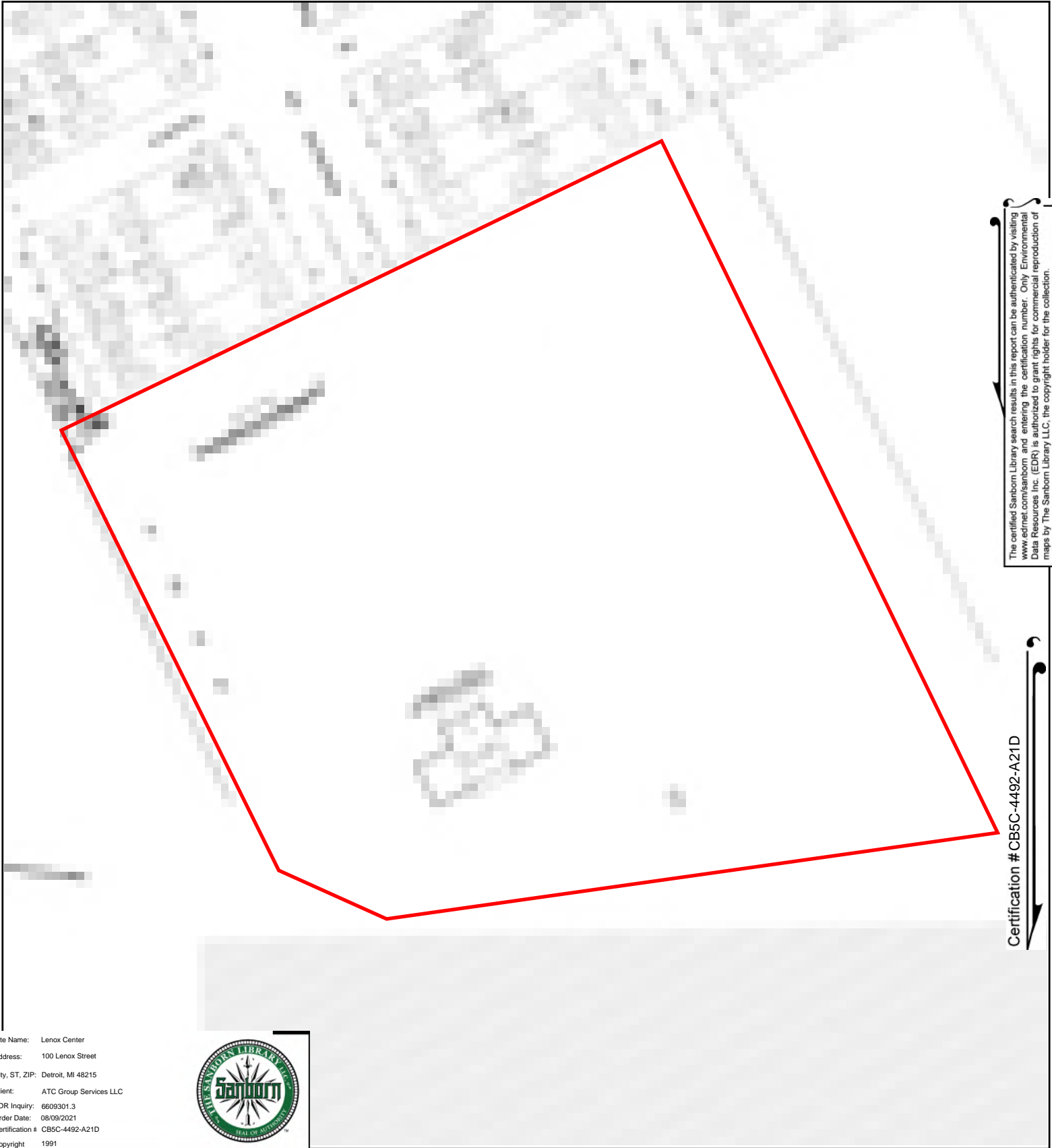


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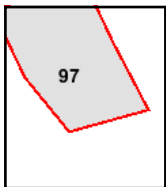
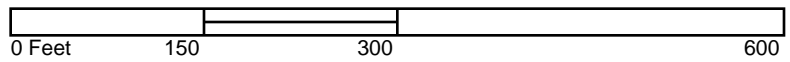
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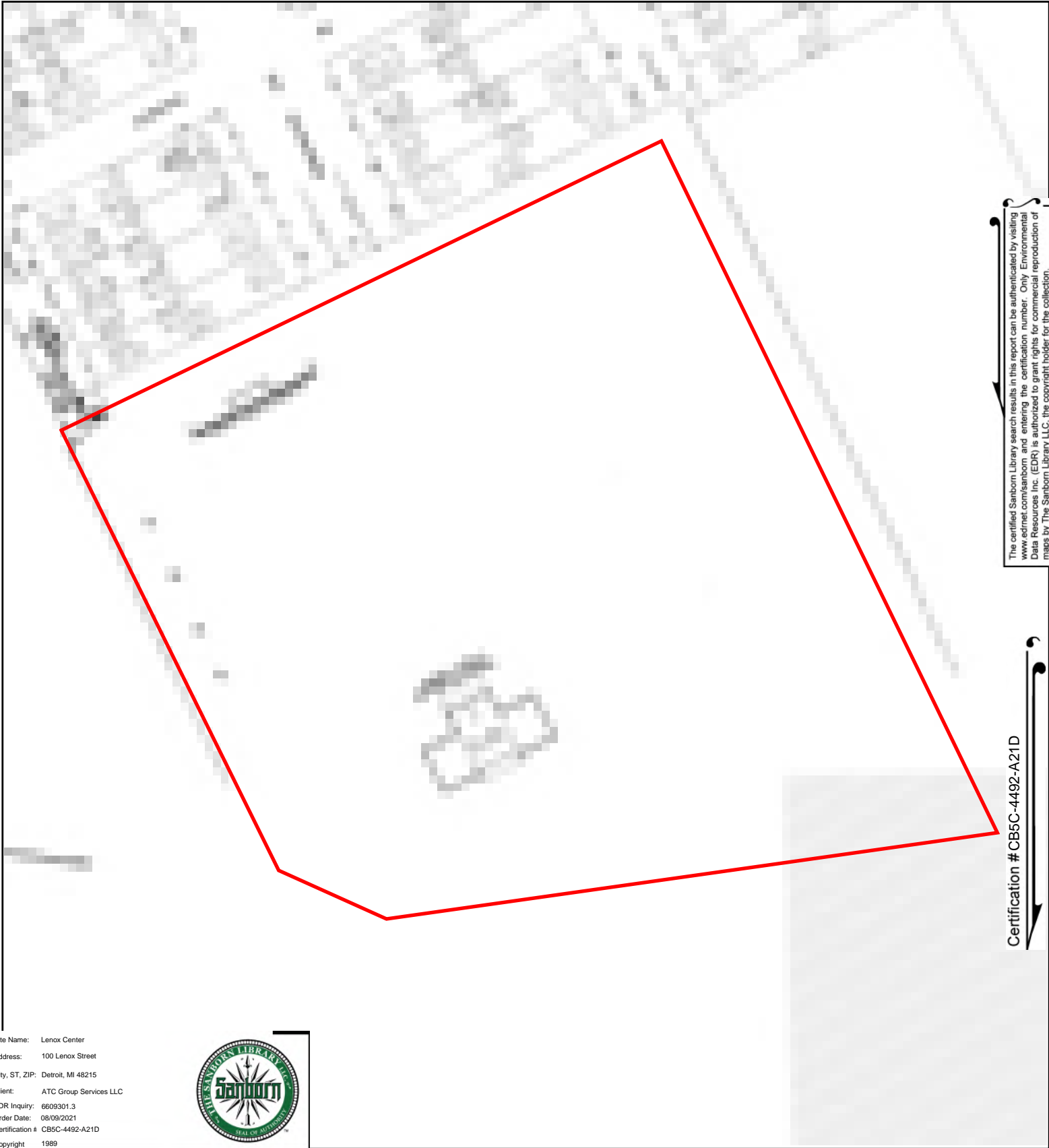


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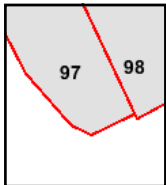
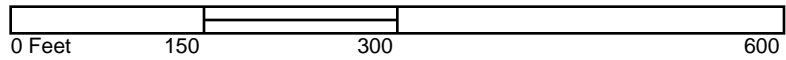
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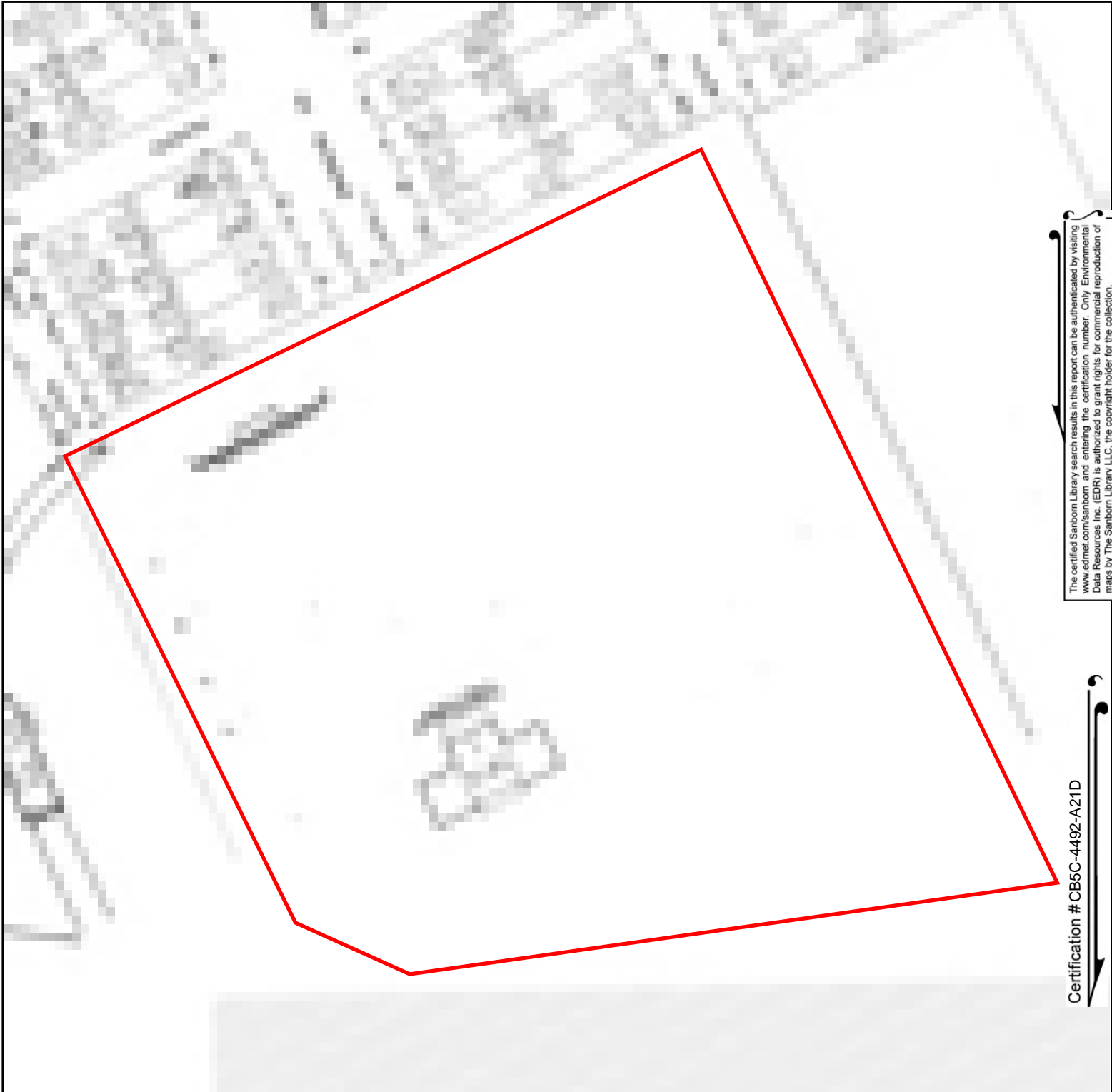


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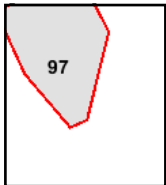
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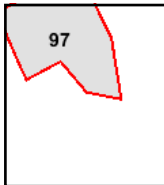
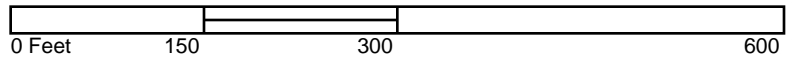
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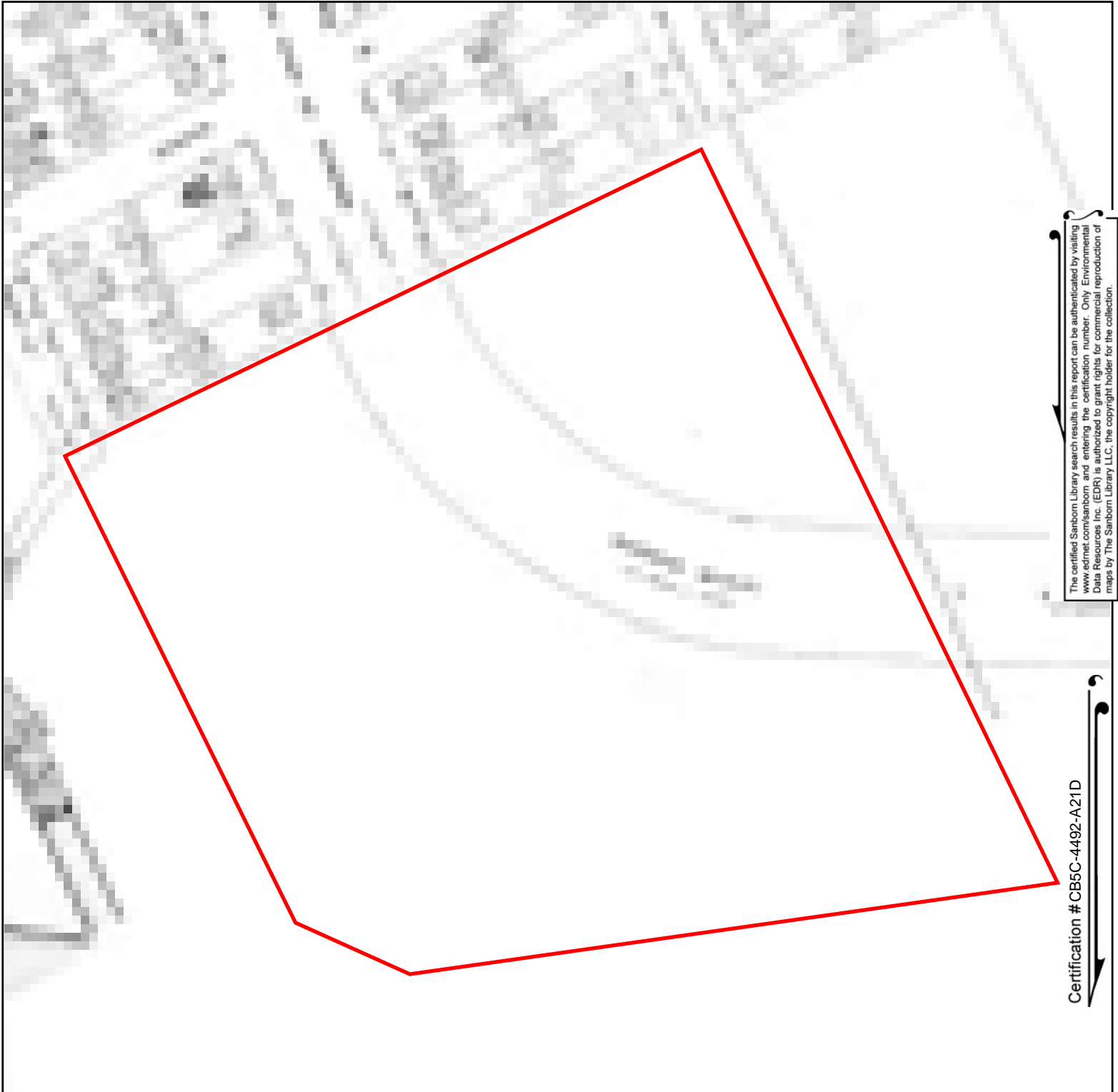


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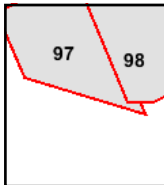
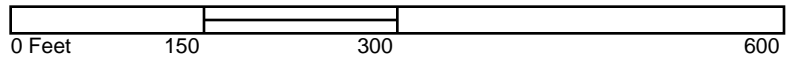
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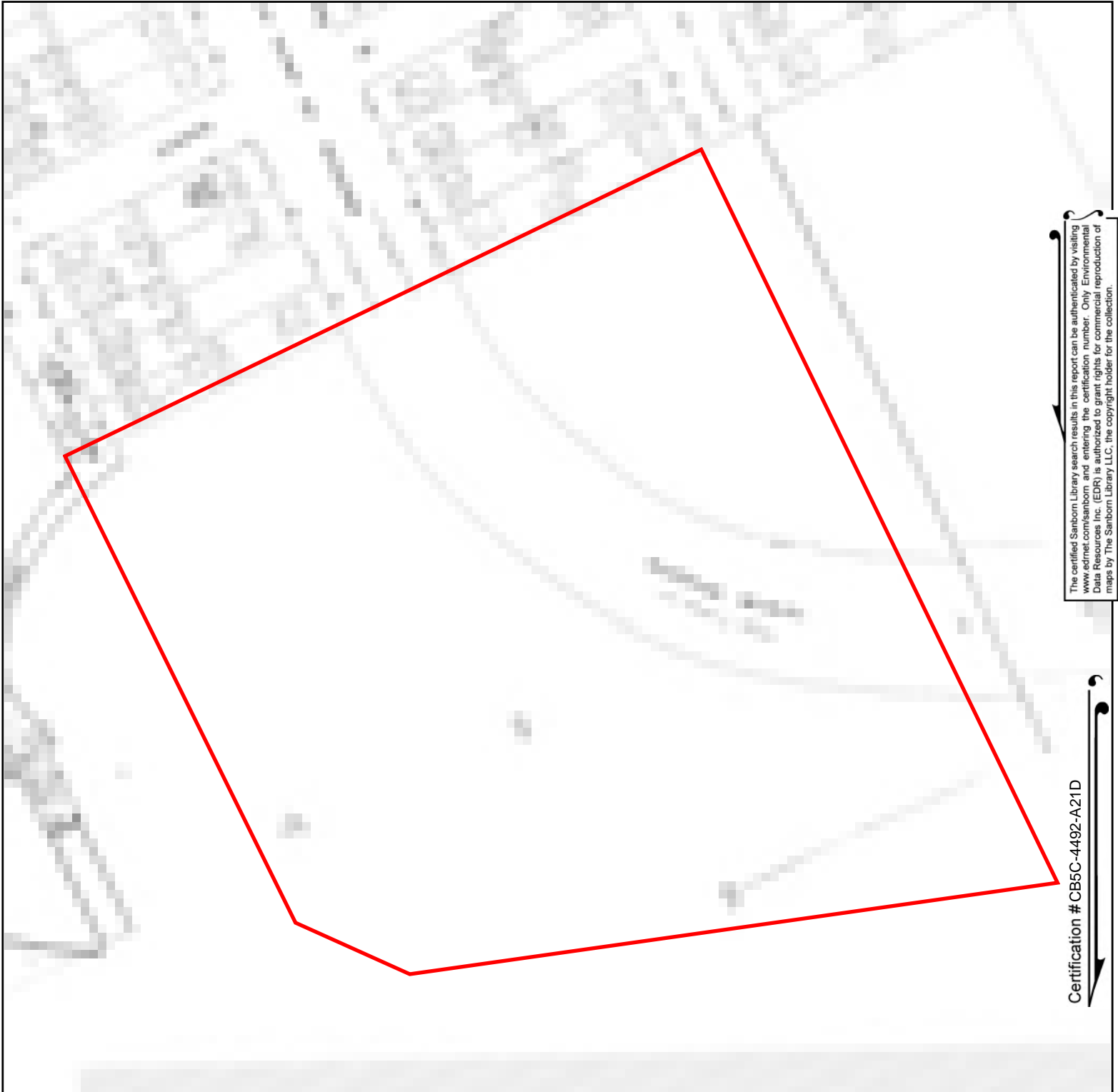


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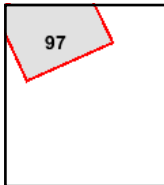
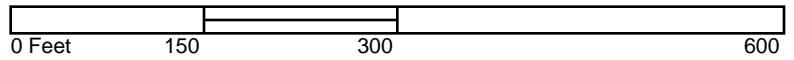
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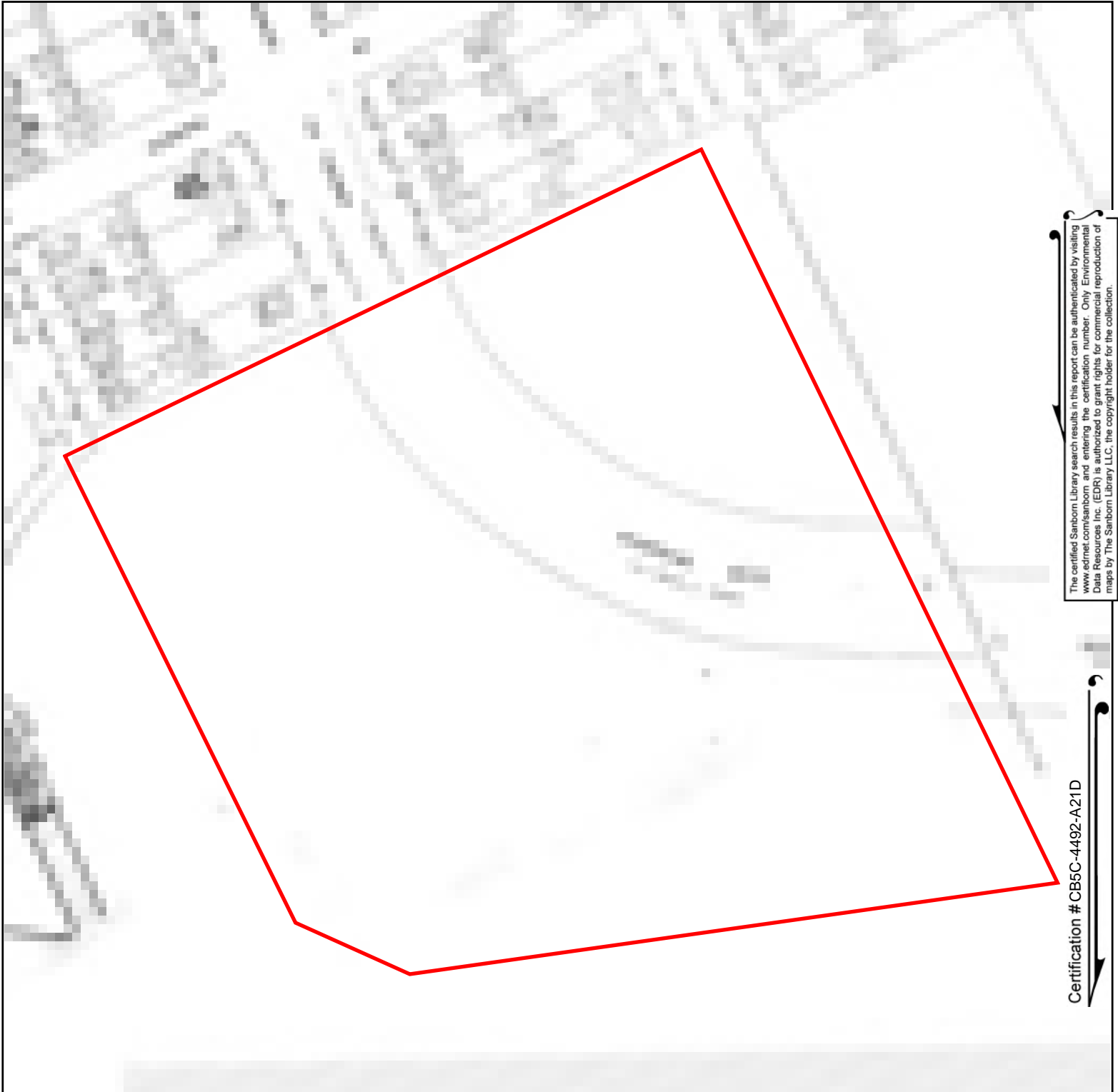


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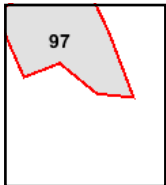
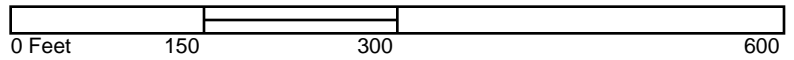
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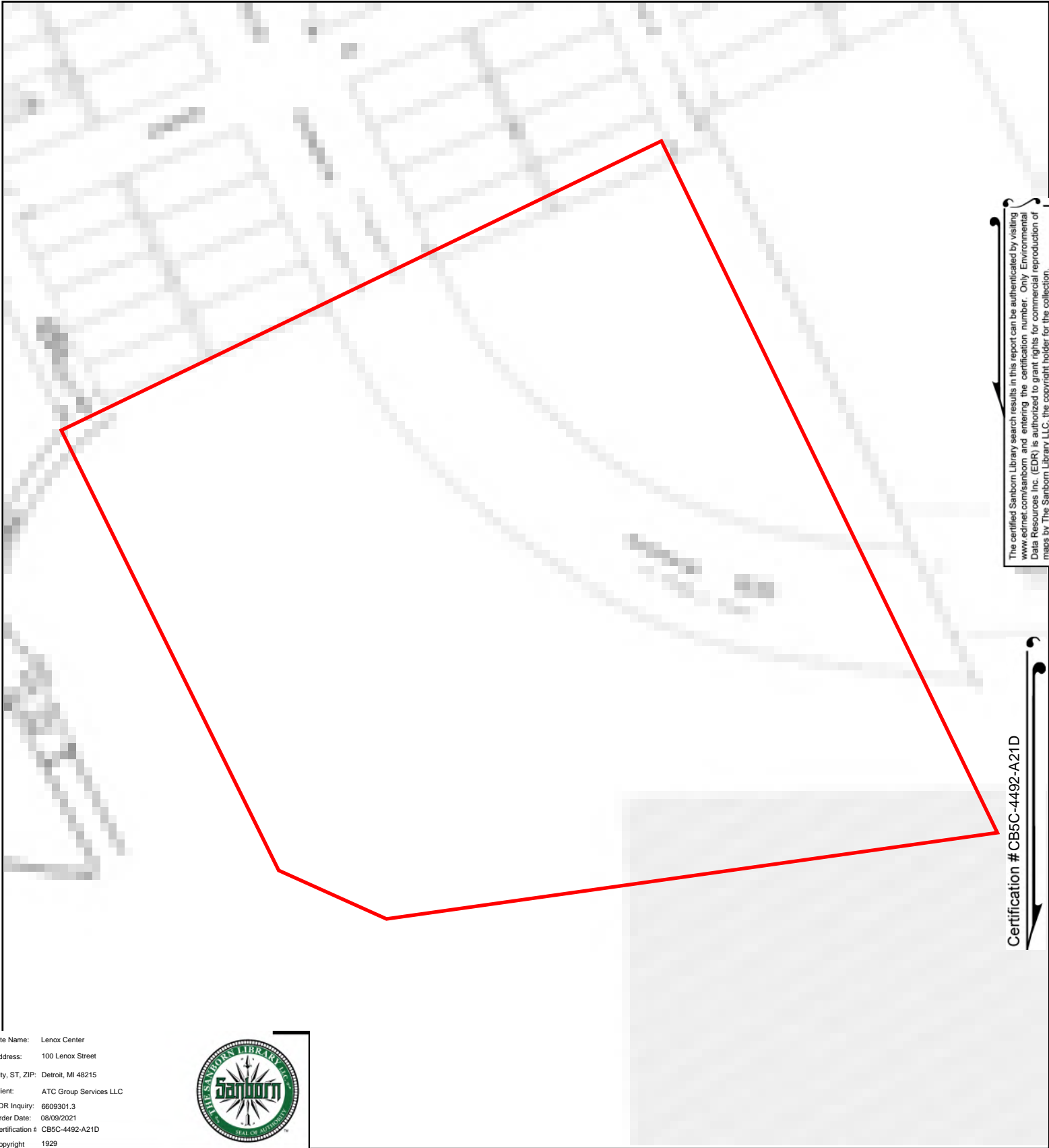


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 Outlined areas indicate map sheets within the collection.



