

U.S. Department of Housing and Urban Development

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Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

Project Information

Project Name: Woodward Apartments

Responsible Entity: City of Detroit

Grant Recipient (if different than Responsible Entity): NA

State/Local Identifier: City of Detroit, Michigan

Preparer: Kim Siegel, Environmental Compliance Specialist, City of Detroit

Certifying Officer Name and Title: Julie Schneider, Director of Housing and Revitalization

Department, City of Detroit

Consultant (if applicable): Christy Bakos, GRand Environmental, LLC

Direct Comments to:

Penny Dwoinen Environmental Review Officer, City of Detroit Penny.Dwoinen@detroitmi.gov

Project Location:

10201 Woodward, 10227 Woodward and 10236 Woodward Avenue, 39 Calvert Street and 30 Glynn Court in Detroit, Wayne County, Michigan

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The proposed project includes the construction of a 62,497 square foot, four-story tall apartment building containing first floor retail spaces at the southeast corner of Woodward Avenue and Glynn Court in the north end of Detroit. The development will include 53 two-bedroom units; 26 units as 9% LIHTC and 27 units as 4% LIHTC. A parking lot is proposed to the north and rear of the new building. New curb cuts are proposed from the two side streets, Glynn Court and Calvert Avenue.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

The project would provide much needed affordable retail space and private-unit residential housing in the North End neighborhood of Detroit. The development is designed to meet the income distribution and household size needs identified in the market study as well as provide desirable community retail space on Woodward Avenue. The project is located within a federally designated Qualified Census Tract.

Existing Conditions and Trends [24 CFR 58.40(a)]:

The project site is currently underutilized vacant land. The site is located on the west side of Woodward Avenue and is adjacent to the Boston-Edison Historic District and across from the Cathedral of the Most Blessed Sacrament. The area would likely remain vacant without the proposed project.

Surrounding land is a mix of apartments, single family residential, commercial, and community uses. The Subject Property has a municipal bus route stop along Woodward Avenue and is within easy walking distance of a municipal park and a variety of business, retail, educational and religious opportunities. The adjoining Cathedral of the Most Blessed Sacrament serves as the seat of the Archbishop of the Archdiocese. The Archdiocese has been an active community engager in the neighborhood for over 100 years and continues to invest and promote cultural activities in the neighborhood for the local residents and statewide population.

As described above, the market study documented a shortage of affordable housing locally for community members with incomes at or below 60% of Area Median Income (AMI) and trend factors indicating that this shortage will become even greater in the near, medium, and long term.

Private sector housing development in this area is infeasible in the foreseeable future. The new development will incorporate much needed residential living units at as well as commercial space. Failure to redevelop the vacant land would not address the current shortage of such housing and community retail opportunities or the projected long term continued shortage.

Funding Information

Federal Funding Program	9% Phase Funding Amount	4% Phase Funding Amount
Low Income Housing Tax Credit (LIHTC) Equity 4%	\$0	\$3,558,644
Tax-Exempt Bond Permanent Mortgage	\$0	\$1,918,179
Taxable Bond Permanent Mortgage	\$1,562,267	\$0
LIHTC Equity 9%	\$9,214,816	\$ 0
HOME funds	\$ 0	\$ 0
HTF Funds	\$ 0	\$2,440,103
DHC PBVs	8 PBVs	8 PBVs
Total Project Cost	\$11,318,856	\$8,296,709
Deferred Fee	\$162,399	\$154,583
Sponsor Note	\$379,174	\$225,000

Estimated Total HUD Funded Amount: A total of 16 Vouchers - Each has 8 Project Based Vouchers