Volume 11, Sheet 97





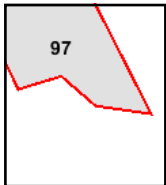
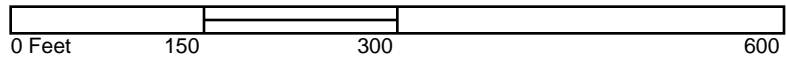
The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # CB5C-4492-A21D

Site Name: Lenox Center
 Address: 100 Lenox Street
 City, ST, ZIP: Detroit, MI 48215
 Client: ATC Group Services LLC
 EDR Inquiry: 6609301.3
 Order Date: 08/09/2021
 Certification # CB5C-4492-A21D
 Copyright 1929



This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



Volume 11, Sheet 97





APPENDIX H

PRIOR ASSESSMENTS

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APPENDIX I

RESUMES

Andrew Temerowski

Project Scientist

OFFICE LOCATION

Novi, Michigan

EDUCATION

BS, Biology and Environmental Studies, Western Michigan University, 2003

CERTIFICATIONS

Environmental Professional per EPA's "All Appropriate Inquiry Rule"

40-Hour Hazardous Waste Operations and Emergency Response Certification (OSHA)\8-Hour Refresher

State of Michigan Asbestos Inspector (#A38677)

State of Michigan Lead Inspector/Risk Assessor (P-06300)

HIRE DATE

5/2021

EXPERIENCE PRIOR TO JOINING ATLAS

15 years

EXPERIENCE & RESPONSIBILITIES

Andrew has over 15 years of experience in the environmental consulting field and is a Project Scientist with experiences that include assessment projects consisting of Phase I Environmental Site Assessments (ESAs), Phase II Subsurface ESAs, Baseline Environmental Assessments (BEAs), Due Care Plans (DCPs), Transaction Screens, as well as National Environmental Policy Act (NEPA) checklists, environmental assessments (EAs), and hazardous material assessments. He has conducted hundreds of assessments. He also conducts property risk evaluation and surveys for asbestos containing materials, lead, and mold.

PROJECT EXPERIENCE

Phase I/ Phase II Environmental Site Assessments (ESAs)

Completed Phase I ESAs, some of which have included asbestos and lead based paint sampling. Types of ESAs include:

- Commercial and light industrial properties throughout Michigan.
- Various industrial / manufacturing / automotive facilities throughout Michigan.
- Retail businesses and restaurants throughout Michigan.
- Numerous parcels of undeveloped property of various sizes in Michigan.
- Agricultural properties and farmsteads in rural areas of Michigan.
- Apartment complexes and hotels throughout Michigan and Ohio.

Environmental sampling and monitoring activities for a variety of projects including soil, groundwater, gas, and surface water. Types of sampling and monitoring projects include:

- Numerous soil and groundwater investigations completed at undeveloped properties, farmsteads, automotive related properties, commercial and light industrial businesses, and residential properties.
- Soil, soil gas and groundwater sampling events at various commercial properties and adjacent to landfills in Michigan.

Asbestos Building Surveys - Michigan

- Asbestos Building Inspector for residential and commercial buildings. Conducted survey of buildings, including bulk sampling, quantification of asbestos containing material, and preparation of inspection reports.

Various Telecommunications Clients - Michigan

Completion of environmental compliance associated with build-outs at new and existing cellular telecommunication towers and structures. Environmental services include:

- Phase I and Phase II Environmental Site Assessments.
- National Environmental Policy Act (NEPA) Evaluations required by the Federal Communications Commission (FCC).
- Asbestos and lead assessment surveys of buildings and structures.
- Client specific defined Scope of Works to address Business Environmental Risks.

Ann O'Brien

Environmental Due Diligence Manager

OFFICE LOCATION

Novi, Michigan

EDUCATION

BS, Earth Science 1990
BS Geology 1992
Eastern Michigan University

SPECIALIZED TRAINING

40-Hour HAZWOPER Training
29 CFR 1910.120 OSHA

8-Hour HAZWOPER Refresher

HIRE DATE

05/2021

Prior ATC Employment
1996-2000

EXPERIENCE PRIOR TO JOINING ATLAS

20+

EXPERIENCE & RESPONSIBILITIES

Ann is the Environmental Due Diligence Manager for ATC Group Services LLC (ATC), she has over 20 years of comprehensive experience in the environmental consulting service industry. Ms. O'Brien's experience includes oversight of assessment projects including Phase I ESAs, Phase II Subsurface Investigations, BEAs, and Superfund Amendment Reauthorization Act Tier II reporting; and, MDEQ Part 201 Environmental Remediation and Part 213 Leaking Underground Storage Tank site investigations and closures. Resource Conservation and Recovery Act (RCRA) experience includes preparation and implementation of a post closure plan; RCRA Facility Investigation. Remedial activities include soil vapor extraction; air sparge; biostimulation; bioaugmentation; vacuum enhanced recovery; in-situ chemical oxidation, and, dual phase extraction system with horizontal well installation.

Ann has been responsible for reviewing site data, designing site assessment and remediation plans preparing work scopes, calculating associated costs, and managing work. These projects include the site assessment, remediation and site closure of properties with soil, soil vapor, and groundwater impacted by chemical compounds associated with sites including industrial, manufacturing sites, landfills, and commercial, and governmental properties.

PROJECT EXPERIENCE

Phase I and II Environmental Site Assessments (ESA) - Numerous Clients, Michigan

Completion of Phase I and Phase II ESAs for residential, commercial and industrial clients within Michigan. Duties and responsibilities included proposal preparation, project set up, client/site owner liaison, property reconnaissance, regulatory records review,

Underground Storage Tank (UST) and Leaking Underground Storage Tank (LUST) Sites, Michigan, Ohio, Indiana

Environmental/Petroleum Manager primary point of contact, responsible for oversight of environmental staff, and ultimately responsible for a significant portion of coordination for over multiple LUST sites and other regulated facilities in Michigan, Ohio, and Indiana. Primary role responsibilities include construction oversight, management and documentation of UST removal and/or upgrade projects. These projects included management of preliminary pre-construction site assessments; estimation of soil excavation and dewatering requirements and associated management costs; implementing environmental and construction permit acquisitions, and associated compliance monitoring and reporting. Projects also included comprehensive senior technical review of subcontractor bid specifications and pricing

documents; human health risk assessments; and the preparation and submittal of UST removal notifications and reports in order to maintain regulatory compliance.

Part 213 Investigations, Numerous Clients Michigan

Completion of MDEQ Part 213 Leaking Underground Storage Tank Closure reports for sites with reported petroleum releases. Tasks included supervision of UST removal activities; collection of soil; quarterly groundwater monitoring events and data evaluation, monthly LNAPL monitoring events, system operation and maintenance and development of corrective action plans.

Part 201 State of Michigan: Numerous Clients Michigan

Project manager responsible for the coordination, planning and implementation of environmental services. Primary responsibilities included preparing cost estimates, contractor procurement, work plan review, management of field staff and communication. UST Removal, excavation, soil and ground water investigation. Reporting requirements to maintain regulatory compliance.

Pamela Wheeler

Senior Project Manager

OFFICE LOCATION

Novi, Michigan

EDUCATION

BS in Hydrogeology, Eastern Michigan University, 1998

CERTIFICATIONS

Environmental Professional per EPA's "All Appropriate Inquiry Rule"

HUD NEPA Training - June 2015

40-Hour Hazardous Waste Operations and Emergency Response Certification (OSHA)\8-Hour Refresher

AHERA Asbestos Building Inspector; State of Michigan EPA Accredited Asbestos Inspector, MI#A37924

Risk-based Corrective Action at Petroleum Release Sites

Industrial Site Storm Water Management Operator

DOT Hazardous Materials Regulations (49 CFR 172.704)

Chemical-terrorism Vulnerability Information (CVI) Authorized User

SARA Title III and MAERS

HIRE DATE

03/2013

EXPERIENCE PRIOR TO JOINING ATLAS

6

EXPERIENCE & RESPONSIBILITIES

Pamela has over 13 years of experience in the Environmental Consulting field and is a Senior Project Manager with responsibilities that include Phase I Environmental Site Assessments (ESAs) and Transaction Screens, as well as National Environmental Policy Act (NEPA) checklists, environmental assessments (EAs) and HUD and MSHDA Environmental Site Assessments (ESAs). She has conducted hundreds of assessments, Limited Phase II ESAs and prepared Baseline Environmental Assessments (BEAs), Due Care Plans (DCPs), Restrictive Covenants, Stormwater Pollution Prevention plans (SWPPP), Spill Prevention, Control and Countermeasure Plans (SPCC), Michigan Air Emission Reporting System (MAERS), Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and SARA Tier II reports for commercial clients. She also conducts property risk evaluation and surveys for asbestos containing materials, radon, lead-based paint and mold.

PROJECT EXPERIENCE

NEPA, MSHDA and HUD

Environmental packages in Southeast Michigan for MSHDA and HUD grant applications that have included NEPA statutory checklists for multi-tenant and multi-unit facilities throughout Michigan. She has also completed MSHDA Environmental Site Assessments of multi-tenant residential housing and schools. She has assisted in the completion of several NEPA EAs associated with federally funded projects. Pamela attended several HUD training sessions and serves as a Technical Assistant for CVR.

Phase I Environmental Site

Assessments (ESAs)

Completed Phase I ESAs, some of which have included asbestos, lead based paint, radon and mold sampling. Types of ESAs include:

- Commercial and industrial properties throughout Michigan, Ohio, Illinois and California
- Various Industrial / manufacturing / automotive facilities throughout Michigan and Ohio
- Retail businesses and restaurants throughout Michigan and Ohio
- Various gasoline stations and automotive related projects throughout Michigan
- Numerous parcels of undeveloped property of various sizes in 46 states
- Agricultural properties and farmsteads in rural areas of Michigan

- Apartment complexes and various apartment buildings throughout Michigan

Sampling and monitoring activities

Environmental sampling and monitoring activities for a variety of projects including soil, groundwater, gas, and surface water. Types of sampling and monitoring projects include:

- Type II sanitary landfill in Richfield, Michigan
- Privately held MDEQ Type II and EPA Subtitle D landfill in Birch Run, Michigan
- Municipal Waste Landfill in Ann Arbor, Michigan
- Double ring infiltrometer tests
- Type II water supply for a site in Northfield Township, Michigan

Underground Storage Tank Closures

Numerous environmental sampling and monitoring activities, as well as closure report writing for projects associated with UST Subsurface Investigations. These sampling and monitoring activities are designed to assess environmental impairment liability with respect to releases of hazardous substances. Types of UST closures include: gas stations, industrial properties, airport rental car facilities and auto repair facilities.



APPENDIX J

SCOPE OF WORK

April 30, 2021

Scope of Service: QQ 100 Lenox St.

The Contractor must conduct a Phase I Environmental Site Assessment (ESA) in accordance with American Society for Testing and Materials (ASTM) Practice E1527-13, consistent with the All Appropriate Inquiries (AAI) Final Rule (40 CFR Part 312).



APPENDIX K
OTHER SUPPORTING DOCUMENTATION

100 LENOX 48215 (Property Address)

Parcel Number: 21000110-6



Item 1 of 2 [2 Images / 0 Sketches](#)

Property Owner: DETROIT PARKS & RECREATION

Summary Information

> Assessed Value: \$0 | Taxable Value: \$0 > Property Tax information found

Owner and Taxpayer Information

Owner	DETROIT PARKS & RECREATION CITYOWNED ADMIN 735 RANDOLPH DETROIT, MI 48226-2830	Taxpayer	SEE OWNER INFORMATION
--------------	---	-----------------	-----------------------

General Information for Tax Year 2021

Property Class	202 202-COMMERCIAL VACANT	Unit	01 CITY OF DETROIT
School District	DETROIT CITY SCHOOL DISTRICT	Assessed Value	\$0
WARD#	21	Taxable Value	\$0
DISTRICT	3	State Equalized Value	\$0
ASMT CODE	Not Available	Date of Last Name Change	05/14/2019
RELATED #	Not Available	Notes	Not Available
Historical District	Not Available	Census Block Group	Not Available
COUNCIL #	Not Available	Exemption	No Data to Display

Principal Residence Exemption Information

Homestead Date No Data to Display

Principal Residence Exemption	June 1st	Final
2021	0.0000 %	0.0000 %

Land Information

Zoning Code	PR	Total Acres	58.447
Land Value	\$0	Land Improvements	\$0
Renaissance Zone	No	Renaissance Zone Expiration Date	No Data to Display
ECF Neighborhood	Not Available	Mortgage Code	No Data to Display
Lot Dimensions/Comments	Not Available	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

S--E JEFFERSON PT OF P CS 689,219 & 321 DESC AS FOLS BEG AT A PTE IN E LINE P C 321, 360.80 FT NLY ALG SD LINE FROM U S HARBOR LINE TH S 66D 03M 36S W 72.26 FT TH N 26D 06M 30S W 380 FT TH S 66D 03M 36S W 72.26 FT TH S 26D 05M 44S E 167 FT TH S 66D 03M 36S W 144.67 FT TH S 26D 04M 11S E 521.19 FT TH S 76D 08M 13S W 534.59 FT TH S 82D 26M 12S W 2096.72 FT TH N 26D 03M W 633.36 FT TH N 64D 04M 40S E 1055 FT TH S 26D 03M E 12.73 FT ALG E LINE OF P C 131 TH N 67D 08M 30S E 588.21 FT TH S 26D 03M E 255.87 FT TH N 63D 51M 45S E 577.92 FT TH N 26D 0M 39S W 30.82 FT TH N 63D 51M 45S E 577 FT TH S 26D 07M 15S E 846.74 FT TO P O B 21/--- 53.598 AC

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page
No sales history found.						

Image/Sketch for Parcel: 21000110-6



****Disclaimer:** BS&A Software provides BS&A Online as a way for municipalities to display information online and is not responsible for the content or accuracy of the data herein. This data is provided for reference only and WITHOUT WARRANTY of any kind, expressed or inferred. Please contact your local municipality if you believe there are errors in the data.

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100 LENOX 48215 (Property Address)

Parcel Number: 21000110-6



Item 1 of 2 [2 Images / 0 Sketches](#)

Property Owner: DETROIT PARKS & RECREATION

Summary Information

> Assessed Value: \$0 | Taxable Value: \$0 > [Property Tax information found](#)

Owner and Taxpayer Information

Owner	DETROIT PARKS & RECREATION Taxpayer CITYOWNED ADMIN 735 RANDOLPH DETROIT, MI 48226-2830	SEE OWNER INFORMATION
--------------	---	-----------------------

Legal Description

S--E JEFFERSON PT OF P CS 689,219 & 321 DESC AS FOLS BEG AT A PTE IN E LINE P C 321, 360.80 FT NLY ALG SD LINE FROM U S HARBOR LINE TH S 66D 03M 36S W 72.26 FT TH N 26D 06M 30S W 380 FT TH S 66D 03M 36S W 72.26 FT TH S 26D 05M 44S E 167 FT TH S 66D 03M 36S W 144.67 FT TH S 26D 04M 11S E 521.19 FT TH S 76D 08M 13S W 534.59 FT TH S 82D 26M 12S W 2096.72 FT TH N 26D 03M W 633.36 FT TH N 64D 04M 40S E 1055 FT TH S 26D 03M E 12.73 FT ALG E LINE OF P C 131 TH N 67D 08M 30S E 588.21 FT TH S 26D 03M E 255.87 FT TH N 63D 51M 45S E 577.92 FT TH N 26D 0M 39S W 30.82 FT TH N 63D 51M 45S E 577 FT TH S 26D 07M 15S E 846.74 FT TO P O B 21/--- 53.598 AC

Recalculate amounts using a different Payment Date

You can change your anticipated payment date in order to recalculate amounts due as of the specified date for this property.

Enter a Payment Date

Tax History



Year	Season	Total Amount	Total Paid	Last Paid	Total Due
2021	Summer	\$0.00	\$0.00		\$0.00
2020	Winter	\$0.00	\$0.00		\$0.00
2020	Summer	\$0.00	\$0.00		\$0.00
2019	Winter	\$0.00	\$0.00		\$0.00

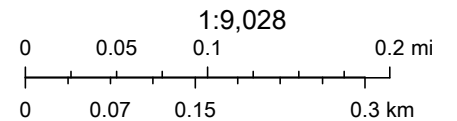
****Disclaimer:** BS&A Software provides BS&A Online as a way for municipalities to display information online and is not responsible for the content or accuracy of the data herein. This data is provided for reference only and WITHOUT WARRANTY of any kind, expressed or inferred. Please contact your local municipality if you believe there are errors in the data.

Wayne County Parcel Viewer



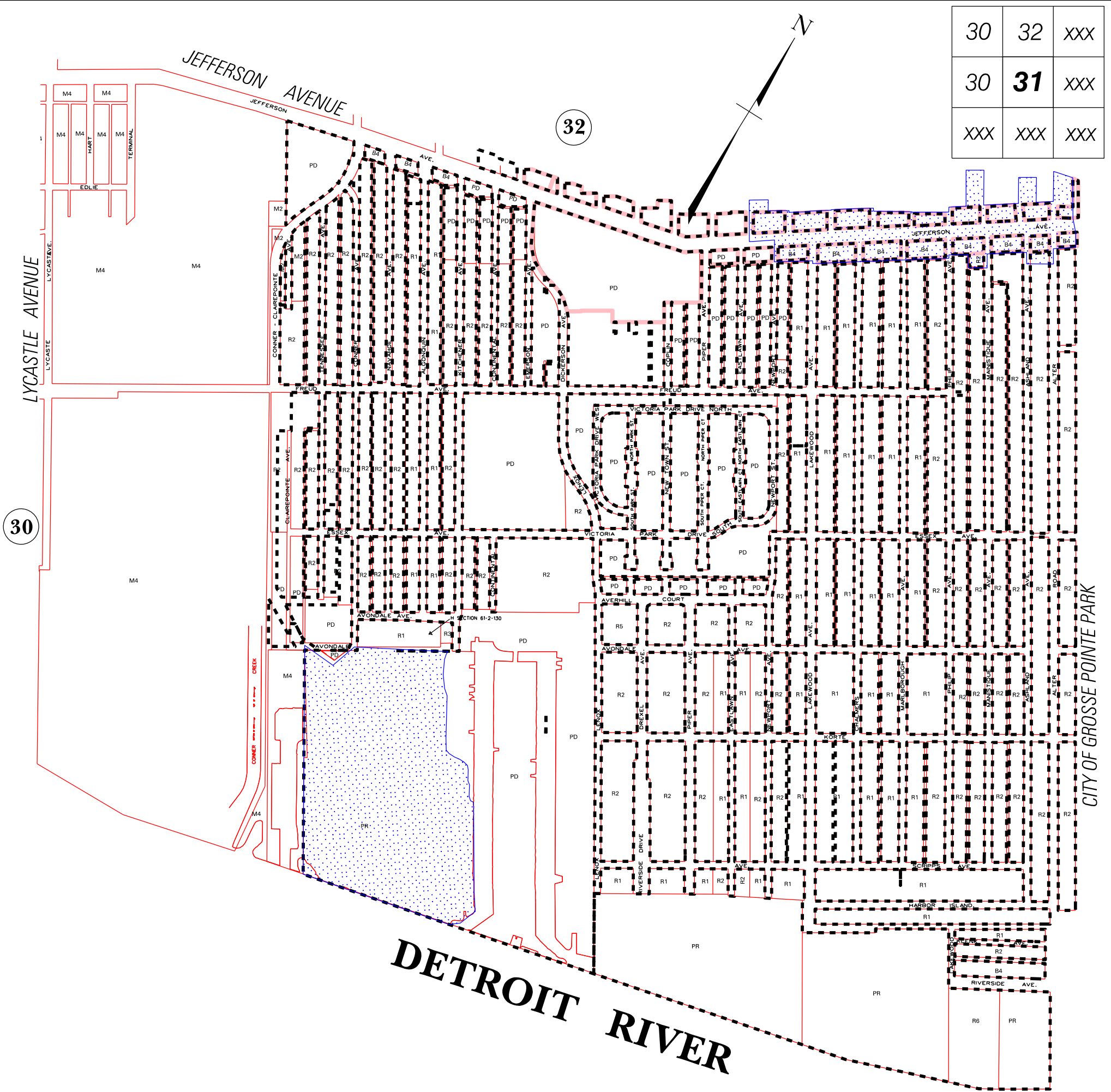
August 5, 2021

-  Condominiums
-  Parcel Boundaries



City of Windsor, SEMCOG, Province of Ontario, Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, AAFC, NRCan

30	32	XXX
30	31	XXX
XXX	XXX	XXX



Andrew Temerowski

From: Assessors <Assessors@detroitmi.gov>
Sent: Friday, August 6, 2021 11:26 AM
To: Andrew Temerowski
Subject: Automatic reply: [EXTERNAL]FOIA Request 100 Lenox

Thank you for contacting the Office of the Assessor!

This mailbox is being monitored. Please consider this message a receipt.

We will make every effort to respond to your inquiry within two business days, however, due to COVID-19 restrictions, our response time may be impacted. Please include a telephone number in case we need to contact you. We appreciate your patience.

Property transfer information updates and current property tax information available by viewing or setting up an account at the BS&A Web Portal: <https://bsaonline.com/Account/LogOn?uid=155>.

Customer Service Telephone Hours: Monday - Friday, 8:00 am – 4:30 pm EST

Detroit Taxpayer Service Center Closed on Fridays, Weekends and Holidays

Phone Number: 313-224-3035

Search downloadable forms here: [Property Assessment Documents](#)

The following documents are accepted: Dropbox located in the Detroit Taxpayer Service Center Forms Center and the Woodward Ave public entrance, United States Postal Service, express service or email (preferably in PDF format). When send to our email address, please make sure the photos and text are legible.

- Property Transfer Affidavits - [STC Form 4260 - PTA](#) - Questions 1-9 must be complete to expedite services.
- Principal Residence Exemption Affidavits - [STC Form 2368 - PRE](#) - Questions 1-9 must be complete to expedite services.
- Rescind Principal Residence Exemption Affidavits - [STC Form 2602 - Rescind PRE](#) - Questions 1-14 must be complete to expedite services.
- Change of Mailing Address Forms - [Update Mailing Address](#)
- Neighborhood Enterprise Zone Application
- Religious and Charitable Application for Real Property Tax Exemption

The following documents are accepted: Dropbox at the Woodward Ave public entrance and the Detroit Taxpayer Service Center Forms Center, United States Postal Service or express service:

- Property Transfer Affidavits - [STC Form 4260 - PTA](#) - Questions 1-9 must be complete to expedite services.
- Principal Residence Exemption Affidavits - [STC Form 2368 - PRE](#) - Questions 1-9 must be complete to expedite services.
- Rescind Principal Residence Exemption Affidavits - [STC Form 2602 - Rescind PRE](#) - Questions 1-14 must be complete to expedite services.
- Change of Mailing Address Forms - [Update Mailing Address](#)
- Neighborhood Enterprise Zone Application
- Religious and Charitable Application for Real Property Tax Exemption
- Disabled Veteran Exemption Affidavit - [STC Form 5107](#)

- Homeowners Property Tax Assistance Program Application - [2021 HPTAP](#)

Mailing Address

City of Detroit
OCFO - Office of the Assessor
2 Woodward Ave - Suite 804
Detroit, MI 48226



LAW DEPARTMENT

Coleman A. Young Municipal Center
2 Woodward Avenue, Suite 500
Detroit, Michigan 48226-3437

Phone 313•224•4550
Fax 313•224•5505
www.detroitmi.gov

August 9, 2021

Andrew Temerowski Project Scientist
Atlas
46555 Humboldt Drive, Suite 100
Novi, MI 48733

**RE: Freedom of Information Act Request A21-12225, Dated August 6, 2021,
Concerning City of Detroit Records Pertaining to 100 Lenox Street**

Dear Mr. Temerowski:

This letter serves as the City of Detroit's response to the above-referenced matter. Your request was received at the City of Detroit Law Department Freedom of Information Act Section via facsimile or email, on August 6, 2021. Because your request was received by electronic transmission, pursuant to Section 5(1) of the Michigan Freedom of Information Act (the "Act"), MCL 15.235(1); it is deemed to have been received at the Law Department on the next business day, August 9, 2021.

Pursuant to Section 5(2) of the Act, MCL 15.235(2), the City's response is due within five (5) business days. However, due to the nature and the scope of your request and the volume of the requests received by the City, we are extending the City's response deadline by ten (10) additional business days in accordance with Section 5(2)(d) of the Act, MCL 15.235(2)(d). Therefore, your request will be granted, denied, or granted in part and denied in part on or before August 30, 2021.

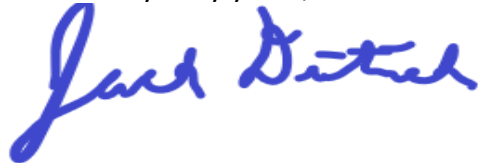
Please note, during the COVID-19 pandemic, many City employees have been required to be away from their job locations. While some employees are able to work remotely, others are not. As a result, many records required for an appropriate response cannot be obtained and/or processed during the crisis. While we are continuing to process requests for which we receive records, we anticipate that many of our responses will be delayed. ." To this end, City offices are in the process of re-opening. As City offices re-open, more records will be accessible and fewer responses will be delayed. We regret any inconvenience that this may cause.

If you did not provide an email address in your request, please forward it to me so we can provide you a response more readily than by regular mail or fax. Mail and fax are not preferred at this time since they both require in-office support. We thank you in advance for your understanding.

When contacting our office regarding this request, please include a description of the requested record listed in the subject line above. **For your information, please note that a public** summary of the City of Detroit Freedom of Information Act procedures and guidelines are at www.detroitmi.gov and specifically at <https://detroitmi.gov/document/foia-procedures-and-guidelines> and <https://detroitmi.gov/how-do-i/request-document/foia-freedom-information-act-request>.

Your request is being handled by Marwa Elshazly. If you have questions regarding your request, or if you did not provide an email address in your request, please forward it to Marwa Elshazly at Marwa.Elshazly@detroitmi.gov to provide you a response more readily than by regular mail or fax. Mail and fax are not preferred at this time since they both require in-office support. We thank you in advance for your understanding.

Very truly yours,



Jack P. Dietrich
Supervising Assistant Corporation Counsel
FOIA Section
City of Detroit Law Department
Phone Number: (313) 237-5030
dietjp@detroitmi.gov

JPD/atj

Message History (3)

✉ On 8/11/2021 6:09:41 PM, MI LARA FOIA Center wrote:

Subject: FOIA Request :: R073365-080621

Body:

August 11, 2021

RE: PUBLIC RECORDS REQUEST of August 09, 2021, Reference # R073365-080621.

Dear Requester:

The Michigan Department of Licensing and Regulatory Affairs (LARA) has received your August 09, 2021 request for records and has processed it under the provisions of the Michigan Freedom of Information Act (FOIA), 1976 PA 442, MCL 15.231 *et seq.*

You requested the following, in summary:

“100 & 189 Lenox Street, Detroit, Wayne County, Michigan 48215. Pursuant to the Freedom of Information Act, we are requesting any available information on the presence of above/underground storage tanks and/or leaking underground storage tanks and Baseline Environmental Assessments (BEAs) at the above locations. We want to identify, specifically, whether 1) underground storage tanks (USTs) are currently present at this site or whether USTs were present in the past, 2) whether any USTs present at this location has been identified as leaking. We would like to discuss available file information.”

Your request has been granted in part and denied in part. Please see comments below.

Comments:

As to the partial grant, the records are available in the [FOIA Center](#). **For future requests, please also note that a list of underground storage tank information in the possession of LARA may now be accessed via the following link: [Underground Storage Tank Information](#).**

As to the partial denial, LARA certifies that, to the best of LARA’s knowledge, information, and belief, the information pertaining to [100 Lenox Street, Detroit, Wayne County, Michigan 48215] does not exist within LARA under the description given or another reasonably known to LARA. MCL 15.235(5)(b).

Under section 10 of the FOIA, MCL 15.240, the Department is obligated to inform you that you may do the following:

1) Appeal this decision in writing to Appeals Officer Adam Sandoval, Department of Licensing and Regulatory Affairs, P.O. Box 30004, Lansing, MI 48909. The writing must specifically state the word “appeal” and must identify the reason or reasons you believe the partial denial should be reversed. The head of the Department or her designee must respond to your appeal within 10 business days of its receipt. Under unusual circumstances, the time for response to your appeal may be extended by 10 business days.

2) Commence an action in the Court of Claims within 180 days after the date of the final determination to deny

the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Please note: These records will be available in the FOIA Center for 365 calendar days; and will then be destroyed as required by the Department's records and retention schedule.


If you have questions concerning this matter, please email us at larafoiainfo@michigan.gov.

To review a copy of LARA's written public summary, procedures, and guidelines, please visit www.michigan.gov/larafoia.

Sincerely,

Sarah Cruz

LARA FOIA Office

 On 8/6/2021 10:37:49 AM, MI LARA FOIA Center wrote:



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
LANSING

ORLENE HAWKS
DIRECTOR

Dear Project Scientist Andrew Temerowski:

Thank you for your interest in public records of the Department of Licensing and Regulatory Affairs of Michigan. Your 8/6/2021 request has been received in this office and given the reference number R073365-080621 for tracking purposes. A written request made by facsimile, electronic mail, or other electronic transmission is not received by a public body's FOIA coordinator until one (1) business day after the electronic transmission is made. (MCL15.235(1))

Records Requested: "100 & 189 Lenox Street, Detroit, Wayne County, Michigan 48215. Pursuant to the Freedom of Information Act, we are requesting any available information on the presence of above/underground storage tanks and/or leaking underground storage tanks and Baseline Environmental Assessments (BEAs) at the above locations. We want to identify, specifically, whether 1) underground storage

tanks (USTs) are currently present at this site or whether USTs were present in the past, 2) whether any USTs present at this location has been identified as leaking. We would like to discuss available file information."

In accordance with the Michigan Freedom of Information Act (FOIA), MI LARA provides copies of its public records. Records which are exempt from disclosure by state or federal law will not be provided.

The FOIA does not require governmental bodies to create new records or answer questions. A request must ask for records or information already in existence. A person has the right to subscribe to future issuance of public records that are created, issued or disseminated on a regular basis.


Michigan LARA will respond within five business days to a request. If needed, the agency may issue a notice extending for up to 10 additional business days the time it has to respond to your request.

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed.

[FOIA Request Center](#)

-

Department of Licensing and Regulatory Affairs

 On 8/6/2021 10:37:48 AM, Andrew Temerowski wrote:

Request Created on Public Portal



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE AND HAZARDOUS MATERIALS DIVISION

MT 317107

IOC#: 2007-0037

FACILITY NUMBER (see invoice)
141921

INTENT OF REMOVAL, CLOSURE OR CHANGE-IN-SERVICE OF UNDERGROUND STORAGE TANKS
This information is required pursuant to Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 421, as amended. An owner/registrant who fails to notify is subject to a reclassification and/or civil penalties, not to exceed \$5,000 per day for each tank.

INSTRUCTIONS: NOTICES WILL ONLY BE ACCEPTED ON THIS FORM. YOUR LIST MUST BE REGISTERED PRIOR TO SUBMITTAL OF THIS FORM. Please type or print clearly. ALL information must be completed. See reverse side for additional information. If you have questions, call 517-335-2690, Monday through Friday between 8:00 am - 5:00 pm

I. OWNERSHIP OF TANKS		II. LOCATION OF TANKS	
<input type="checkbox"/> PLEASE CHECK IF NEW OWNER'S ADDRESS		<input type="checkbox"/> PLEASE CHECK IF SAME AS SECTION I	
NAME OF OWNER (CORPORATION, INDIVIDUAL, ETC.) Morgan Development, LLC		FACILITY NAME OR COMPANY SITE IDENTIFIER FORGET BOAT HOUSE	
STREET ADDRESS 15580 Telegraph Road		STREET ADDRESS (IF DIFFERENT ADDRESS) 189 LEXOX Street	
CITY Detroit	STATE MI	ZIP CODE 48239	CITY Detroit
COUNTY Wayne	TOWNSHIP	COUNTY Wayne	TOWNSHIP
AREA CODE & TELEPHONE NUMBER () 313-255-1150		CONTACT PERSON FOR LOCATION Mr. Don Marhofer	AREA CODE & TELEPHONE NUMBER () 313-255-1150

TANK INFORMATION			
TANK NUMBER AS INDICATED ON LIST INVOICE	PRODUCT LAST STORED IN TANK	SIZE OF TANK (GALLONS)	INDICATE ACTION TO BE TAKEN REMOVAL, CHANGE-IN-SERVICE, CLOSE IN PLACE
N 1	gasoline	10,000	removal
N 2	gasoline	10,000	removal

Comments: **Would like to request a waiver of the 30-day waiting period.**

Notification Submitted by (Print Name) Don Marhofer	Company Morgan Development, LLC
Signature <i>[Signature]</i>	Date 3-6-07
	Area Code & Telephone Number (248) 252-7690 cell

THIS IS NOT A REGISTRATION FORM. AN AMENDED REGISTRATION FORM, EQP3621, MUST BE FILED TO REMOVE THE LISTED TANKS FROM THE BILLING CYCLE

WHM USE ONLY

Approval is given to perform the indicated activity or after: **IMMEDIATELY**

Expiration Date: **IMMEDIATELY**

notification.

SUBSTANDARD TANK(S) MUST BE REMOVED AS SOON AS POSSIBLE BE SURE TO CONTACT THE FIELD OFFICE BEFORE REMOVAL.

Authorizing Signature <i>[Signature]</i>	Date 3/8/07
Mall White and Canary Copies To: WASTE AND HAZARDOUS MATERIALS DIVISION DEPARTMENT OF ENVIRONMENTAL QUALITY P O BOX 30157 LANSING, MI 48909-7657	Date Confirmation Mailed to Owner 3/8/07
	Entry Date 3/8/07

EQP3621 (Rev. 11/02)

INSTRUCTIONS



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE AND HAZARDOUS MATERIALS DIVISION

FACILITY NUMBER (see invoice)
41981

INTENT OF REMOVAL, CLOSURE OR CHANGE-IN-SERVICE OF UNDERGROUND STORAGE TANKS
The information is required pursuant to Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. An owner/operator who fails to notify is subject to a misdemeanor and/or civil penalties, not to exceed \$5,000 per day for each tank.

INSTRUCTIONS: NOTICES WILL ONLY BE ACCEPTED ON THIS FORM. YOUR UST MUST BE REGISTERED PRIOR TO SUBMITTAL OF THIS FORM. Please type or print clearly. ALL information must be completed. See reverse side for additional information. If you have questions, call 517-335-2690, Monday through Friday between 8.00 am - 5.00 pm

I. OWNERSHIP OF TANKS			II. LOCATION OF TANKS		
<input type="checkbox"/> PLEASE CHECK IF NEW OWNER'S ADDRESS			<input type="checkbox"/> PLEASE CHECK IF SAME AS SECTION I		
NAME OF OWNER (CORPORATION, INDIVIDUAL, ETC.) Morgan Development, LLC			FACILITY NAME OR COMPANY SITE IDENTIFIER Former Boat House		
STREET ADDRESS 15580 Telegraph Road			STREET ADDRESS (# P Box Not Acceptable) 189 Lenox Street		
CITY Detroit	STATE MI	ZIP CODE 48239	CITY Detroit	STATE MI	ZIP CODE
COUNTY Wayne	TOWNSHIP		COUNTY Wayne	TOWNSHIP	
AREA CODE & TELEPHONE NUMBER () 313-255-1150			CONTACT PERSON FOR LOCATION Mr. Don Marhofer	AREA CODE & TELEPHONE NUMBER () 313-255-1150	
TANK INFORMATION					
TANK NUMBER AS INDICATED ON UST INVOICE	PRODUCT LAST STORED IN TANK	SIZE OF TANK (GALLONS)	INDICATE ACTION TO BE TAKEN REMOVAL, CHANGE-IN-SERVICE, CLOSE IN PLACE		
1	gasoline	10,000	removal		
2	gasoline	10,000	removal		
Comments: Would like to request a waiver of the 30-day waiting period.					
Notification Submitted by (Print Name) Don Marhofer			Company Morgan Development, LLC		
Signature 			Date 3-6-07	Area Code & Telephone Number (248) 252-7899 cell	
THIS IS NOT A REGISTRATION FORM. AN AMENDED REGISTRATION FORM, EQP3821, MUST BE FILED TO REMOVE THE LISTED TANKS FROM THE BILLING CYCLE					
WHMD USE ONLY					
WHMD APPROVAL NOTICE					
Approval is given to perform the indicated activity at the above facility location. Action indicated above may commence on or after _____.					
Expiration Date: _____ . If action is not taken by the expiration date, you must submit another notification.					
Authorizing Signature			Date		
Mail White and Canary Copies To: WASTE AND HAZARDOUS MATERIALS DIVISION DEPARTMENT OF ENVIRONMENTAL QUALITY P O BOX 30157 LANSING, MI 48909-7657			Date Confirmation Mailed to Owner	Entry Date	

INSTRUCTIONS

Waste & Hazardous Materials Division
EQP3824 (Rev 11/02)
MAR 13 2007



STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE AND HAZARDOUS MATERIALS DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address:

Morgan Development LLC
15580 Telegraph Rd
Detroit, MI 48239

Location of Tanks:

Former Boat House
189 Lenox St
Detroit, MI 48239
County - Wayne
Facility ID - 00041981

KLW JUN 07 2007

ATTENTION: Morgan Development LLC

A Records Investigation was conducted on May 22, 2007, for the above-referenced facility for compliance with Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); the Michigan Underground Storage Tank Rules (MUSTR), 1999 AACS R 29.2101 et seq.; and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2003 AACS R 29.5101 et seq. The inspection showed that there was no action taken by the inspector.

Received ammended registration showing the underground storage tanks have been removed from the property and will forward to lansing. Tank # 1 a 10,000 gallon tank and tank #2 a 5000 gallon tank both bare steel tanks were removed on 3/7/07.

If you have additional questions concerning this matter, please contact me.

Gary Miles
Hazardous Materials Storage Inspector
SE Michigan District Office
27700 Donald Court
Warren, MI 48092-2793
Phone: (586) 753-3851
Fax: (586) 753-3831

5/22/07

Date

Waste & Hazardous
Materials Division

MAY 24 2007



MT 5/25/07

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - WASTE AND HAZARDOUS MATERIALS DIVISION
PO BOX 30157, LANSING, MI 48203-7257

REGISTRATION OF UNDERGROUND STORAGE TANKS

The information in this form is required under Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and civil penalties not to exceed \$5,000 per day for each.

<input type="checkbox"/> NEW REGISTRATION		FACILITY IDENTIFICATION NUMBER (if known)	
<input checked="" type="checkbox"/> AMENDED INFORMATION (for Registered USTs Only)		00041981	
NO. OF TANKS AT FACILITY	2	NO. OF CONTINUATION SHEETS ATTACHED	1
I. OWNERSHIP OF TANKS		II. LOCATION OF TANKS	
IF THIS IS A NEW OWNER'S ADDRESS, PLEASE CHECK <input type="checkbox"/>		IF INFORMATION IS THE SAME AS SECTION I, PLEASE CHECK <input type="checkbox"/>	
OWNER NAME (Cooperation/Individual, etc.) Morgan Development, LLC		FACILITY NAME OR SITE IDENTIFIER Former Boat House	
MAILING ADDRESS 15580 Telegraph Road		STREET ADDRESS (P.O. Box Not Acceptable) 189 Lenox Street	
CITY Detroit	STATE MI	ZIP 48239	CITY Detroit
			STATE Michigan
			ZIP
COUNTRY (Please Specify) <input checked="" type="checkbox"/> USA <input type="checkbox"/> OTHER		COUNTRY Wayne	
TELEPHONE (Including Area Code) (313) 255-1150		TELEPHONE (Including Area Code) () -	
TAX PAYER ID OR SOCIAL SECURITY NUMBER			
LATITUDE AND LONGITUDE of facility (if known)			
LATITUDE (North):		LONGITUDE (West):	
III. TYPE OF OWNER			
<input type="checkbox"/> FEDERAL		<input checked="" type="checkbox"/> COMMERCIAL	
<input type="checkbox"/> STATE GOVERNMENT		<input type="checkbox"/> PRIVATE	
<input type="checkbox"/> LOCAL GOVERNMENT		ARE TANKS LOCATED ON LAND WITHIN A RESERVATION? <input type="checkbox"/> YES <input type="checkbox"/> NO	
IF TANKS ARE LOCATED WITHIN A RESERVATION, DOES A NATIVE AMERICAN TRIBE OWN TANKS? <input type="checkbox"/> YES <input type="checkbox"/> NO			
IF TANKS ARE OWNED BY A TRIBE, NAME OF TRIBE: _____			
IV. TYPE OF FACILITY			
<input type="checkbox"/> PUBLIC GAS STATION	<input type="checkbox"/> LOCAL GOVERNMENT	<input type="checkbox"/> CONTRACTOR	
<input checked="" type="checkbox"/> PRIVATE GAS STATION	<input type="checkbox"/> STATE GOVERNMENT	<input type="checkbox"/> TRUCKING/TRANSPORT	
<input type="checkbox"/> MARINE GAS STATION	<input type="checkbox"/> FEDERAL/NON-MILITARY	<input type="checkbox"/> UTILITIES	
<input type="checkbox"/> PETROLEUM DISTRIBUTOR	<input type="checkbox"/> FEDERAL-MILITARY	<input type="checkbox"/> RESIDENTIAL	
<input type="checkbox"/> AIRLINE AND/OR AIRCRAFT OWNER	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> FARM	
<input type="checkbox"/> AUTO DEALERSHIP	<input type="checkbox"/> INDUSTRIAL	<input checked="" type="checkbox"/> OTHER (Explain) Vacant land	
<input type="checkbox"/> RAILROAD	<input type="checkbox"/> HOSPITAL	(former boat house)	
V. CONTACT PERSON			
NAME Mr. Don Marhofer	JOB TITLE Director of Land Development	TELEPHONE (Including Area Code) (313) 255-1150	
VI. FINANCIAL RESPONSIBILITY			
I HAVE MET THE FINANCIAL RESPONSIBILITY REQUIREMENTS AS REQUIRED IN THE MICHIGAN UNDERGROUND STORAGE TANK RULES (MUSTR) (Check All Items Below That Apply)			
<input type="checkbox"/> SELF INSURANCE	<input type="checkbox"/> GUARANTEE	<input type="checkbox"/> TRUST FUND	
<input type="checkbox"/> COMMERCIAL INSURANCE	<input type="checkbox"/> SURETY BOND		
<input type="checkbox"/> RISK RETENTION GROUP	<input type="checkbox"/> LETTER OF CREDIT		
VII. CERTIFICATION			
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS FORM AND ALL ATTACHED DOCUMENTS AND THAT I HAVE VERIFIED THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.			
NAME AND OFFICIAL TITLE OF OWNER OR OWNERS' AUTHORIZED REPRESENTATIVE Don Marhofer Director of Land Development		SIGNATURE 	DATE 3-14-07

VII. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete the following pages for each tank at this location; Copy these pages for additional tanks if needed)								
TANK IDENTIFICATION NUMBER	1	2						
7. STATUS OF TANKS (Check One)								
CURRENTLY IN USE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARILY OUT OF USE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AMENDMENT OF INFORMATION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<small>(If tanks are removed/abandoned, complete page 3, Section 10)</small>								
2. DATE OF INSTALLATION (Month/Day/Year)	Unknown	Unknown						
3. ESTIMATED TOTAL CAPACITY (Gallons)	10,000	5,000						
4. MATERIAL OF CONSTRUCTION (Mark All That Apply)								
ASPHALT COATED OR BARE STEEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CATHODICALLY PROTECTED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPDOXY COATED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMPOSITE (Steel With Fiberglass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LINED INTERIOR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DOUBLE WALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
POLYETHYLENE TANK JACKET	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONCRETE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EXCAVATION LINER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAS TANK BEEN REPAIRED?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. PIPING MATERIAL (Mark All That Apply)								
BARE STEEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GALVANIZED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COPPER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CATHODICALLY PROTECTED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DOUBLE WALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLEXIBLE PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENVIROFLEX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GEOFLEX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. PIPING (Type) (Mark All That Apply)								
SUCTION: NO VALVE AT TANK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUCTION: VALVE AT TANK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRESSURE (Remote)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAS PIPING BEEN REPAIRED?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TANK IDENTIFICATION NUMBER	1	2						
7. SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME								
GASOLINE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DIESEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GASOHOL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
KEROSENE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Not For Consumer Use On Premises) FUEL OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOTOR OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
USED OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAZARDOUS SUBSTANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TANK HAS COMPARTMENTS (List substances in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CERCLA NAME AND/OR CHEMICAL ABSTRACT SERVICE (CAS) NUMBER (if hazardous substance stored)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IX. TANKS OUT OF USE OR CHANGE IN SERVICE								
NOTE: A SITE ASSESSMENT MUST BE COMPLETED UNLESS YOU REPORT A CONFIRMED RELEASE								
1. CLOSING OF TANK								
A. ESTIMATED DATE LAST USED (Month/Day/Year)	Unknown	Unknown						
B. ESTIMATED DATE TANK REMOVED/ CLOSED IN PLACE (Month/Day/Year)	3/9/07	3/9/07						
C. TANK WAS REMOVED FROM GROUND	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. TANK FILLED WITH INERT MATERIAL (Sand, Concrete, etc.) • DESCRIBE TYPE OF FILL USED • REASON TANK WAS NOT REMOVED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. CHANGE IN SERVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X. CERTIFICATION OF COMPLIANCE								
1. INSTALLATION								
A. INSTALLER CERTIFIED BY TANK AND PIPING MANUFACTURERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. INSTALLER CERTIFIED OR LICENSED BY STU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. INSTALLATION INSPECTED BY A REGISTERED ENGINEER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. INSTALLATION INSPECTED AND APPROVED BY STU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. ANOTHER METHOD ALLOWED BY STU (Please Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TANK IDENTIFICATION NUMBER	1		2											
2. RELEASE DETECTION	TANK	PIPE	TANK	PIPE	TANK	PIPE	TANK	PIPE	TANK	PIPE	TANK	PIPE	TANK	PIPE
A. MANUAL (Static) TANK GAUGING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. TANK TIGHTNESS TESTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. INVENTORY CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. AUTOMATIC TANK GAUGING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. VAPOR MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. GROUNDWATER MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. INTERSTITIAL MONITORING DOUBLE WALLED TANK/PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. AUTOMATIC LINE LEAK DETECTORS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. LINE TIGHTNESS TESTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. OTHER METHOD ALLOWED BY STU (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. SPILL AND OVERFILL PROTECTION														
A. OVERFILL DEVICE INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. SPILL DEVICE INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. HAVE YOU INSTALLED IMPRESSED CURRENT CATHODIC PROTECTION?														
A. YES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. NO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I CERTIFY THE INFORMATION CONCERNING INSTALLATION THAT IS PROVIDED IN SECTION X IS TRUE TO THE BEST OF MY BELIEF AND KNOWLEDGE.														
INSTALLER:														
_____					_____					_____				
NAME PRINTED					SIGNATURE					DATE				

COMPANY														

COMMENTS AND/OR CLARIFICATIONS FOR THE ST STAFF:

After UST removal on March 9, 2007, it was determined that UST #2 was approximately 5,000 gallons in capacity, not 10,000 gallons as previously registered. Therefore, this amended registration has been submitted.



Michigan 5-2-07/LM

UNDERGROUND STORAGE TANK SYSTEM SITE ASSESSMENT REPORT AND CLOSURE OR CHANGE-IN-SERVICE REGISTRATION FORM

This information is required under Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, Act 451 of the Public Acts of 1994, being Sections 324 21101 to 324 21113 of the Michigan Compiled Laws Annotated. Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5000 per day for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS: For permanent closure and change-in-service, complete all the information on this form and submit with the site assessment analytical results, chain of custody and site sketch which indicates the location and depths of tanks, piping, and samples. This form must be received within 45 days of the samples being taken. The owner is required to keep a copy of the site assessment report for a minimum of three years. See reverse side of this form for additional information.			FACILITY ID NUMBER <div style="border: 1px solid black; border-radius: 10px; padding: 2px; display: inline-block;">00041981</div>		
I. OWNERSHIP OF TANKS			II. LOCATION OF TANKS		
NAME OF OWNER (CORPORATION, INDIVIDUAL, ETC.) Morgan Development, LLC			FACILITY NAME OR COMPANY SITE IDENTIFIER Former Boat House		
STREET ADDRESS 15580 Telegraph Road			STREET ADDRESS (PO BOX NOT ACCEPTABLE) 189 Lenox Street		
CITY Detroit	STATE MI	ZIP CODE 48239	CITY Detroit	STATE MI	ZIP CODE
AREA CODE & TELEPHONE NUMBER 313-255-1150			CONTACT PERSON FOR LOCATION Mr. Don Marhofer		AREA CODE & TELEPHONE NUMBER 313-255-1150
<div style="font-size: 1.5em; font-weight: bold; margin-bottom: 5px;">SA# 20070031</div> III. TANK INFORMATION					
TANK NUMBER	1	2			
TANK SIZE	10,000 gallons	5,000 gallons			
SUBSTANCE STORED	Leaded gasoline	Leaded gasoline			
DATE LAST USED	unknown	unknown			
DATE CLOSED	3/9/07	3/9/07			
REMOVED FROM GROUND	3/9/07	3/9/07			
CLOSED IN PLACE (INDICATE TYPE OF FILL)	NA	NA			
CHANGE-IN-SERVICE					
OWNER'S NAME Mr. Don Marhofer		OWNER'S SIGNATURE 		DATE 4-20-07	
IV. SUBMITTER INFORMATION					
SUBMITTED BY (COMPANY NAME) McDowell & Associates, Ferndale, MI			NAME (INDIVIDUAL) Mr. Douglas M. McDowell, M.S., P.E.		
SIGNATURE 	DATE 4/20/07	AREA CODE & TELEPHONE NUMBER 248-399-2066			

DO NOT WRITE BELOW THIS LINE (FOR OFFICE USE ONLY)

SITE ASSESSMENT REVIEW REPORT

Your site assessment has been reviewed by the Storage Tank Unit staff and the following determination has been made:

Waste & Hazardous
Materials Division

- The contamination concentration is below the threshold detection levels, and there is no evidence of a confirmed release.
- The test methodology or level of detection is faulty. The data submitted is not considered valid. Please perform another site assessment and forward a copy of the results to this office within 45 days.
- The number of sampling points analyzed are considered inadequate to make a determination of the cleanliness of the site. Please perform another site assessment and forward a copy of the results to this office within 45 days.
- The contaminant concentrations are greater than the threshold detection levels and there is evidence of a confirmed release. A confirmed release report is being generated. Follow reporting requirements in accordance with 451 PA 1994, Part 213, as amended.
- The soils excavated and removed from the site were greater than allowable volumes. A confirmed release was not reported to this office within 24 hours per the Michigan Underground Storage Tank Rules (MUSTR) prior to excavation of contaminated soil. A confirmed release report is being generated. Follow reporting requirements in accordance with 451 PA 1994, Part 213, as amended.

APR 20 2007

SIGNATURE OF REVIEWER 	DATE OF REVIEW May 1, 2007
---------------------------	-------------------------------

MAIL COPIES TO:

WASTE AND HAZARDOUS MATERIALS DIVISION, STORAGE TANK UNIT
DEPARTMENT OF ENVIRONMENTAL QUALITY
PO BOX 30241 LANSING, MI 48909-7741

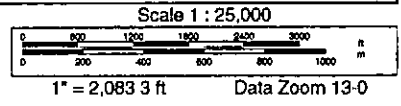
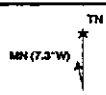
EQP3881 (11/05)

MAY 23 2007

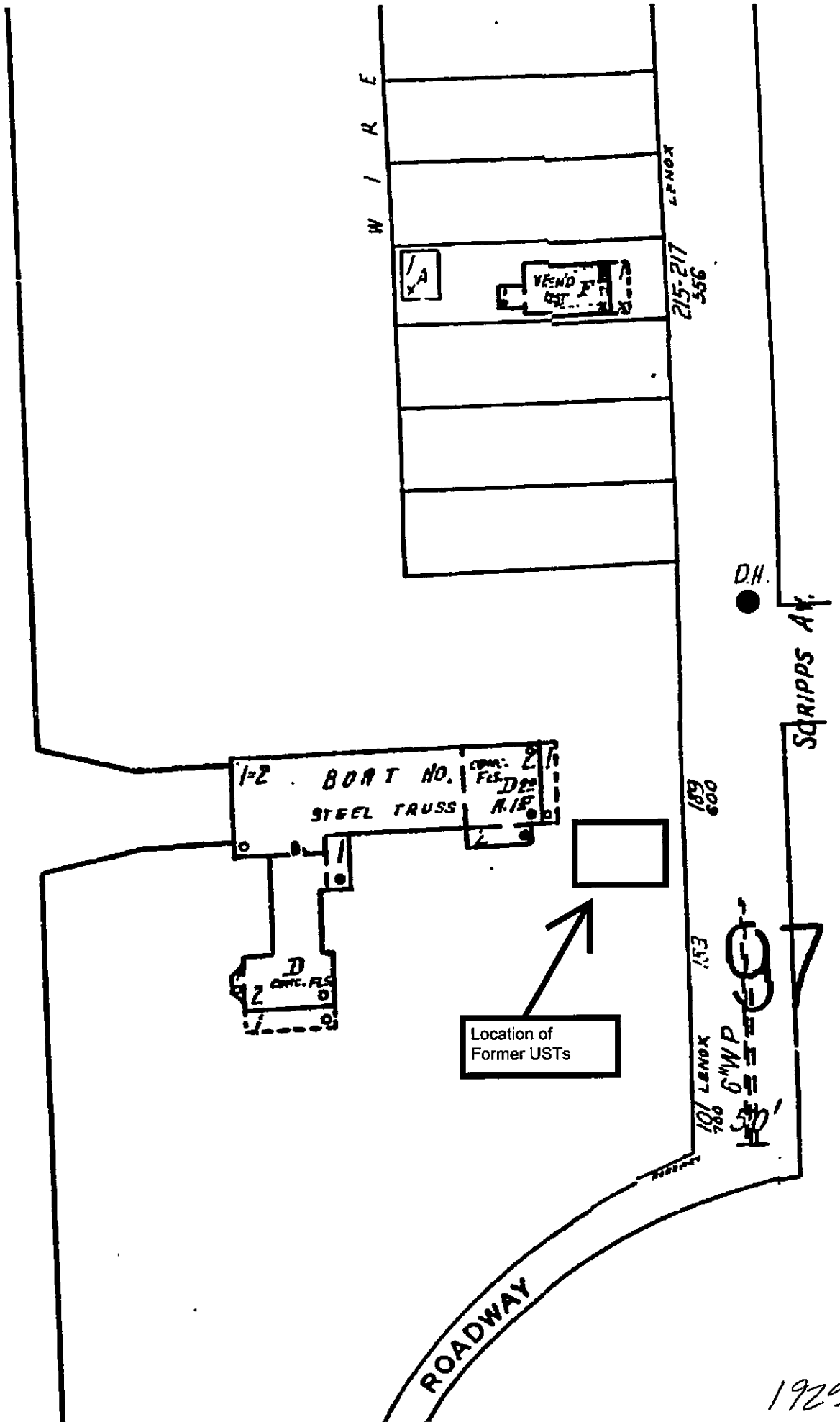
Site Location Map



07-14010

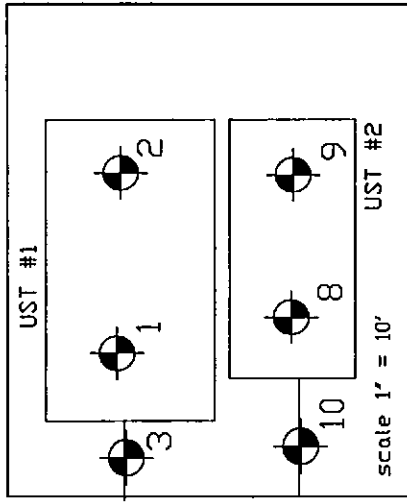


Site Sketch
 Former Boat House
 189 Lenox Street
 Detroit, MI
 Job No. 07-14010

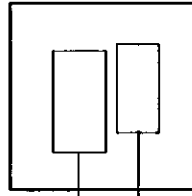


1929

INSET



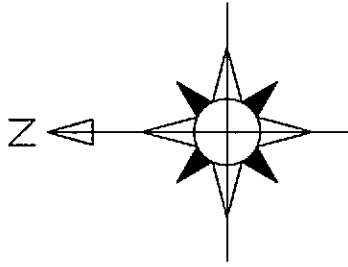
LENOX STREET



SEE INSET

PIPING RUN, APPROXIMATELY 2' BGS.

Notes: USTs located approximately 2' bgs.
 UST #1 approx. 10'6" in diameter.
 UST #2 approx. 8'0" in diameter.
 Soil Samples 1 & 2 taken from approx. 13' bgs.
 Soil Samples 8 & 9 taken from approx. 10' bgs.
 Soil Samples 3-7 and 10 taken from approx. 2' bgs.



Former Boat House
 189 Lenox Street
 Detroit, Michigan

Soil Sample Location Map

JOB NUMBER. 07-14010	DRAWN BY: JL
SCALE: 1" = 30'	DATE: 4/19/2007



21355 HATCHER AVENUE
 FERNDALE, MICHIGAN 48220
 PHONE: (248) 399-2066
 FAX: (248) 399-2157

Approximate Pipe Run Location
 Approximate Soil Sample Location



BGS= below ground surface



Brighton Analytical, L.L.C.
 2105 Pless Drive
 Brighton, Michigan 48116
 Phone: (810) 229-7575 FAX: (810) 229-8650
 e-mail: bai-brighton@sbcglobal.net

To: McDowell & Associates
 21355 Hatcher Ave.
 Ferndale, MI 48220

Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/19/2007

BA Report Number: 91927
 BA Sample ID: BN05463

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 1

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	64000	ug/Kg	1000	SW846 6020	GW	03/13/2007
Metal Soil (digestion)	Digested			3050	PR	03/13/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	03/16/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	03/16/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	03/09/2007
%Solid	83	%		ASTM D-2216	GW	03/14/2007



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e-mail: bai-brighton@sbcglobal.net

To: McDowell & Associates
21355 Hatcher Ave.
Ferndale, MI 48220

Sample Date: 03/09/2007
Submit Date: 03/12/2007
Report Date: 03/19/2007

BA Report Number: 91927
BA Sample ID: BN05463

Project Name: 07-14010
Project Number: 07-14010
Sample ID: 1

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: _____

Date: _____

W. P. ...
3/19/07



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 2105 Pless Drive
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 e-mail: bai-brighton@sbcglobal.net

To: McDowell & Associates
 21355 Hatcher Ave.
 Ferndale, MI 48220

Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/19/2007

BA Report Number: 91927
 BA Sample ID: BN05464

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 1D

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	19000	ug/Kg	1000	SW846 6020	GW	03/13/2007
Metal Soil (digestion)	Digested			3050	PR	03/13/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	03/16/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	03/16/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	03/09/2007
%Solid	83	%		ASTM D-2216	GW	03/14/2007



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To: McDowell & Associates
 21355 Hatcher Ave.
 Ferndale, MI 48220

Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/19/2007

BA Report Number: 91927
 BA Sample ID: BN05464

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 1D

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: *W. J. ...*
 Date: 3/19/07



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To: McDowell & Associates
 21355 Hatcher Ave.
 Ferndale, MI 48220

Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/19/2007

BA Report Number: 91927
 BA Sample ID: BN05465

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 2

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	36000	ug/Kg	1000	SW846 6020	GW	03/13/2007
Metal Soil (digestion)	Digested			3050	PR	03/13/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	03/16/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	03/16/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	03/09/2007
%Solid	84	%		ASTM D-2216	GW	03/14/2007



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To: McDowell & Associates
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 Ferndale, MI 48220

Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/19/2007

BA Report Number: 91927
 BA Sample ID: BN05465

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 2

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: *[Signature]*
 Date: 3/19/07



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 e-mail: bai-brighton@sbcglobal.net

To: McDowell & Associates
 21355 Hatcher Ave.
 Ferndale, MI 48220

Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/19/2007

BA Report Number: 91927
 BA Sample ID: BN05466

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 3

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	36000	ug/Kg	1000	SW846 6020	GW	03/13/2007
Metal Soil (digestion)	Digested			3050	PR	03/13/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	03/16/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	03/16/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	03/09/2007
%Solid	82	%		ASTM D-2216	GW	03/14/2007



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To: McDowell & Associates
21355 Hatcher Ave.
Ferndale, MI 48220

Sample Date: 03/09/2007
Submit Date: 03/12/2007
Report Date: 03/19/2007

BA Report Number: 91927
BA Sample ID: BN05466

Project Name: 07-14010
Project Number: 07-14010
Sample ID: 3

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by:

Date:

astrock
3/19/07



Brighton Analytical, L.L.C.
 2105 Pless Drive
 Brighton, Michigan 48116
 Phone: (810) 229-7575 FAX: (810) 229-8650
 e-mail: bai-brighton@sbcglobal.net

Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/12/2007

To: McDowell & Associates
 21355 Hatcher Ave.
 Ferndale, MI 48220

BA Report Number: 92368
 BA Sample ID: BN07122

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 4

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	23000	ug/Kg	1000	SW846 6020	GW	04/10/2007
Metal Soil (digestion)	Digested			3050	PR	04/10/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	04/11/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	04/11/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	04/09/2007
%Solid	87	%		ASTM D-2216	GW	04/10/2007

All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: [Signature]
 Date: 4-12-07



Brighton Analytical, L.L.C.
 2105 Pless Drive
 Brighton, Michigan 48116
 Phone: (810) 229-7575 FAX: (810) 229-8650
 e-mail: bai-brighton@sbcglobal.net

To: McDowell & Associates
 21355 Hatcher Ave.
 Ferndale, MI 48220

Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/17/2007

BA Report Number: 92368B
 BA Sample ID: BN07123

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 5

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	98000	ug/Kg	1000	SW846 6020	GW	04/10/2007
Metal Soil (digestion)	Digested			3050	PR	04/10/2007
Fine/Coarse Fraction Metal						
Coarse fraction lead	77800	ug/Kg	1000	SW846 6020	GW	04/16/2007
Fine fraction lead	102000	ug/Kg	1000	SW846 6020	GW	04/16/2007
Total Lead (calculation)	89900	ug/Kg	1000	SW846 6020	GW	04/16/2007
Fine fraction lead soil (digestion)	Digested			3050	PR	04/16/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	04/11/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	04/11/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	04/09/2007
%Solid	87	%		ASTM D-2216	GW	04/10/2007



Brighton Analytical, L.L.C.

2105 Pless Drive

Brighton, Michigan 48116

Phone: (810) 229-7575 FAX: (810) 229-8650

e-mail: bai-brighton@sbcglobal.net

To: McDowell & Associates

21355 Hatcher Ave.

Ferndale, MI 48220

Sample Date: 04/09/2007

Submit Date: 04/09/2007

Report Date: 04/17/2007

BA Report Number: 92368B

BA Sample ID: BN07123

Project Name: 07-14010

Project Number: 07-14010

Sample ID: 5

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by:

Date:

[Signature]
4/17/07



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 e-mail: bai-brighton@sbcglobal.net

To: McDowell & Associates
 21355 Hatcher Ave.
 Ferndale, MI 48220

Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/17/2007

BA Report Number: 92368B
 BA Sample ID: BN07124

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 6

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	160000	ug/Kg	1000	SW846 6020	GW	04/10/2007
Metal Soil (digestion)	Digested			3050	PR	04/10/2007
Fine/Coarse Fraction Metal						
Coarse fraction lead	152000	ug/Kg	1000	SW846 6020	GW	04/16/2007
Fine fraction lead	240000	ug/Kg	1000	SW846 6020	GW	04/16/2007
Total Lead (calculation)	170000	ug/Kg	1000	SW846 6020	GW	04/16/2007
Fine fraction lead soil (digestion)	Digested			3050	PR	04/16/2007
TCLP Metal Analysis						
TCLP Lead	Not detected	ug/L	200	SW846 6020	GW	04/16/2007
TCLP Metal (digestion)	Digested			3015	PR	04/16/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	04/11/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	04/11/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	04/09/2007
%Solid	87	%		ASTM D-2216	GW	04/10/2007



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Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/17/2007

BA Report Number: 92368B
 BA Sample ID: BN07124

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 6

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: *[Signature]*
 Date: 04/17/07



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Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/17/2007

BA Report Number: 92368B
 BA Sample ID: BN07125

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 7

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	140000	ug/Kg	1000	SW846 6020	GW	04/10/2007
Metal Soil (digestion)	Digested			3050	PR	04/10/2007
Fine/Coarse Fraction Metal						
Coarse fraction lead	127000	ug/Kg	1000	SW846 6020	GW	04/16/2007
Fine fraction lead	133000	ug/Kg	1000	SW846 6020	GW	04/16/2007
Total Lead (calculation)	130000	ug/Kg	1000	SW846 6020	GW	04/16/2007
Fine fraction lead soil (digestion)	Digested			3050	PR	04/16/2007
TCLP Metal Analysis						
TCLP Lead	340	ug/L	200	SW846 6020	GW	04/16/2007
TCLP Metal (digestion)	Digested			3015	PR	04/16/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	04/11/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	04/11/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	04/09/2007
%Solid	74	%		ASTM D-2216	GW	04/10/2007



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Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/17/2007

BA Report Number: 92368B
 BA Sample ID: BN07125

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 7

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: *[Signature]*
 Date: 4/17/07



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Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/12/2007

To: McDowell & Associates
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 Ferndale, MI 48220

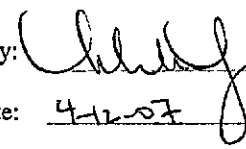
BA Report Number: 92368
 BA Sample ID: BN07126

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 7D

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	140000	ug/Kg	1000	SW846 6020	GW	04/10/2007
Metal Soil (digestion)	Digested			3050	PR	04/10/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	04/11/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	04/11/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	04/09/2007
%Solid	75	%		ASTM D-2216	GW	04/10/2007

All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: 
 Date: 4-12-07



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Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/19/2007

BA Report Number: 91927
 BA Sample ID: BN05467

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 8

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	70000	ug/Kg	1000	SW846 6020	GW	03/13/2007
Metal Soil (digestion)	Digested			3050	PR	03/13/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	03/16/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	03/16/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	03/09/2007
%Solid	82	%		ASTM D-2216	GW	03/14/2007



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Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/27/2007

BA Report Number: 91927B
 BA Sample ID: BN05468

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 9

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	240000	ug/Kg	1000	SW846 6020	GW	03/13/2007
Metal Soil (digestion)	Digested			3050	PR	03/13/2007
Fine/Coarse Fraction Metal						
Coarse fraction lead	102000	ug/Kg	1000	SW846 6020	GW	03/26/2007
Fine fraction lead	146000	ug/Kg	1000	SW846 6020	GW	03/26/2007
Total Lead (calculation)	115000	ug/Kg	1000	SW846 6020	GW	03/26/2007
Fine fraction lead soil (digestion)	Digested			3050	PR	03/26/2007
TCLP Metal Analysis						
TCLP Lead	340	ug/L	200	SW846 6020	GW	03/23/2007
TCLP Metal (digestion)	Digested			3015	PR	03/23/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	03/16/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	03/16/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	03/09/2007
%Solid	84	%		ASTM D-2216	GW	03/14/2007



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 Ferndale, MI 48220

Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/27/2007

BA Report Number: 91927B
 BA Sample ID: BN05469

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 10

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	120000	ug/Kg	1000	SW846 6020	GW	03/13/2007
Metal Soil (digestion)	Digested			3050	PR	03/13/2007
Fine/Coarse Fraction Metal						
Coarse fraction lead	88400	ug/Kg	1000	SW846 6020	GW	03/26/2007
Fine fraction lead	102000	ug/Kg	1000	SW846 6020	GW	03/26/2007
Total Lead (calculation)	92800	ug/Kg	1000	SW846 6020	GW	03/26/2007
Fine fraction lead soil (digestion)	Digested			3050	PR	03/26/2007
TCLP Metal Analysis						
TCLP Lead	Not detected	ug/L	200	SW846 6020	GW	03/23/2007
TCLP Metal (digestion)	Digested			3015	PR	03/23/2007
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	03/16/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	03/16/2007
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	MCD	03/09/2007
%Solid	85	%		ASTM D-2216	GW	03/14/2007



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Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/27/2007

BA Report Number: 91927B
 BA Sample ID: BN05469

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: 10

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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All soil results based on dry weight.

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: *J. McDowell*
 Date: 3/27/07



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Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/14/2007

BA Report Number: 91927
 BA Sample ID: BN05470

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: FB1

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Total Metal Analysis						
Total Lead	Not detected	ug/L	3	EPA 200.8 rev5.4	GW	03/13/2007
Metal Water Total (digest)	Digested			3015	PR	03/13/2007
Volatile Analysis						
Benzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,2-Dibromoethane	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,2-Dichloroethane	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
Ethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
Isopropylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
2-Methylnaphthalene	Not detected	ug/L	5	SW846 8260B	CW	03/13/2007
Naphthalene	Not detected	ug/L	5	SW846 8260B	CW	03/13/2007
n-Propylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
Toluene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
Xylenes(total)	Not detected	ug/L	3	SW846 8260B	CW	03/13/2007

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: Upton
 Date: 3/19/07



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Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/14/2007

BA Report Number: 91927
 BA Sample ID: BN05471

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: Trip Blank

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Volatile Analysis						
Benzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,2-Dibromoethane	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,2-Dichloroethane	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
Ethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
Isopropylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
2-Methylnaphthalene	Not detected	ug/L	5	SW846 8260B	CW	03/13/2007
Naphthalene	Not detected	ug/L	5	SW846 8260B	CW	03/13/2007
n-Propylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
Toluene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	03/13/2007
Xylenes(total)	Not detected	ug/L	3	SW846 8260B	CW	03/13/2007

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: W. J. [Signature]
 Date: 3/19/07



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Sample Date: 03/09/2007
 Submit Date: 03/12/2007
 Report Date: 03/19/2007

BA Report Number: 91927
 BA Sample ID: BN05472

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: MeOH Blank

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	03/16/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	03/16/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	03/16/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	03/16/2007

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: WJTOPUL
 Date: 3/19/07



Brighton Analytical, L.L.C.
 2105 Pless Drive
 Brighton, Michigan 48116
 Phone: (810) 229-7575 FAX: (810) 229-8650
 e-mail: bai-brighton@sbcglobal.net

To: McDowell & Associates
 21355 Hatcher Ave.
 Ferndale, MI 48220

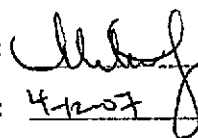
Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/12/2007

BA Report Number: 92368
 BA Sample ID: BN07127

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: Trip Blk

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Volatile Analysis						
Benzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,2-Dibromoethane	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,2-Dichloroethane	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
Ethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
Isopropylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
2-Methylnaphthalene	Not detected	ug/L	5	SW846 8260B	CW	04/10/2007
Naphthalene	Not detected	ug/L	5	SW846 8260B	CW	04/10/2007
n-Propylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
Toluene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
Xylenes(total)	Not detected	ug/L	3	SW846 8260B	CW	04/10/2007

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: 
 Date: 4-12-07



Brighton Analytical, L.L.C.
 2105 Pless Drive
 Brighton, Michigan 48116
 Phone: (810) 229-7575 FAX: (810) 229-8650
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To: McDowell & Associates
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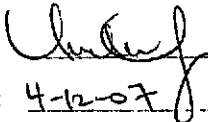
Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/12/2007

BA Report Number: 92368
 BA Sample ID: BN07128

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: Field Blk

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Volatile Analysis						
Benzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,2-Dibromoethane	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,2-Dichloroethane	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
Ethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
Isopropylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
2-Methylnaphthalene	Not detected	ug/L	5	SW846 8260B	CW	04/10/2007
Naphthalene	Not detected	ug/L	5	SW846 8260B	CW	04/10/2007
n-Propylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
Toluene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW846 8260B	CW	04/10/2007
Xylenes(total)	Not detected	ug/L	3	SW846 8260B	CW	04/10/2007

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: 
 Date: 4-12-07



Brighton Analytical, L.L.C.
 2105 Pless Drive
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 Phone: (810) 229-7575 FAX: (810) 229-8650
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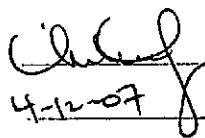
Sample Date: 04/09/2007
 Submit Date: 04/09/2007
 Report Date: 04/12/2007

BA Report Number: 92368
 BA Sample ID: BN07129

Project Name: 07-14010
 Project Number: 07-14010
 Sample ID: MeOH Blk

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
Volatile Analysis(Methanol Preserved)						
Benzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/Kg	20	SW846 8260B	CW	04/11/2007
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Ethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
Naphthalene	Not detected	ug/Kg	250	SW846 8260B	CW	04/11/2007
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Toluene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260B	CW	04/11/2007
Xylenes(total)	Not detected	ug/Kg	150	SW846 8260B	CW	04/11/2007

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDEQ designated target detection limits (TDL).

Released by: 
 Date: 4-12-07



Brighton Analytical, L.L.C.™

2105 Pless Drive
Brighton, MI 48114
Phone: 810-229-7575
Fax: 810-229-8650

COMPANY NAME: Mudowell & Associates

PROJECT NAME: 07-14010

PROJECT NUMBER: 07-14010

P. O. NUMBER:

REQUESTED TURNAROUND: (circle one)
Rush: 1-3 business days (only with lab & specify date needed)
Expedited: 5 business days
Standard: 10 business days

IF RUSH, approved by: _____

Sampling Time Date

4/9/07

Sample Description

1) 7122 4

2) 23 5

3) 24 6

4) 25 7

5) 10

TRUP BIK

FIELD BIK

MUDW BIK

BA PROJECT #
023108

ABBREVIATIONS FOR MATRIX

S = Solid
L = Liquid
DW = Drinking H₂O
WW = Wastewater
O = Oil
P = Wipe
A = Air (Tedlar Bag)
F = Filler
T = Tube
M = Methanol

Container Type & Quantity

VOA'S PRES Y

HDPE UNPRESERVED

HDPE H₂SO₄

HDPE HNO₃

HDPE NAOH

GLASS H₂SO₄

GLASS, NO PRESERVATIVE

MEOH PRESERVED (Field & Lab)

Analysis Requested/Method

FOR DISSOLVED METALS (L) LAB TO FILTER (P) FIELD FILTERED

Sample Matrix

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

leaded gasoline - metals

PAGE 1 OF 1

REPORT RESULTS TO:

Mudowell & Associates

Attn: Ten Lagerbaum

PHONE:

FAX: via email

Sample received within holding time? yes no

For TCLP ONLY - Federal Limits Other

Samples intact: yes no (if no, see below)

Note samples if not intact:

Headspace/bubbles in VOA'S? yes no n/a

Sample containers and COC match? yes no

Comments:

Temperature of Samples °C: 4

Handwritten notes:
GO TO 2070000000
ALL SAMPLES
REQ WITH 1/10/07
VIA

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
1	<i>[Signature]</i>	<i>[Signature]</i>	7/6/07		3				
2	<i>[Signature]</i>				4				



MT 3/23/07

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - WASTE AND HAZARDOUS MATERIALS DIVISION
PO BOX 30157, LANSING, MI 48908-7657

REGISTRATION OF UNDERGROUND STORAGE TANKS

The information in this form is required under "Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended." Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5,000 per day for each

<input type="checkbox"/> NEW REGISTRATION		FACILITY IDENTIFICATION NUMBER (if known)	
<input checked="" type="checkbox"/> AMENDED INFORMATION (for Registered USTs Only)		00041981	
NO. OF TANKS AT FACILITY	2	NO. OF CONTINUATION SHEETS ATTACHED	1
I. OWNERSHIP OF TANKS		II. LOCATION OF TANKS	
IF THIS IS A NEW OWNER'S ADDRESS, PLEASE CHECK <input type="checkbox"/>		IF INFORMATION IS THE SAME AS SECTION I, PLEASE CHECK <input type="checkbox"/>	
OWNER NAME (Corporation/Individual, etc.) Morgan Development, LLC		FACILITY NAME OR SITE IDENTIFIER Former Boat House	
MAILING ADDRESS 15580 Telegraph Road		STREET ADDRESS (P.O. Box Not Acceptable) 189 Lenox Street	
CITY Detroit	STATE MI	ZIP 48239	CITY Detroit
COUNTRY (Please Specify) <input checked="" type="checkbox"/> USA <input type="checkbox"/> OTHER _____		STATE Michigan	ZIP
TELEPHONE (Including Area Code) (313) 255 - 1150		TELEPHONE (Including Area Code) () -	
TAX PAYER ID OR SOCIAL SECURITY NUMBER			
LATITUDE AND LONGITUDE of facility (if known)			
LATITUDE (North):		LONGITUDE (West):	
III. TYPE OF OWNER			
<input type="checkbox"/> FEDERAL		<input checked="" type="checkbox"/> COMMERCIAL	
<input type="checkbox"/> STATE GOVERNMENT		<input type="checkbox"/> PRIVATE	
<input type="checkbox"/> LOCAL GOVERNMENT		ARE TANKS LOCATED ON LAND WITHIN A RESERVATION? <input type="checkbox"/> YES <input type="checkbox"/> NO	
IF TANKS ARE LOCATED WITHIN A RESERVATION, DOES A NATIVE AMERICAN TRIBE OWN TANKS? <input type="checkbox"/> YES <input type="checkbox"/> NO			
IF TANKS ARE OWNED BY A TRIBE, NAME OF TRIBE: _____			
IV. TYPE OF FACILITY			
<input type="checkbox"/> PUBLIC GAS STATION	<input type="checkbox"/> LOCAL GOVERNMENT	<input type="checkbox"/> CONTRACTOR	
<input type="checkbox"/> PRIVATE GAS STATION	<input type="checkbox"/> STATE GOVERNMENT	<input type="checkbox"/> TRUCKING/TRANSPORT	
<input type="checkbox"/> MARINE GAS STATION	<input type="checkbox"/> FEDERAL/NON-MILITARY	<input type="checkbox"/> UTILITIES	
<input type="checkbox"/> PETROLEUM DISTRIBUTOR	<input type="checkbox"/> FEDERAL-MILITARY	<input type="checkbox"/> RESIDENTIAL	
<input type="checkbox"/> AIRLINE AND/OR AIRCRAFT OWNER	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> FARM	
<input type="checkbox"/> AUTO DEALERSHIP	<input type="checkbox"/> INDUSTRIAL	<input checked="" type="checkbox"/> OTHER (Explain) Vacant land	
<input type="checkbox"/> RAILROAD	<input type="checkbox"/> HOSPITAL	(former boat house)	
V. CONTACT PERSON			
NAME Mr. Don Marhofer	JOB TITLE Director of Land Development	TELEPHONE (Including Area Code) (313) 255 - 1150	
VI. FINANCIAL RESPONSIBILITY			
I HAVE MET THE FINANCIAL RESPONSIBILITY REQUIREMENTS AS REQUIRED IN THE MICHIGAN UNDERGROUND STORAGE TANK RULES (MUSTR) (Check All Items Below That Apply)			
<input type="checkbox"/> SELF INSURANCE	<input type="checkbox"/> GUARANTEE	<input type="checkbox"/> TRUST FUND	
<input type="checkbox"/> COMMERCIAL INSURANCE	<input type="checkbox"/> SURETY BOND		
<input type="checkbox"/> RISK RETENTION GROUP	<input type="checkbox"/> LETTER OF CREDIT		
VII. CERTIFICATION			
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS FORM AND ALL ATTACHED DOCUMENTS AND THAT I HAVE VERIFIED THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.			
NAME AND OFFICIAL TITLE OF OWNER OR OWNERS' AUTHORIZED REPRESENTATIVE Don Marhofer Director of Land Development		SIGNATURE 	DATE 3-14-07

MAR 22 2007

Waste and Hazardous Materials Division

VIII. DESCRIPTION OF UNDERGROUND STORAGE TANKS

(Complete the following pages for each tank at this location; Copy these pages for additional tanks if needed)

TANK IDENTIFICATION NUMBER	1	2						
7. STATUS OF TANKS (Check One) CURRENTLY IN USE <input type="checkbox"/> TEMPORARILY OUT OF USE <input type="checkbox"/> AMENDMENT OF INFORMATION <input checked="" type="checkbox"/> <small>(If tanks are removed/closed, complete page 3, Section D)</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. DATE OF INSTALLATION (Month/Day/Year)	Unknown	Unknown						
3. ESTIMATED TOTAL CAPACITY (Gallons)	10,000	5,000						
4. MATERIAL OF CONSTRUCTION (Mark All That Apply) ASPHALT COATED OR BARE STEEL <input checked="" type="checkbox"/> CATHODICALLY PROTECTED STEEL <input type="checkbox"/> EPOXY COATED STEEL <input type="checkbox"/> COMPOSITE (Steel With Fiberglass) <input type="checkbox"/> FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> LINED INTERIOR <input type="checkbox"/> DOUBLE WALLED <input type="checkbox"/> POLYETHYLENE TANK JACKET <input type="checkbox"/> CONCRETE <input type="checkbox"/> EXCAVATION LINER <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER (Specify in comments area) <input type="checkbox"/> HAS TANK BEEN REPAIRED? <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. PIPING MATERIAL (Mark All That Apply) BARE STEEL <input checked="" type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> COPPER <input type="checkbox"/> CATHODICALLY PROTECTED <input type="checkbox"/> DOUBLE WALLED <input type="checkbox"/> FLEXIBLE PIPING <input type="checkbox"/> ENVIROFLEX <input type="checkbox"/> GEOFLEX <input type="checkbox"/> UNKNOWN <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. PIPING (Type) (Mark All That Apply) SUCTION; NO VALVE AT TANK <input type="checkbox"/> SUCTION; VALVE AT TANK <input type="checkbox"/> PRESSURE (Remote) <input type="checkbox"/> HAS PIPING BEEN REPAIRED? <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TANK IDENTIFICATION NUMBER	1	2						
7. SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME								
GASOLINE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DIESEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GASOHOL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
KEROSENE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Not For Consumptive Use On Premises) FUEL OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOTOR OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
USED OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAZARDOUS SUBSTANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TANK HAS COMPARTMENTS (List substances in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CERCLA NAME AND/OR CHEMICAL ABSTRACT SERVICE (CAS) NUMBER (if hazardous substance stored)								
IX. TANKS OUT OF USE OR CHANGE IN SERVICE								
NOTE: A SITE ASSESSMENT MUST BE COMPLETED UNLESS YOU REPORT A CONFIRMED RELEASE								
1. CLOSING OF TANK								
A. ESTIMATED DATE LAST USED (Month/Day/Year)	Unknown	Unknown						
B. ESTIMATED DATE TANK REMOVED/ CLOSED IN PLACE (Month/Day/Year)	3/9/07	3/9/07						
C. TANK WAS REMOVED FROM GROUND	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. TANK FILLED WITH INERT MATERIAL (Sand, Concrete, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
•DESCRIBE TYPE OF FILL USED								
•REASON TANK WAS NOT REMOVED								
E. CHANGE IN SERVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X. CERTIFICATION OF COMPLIANCE								
1. INSTALLATION								
A. INSTALLER CERTIFIED BY TANK AND PIPING MANUFACTURERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. INSTALLER CERTIFIED OR LICENSED BY STU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. INSTALLATION INSPECTED BY A REGISTERED ENGINEER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. INSTALLATION INSPECTED AND APPROVED BY STU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. ANOTHER METHOD ALLOWED BY STU (Please Specify)								

TANK IDENTIFICATION NUMBER	1		2													
2. RELEASE DETECTION	TAN	PIPC	TAN	PIPC	TAN	PIPC	TAN	PIPC	TAN	PIPC	TAN	PIPC	TAN	PIPC	TAN	PIPC
A. MANUAL (Static) TANK GAUGING	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
B. TANK TIGHTNESS TESTING	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
C. INVENTORY CONTROL	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
D. AUTOMATIC TANK GAUGING	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
E. VAPOR MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. GROUNDWATER MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. INTERSTITIAL MONITORING DOUBLE WALLED TANK/PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. AUTOMATIC LINE LEAK DETECTORS		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
I. LINE TIGHTNESS TESTING		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
K. OTHER METHOD ALLOWED BY STU (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. SPILL AND OVERFILL PROTECTION																
A. OVERFILL DEVICE INSTALLED	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
B. SPILL DEVICE INSTALLED	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
4. HAVE YOU INSTALLED IMPRESSED CURRENT CATHODIC PROTECTION?																
A. YES	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
B. NO	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
I CERTIFY THE INFORMATION CONCERNING INSTALLATION THAT IS PROVIDED IN SECTION X IS TRUE TO THE BEST OF MY BELIEF AND KNOWLEDGE.																
INSTALLER:																
_____					_____					_____						
NAME PRINTED					SIGNATURE					DATE						

COMPANY																

COMMENTS AND/OR CLARIFICATIONS FOR THE ST STAFF:

After UST removal on March 9, 2007, it was determined that UST #2 was approximately 5,000 gallons in capacity, not 10,000 gallons as previously registered. Therefore, this amended registration has been submitted.



MT 3/20/07

REGISTRATION OF UNDERGROUND STORAGE TANKS

The information in this form is required under "Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended." Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5,000 per day for each.

<input type="checkbox"/> NEW REGISTRATION		FACILITY IDENTIFICATION NUMBER (if known)	
<input checked="" type="checkbox"/> AMENDED INFORMATION (for Registered USTs Only)		00041981	
NO. OF TANKS AT FACILITY	2	NO. OF CONTINUATION SHEETS ATTACHED	0
I. OWNERSHIP OF TANKS		II. LOCATION OF TANKS	
IF THIS IS A NEW OWNER'S ADDRESS, PLEASE CHECK <input type="checkbox"/>		IF INFORMATION IS THE SAME AS SECTION I, PLEASE CHECK <input type="checkbox"/>	
OWNER NAME (Corporation/Individual, etc.) Morgan Development, LLC		FACILITY NAME OR SITE IDENTIFIER Former Boat House	
MAILING ADDRESS 15580 Telegraph Road		STREET ADDRESS (P.O. Box Not Acceptable) 189 Lenox Street	
CITY Detroit	STATE MI	ZIP 48239	CITY Detroit
			STATE Michigan
COUNTRY (Please Specify) <input checked="" type="checkbox"/> USA <input type="checkbox"/> OTHER		COUNTY Wayne	
TELEPHONE (Including Area Code) (313) 255 - 1150		TELEPHONE (Including Area Code) () -	
TAX PAYER ID OR SOCIAL SECURITY NUMBER			
LATITUDE AND LONGITUDE of facility (if known)			
LATITUDE (North):		LONGITUDE (West):	
III. TYPE OF OWNER			
<input type="checkbox"/> FEDERAL		<input checked="" type="checkbox"/> COMMERCIAL	
<input type="checkbox"/> STATE GOVERNMENT		<input type="checkbox"/> PRIVATE	
<input type="checkbox"/> LOCAL GOVERNMENT		ARE TANKS LOCATED ON LAND WITHIN A RESERVATION? <input type="checkbox"/> YES <input type="checkbox"/> NO	
IF TANKS ARE LOCATED WITHIN A RESERVATION, DOES A NATIVE AMERICAN TRIBE OWN TANKS? <input type="checkbox"/> YES <input type="checkbox"/> NO			
IF TANKS ARE OWNED BY A TRIBE, NAME OF TRIBE: _____			
IV. TYPE OF FACILITY			
<input type="checkbox"/> PUBLIC GAS STATION	<input type="checkbox"/> LOCAL GOVERNMENT	<input type="checkbox"/> CONTRACTOR	
<input type="checkbox"/> PRIVATE GAS STATION	<input type="checkbox"/> STATE GOVERNMENT	<input type="checkbox"/> TRUCKING/TRANSPORT	
<input type="checkbox"/> MARINE GAS STATION	<input type="checkbox"/> FEDERAL/NON-MILITARY	<input type="checkbox"/> UTILITIES	
<input type="checkbox"/> PETROLEUM DISTRIBUTOR	<input type="checkbox"/> FEDERAL-MILITARY	<input type="checkbox"/> RESIDENTIAL	
<input type="checkbox"/> AIRLINE AND/OR AIRCRAFT OWNER	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> FARM	
<input type="checkbox"/> AUTO DEALERSHIP	<input type="checkbox"/> INDUSTRIAL	<input checked="" type="checkbox"/> OTHER (Explain) Vacant land	
<input type="checkbox"/> RAILROAD	<input type="checkbox"/> HOSPITAL	(former boat house)	
V. CONTACT PERSON			
NAME Mr. Don Marhofer	JOB TITLE Director of Land Dev.	TELEPHONE (Including Area Code) (313) 225 - 1150	
VI. FINANCIAL RESPONSIBILITY			
I HAVE MET THE FINANCIAL RESPONSIBILITY REQUIREMENTS AS REQUIRED IN THE MICHIGAN UNDERGROUND STORAGE TANK RULES (MUSTR) (Check All Items Below That Apply)			
<input type="checkbox"/> SELF INSURANCE	<input type="checkbox"/> GUARANTEE	<input type="checkbox"/> TRUST FUND	
<input type="checkbox"/> COMMERCIAL INSURANCE	<input type="checkbox"/> SURETY BOND		
<input type="checkbox"/> RISK RETENTION GROUP	<input type="checkbox"/> LETTER OF CREDIT		
VII. CERTIFICATION			
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS FORM AND ALL ATTACHED DOCUMENTS AND THAT I HAVE VERIFIED THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.			
NAME AND OFFICIAL TITLE OF OWNER OR OWNERS' AUTHORIZED REPRESENTATIVE Don Marhofer Director of Land Dev.	SIGNATURE 	DATE 3-12-07	

VII. DESCRIPTION OF UNDERGROUND STORAGE TANKS

(Complete the following pages for each tank at this location; Copy these pages for additional tanks if needed)

TANK IDENTIFICATION NUMBER	1	2						
7. STATUS OF TANKS (Check One) CURRENTLY IN USE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TEMPORARILY OUT OF USE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> AMENDMENT OF INFORMATION <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <i>(If tanks are removed/closed, complete page 3, Section (A))</i>								
2. DATE OF INSTALLATION (Month/Day/Year)	Unknown	Unknown						
3. ESTIMATED TOTAL CAPACITY (Gallons)	10,000	10,000						
4. MATERIAL OF CONSTRUCTION (Mark All That Apply) ASPHALT COATED OR BARE STEEL <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CATHODICALLY PROTECTED STEEL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> EPOXY COATED STEEL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> COMPOSITE (Steel With Fiberglass) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> LINED INTERIOR <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> DOUBLE WALLED <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> POLYETHYLENE TANK JACKET <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CONCRETE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> EXCAVATION LINER <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> UNKNOWN <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OTHER (Specify in comments area) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HAS TANK BEEN REPAIRED? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								
5. PIPING MATERIAL (Mark All That Apply) BARE STEEL <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> COPPER <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CATHODICALLY PROTECTED <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> DOUBLE WALLED <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> FLEXIBLE PIPING <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ENVIROFLEX <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> GEOFLEX <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> UNKNOWN <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								
6. PIPING (Type) (Mark All That Apply) SUCTION: NO VALVE AT TANK <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> SUCTION: VALVE AT TANK <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> PRESSURE (Remote) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HAS PIPING BEEN REPAIRED? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								

TANK IDENTIFICATION NUMBER	1	2						
7. SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME GASOLINE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> DIESEL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> GASOHOL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> KEROSENE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>(Not For Consumption Use On Premises)</small> FUEL OIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOTOR OIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> USED OIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HAZARDOUS SUBSTANCE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TANK HAS COMPARTMENTS <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>(List substances in comments area)</small> OTHER (Specify in comments area) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CERCLA NAME AND/OR CHEMICAL ABSTRACT SERVICE (CAS) NUMBER (if hazardous substance stored) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								
IX. TANKS OUT OF USE OR CHANGE IN SERVICE NOTE: A SITE ASSESSMENT MUST BE COMPLETED UNLESS YOU REPORT A CONFIRMED RELEASE								
1 CLOSING OF TANK A. ESTIMATED DATE LAST USED (Month/Day/Year)	Unknown	Unknown						
B. ESTIMATED DATE TANK REMOVED/ CLOSED IN PLACE (Month/Day/Year)	3/9/07	3/9/07						
C. TANK WAS REMOVED FROM GROUND <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D. TANK FILLED WITH INERT MATERIAL (Sand, Concrete, etc.) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>•DESCRIBE TYPE OF FILL USED</small> <small>•REASON TANK WAS NOT REMOVED</small>								
E. CHANGE IN SERVICE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								
X. CERTIFICATION OF COMPLIANCE								
1. INSTALLATION A. INSTALLER CERTIFIED BY TANK AND PIPING MANUFACTURERS <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> B. INSTALLER CERTIFIED OR LICENSED BY STU <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C. INSTALLATION INSPECTED BY A REGISTERED ENGINEER <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D. INSTALLATION INSPECTED AND APPROVED BY STU <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> E. ANOTHER METHOD ALLOWED BY STU (Please Specify) _____								

TANK IDENTIFICATION NUMBER	1		2													
2. RELEASE DETECTION	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE
A. MANUAL (Static) TANK GAUGING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. TANK TIGHTNESS TESTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. INVENTORY CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. AUTOMATIC TANK GAUGING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. VAPOR MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. GROUNDWATER MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. INTERSTITIAL MONITORING DOUBLE WALLED TANK/PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. AUTOMATIC LINE LEAK DETECTORS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. LINE TIGHTNESS TESTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. OTHER METHOD ALLOWED BY STU (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. SPILL AND OVERFILL PROTECTION																
A. OVERFILL DEVICE INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. SPILL DEVICE INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. HAVE YOU INSTALLED IMPRESSED CURRENT CATHODIC PROTECTION?																
A. YES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. NO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I CERTIFY THE INFORMATION CONCERNING INSTALLATION THAT IS PROVIDED IN SECTION X IS TRUE TO THE BEST OF MY BELIEF AND KNOWLEDGE.																
INSTALLER:																
_____					_____					_____						
NAME PRINTED					SIGNATURE					DATE						

COMPANY																

BRK MAR 15 2007



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY – WASTE AND HAZARDOUS MATERIALS DIVISION
PO BOX 30157, LANSING, MI 48909-7657

REGISTRATION OF UNDERGROUND STORAGE TANKS

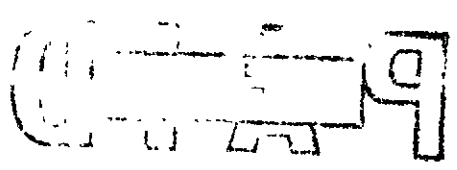
The information in this form is required under "Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended." Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5,000 per day for each

<input checked="" type="checkbox"/> NEW REGISTRATION			FACILITY IDENTIFICATION NUMBER (if known)		
<input type="checkbox"/> AMENDED INFORMATION (for Registered USTs Only)			41981		
NO. OF TANKS AT FACILITY 2		NO. OF CONTINUATION SHEETS ATTACHED			
I. OWNERSHIP OF TANKS			II. LOCATION OF TANKS		
IF THIS IS A NEW OWNER'S ADDRESS, PLEASE CHECK <input type="checkbox"/>			IF INFORMATION IS THE SAME AS SECTION I, PLEASE CHECK <input type="checkbox"/>		
OWNER NAME (Corporation/Individual, etc.) Morgan Development, LLC			FACILITY NAME OR SITE IDENTIFIER Former Boat House		
MAILING ADDRESS 15580 Telegraph Road			STREET ADDRESS (P.O. Box Not Acceptable) 189 Lenox Street		
CITY Detroit	STATE MI	ZIP 48239	CITY Detroit	STATE Michigan	ZIP
COUNTRY (Please Specify) <input checked="" type="checkbox"/> USA <input type="checkbox"/> OTHER _____			COUNTY Wayne		
TELEPHONE (Including Area Code) (313) 255 - 1150			TELEPHONE (Including Area Code) () -		
TAX PAYER ID OR SOCIAL SECURITY NUMBER					
LATITUDE AND LONGITUDE of facility (if known)					
LATITUDE (North):			LONGITUDE (West):		
III. TYPE OF OWNER					
<input type="checkbox"/> FEDERAL		<input checked="" type="checkbox"/> COMMERCIAL			
<input type="checkbox"/> STATE GOVERNMENT		<input type="checkbox"/> PRIVATE			
<input type="checkbox"/> LOCAL GOVERNMENT		ARE TANKS LOCATED ON LAND WITHIN A RESERVATION? <input type="checkbox"/> YES <input type="checkbox"/> NO			
IF TANKS ARE LOCATED WITHIN A RESERVATION, DOES A NATIVE AMERICAN TRIBE OWN TANKS? <input type="checkbox"/> YES <input type="checkbox"/> NO					
IF TANKS ARE OWNED BY A TRIBE, NAME OF TRIBE: _____					
IV. TYPE OF FACILITY					
<input type="checkbox"/> PUBLIC GAS STATION		<input type="checkbox"/> LOCAL GOVERNMENT		<input type="checkbox"/> CONTRACTOR	
<input type="checkbox"/> PRIVATE GAS STATION		<input type="checkbox"/> STATE GOVERNMENT		<input type="checkbox"/> TRUCKING/TRANSPORT	
<input type="checkbox"/> MARINE GAS STATION		<input type="checkbox"/> FEDERAL/NON-MILITARY		<input type="checkbox"/> UTILITIES	
<input type="checkbox"/> PETROLEUM DISTRIBUTOR		<input type="checkbox"/> FEDERAL-MILITARY		<input type="checkbox"/> RESIDENTIAL	
<input type="checkbox"/> AIRLINE AND/OR AIRCRAFT OWNER		<input type="checkbox"/> COMMERCIAL		<input type="checkbox"/> FARM	
<input type="checkbox"/> AUTO DEALERSHIP		<input type="checkbox"/> INDUSTRIAL		<input checked="" type="checkbox"/> OTHER (Explain) <u>vacant land</u>	
<input type="checkbox"/> RAILROAD		<input type="checkbox"/> HOSPITAL		(former boat house)	
V. CONTACT PERSON					
NAME <i>Don Markhofer</i>		JOB TITLE <i>Director of Land Dev.</i>		TELEPHONE (Including Area Code) <i>(248) 252-7789 cell.</i>	
VI. FINANCIAL RESPONSIBILITY					
I HAVE MET THE FINANCIAL RESPONSIBILITY REQUIREMENTS AS REQUIRED IN THE MICHIGAN UNDERGROUND STORAGE TANK RULES (MUSTR) (Check All Items Below That Apply)					
<input type="checkbox"/> SELF INSURANCE		<input type="checkbox"/> GUARANTEE		<input type="checkbox"/> TRUST FUND	
<input type="checkbox"/> COMMERCIAL INSURANCE		<input type="checkbox"/> SURETY BOND			
<input type="checkbox"/> RISK RETENTION GROUP		<input type="checkbox"/> LETTER OF CREDIT			
VII. CERTIFICATION					
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS FORM AND ALL ATTACHED DOCUMENTS AND THAT I HAVE VERIFIED THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.					
NAME AND OFFICIAL TITLE OF OWNER OR OWNERS' AUTHORIZED REPRESENTATIVE <i>Don Markhofer</i>			SIGNATURE <i>[Signature]</i>		DATE <i>3-6-07</i>

PAID
\$200.00
3-13-07

.....

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.....

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VIII. DESCRIPTION OF UNDERGROUND STORAGE TANKS

(Complete the following pages for each tank at this location; Copy these pages for additional tanks if needed)

TANK IDENTIFICATION NUMBER	1	2						
7. STATUS OF TANKS (Check One) CURRENTLY IN USE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TEMPORARILY OUT OF USE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> AMENDMENT OF INFORMATION <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <i>(If tanks are removed/closed, complete page 3, Section D)</i>								
2. DATE OF INSTALLATION (Month/Day/Year)	unknown	unknown						
3. ESTIMATED TOTAL CAPACITY (Gallons)	10,000	10,000						
4. MATERIAL OF CONSTRUCTION (Mark All That Apply)								
ASPHALT COATED OR BARE STEEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CATHODICALLY PROTECTED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPOXY COATED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMPOSITE (Steel With Fiberglass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LINED INTERIOR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DOUBLE WALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
POLYETHYLENE TANK JACKET	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONCRETE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EXCAVATION LINER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAS TANK BEEN REPAIRED?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. PIPING MATERIAL (Mark All That Apply)								
BARE STEEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GALVANIZED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COPPER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CATHODICALLY PROTECTED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DOUBLE WALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLEXIBLE PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENVIROFLEX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GEOFLEX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. PIPING (Type) (Mark All That Apply)								
SUCTION: NO VALVE AT TANK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUCTION: VALVE AT TANK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRESSURE (Remote)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAS PIPING BEEN REPAIRED?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TANK IDENTIFICATION NUMBER	1	2						
7. SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME								
GASOLINE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DIESEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GASOHOL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
KEROSENE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Not For Consumptive Use On Premises) FUEL OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOTOR OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
USED OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAZARDOUS SUBSTANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TANK HAS COMPARTMENTS (List substances in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CERCLA NAME AND/OR CHEMICAL ABSTRACT SERVICE (CAS) NUMBER (if hazardous substance stored)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

IX. TANKS OUT OF USE OR CHANGE IN SERVICE

NOTE: A SITE ASSESSMENT MUST BE COMPLETED UNLESS YOU REPORT A CONFIRMED RELEASE

1. CLOSING OF TANK								
A. ESTIMATED DATE LAST USED (Month/Day/Year)	unknown	unknown						
B. ESTIMATED DATE TANK REMOVED/ CLOSED IN PLACE (Month/Day/Year)								
C. TANK WAS REMOVED FROM GROUND	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. TANK FILLED WITH INERT MATERIAL (Sand, Concrete, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
•DESCRIBE TYPE OF FILL USED	_____	_____	_____	_____	_____	_____	_____	_____
•REASON TANK WAS NOT REMOVED	_____	_____	_____	_____	_____	_____	_____	_____
E. CHANGE IN SERVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

X. CERTIFICATION OF COMPLIANCE

1. INSTALLATION								
A. INSTALLER CERTIFIED BY TANK AND PIPING MANUFACTURERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. INSTALLER CERTIFIED OR LICENSED BY STU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. INSTALLATION INSPECTED BY A REGISTERED ENGINEER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. INSTALLATION INSPECTED AND APPROVED BY STU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. ANOTHER METHOD ALLOWED BY STU (Please Specify)	_____	_____	_____	_____	_____	_____	_____	_____

TANK IDENTIFICATION NUMBER	1		2													
2. RELEASE DETECTION	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE	TAN	PIPE
A. MANUAL (Static) TANK GAUGING	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
B. TANK TIGHTNESS TESTING	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
C. INVENTORY CONTROL	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
D. AUTOMATIC TANK GAUGING	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
E. VAPOR MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. GROUNDWATER MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. INTERSTITIAL MONITORING DOUBLE WALLED TANK/PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. AUTOMATIC LINE LEAK DETECTORS		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
I. LINE TIGHTNESS TESTING		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
K. OTHER METHOD ALLOWED BY STU (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. SPILL AND OVERFILL PROTECTION																
A. OVERFILL DEVICE INSTALLED	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
B. SPILL DEVICE INSTALLED	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
4. HAVE YOU INSTALLED IMPRESSED CURRENT CATHODIC PROTECTION?																
A. YES	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
B. NO	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
I CERTIFY THE INFORMATION CONCERNING INSTALLATION THAT IS PROVIDED IN SECTION X IS TRUE TO THE BEST OF MY BELIEF AND KNOWLEDGE.																
INSTALLER:																
_____					_____					_____						
NAME PRINTED					SIGNATURE					DATE						
_____					_____					_____						
COMPANY																

COMMENTS AND/OR CLARIFICATIONS FOR THE ST STAFF:

Two approximate 10,000 gallon USTs were identified in a previous Phase I ESA completed in 2004 by a previous consultant. The USTs were also identified as "abandoned containers" in a BEA dated 7/17/06 which was submitted to MDEQ for disclosure.

Based on the approximate locations of the USTs in comparison to historic Sanborn Fire Insurance Maps, the USTs were associated with a boat house at 189 Lenox Street. Associated piping at the site runs to the west, towards a canal. It appears that the USTs were likely used to fuel boats.

On February 27, 2007 McDowell & Associates obtained one sample from product/water in each of the USTs. Based on analytical results, it appears that the USTs previously contained leaded gasoline.

SMK MAR 09 2007



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - WASTE AND HAZARDOUS MATERIALS DIVISION
 PO BOX 30157, LANSING, MI 48909-7657

REGISTRATION OF UNDERGROUND STORAGE TANKS

The information in this form is required under "Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 461, as amended." Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5,000 per day for each.

<input checked="" type="checkbox"/> NEW REGISTRATION <input type="checkbox"/> AMENDED INFORMATION (for Registered USTs Only)				FACILITY IDENTIFICATION NUMBER (if known) <div style="font-size: 2em; text-align: center;">41981</div>	
NO. OF TANKS AT FACILITY 2		NO. OF CONTINUATION SHEETS ATTACHED			
I. OWNERSHIP OF TANKS			II. LOCATION OF TANKS		
IF THIS IS A NEW OWNER'S ADDRESS, PLEASE CHECK <input type="checkbox"/>			IF INFORMATION IS THE SAME AS SECTION I, PLEASE CHECK <input type="checkbox"/>		
OWNER NAME (Corporation/Individual, etc.) Morgan Development, LLC			FACILITY NAME OR SITE IDENTIFIER Former Boat House		
MAILING ADDRESS 15580 Telegraph Road			STREET ADDRESS (P.O. Box Not Acceptable) 189 Lenox Street		
CITY Detroit	STATE MI	ZIP 48239	CITY Detroit	STATE Michigan	ZIP
COUNTRY (Please Specify) <input checked="" type="checkbox"/> USA <input type="checkbox"/> OTHER			COUNTY Wayne		
TELEPHONE (including Area Code) (313) 255 - 1150			TELEPHONE (including Area Code) () -		
TAX PAYER ID OR SOCIAL SECURITY NUMBER					
LATITUDE AND LONGITUDE of facility (if known)					
LATITUDE (North):			LONGITUDE (West):		
III. TYPE OF OWNER					
<input type="checkbox"/> FEDERAL <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> STATE GOVERNMENT <input type="checkbox"/> PRIVATE <input type="checkbox"/> LOCAL GOVERNMENT ARE TANKS LOCATED ON LAND WITHIN A RESERVATION? <input type="checkbox"/> YES <input type="checkbox"/> NO IF TANKS ARE LOCATED WITHIN A RESERVATION, DOES A NATIVE AMERICAN TRIBE OWN TANKS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF TANKS ARE OWNED BY A TRIBE, NAME OF TRIBE: _____					
IV. TYPE OF FACILITY					
<input type="checkbox"/> PUBLIC GAS STATION <input type="checkbox"/> LOCAL GOVERNMENT <input type="checkbox"/> CONTRACTOR <input type="checkbox"/> PRIVATE GAS STATION <input type="checkbox"/> STATE GOVERNMENT <input type="checkbox"/> TRUCKING/TRANSPORT <input type="checkbox"/> MARINE GAS STATION <input type="checkbox"/> FEDERAL/NON-MILITARY <input type="checkbox"/> UTILITIES <input type="checkbox"/> PETROLEUM DISTRIBUTOR <input type="checkbox"/> FEDERAL-MILITARY <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> AIRLINE AND/OR AIRCRAFT OWNER <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> FARM <input type="checkbox"/> AUTO DEALERSHIP <input type="checkbox"/> INDUSTRIAL <input checked="" type="checkbox"/> OTHER (Explain) <u>vacant land</u> <input type="checkbox"/> RAILROAD <input type="checkbox"/> HOSPITAL <u>(former boat house)</u>					
V. CONTACT PERSON					
NAME Don Markhofer		JOB TITLE Director of Land Acq.		TELEPHONE (including Area Code) (248) 252-7897 cell	
VI. FINANCIAL RESPONSIBILITY					
I HAVE MET THE FINANCIAL RESPONSIBILITY REQUIREMENTS AS REQUIRED IN THE MICHIGAN UNDERGROUND STORAGE TANK RULES (MUSTR) (Check All Items Below That Apply)					
<input type="checkbox"/> SELF INSURANCE <input type="checkbox"/> GUARANTEE <input type="checkbox"/> TRUST FUND <input type="checkbox"/> COMMERCIAL INSURANCE <input type="checkbox"/> SURETY BOND <input type="checkbox"/> RISK RETENTION GROUP <input type="checkbox"/> LETTER OF CREDIT					
VII. CERTIFICATION					
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS FORM AND ALL ATTACHED DOCUMENTS AND THAT I HAVE VERIFIED THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.					
NAME AND OFFICIAL TITLE OF OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE Don Markhofer				SIGNATURE 	
				DATE 3-6-07	

VIII. DESCRIPTION OF UNDERGROUND STORAGE TANKS								
(Complete the following pages for each tank at this location; Copy these pages for additional tanks if needed)								
TANK IDENTIFICATION NUMBER	1	2						
7. STATUS OF TANKS (Check One)								
CURRENTLY IN USE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARILY OUT OF USE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AMENDMENT OF INFORMATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>(If tanks are replaced/retired, complete page 3, Section D)</i>								
2. DATE OF INSTALLATION (Month/Day/Year)	unknown	unknown						
3. ESTIMATED TOTAL CAPACITY (Gallons)	10,000	10,000						
4. MATERIAL OF CONSTRUCTION (Mark All That Apply)								
ASPHALT COATED OR BARE STEEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CATHODICALLY PROTECTED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPOXY COATED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMPOSITE (Steel With Fiberglass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LINED INTERIOR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DOUBLE WALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
POLYETHYLENE TANK JACKET	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONCRETE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EXCAVATION LINER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAS TANK BEEN REPAIRED?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. PIPING MATERIAL (Mark All That Apply)								
BARE STEEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GALVANIZED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COPPER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CATHODICALLY PROTECTED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DOUBLE WALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLEXIBLE PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENVIROFLEX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GEOFLEX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. PIPING (Type) (Mark All That Apply)								
SUCTION: NO VALVE AT TANK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUCTION: VALVE AT TANK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRESSURE (Remote)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAS PIPING BEEN REPAIRED?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TANK IDENTIFICATION NUMBER	1	2						
7. SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME GASOLINE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> DIESEL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> GASOIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> KEROSENE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (Not For Consumptive Use Or Prestige) FUEL OIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOTOR OIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> USED OIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HAZARDOUS SUBSTANCE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TANK HAS COMPARTMENTS <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (List substances in comments area) OTHER (Specify in comments area) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CERCLA NAME AND/OR CHEMICAL ABSTRACT SERVICE (CAS) NUMBER (if hazardous substance stored) _____								
IX. TANKS OUT OF USE OR CHANGE IN SERVICE NOTE: A SITE ASSESSMENT MUST BE COMPLETED UNLESS YOU REPORT A CONFIRMED RELEASE								
1. CLOSING OF TANK A. ESTIMATED DATE LAST USED (Month/Day/Year)	unknown	unknown						
B. ESTIMATED DATE TANK REMOVED/ CLOSED IN PLACE (Month/Day/Year)								
C. TANK WAS REMOVED FROM GROUND	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. TANK FILLED WITH INERT MATERIAL (Sand, Concrete, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
•DESCRIBE TYPE OF FILL USED	_____	_____	_____	_____	_____	_____	_____	_____
•REASON TANK WAS NOT REMOVED	_____	_____	_____	_____	_____	_____	_____	_____
E. CHANGE IN SERVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X. CERTIFICATION OF COMPLIANCE								
1. INSTALLATION A. INSTALLER CERTIFIED BY TANK AND PIPING MANUFACTURERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. INSTALLER CERTIFIED OR LICENSED BY STU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. INSTALLATION INSPECTED BY A REGISTERED ENGINEER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. INSTALLATION INSPECTED AND APPROVED BY STU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. ANOTHER METHOD ALLOWED BY STU (Please Specify)	_____	_____	_____	_____	_____	_____	_____	_____

TANK IDENTIFICATION NUMBER	1		2													
2. RELEASE DETECTION	TAN	PPE	TAN	PPE	TAN	PPE	TAN	PPE	TAN	PPE	TAN	PPE	TAN	PPE	TAN	PPE
A. MANUAL (SILIC) TANK GAUGING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. TANK TIGHTNESS TESTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. INVENTORY CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. AUTOMATIC TANK GAUGING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. VAPOR MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. GROUNDWATER MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. INTERSTITIAL MONITORING DOUBLE WALLED TANK PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. AUTOMATIC LINE LEAK DETECTORS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. LINE TIGHTNESS TESTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. OTHER METHOD ALLOWED BY STU (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. SPILL AND OVERFILL PROTECTION																
A. OVERFILL DEVICE INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. SPILL DEVICE INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. HAVE YOU INSTALLED IMPRESSED CURRENT CATHODIC PROTECTION?																
A. YES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. NO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I CERTIFY THE INFORMATION CONCERNING INSTALLATION THAT IS PROVIDED IN SECTION X IS TRUE TO THE BEST OF MY BELIEF AND KNOWLEDGE.																
INSTALLER:																
_____					_____					_____						
NAME PRINTED					SIGNATURE					DATE						

COMPANY																

COMMENTS AND/OR CLARIFICATIONS FOR THE ST STAFF:

Two approximate 10,000 gallon USTs were identified in a previous Phase I ESA completed in 2004 by a previous consultant. The USTs were also identified as "abandoned containers" in a BEA dated 7/17/06 which was submitted to MDEQ for disclosure.

Based on the approximate locations of the USTs in comparison to historic Sanborn Fire Insurance Maps, the USTs were associated with a boat house at 189 Lenox Street. Associated piping at the site runs to the west, towards a canal. It appears that the USTs were likely used to fuel boats.

On February 27, 2007 McDowell & Associates obtained one sample from product/water in each of the USTs. Based on analytical results, it appears that the USTs previously contained leaded gasoline.



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - WASTE AND HAZARDOUS MATERIALS DIVISION
PO BOX 30157, LANSING, MI 48209-7857

MT 317107

REGISTRATION OF UNDERGROUND STORAGE TANKS

The information in this form is required under "Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended." Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5,000 per day for each.

<input checked="" type="checkbox"/> NEW REGISTRATION <input type="checkbox"/> AMENDED INFORMATION (for Registered USTs Only)			FACILITY IDENTIFICATION NUMBER (if known) <div style="font-size: 2em; text-align: center;">41981</div>		
NO. OF TANKS AT FACILITY 2		NO. OF CONTINUATION SHEETS ATTACHED			
I. OWNERSHIP OF TANKS			II. LOCATION OF TANKS		
IF THIS IS A NEW OWNER'S ADDRESS, PLEASE CHECK <input type="checkbox"/>			IF INFORMATION IS THE SAME AS SECTION I, PLEASE CHECK <input type="checkbox"/>		
OWNER NAME (Corporation/Individual, etc.) Morgan Development, LLC			FACILITY NAME OR SITE IDENTIFIER Former Boat House		
MAILING ADDRESS 15580 Telegraph Road			STREET ADDRESS (P.O. Box Not Acceptable) 189 Lenox Street		
CITY Detroit	STATE MI	ZIP 48239	CITY Detroit	STATE Michigan	ZIP
COUNTRY (Please Specify) <input checked="" type="checkbox"/> USA <input type="checkbox"/> OTHER			COUNTY Wayne		
TELEPHONE (including Area Code) (313) 255-1150			TELEPHONE (including Area Code) () -		
TAX PAYER ID OR SOCIAL SECURITY NUMBER					
LATTITUDE AND LONGITUDE of facility (if known)					
LATTITUDE (North):			LONGITUDE (West):		
III. TYPE OF OWNER					
<input type="checkbox"/> FEDERAL		<input checked="" type="checkbox"/> COMMERCIAL			
<input type="checkbox"/> STATE GOVERNMENT		<input type="checkbox"/> PRIVATE			
<input type="checkbox"/> LOCAL GOVERNMENT		ARE TANKS LOCATED ON LAND WITHIN A RESERVATION? <input type="checkbox"/> YES <input type="checkbox"/> NO			
IF TANKS ARE LOCATED WITHIN A RESERVATION, DOES A NATIVE AMERICAN TRIBE OWN TANKS? <input type="checkbox"/> YES <input type="checkbox"/> NO					
IF TANKS ARE OWNED BY A TRIBE, NAME OF TRIBE: _____					
IV. TYPE OF FACILITY					
<input type="checkbox"/> PUBLIC GAS STATION	<input type="checkbox"/> LOCAL GOVERNMENT	<input type="checkbox"/> CONTRACTOR			
<input type="checkbox"/> PRIVATE GAS STATION	<input type="checkbox"/> STATE GOVERNMENT	<input type="checkbox"/> TRUCKING/TRANSPORT			
<input type="checkbox"/> MARINE GAS STATION	<input type="checkbox"/> FEDERAL/UN-MILITARY	<input type="checkbox"/> UTILITIES			
<input type="checkbox"/> PETROLEUM DISTRIBUTOR	<input type="checkbox"/> FEDERAL-MILITARY	<input type="checkbox"/> RESIDENTIAL			
<input type="checkbox"/> AIRLINE AND/OR AIRCRAFT OWNER	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> FARM			
<input type="checkbox"/> AUTO DEALERSHIP	<input type="checkbox"/> INDUSTRIAL	<input checked="" type="checkbox"/> OTHER (Specify <u>vacant land</u>)			
<input type="checkbox"/> RAILROAD	<input type="checkbox"/> HOSPITAL	<input type="checkbox"/> (former boat house)			
V. CONTACT PERSON					
NAME Don Markofer		JOB TITLE Director of Land Dev.		TELEPHONE (including Area Code) (248) 252-7789 cell.	
VI. FINANCIAL RESPONSIBILITY					
I HAVE MET THE FINANCIAL RESPONSIBILITY REQUIREMENTS AS REQUIRED IN THE MICHIGAN UNDERGROUND STORAGE TANK RULES (MUSTR) (Check All Items Below That Apply)					
<input type="checkbox"/> SELF INSURANCE	<input type="checkbox"/> GUARANTEE	<input type="checkbox"/> TRUST FUND			
<input type="checkbox"/> COMMERCIAL INSURANCE	<input type="checkbox"/> SURETY BOND				
<input type="checkbox"/> RISK RETENTION GROUP	<input type="checkbox"/> LETTER OF CREDIT				
VII. CERTIFICATION					
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS FORM AND ALL ATTACHED DOCUMENTS AND THAT I HAVE VERIFIED THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.					
NAME AND OFFICIAL TITLE OF OWNER OR OWNERS' AUTHORIZED REPRESENTATIVE Don Markofer			SIGNATURE 		DATE 5-6-07

VIII. DESCRIPTION OF UNDERGROUND STORAGE TANKS								
(Complete the following pages for each tank at this location; Copy these pages for additional tanks if needed)								
TANK IDENTIFICATION NUMBER	1	2						
7. STATUS OF TANKS (Check One)								
CURRENTLY IN USE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARILY OUT OF USE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AMENDMENT OF INFORMATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<small>(If facts are remembered, complete page 3, Section D)</small>								
2. DATE OF INSTALLATION (Month/Day/Year)	unknown	unknown						
3. ESTIMATED TOTAL CAPACITY (Gallons)	10,000	10,000						
4. MATERIAL OF CONSTRUCTION (Mark All That Apply)								
ASPHALT COATED OR BARE STEEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CATHODICALLY PROTECTED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPOXY COATED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMPOSITE (Steel With Fiberglass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LINED INTERIOR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DOUBLE WALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
POLYETHYLENE TANK JACKET	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONCRETE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EXCAVATION LINER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAS TANK BEEN REPAIRED?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. PIPING MATERIAL (Mark All That Apply)								
BARE STEEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GALVANIZED STEEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COPPER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CATHODICALLY PROTECTED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DOUBLE WALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLEXIBLE PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENVIROFLEX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GEOFLEX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. PIPING (Type) (Mark All That Apply)								
SUCTION: NO VALVE AT TANK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUCTION: VALVE AT TANK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRESSURE (Retrole)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAS PIPING BEEN REPAIRED?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TANK IDENTIFICATION NUMBER	1	2						
7. SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME GASOLINE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> DIESEL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> GASOHOL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> KEROSENE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>(Not For Consumptive Use On Premises)</small> FUEL OIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOTOR OIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> USED OIL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HAZARDOUS SUBSTANCE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TANK HAS COMPARTMENTS <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>(List substances in comments area)</small> OTHER <small>(Specify in comments area)</small> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CERCLA NAME AND/OR CHEMICAL ABSTRACT SERVICE (CAS) NUMBER <small>(if hazardous substance stored)</small> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								
IX. TANKS OUT OF USE OR CHANGE IN SERVICE NOTE: A SITE ASSESSMENT MUST BE COMPLETED UNLESS YOU REPORT A CONFIRMED RELEASE								
1. CLOSING OF TANK A. ESTIMATED DATE LAST USED <small>(Month/Day/Year)</small> B. ESTIMATED DATE TANK REMOVED/ CLOSED IN PLACE <small>(Month/Day/Year)</small> C. TANK WAS REMOVED FROM GROUND <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D. TANK FILLED WITH INERT MATERIAL <small>(Sand, Concrete, etc.)</small> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>•DESCRIBE TYPE OF FILL USED</small> <small>•REASON TANK WAS NOT REMOVED</small> E. CHANGE IN SERVICE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	unknown	unknown						
X. CERTIFICATION OF COMPLIANCE								
1. INSTALLATION A. INSTALLER CERTIFIED BY TANK AND PIPING MANUFACTURERS <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> B. INSTALLER CERTIFIED OR LICENSED BY STU <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C. INSTALLATION INSPECTED BY A REGISTERED ENGINEER <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D. INSTALLATION INSPECTED AND APPROVED BY STU <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> E. ANOTHER METHOD ALLOWED BY STU <small>(Please Specify)</small> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								

TANK IDENTIFICATION NUMBER	1		2											
2. RELEASE DETECTION	TAN	FFC	TAN	FFC	TAN	FFC	TAN	FFC	TAN	FFC	TAN	FFC	TAN	FFC
A. MANUAL (Sight) TANK GAUGING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. TANK TIGHTNESS TESTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. INVENTORY CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. AUTOMATIC TANK GAUGING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. VAPOR MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. GROUNDWATER MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. INTERSTITIAL MONITORING DOUBLE WALLED TANK/PIPING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. AUTOMATIC LINE LEAK DETECTORS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. LINE TIGHTNESS TESTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. OTHER METHOD ALLOWED BY STU (Specify in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. SPILL AND OVERFILL PROTECTION														
A. OVERFILL DEVICE INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. SPILL DEVICE INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. HAVE YOU INSTALLED IMPRESSED CURRENT CATHODIC PROTECTION?														
A. YES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. NO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I CERTIFY THE INFORMATION CONCERNING INSTALLATION THAT IS PROVIDED IN SECTION X IS TRUE TO THE BEST OF MY BELIEF AND KNOWLEDGE.														
INSTALLER:														
_____					_____					_____				
NAME PRINTED					SIGNATURE					DATE				

COMPANY														

COMMENTS AND/OR CLARIFICATIONS FOR THE ST STAFF:

Two approximate 10,000 gallon USTs were identified in a previous Phase I ESA completed in 2004 by a previous consultant. The USTs were also identified as "abandoned containers" in a BEA dated 7/17/06 which was submitted to MDEQ for disclosure.

Based on the approximate locations of the USTs in comparison to historic Sanborn Fire Insurance Maps, the USTs were associated with a boat house at 189 Lenox Street. Associated piping at the site runs to the west, towards a canal. It appears that the USTs were likely used to fuel boats.

On February 27, 2007 McDowell & Associates obtained one sample from product/water in each of the USTs. Based on analytical results, it appears that the USTs previously contained leaded gasoline.

Andrew Temerowski

From: EGLE FOIA Request Center <michiganegle@govqa.us>
Sent: Monday, August 9, 2021 8:11 AM
To: Andrew Temerowski
Subject: Confirmation of FOIA Request:: E117373-080621

Dear Mr. Temerowski:

Thank you for your interest in public records of the Department of Environment, Great Lakes, and Energy (EGLE). Your request, legally received on 8/9/2021, has been assigned reference number E117373-080621 for tracking purposes.

Records Requested: "All records. 100 Lenox Street"

Site Address: 100 Lenox Street, Detroit

EGLE will respond to a request within 5 business days. If necessary, the Department may issue an extension for up to 10 additional business days.

To monitor the progress of your request, please follow the link below. You will receive an email when your request has been completed.

[FOIA Request Center](#)

To review a copy of EGLE's FOIA policy and procedure, public written summary, and several online databases, go to www.michigan.gov/eglefoia

Department of Environment, Great Lakes, and Energy

Message History (3)

✉ On 8/12/2021 3:27:32 PM, EGLE FOIA Request Center wrote:

Subject: FOIA Request :: E117373-080621

Body:

August 12, 2021

Reference Number: E117373-080621

Mr. Andrew Temerowski
Atlas
46555 Humbolt Drive, Suite 100
Novi, MI 48377

Dear Mr. Temerowski:

This notice is issued in response to your request for information under the Freedom of Information Act (FOIA), MCL 15.231 et seq.

You requested the following:

All records. 100 Lenox Street

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. After a search, to the best of this public body's knowledge, information, and belief, the public record(s) do not exist as described by you, or by another name or description reasonably known to the public body; therefore, your request to examine or receive a copy of the documents described above is denied.

Under section 10 of the FOIA, the Department of Environment, Great Lakes, and Energy (EGLE) is obligated to inform you of the following:

- 1) You may appeal this decision in writing to the Senior Deputy Director, Department of Environment, Great Lakes, and Energy, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal" and identify the basis for which the disclosure determination should be reversed. The Senior Deputy Director, or her delegated designee, must respond to the appeal within 10 business days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.
- 2) You may commence a civil action in the Court of Claims within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

If you have questions concerning this matter, please access your online account and reply to this message there. To review a copy of EGLE's FOIA policy and procedure, public written summary, and several online databases, go to www.michigan.gov/eglefoia.

Kind regards,

EGLE FOIA

✉ On 8/9/2021 8:09:15 AM, EGLE FOIA Request Center wrote:

Subject: Confirmation of FOIA Request:: E117373-080621

Body:

Dear Mr. Temerowski:

Thank you for your interest in public records of the Department of Environment, Great Lakes, and Energy (EGLE). Your request, legally received on 8/9/2021, has been assigned reference number E117373-080621 for tracking purposes.

Records Requested: "All records. 100 Lenox Street"

Site Address: 100 Lenox Street, Detroit


EGLE will respond to a request within 5 business days. If necessary, the Department may issue an extension for up to 10 additional business days.

To monitor the progress of your request, please follow the link below. You will receive an email when your request has been completed.

[FOIA Request Center](#)

To review a copy of EGLE's FOIA policy and procedure, public written summary, and several online databases, go to www.michigan.gov/eglefoia

Department of Environment, Great Lakes, and Energy

 On 8/6/2021 10:08:58 AM, Andrew Temerowski wrote:

Request Created on Public Portal

Andrew Temerowski

From: EGLE FOIA Request Center <michiganegle@govqa.us>
Sent: Monday, August 9, 2021 7:32 AM
To: Andrew Temerowski
Subject: FOIA Request :: E117375-080621

--- Please respond above this line ---

August 09, 2021

Reference Number: E117375-080621

Mr. Andrew Temerowski
Atlas
46555 Humbolt Drive, Suite 100
Novi, MI 48377

Dear Mr. Temerowski:

This notice is issued in response to your request for information under the Freedom of Information Act (FOIA), MCL 15.231 et seq.

You requested the following:

UST records (189 Lenox Street)

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. After a search, to the best of this public body's knowledge, information, and belief, the public record(s) do not exist as described by you, or by another name or description reasonably known to the public body; therefore, your request to examine or receive a copy of the documents described above is denied.

Under section 10 of the FOIA, the Department of Environment, Great Lakes, and Energy (EGLE) is obligated to inform you of the following:

- 1) You may appeal this decision in writing to the Senior Deputy Director, Department of Environment, Great Lakes, and Energy, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal" and identify the basis for which the disclosure determination should be reversed. The Senior Deputy Director, or her delegated designee, must respond to the appeal within 10 business days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.
- 2) You may commence a civil action in the Court of Claims within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

If you have questions concerning this matter, please access your online account and reply to this message there. To review a copy of EGLE's FOIA policy and procedure, public written summary, and several online databases, go to www.michigan.gov/eglefoia.

Message History (2)

✉ On 8/9/2021 7:32:13 AM, EGLE FOIA Request Center wrote:

Subject: FOIA Request :: E117375-080621

Body:

August 09, 2021

Reference Number: E117375-080621

Mr. Andrew Temerowski
Atlas
46555 Humbolt Drive, Suite 100
Novi, MI 48377

Dear Mr. Temerowski:

This notice is issued in response to your request for information under the Freedom of Information Act (FOIA), MCL 15.231 et seq.

You requested the following:

UST records (189 Lenox Street)

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. After a search, to the best of this public body's knowledge, information, and belief, the public record(s) do not exist as described by you, or by another name or description reasonably known to the public body; therefore, your request to examine or receive a copy of the documents described above is denied.


Under section 10 of the FOIA, the Department of Environment, Great Lakes, and Energy (EGLE) is obligated to inform you of the following:

- 1) You may appeal this decision in writing to the Senior Deputy Director, Department of Environment, Great Lakes, and Energy, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal" and identify the basis for which the disclosure determination should be reversed. The Senior Deputy Director, or her delegated designee, must respond to the appeal within 10 business days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.
- 2) You may commence a civil action in the Court of Claims within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

If you have questions concerning this matter, please access your online account and reply to this message there. To review a copy of EGLE's FOIA policy and procedure, public written summary, and several online databases, go to www.michigan.gov/eglefoia.

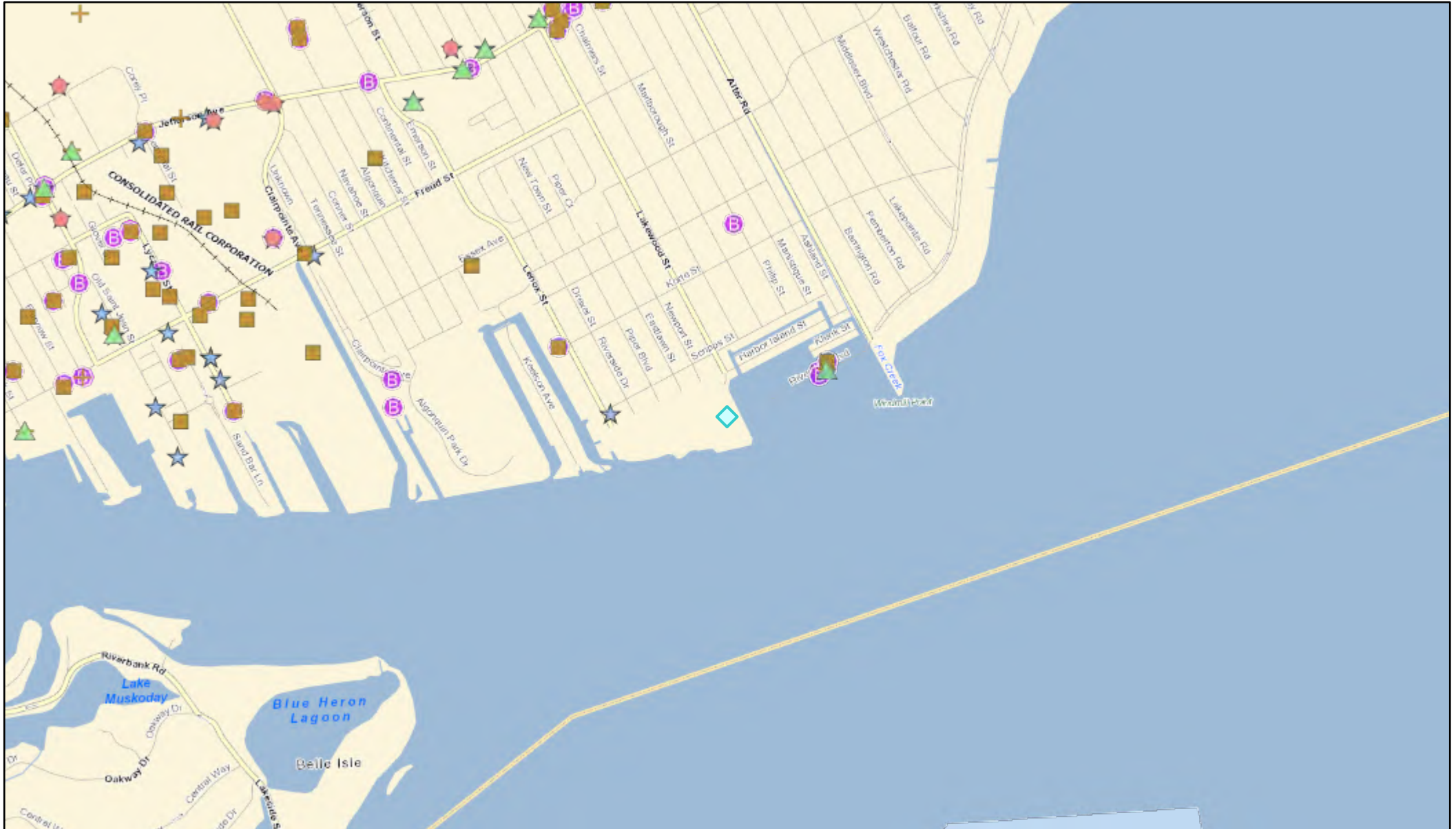
Kind regards,

EGLE FOIA







 On 8/6/2021 10:10:50 AM, Andrew Temerowski wrote:

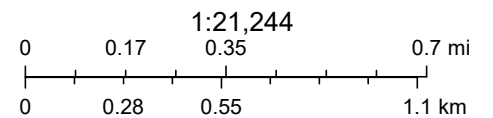
Request Created on Public Portal

Environmental Mapper



August 6, 2021

- | | | | |
|--|-----------------------------------|---|---|
|  | Baseline Environmental Assessment |  | Sites of Environmental Contamination (Part 201) |
|  | Closed Tanks |  | Open |
|  | Active Tanks |  | Closed |



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Quick Search

Advanced Search

Site ID

Recent Sites

Site Contacts

482298 / MIK521783340 MORGAN DEVELOPMENT LLC 189 LENOX ST, DETROIT, MI 48215

Site

Site Name

MORGAN DEVELOPMENT LLC

Site Identification

WDS ID Number:	482298	History...
Site ID Number:	MIK521783340	History...
Legal Site Name:	MORGAN DEVELOPMENT LLC	History...
Specific Site Name:	MORGAN DEVELOPMENT LLC	History...
District:	WARREN	

Address Identification

Location Address	Mailing Address
189 LENOX ST DETROIT MI 48215	15580 TELEGRAPH RD REDFORD MI 48239-3528
History...	History...

Miscellaneous

Tax Number: 38XXXXX25	History...
No Number Because:	

GPS Coordinates (provide five decimal places)	
Latitude Coordinate:	42.3661
Longitude Coordinate:	-83.14215
Collection Method:	Submitted by Handler

Receives All Waste?:	No
Railroad?:	No
Facility on Indian Reservation Land?:	No
Utilization Activities:	
Scrap Tires Activities:	
Scrap Tires Acres:	
NAICS Codes (up to four six-digit codes):	
(The list of NAICS codes in WDS is based on the 2007 definitions provided by the U.S.Census Bureau.)	
562910 - Remediation Services	

Haz Waste Contact

First Name:	DON	M.I.:	
Last Name:	MARHOFER		
Phone Number:	(248) 252-7789	Ext:	Fax: (313) 255-6189
Alternate Phone:			
Email Address:	DMARHOFER@MORGANDEV.NET		

Owner/Operator (2)	Activities (2)	Site ID Fees (1)	Comments (3)
---------------------------	-----------------------	-------------------------	---------------------

Petitions (0)**Used Oil Biennial Reports (0)****Parceling (0)****Institutional Controls (0)****Exemptions (0)**

Date	Comment Type	Comment
4/27/2007	111/121- HW/LIW	COMPLETED MITAPS ENTRY BY ADDING COUNTY TO MAILING ADDRESS, VERIFIED DATA TRANSFER-BUD
4/26/2007	111/121- HW/LIW	(DISCOVERY DATE - 04/24/2007) E-PERMITTING APPLICATION COMMENTS: THE APPLICANT CHANGED THE EXISTING OWNER/OPERATOR NAME "MORGAN DEVELOPMENT" TO "MORGAN DEVELOPMENT LLC" - A NEW AFFILIATION RECORD WAS CREATED WITH SEQUENCE NUMBER 347135; GENERAL COMMENTS FROM APPLICANT: PER SUBSEQUENT NOTIFICATION (EMERGENCY) UPDATE ALL INFORMATION, STATUS IS CESQG GENERATOR AND LIW GENERATOR 4-24-07 ;
3/5/2007	111/121- HW/LIW	UNDERGROUND TANK DAMAGED DURING EXCAVATION

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Version 32efec1182e8-W

Advanced Search

▼

▼

Site Contacts

482298 / MIK521783340 MORGAN DEVELOPMENT LLC 189 LENOX ST, DETROIT, MI 48215

Site

Site Name

MORGAN DEVELOPMENT LLC

Site Identification

WDS ID Number:	482298	History...
Site ID Number:	MIK521783340	History...
Legal Site Name:	MORGAN DEVELOPMENT LLC	History...
Specific Site Name:	MORGAN DEVELOPMENT LLC	History...
District:	WARREN	

Address Identification

<p>Location Address</p> <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;"> 189 LENOX ST DETROIT MI 48215 </div> <p style="text-align: right; margin-top: 5px;">History...</p>	<p>Mailing Address</p> <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;"> 15580 TELEGRAPH RD REDFORD MI 48239-3528 </div> <p style="text-align: right; margin-top: 5px;">History...</p>
--	--

Miscellaneous

Tax Number: 38XXXXX25	History...
No Number Because:	

GPS Coordinates (provide five decimal places)	
Latitude Coordinate:	42.3661
Longitude Coordinate:	-83.14215
Collection Method:	Submitted by Handler

Receives All Waste?:	No
Railroad?:	No
Facility on Indian Reservation Land?:	No
Utilization Activities:	
Scrap Tires Activities:	
Scrap Tires Acres:	
NAICS Codes (up to four six-digit codes):	
<small>(The list of NAICS codes in WDS is based on the 2007 definitions provided by the U.S.Census Bureau.)</small>	
562910 - Remediation Services	

Haz Waste Contact

First Name:	DON	M.I.:	
Last Name:	MARHOFER		
Phone Number:	(248) 252-7789	Ext:	Fax: (313) 255-6189
Alternate Phone:			
Email Address:	DMARHOFER@MORGANDEV.NET		

Owner/Operator (2)	Activities (2)	Site ID Fees (1)	Comments (3)
---------------------------	-----------------------	-------------------------	---------------------

Petitions (0)	Used Oil Biennial Reports (0)	Parceling (0)	Institutional Controls (0)
Exemptions (0)			
Discovery Date	Source of Information	Summary	
4/24/2007	Site	Generator Status: CESQG Liquid industrial waste generator	
3/5/2007	State	Emergency Site	

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[State Web Sites](#) | [Privacy Policy](#) | [Link Policy](#) | [Accessibility Policy](#) | [Security Policy](#) | [Michigan News](#) | [Michigan.gov Survey](#)

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Version 32efec1182e8-W



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

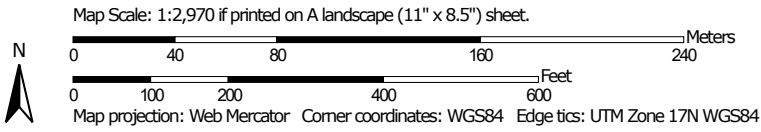
September 13, 2021

Wetlands

- | | | |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland |  Lake |
|  Estuarine and Marine Wetland |  Freshwater Forested/Shrub Wetland |  Other |
| |  Freshwater Pond |  Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Soil Map—Wayne County, Michigan



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Wayne County, Michigan

Survey Area Data: Version 6, Jun 1, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 14, 2012—Jun 15, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RvfaaB	Riverfront sandy loam, 0 to 4 percent slopes	12.3	34.5%
RvfubB	Riverfront-Urban land complex, 0 to 4 percent slopes	11.8	33.0%
TeducB	Tedrow-Urban land-Fluvaquentic Eutrudepts complex, 0 to 4 percent slopes, rarely flooded	7.5	21.0%
W	Water	4.1	11.5%
Totals for Area of Interest		35.7	100.0%

Wayne County, Michigan

RvfubB—Riverfront-Urban land complex, 0 to 4 percent slopes

Map Unit Setting

National map unit symbol: 2whvf
Elevation: 570 to 650 feet
Mean annual precipitation: 28 to 38 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 135 to 210 days
Farmland classification: Not prime farmland

Map Unit Composition

Riverfront and similar soils: 60 percent
Urban land: 35 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Riverfront

Setting

Landform: Water-lain moraines, raised beaches, till-floored lake plains, wave-worked till plains, lakebeds (relict)
Down-slope shape: Linear
Across-slope shape: Linear, convex, concave
Parent material: Loamy human-transported material

Typical profile

^Au - 0 to 6 inches: sandy loam
^Cu1 - 6 to 16 inches: very artificial sandy loam
^Cu2 - 16 to 46 inches: gravelly-artificial loam
^Cu3 - 46 to 80 inches: very artificial loam

Properties and qualities

Slope: 0 to 4 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.01 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 20 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline (0.1 to 1.5 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8
Hydrologic Soil Group: B
Ecological site: F099XY007MI - Lake Plain Flats
Hydric soil rating: No

Description of Urban Land

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 0 inches to manufactured layer
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low
(0.00 to 0.00 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Fortress family

Percent of map unit: 5 percent
Landform: Wave-worked till plains, lakebeds (relict), water-lain moraines, raised beaches, till-floored lake plains
Down-slope shape: Linear
Across-slope shape: Linear, convex, concave
Hydric soil rating: No

Data Source Information

Soil Survey Area: Wayne County, Michigan
Survey Area Data: Version 6, Jun 1, 2020

Wayne County, Michigan

RvfaaB—Riverfront sandy loam, 0 to 4 percent slopes

Map Unit Setting

National map unit symbol: 2tx7v

Elevation: 570 to 680 feet

Mean annual precipitation: 28 to 38 inches

Mean annual air temperature: 45 to 52 degrees F

Frost-free period: 135 to 210 days

Farmland classification: Not prime farmland

Map Unit Composition

Riverfront and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Riverfront

Setting

Landform: Lakebeds (relict), water-lain moraines, wave-worked till plains, deltas, drainageways

Down-slope shape: Linear

Across-slope shape: Linear, convex, concave

Parent material: Loamy human-transported material

Typical profile

^Au - 0 to 6 inches: sandy loam

^Cu1 - 6 to 16 inches: very artificial sandy loam

^Cu2 - 16 to 46 inches: gravelly-artificial loam

^Cu3 - 46 to 80 inches: very artificial loam

Properties and qualities

Slope: 0 to 4 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.01 to 1.42 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 20 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline (0.1 to 1.5 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: B

Ecological site: F099XY007MI - Lake Plain Flats
Hydric soil rating: No

Minor Components

Urban land

Percent of map unit: 5 percent
Hydric soil rating: No

Fortress family

Percent of map unit: 4 percent
Landform: Drainageways, lakebeds (relict), water-lain moraines,
wave-worked till plains, deltas
Down-slope shape: Linear
Across-slope shape: Linear, convex, concave
Hydric soil rating: No

Riverfront, steep

Percent of map unit: 1 percent
Landform: Lakebeds (relict), drainageways, deltas, wave-worked till
plains, water-lain moraines
Down-slope shape: Linear
Across-slope shape: Linear, convex, concave
Hydric soil rating: No

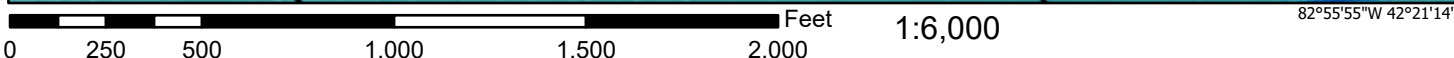
Data Source Information

Soil Survey Area: Wayne County, Michigan
Survey Area Data: Version 6, Jun 1, 2020

National Flood Hazard Layer FIRMMette



82°56'33"W 42°21'41"N



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
- 17.5 Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/13/2021 at 3:44 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

2019
RESULTS

DETROIT WATER QUALITY REPORT



**Water & Sewerage
Department**

TABLE OF CONTENTS

Letter From The Director	3
How We Provide Services	4
Did You Know	5
Customer Assistance Programs	6
Revised Lead & Copper Rule	8
Stormwater Management	12
Upgrading Detroit's Water & Sewer System	13
Key to the Detected Contaminants	15
Regulated Contaminants	16
Unregulated Contaminants	18
Tap Water Mineral Analysis	19

NOTICE: This 2019 Water Quality Report contains important information about your drinking water. Please have someone translate this document for you if you are unable to read the report.

AVISO: Este Informe de calidad del agua de 2019 contiene información importante sobre su agua potable. Haga que alguien le traduzca este documento si no puede leer el informe.

إشعار : يحتوي تقرير جودة المياه لعام
على معلومات مهمة حول مياه الشرب. يرجى 2019
أن يقوم شخص ما بترجمة هذا المستند
لك إذا كنت غير قادر على قراءة التقرير

The Detroit Water & Sewerage Department does not discriminate on the basis of race, color, national origin, sex, age or disability in any of our services, programs or activities.

CITY OF DETROIT

Mike Duggan, Mayor

DETROIT CITY COUNCIL

Brenda Jones, President (citywide)
Mary Sheffield, President Pro-Tem (District 5)
Janeé Ayers (citywide)
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Roy McCalister, Jr. (District 2)
Scott Benson (District 3)
André Spivey (District 4)
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Gabe Leland (District 7)

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DETROIT WATER AND SEWERAGE DEPARTMENT

Gary A Brown, Director
Palencia Mobley, P.E., Deputy Director and Chief Engineer



How to Report an Emergency

To report emergencies, such as water main breaks, flooded streets, missing manhole covers or leaking fire hydrants, call the DWSD 24-hour service line at **313-267-8000**. Mobile users may download the **Improve Detroit app** to take a photo and report an issue, or report it online at detroitmi.gov/DWSD.



Public Participation

The Board of Water Commissioners meets on the third Wednesday of each month at 2 p.m. at the Water Board Building, located at 735 Randolph Street, unless otherwise noticed. All meetings are open to the public. Due to the COVID-19 pandemic that began in March 2020, these meetings may be virtual to follow local, state and federal guidelines. For more information, please contact the DWSD board secretary at **313-224-4704** or visit detroitmi.gov/DWSD for meeting dates, times, locations and agendas.



GARY A BROWN, DIRECTOR Detroit Water and Sewerage Department

Dear Valued Customers,

We are pleased to inform you that Detroit's drinking water continues to be some of the best in the nation. The Detroit Water and Sewerage Department (DWSD) will continue working hard for you to improve service delivery and compassionate customer service. In this 2019 Water Quality Report, you will find that we have met or exceeded both state and federal drinking water standards.

In 2018, the State of Michigan implemented the most stringent Lead and Copper Rule in the nation to protect every Michigander by reducing the lead content in drinking water. The revised Rule requires annual samples for lead testing in drinking water, a new testing process (effective in 2019) to take the first and fifth liter at a customer tap in the sample group, replacement of lead service lines within 20 years (Detroit is requesting 40 years due to an estimated 77,197 lead pipes), and a reduction of the lead maximum threshold by 2025 (see page 8 for more information).

We want to assure Detroiters the water supplied by DWSD is safe for drinking. The water leaving Detroit's water treatment plants, operated by the Great Lakes Water Authority, does not contain lead. The primary sources of lead in water are lead service lines, lead solder, and/or faucets containing lead in the home.

Even before the State of Michigan enacted the most stringent Lead and Copper Rule in the nation, DWSD began replacing lead service lines during water main replacement projects and providing pitcher filters to those residents and businesses as a precautionary measure. We have replaced more than 500 lead service lines in 2018-2019. While the lead in drinking water test results are higher than in 2016, as indicated in this report, they are due to a change in state regulated testing methods.

In addition to the lead test results for 2019, additional water quality data required by federal regulations is provided in this report.

DWSD sees our important role in upgrading the water and sewer systems, improving stormwater management in the city of Detroit, and providing help through assistance programs for customers to maintain water service.

Thank you for allowing us to serve you.



A Message to Our Customers

Drinking water quality is important to our community and the region. The Detroit Water and Sewerage Department (DWSD) and the Great Lakes Water Authority (GLWA) are committed to meeting state and federal water quality standards including the Lead and Copper Rule. This 2019 Water Quality Report highlights the performance of GLWA and DWSD water professionals in delivering some of the nation's best drinking water.

Together, we are committed to protecting public health and maintaining open communication with the community about our drinking water.

To stay informed, we encourage you to register for water alerts via email at detroitmi.gov/DWSD. Our water quality standards are mandated by the Environmental Protection Agency (EPA) and the Michigan Department of Environment, Great Lakes, and Energy (EGLE).

HOW WE PROVIDE WATER SERVICES TO YOU

The Great Lakes Water Authority (GLWA) treats drinking water and transports it to the City of Detroit's distribution system through transmission lines. The Detroit Water and Sewerage Department (DWSD) delivers the treated water to the community through more than 2,700 miles of water mains within the city to the service line of your home or business.

The system uses source water drawn from three intakes. Two source water intakes are located in the Detroit River: one to the north, near the inlet of Lake St. Clair, and one to the south, near Lake Erie. The third intake is located in Lake Huron.

Four of the plants treat source water drawn from the Detroit River intakes. The fifth water treatment plant, located in St. Clair County, uses source water drawn from Lake Huron. Detroit customers are provided service from four plants that treat source water drawn from the Detroit River.



DID YOU KNOW?

Did you know FOGs (fats, oils and greases) can build up in your drains and cause sewer backups?

The buildup of fats, oils and greases put into the drains from homes and businesses can also cause the City's sewer collection pipe to back up. The good news is that this is preventable. Below are some of the steps you can take to avoid a potential backup.

- **DO NOT** pour liquid fats, oils or greases into sink drains or toilets. This includes dairy fats, cosmetic oils and any other type of grease.
- **DO NOT** flush wipes, wrappers, cat litter, medicine and other garbage in toilets. Just because it says it is disposable does not make it flushable. And, a package that has the word, "flushable," does not mean it won't clog during the wastewater treatment process.
- Collect excess fats and oils in a sealed container and recycle.



- Scrape food from dirty dishes and pans into the trash before washing.
- Use a paper towel or scraper to remove residual grease from dishes and pans and place in a trash can prior to washing.
- Your garbage disposal does not eliminate grease. Keep drains clean by using vinegar and warm water or appropriate commercial products to dissolve grease.



Did you know there are ways you can reduce your water usage?

Fix dripping faucets as soon as you notice them. Don't rinse dishes with running water – use one tub or basin to wash and the other to rinse. Use the same glass all day for drinking water or other beverages in order to reduce water needed for washing. Find more tips at www.detroitmi.gov/watertips.

CUSTOMER ASSISTANCE PROGRAMS

10/30/50 Plan

The 10/30/50 Plan is developed for Detroit water customers who experience difficulty in paying their past-due bills. There are no income restrictions to qualify. Customers must make a down payment of either 10%, 30% or 50% of the past due balance. The balance of the past due amount is equally spread over 6-24 months, which the customer pays in addition to the normal monthly bill. All payments must be made in full and on time to stay enrolled in the plan.



Water Residential Assistance Program (WRAP)

The Water Residential Assistance Program (WRAP) is a two-year program that provides funding to eligible, low-income homeowners and renters to assist with water bills, water conservation, and self-sufficiency initiatives through the Wayne Metropolitan Community Action Agency. WRAP offers many benefits including up to \$1,000 annually in bill assistance and minor plumbing repairs up to \$1,000 for eligible households (as of July 1, 2020, the amount will increase to \$1,500). You must be at or below 150% of the federal poverty level (as of July 1, 2020, this will move to 200% at or below the federal poverty level). Since WRAP was launched in 2016, more than 16,000 households have been assisted in Detroit.

To find additional assistance programs through DWSD's community partners, visit www.detroitmi.gov/water.

DWSD offers convenient ways to pay

We're working hard to deliver clean water to nearly 700,000 residents just like you. It's what we do in the community, every day! Here are four easy ways to pay your water bill, including using convenient, self-service options.



Pay online at detroitmi.gov/PayMyWaterBill and set up auto-pay, enroll in a payment arrangement, if needed, and track your real-time usage.



Visit one of the more than 50 no-fee kiosks in and around Detroit and use cash, check or debit/credit card to pay your bill. Find your nearby kiosk at detroitmi.gov/DWSDkiosk.



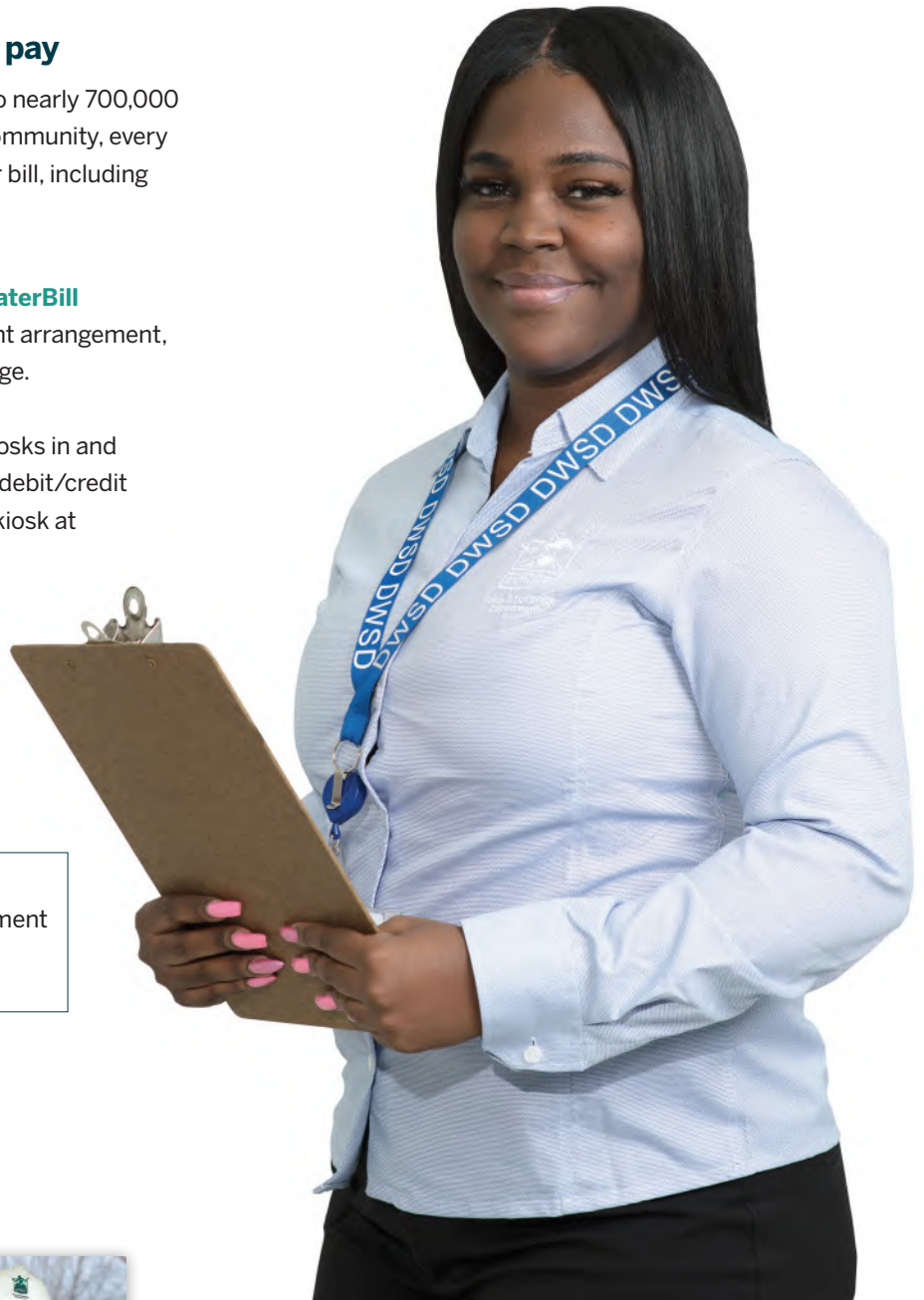
Call our automated pay-by-phone system at **313-267-8000**.



Send your payment by mail with check or money order payable to the "Board of Water Commissioners."

Mail to:

Board of Water Commissioners
Detroit Water and Sewerage Department
PO Box 554899
Detroit, MI 48255-4899



**CLEAN WATER.
DELIVERED.**



Communications to Detroit Residents

DWSD has reached out to Detroiters via many advertisement platforms – billboards, radios, print and digital, for example – to ensure customers are staying updated and informed.



DWSD Director Gary Brown talks with contractors on the site of a water and sewer upgrade project, which includes lead service line replacement.

MICHIGAN'S REVISED LEAD & COPPER RULE AND DETROIT'S TEST RESULTS

DWSD reported in November 2019 that its results for the revised Lead and Copper Rule compliance testing is 10 parts per billion (ppb), which is under the state action level for lead remediation.

All communities with lead service lines — Detroit has an estimated 77,197 (311,000 total service lines which includes 28,922 with unknown pipe material and 77,197 likely lead) — must sample tap water in homes with lead service lines as required by EGLE and the EPA. In Summer 2019, DWSD collected water samples from 55 homes with lead service lines. The 90th percentile of samples was 10 ppb, which is under the action level of 15 ppb. It increased from DWSD's last report of 4 ppb in 2016. A water supply exceeds the action level if more than 10% of all samples is over the action level.

Due to the procedural changes in Michigan's revised Lead and Copper Rule, most communities are expected to see an increase in the results in 2019 compared with previous years.

Fifty-four homes tested in Detroit had lead results below the action level of 15 ppb. Only one home tested above the action level. The first liter sampled from the home exceeding the action level was at 114 ppb. The fifth liter sample at the same home was 6 ppb. The resident was notified, and provided flushing instructions, a pitcher filter with a replacement cartridge, instruction on cleaning faucet aerators monthly, and a plumbing inspection by DWSD personnel to identify plumbing components that need to be replaced.

The new Michigan Lead and Copper Rule Testing Method

The new Michigan Lead and Copper Rule – the most stringent in the nation (enacted in June 2018) – changed the way lead samples are collected at Detroit homes. In the past, DWSD collected only the first liter of water out of the tap. Under the new rule, both the first and fifth liter are collected. The first liter represents water from household plumbing and fixtures, and the fifth liter is more likely to represent water from the lead service line. The service line is the pipe which brings water from the water main in the street to inside the home or business. In Detroit, most service lines are either lead, copper or galvanized steel. Lead service lines are under two inches in diameter and are mostly at single family or duplex homes. The new sampling technique more accurately represents the range of lead in the drinking water in Detroit homes.

Lead in Drinking Water

The water leaving Detroit water treatment plants, operated by the Great Lakes Water Authority (GLWA), does not contain lead, but lead can be released into drinking water from lead service lines and home plumbing as the water moves from the water mains to your tap. Beginning in 1945, Detroit stopped allowing the installation of lead piping for water service lines. Homes before 1945 are most likely to have a lead pipe that connects the home to the water main, known as a lead service line. The lead in lead service lines, household plumbing and fixtures can dissolve or break off into water and end up in tap water. The water provided to DWSD customers contains a corrosion inhibitor to reduce leaching from lead service lines and other lead components, but lead can still be present in water at the tap.



Health Effects of Lead

Lead can cause serious health and development problems. The greatest risk of lead exposure is to infants, young children and pregnant women. Older homes can have many sources of lead exposure including paint, dust and soil. To learn more about the effects of lead exposure, contact the Detroit Health Department at [313-876-0133](tel:313-876-0133).

MICHIGAN'S REVISED LEAD & COPPER RULE AND DETROIT'S TEST RESULTS

Sources of Lead

Drinking water is only one source of lead exposure. Some of the most significant sources - especially for children six years old and under - include lead-based paint and lead contaminated dust and soil. Because lead can be carried on hands, clothing, and shoes, sources of exposure to lead can include the workplace and certain hobbies. Wash your children's hands and toys often as they can come in contact with dirt and dust containing lead. In addition, lead can be found in certain types of pottery, pewter, food and cosmetics. If you have questions about other sources of lead exposure, please contact the health department.

Most plumbing products such as service lines, pipes and fixtures contain lead. The information on the following page demonstrates where sources of lead in drinking water could be in your home. Older homes may have more lead unless the service line and/or plumbing has been replaced. Lead-based solder and lead-based fittings and fixtures are still available in stores to use for non-drinking water applications. Be careful to select the appropriate products for repairing or replacing drinking water plumbing in your home. Even materials currently marked "lead free" have up to 0.25% lead by weight.

Galvanized plumbing can be a potential source of lead. Galvanized plumbing can absorb lead from upstream sources like a lead service line. Even after the lead service line has been removed, galvanized plumbing can continue to release lead into drinking water over time. Homes that are served by a lead service line should consider replacing galvanized plumbing inside the home.

Source: EPA
Additional information regarding lead, including "Frequently Asked Questions about Lead in Drinking Water," can be found on the City of Detroit's website at www.detroitmi.gov/leadsafe, or visit EGLE's website at www.michigan.gov/MILeadSafe.



Steps You Can Take to Reduce Your Exposure to Lead in Your Water



Run your water to flush out lead. If you do not have a lead service line, run the water for two minutes, or until it becomes cold or reaches a steady temperature. If you do have a lead service line, run the water for at least five minutes to flush water from both the interior building plumbing and the lead service line.



Use only cold water for drinking and cooking. Do not cook with or drink water from the hot water tap; lead dissolves more easily into hot water.



Use only filtered water or bottled water for preparing baby formula.



Consider using a filter to reduce lead in drinking water. The Detroit Health Department recommends that any household with a child or pregnant woman use a certified lead filter to reduce lead from their drinking water. Look for filters that are tested and certified to NSF/ANSI Standard 53 for lead reduction.



Get your child tested. Contact the Detroit Health Department at **313-876-0133** or healthcare provider.



Identify older plumbing fixtures that likely contain lead.



Clean your aerator. The aerator on the end of your faucet is a screen that will catch debris. This debris could include particulate lead. The aerator should be removed monthly to rinse out any debris.



Test your water for lead. To request for your water to be tested, please visit www.detroitmi.gov/leadsafe and search "Lead and Copper Sample Request Form." If you do not have Internet access, please call the Detroit Lead Safe Resource Line at **313-964-9300** for assistance.





STORMWATER AND GSI

The most common method to improve stormwater management is Green Stormwater Infrastructure, or GSI. It replicates natural systems to reduce runoff volume, filter pollutants and cut down on flooding by slowing the movement of water into the combined sewer system and channeling it into the ground. Reducing stormwater runoff with strategically placed GSI projects, such as a bioretention area and bioswales, has the added benefit of reducing street flooding.

GSI treats stormwater where it falls by replicating natural habitats and engineered environments in a wide array of practices, including rain gardens, bioretention, living roofs and walls, permeable pavement, retention ponds, and underground storage tanks. It's something that all Detroiters can have a hand in (see green box entitled "Detroit Stormwater Hub").

Non-residential Property owners may receive drainage charge credits on their monthly bill for installing approved, engineered GSI practices. Companies that are developing or redeveloping at least 0.5 acres of land in the city are now required to include stormwater management practices in order to meet the Stormwater Management Code approved in 2018.

DWSD, in order to improve stormwater management in our city and meet state regulations, has built 16 GSI projects in the past six years, which manage a total of 24.5 million gallons of stormwater annually. View the DWSD GSI projects, videos and manuals at www.detroitmi.gov/GSI.

Detroit Stormwater Hub

A community-based collaborative effort, funded by the Erb Family Foundation, launched the Detroit Stormwater Hub in November 2019 as the one place to learn, share and track green stormwater projects across Detroit. The site is now live at www.detroitstormwater.org.

The Detroit Stormwater Hub lists more than 200 public and private GSI projects from across the city, managing 365 million gallons of stormwater annually.



UPGRADING DETROIT'S WATER AND SEWER SYSTEMS

As part of its \$500 million program to upgrade the city's aging water infrastructure, announced in June 2019, DWSD has upgraded 43 miles of water main, lined 40 miles of sewer collection piping and replaced 559 lead service lines. The funding for the \$500 million capital program leverages the funds DWSD receives through its 40-year lease with GLWA.

DWSD is investing \$44.3 million into Cornerstone Village and North Rosedale Park beginning Spring 2020, which follows condition assessments and DWSD's master plan. These are pilot neighborhoods as DWSD moves to a neighborhood approach for water and sewer upgrades.



Improvements being made in each neighborhood include:

- Replacement of water mains and fire hydrants.
- Replacement and lining of city sewer pipes.
- Replacement of lead service lines with copper pipes where they exist on blocks where water mains are being replaced. While a portion of the service lines are on private property, DWSD is replacing them at its own cost, as long as it has the consent of the property owner or occupant to perform the work on their property.
- Installation of Green Stormwater Infrastructure projects to reduce street flooding.

“This is one more way we are investing in our neighborhoods and our residents,”
said Mayor Mike Duggan.

More neighborhoods slated for improvements

This is the first time in DWSD's history to plan water and sewer upgrades at the same time by neighborhood, supported by comprehensive data. To date, DWSD has assessed the water and sewer systems in 12 neighborhoods.

As part of the neighborhood approach, 76 miles of water main and 198 miles of sewer were assessed by DWSD and its contractors in 2018 and 2019.

“We are leveraging the GLWA lease payment and benefiting from improved operations at DWSD to launch a comprehensive approach to water and sewer upgrades,” said Palencia Mobley, P.E., DWSD deputy director and chief engineer whose team is managing the capital improvement program along with contractor AECOM. “We decided to take a neighborhood-by-neighborhood approach, starting with assessing the water and sewer systems, then designing an upgrade strategy based upon that data, the probability of failure and the consequence of failure of the pipes.”

SUBSTANCES FOUND IN SOURCE WATER

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells.

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive materials and substances resulting from the presence of animal or human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife;
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming;
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses;
- Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, which

also can come from gas stations, urban stormwater runoff and septic systems; and

- Radioactive contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.

In order to ensure tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for human health.

Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at **800-426-4791**.

SOURCE WATER PROTECTION

Your source water comes from the Detroit River, situated within the Lake St. Clair, Clinton River, Detroit River, Rouge River and Ecorse River watersheds in the U.S., and parts of the Thames River, Little River, Turkey Creek and Sydenham watersheds in Canada.

The Michigan Department of Natural Resources, in partnership with the U.S. Geological Survey, DWSD and the Michigan Public Health Institute, performed a source water assessment in 2004 to determine the susceptibility of potential contamination in these watersheds. The susceptibility rating is on a seven-tiered scale from "very low" to "very high" based primarily on geologic sensitivity, water chemistry and contaminant sources.

The susceptibility of the Detroit River source water intakes were determined to be highly susceptible to potential contamination. However, all four Detroit water treatment plants that use source water from the Detroit River have

historically provided satisfactory treatment to meet drinking water standards.

The Great Lakes Water Authority (GLWA)-initiated source water protection activities include chemical containment, spill responses and a mercury reduction program. In 2016, Michigan Department of Environmental Quality (MDEQ), now the Department of Environment, Great Lakes, and Energy (EGLE), approved the GLWA Surface Water Intake Protection Program plan. The programs include the following seven elements: roles and duties of government units and water supply agencies, delineation of source water protection areas, identification of potential contaminant sources, management approaches for source water protection, contingency plans, siting of new sources and public participation.

For more information about the Source Water Assessment report, call GLWA at **313-926-8102**.

Key to the Detected Contaminants

> Greater Than	µohms Microohms Measure of electrical conductance of water.
N/A Not Applicable	NTU Nephelometric Turbidity Units Measure of cloudiness of water.
ND Not Detected	pCi/L Picocuries Per Liter Measure of radioactivity.
ppm Parts Per Million (one in a million) The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.	ppb Parts Per Billion (one in a billion) The ppb is equivalent to micrograms per liter. A microgram = 1/1000 gram.
AL Action Level The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.	°C Celsius A scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.
HAA5 Haloacetic Acids HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichloroacetic, and trichloroacetic acids. Compliance is based on the total.	RAA Running Annual Average The average of all analytical results for all samples during the previous four quarters.
LRAA Locational Running Annual Average The average of analytical results for samples at a particular monitoring location during the previous four quarters.	TT Treatment Technique A required process intended to reduce the level of a contaminant in drinking water.
MCL Maximum Contaminant Level The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.	MRDL Maximum Residual Disinfectant Level The highest level of disinfectant allowed in drinking water. There is convincing evidence that additional of a disinfectant is necessary for control of microbial contaminants.
SMCL Secondary Maximum Contaminant Level An MCL which involves a biological, chemical or physical characteristic of water that may adversely affect the taste, odor, color or appearance (aesthetics), which may thereby affect public confidence or acceptance of the drinking water.	MRDLG Maximum Residual Disinfectant Level Goal The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
MCLG Maximum Contaminant Level Goal The level of contaminant in drinking water below which there is no known or expected risk to health.	Level 1 Level 1 Assessment A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in the water system.
TTHM Total Trihalomethanes Total Trihalomethanes is the sum of chloroform, bromodichloromethane and bromoform. Compliance is based on the total.	Level 2 Level 2 Assessment A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if necessary) why an E. coli MCL violation occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

HEALTH CONCERNS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, and people with HIV/AIDS or other immune system disorders. Some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at **800-426-4791**.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young

children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. DWSD is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

REGULATED CONTAMINANTS

Inorganic Chemicals Annual Monitoring at Plant Finished Tap

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level Detected	Range of Detection	Violation	Major Sources in Drinking Water
Fluoride	6/11/19	ppm	4	4	0.74	0.66-0.74	no	Erosion of natural deposit; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate	6/11/19	ppm	10	10	0.99	0.48-0.99	no	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Barium	5/16/17	ppm	2	2	0.01	0.01-0.01	no	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.

Disinfection Residual Monitoring in the Detroit Distribution System

Regulated Contaminant	Test Date	Unit	Health Goal MRDLG	Allowed Level MRDL	Highest Level RAA	Range of Quarterly Results	Violation	Major Sources in Drinking Water
Total Chlorine Residual	2019	ppm	4	4	0.79	0.45-0.86	no	Water additive used to control microbes.

Disinfection By-Products Stage 2 Disinfection By-Products Monitoring in the Distribution System

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level LRAA	Range of Quarterly Results	Violation	Major Sources in Drinking Water
(TTHM) Total Trihalomethanes	2019	ppb	n/a	80	49	12-70	no	By-product of drinking water chlorination.
(HAA5) Haloacetic Acids	2019	ppb	n/a	60	22	5.4-19.7	no	By-product of drinking water chlorination.

Disinfectant By-Product Monitoring at the Waterworks Park Plant Finished Tap

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level RAA	Range of Quarterly Results	Violation	Major Sources in Drinking Water
Bromate	2019	ppb	0	10	0.7	0.0-0.0	no	By-product of drinking water ozonation.

Turbidity Monitored Every 4 Hrs at the Plant Finished Water Tap

Highest Single Measurement Cannot Exceed 1 NTU	Lowest Monthly % of Samples Meeting Turbidity Limit of 0.3 NTU (minimum 95%)	Violation	Major Sources in Drinking Water
0.31 NTU	99.9%	no	Soil runoff

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Special Monitoring

Contaminant	Test Date	Unit	MCLG	MCL	Highest Level Detected	Source of Contaminant
Sodium	6/11/19	ppm	n/a	n/a	7.25	Erosion of natural deposits

Lead and Copper Monitoring at the Consumer's Tap in 2019

Data reported in this table is from 2019. For more information on the testing of Lead and Copper, please refer to page 8.

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Action Level AL	90 th Percentile Value*	Number of Samples Over AL	Range of Individual Samples	Violation	Major Sources in Drinking Water
Lead	2019	ppb	0	15	10	1	0-114	no	Lead service lines, corrosion of household plumbing including fittings and fixtures, erosion of natural deposits
Copper	2019	ppm	1.3	1.3	0.1	0	0-0.3	no	Corrosion of household plumbing system; Erosion of natural deposits; leaching from wood preservatives

* The 90th percentile value means 90 percent of the homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL additional requirements must be met.

Regulated Contaminant	Treatment Technique	Typical Source of Contaminant
Total Organic Carbon ppm	The Total Organic Carbon (TOC) removal ratio is calculated as the ratio between the actual TOC removal and the TOC removal requirements. The TOC is measured each quarter and because the level is low, there is no requirement for TOC removal.	Erosion of natural deposits.

Radionuclides Monitored at the Plant Finished Tap in 2014

Regulated Contaminant	Test Date	Unit	MCLG	MCL	Level Detected	Violation	Major Sources in Drinking Water
Combined Radium Radium 226 and 228	5/13/14	pCi/L	0	5	0.65 ± 0.54	no	Erosion of natural deposits

UNREGULATED CONTAMINANTS

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water

and whether future regulation is warranted.

Before EPA regulates a contaminant, it considers adverse health effects, the occurrence of the contaminant in drinking water, and whether the regulation would reduce health risk.

2015 Unregulated Contaminants Monitored at the Plant Finished Taps

Unregulated Contaminant	Test Date	Unit	Average Level Detected	Range of Detection	Health Advisory	MCLG	MCL	Source of Contaminant
Strontium	2015	ppb	106	98.7-124	4000	n/a	n/a	Erosion of natural deposits
Total Chromium	2015	ppb	0.28	0.21-0.42	n/a	100	100	Discharge from steel and pulp mills; Erosion of natural deposits
Chromium +6	2015	ppb	0.13	0.082-0.24	n/a	n/a	n/a	Discharge from steel and pulp mills; Erosion of natural deposits
Vanadium	2015	ppb	0.21	ND-0.66	n/a	n/a	n/a	Erosion of natural deposits

2015 Unregulated Contaminants Monitored at the Plant Finished Taps

Unregulated Contaminant	Test Date	Unit	Average Level Detected	Range of Detection	Health Advisory	MCLG	MCL	Source of Contaminant
Strontium	2015	ppb	109	102-124	4000	n/a	n/a	Erosion of natural deposits
Total Chromium	2015	ppb	0.21	ND-0.45	n/a	100	100	Discharge from steel and pulp mills; Erosion of natural deposits
Chromium +6	2015	ppb	0.11	0.086-0.18	n/a	n/a	n/a	Discharge from steel and pulp mills; Erosion of natural deposits
Vanadium	2015	ppb	0.20	ND-0.53	n/a	n/a	n/a	Erosion of natural deposits

2019 Unregulated Contaminants Monitored at the Plant Finished Taps

Unregulated Contaminant	Test Date	Unit	Highest Level Detected	SMCL	Range of Detection	Noticeable Effects Above the SMCL	Source of Contaminant
Manganese	2019	ppb	0.48	50	0.0-0.48	black to brown color; black staining; bitter metallic taste	Erosion of natural deposits and corrosion of iron pipes

2019 Unregulated Contaminants Monitored in the Distribution System Haloacetic Acids

Unregulated Contaminant	Test Date	Unit	Allowed Level MCL	Highest Level Detected	Range of Detection	Violation	Major Sources in Drinking Water
Haloacetic Acid 9 (HAA9)	2019	ppb	n/a	31.41	6.72-31.41	n/a	By-product of drinking water chlorination
Haloacetic Acid 5 (HAA5)	2019	ppb	60	22.5	4.5-22.5	no	By-product of drinking water chlorination
Haloacetic Acid Brominated 6 (HAA6BR)	2019	ppb	n/a	11.34	2.22-11.34	n/a	By-product of drinking water chlorination

2019 CITY OF DETROIT TAP WATER MINERAL ANALYSIS

Parameter	Units	Max.	Min.	Avg.
Turbidity	NTU	3.40	0.03	0.22
Total Solids	ppm	179	74	138
Total Dissolved Solids	ppm	193	13	125
Aluminum	ppm	0.361	0.007	0.061
Iron	ppm	0.140	0.014	0.015
Copper	ppm	0.012	0.009	0.000
Magnesium	ppm	10.63	6.63	8.28
Calcium	ppm	41.7	27.0	30.1
Sodium	ppm	10.68	4.60	6.07
Potassium	ppm	1.8	0.86	1.03
Manganese	ppm	0.000	0.000	0.000
Lead	ppm	0.000	0.000	0.000
Zinc	ppm	0.00	0.00	0.00
Silica	ppm	2.8	1.5	2.1
Sulfate	ppm	33.4	18.0	24.1

Parameter	Units	Max.	Min.	Avg.
Phosphorus	ppm	1.44	0.23	0.49
Free Carbon Dioxide	ppm	17.4	4.8	8.5
Total Hardness	ppm	145	90	103
Total Alkalinity	ppm	89	64	72
Carbonate Alkalinity	ppm	0	0	0
Bi-Carbonate Alkalinity	ppm	89	64	72
Non-Carbonate Hardness	ppm	56	20	31
Chemical Oxygen Demand	ppm	40	2.0	2.3
Dissolved Oxygen	ppm	17.2	8.2	11.8
Chloride	ppm	21.3	8.9	11.9
Nitrate Nitrogen	ppm	1.60	0.21	0.41
Fluoride	ppm	0.84	0.45	0.67
pH	ppm	7.49	7.0	7.24
Specific Conductance @ 25 °C	µohms	294	211	234
Temperature	°C	24.6	1.0	12.57

These tables are based on tests conducted by GLWA in the year 2019 or the most recent testing done within the last five calendar years. GLWA conducts tests throughout the year only tests that show the presence of a substance or require special monitoring are presented in these tables.



Water & Sewerage Department

This report is available on the
City of Detroit website at
detroitmi.gov/2019waterqualityreport

We welcome your comments and opinions
about this report. Please direct your comments
or questions to the DWSD Public Affairs Group.

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