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: See above

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations	
STATUTES, EXECUTIVE	ORDERS, A	AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6	
Airport Hazards 24 CFR Part 51 Subpart D	Yes No	The property is located approximately 8 miles from the Coleman A Young Municipal Airport, 16 miles from the Windsor International Airport and 20 miles from the Detroit Metropolitan Wayne County Airport, which are the nearest US military, civil or commercial service airports. The project site is not within an Airport Clear Zone or Accident Potential Zone. No military airfields are located in Wayne County or the nearby vicinity. See Attachment 1 -Phase I ESA (Appendix 10.8) and Attachment 2 for	
		location maps and Partner Worksheet	
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501] Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128	Yes No Yes No Solve So	The project site is not within a Coastal Barrier Resource System (CBRS) Unit, or CBRS buffer zone, as defined under the Coastal Barrier Improvement Act of 1990 [16 Resources Act of 1982 (PL 97-348), as amended by the Coastal Barrier Improvement Act of 1990 (PL 101-591). See Attachment 3 for coastal zone maps The property is not located within a Special Flood Hazard Area as depicted on the Flood Insurance Rate Map panel 26163C0280E Panel 280 of 575, dated February 2, 2012. The project would not involve either direct or indirect support of development in a floodplain. See Attachment 4 for the Floodplain Map	
and 42 USC 5154a]			
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5			
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No	Clean Air Act — Wayne County is designated as being in 'attainment' for carbon monoxide, lead, nitrogen dioxide, particulate matter (PM10 & PM2.5). Southeast Michigan is in a Nonattainment area for ozone, and the eastern portion of Wayne County is in a Nonattainment area for Sulfur Dioxide. The State of Michigan has a State Implementation Plan in place and continues to monitor the concentrations of Sulfur Dioxide in portions of Wayne County. Local and Regional air quality will not be significantly affected. A General Conformance Letter was received from EGLE.	

		Fugitive Dust Measures to control fugitive dust will be utilized during construction to ensure that construction projects do not result in erosion and formation of dust. The Best Management Practices (BMPs) employed will comply with the City's site plan approval process and will be effective in controlling construction related fugitive dust.
Coastal Zone Management	X7 N	See Attachment 5 – NAAQS Maps and General Conformity Letter The Property is not located in a coastal zone per State of Michigan Office
Coastal Zone Management Act, sections 307(c) & (d)	Yes No	of the Great Lakes or the National Oceanic and Atmospheric Administration.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes No	See Attachment 3 for Coastal Zone Boundaries Maps A Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13 and MSHDA Environmental Review for Requirements the Subject Property was completed on August 28, 2020 by Environmental Services, GPW, LLC. The Phase I ESA revealed several recognized environmental conditions (RECs) across the Subject Property. Phase II subsurface soil investigations confirmed the presence of contaminants in the soil on-site exceeding Michigan Part 201 Generic Residential Cleanup Criteria (GRCC). The contaminants include: lead, arsenic, mercury, benzene, ethylbenzene, xylenes, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, isopropylbenzene, n-propylbenzene, sec-butylbenzene, n-butylbenzene, tert-butylbenzene, naphthalene, 2-methylnaphthalene, phenanthrene, 1,2,4-trimethylbenzene (TMB), 1,3,5-TMB and 1,2,3-TMB. A BEA report was prepared on October 7, 2022, submitted and received by the Michigan Department of Environment, Great Lakes & Energy (EGLE). The acknowledgement letters are attached. Furthermore, to address the site contamination concerns, three Final Assessment Reports (FARs) and Corrective Action Plans (CAPs) were prepared, submitted and reviewed by EGLE. EGLE approved the reports on October 20, 2022. The plans outline the removal of all impacted soil to protect residents from exposures to contamination remaining onsite. Following the implementation of the actions included in the FARs and CAPs, a Closure Report or Documentation of Due Care Compliance (DDCC) report will be prepared and submitted to EGLE for approval if needed. The approved DDCC will establish that the site is in compliance with Part 201 for the intended mixed commercial and residential use. Asbestos and Lead Based Paint There are no buildings Radon The proposed project is located in Wayne County which is designated as Zone 3 by the EPA. Zone 3 counties have a predicted average indoor radon screening level below

Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes	No 🖂	The project is located within a historically densely developed environment where the vegetation and wildlife have adapted. The project has been developed for commercial and residential uses since the late 1800's. An Official Species List was obtained from the USFWS that identifies potential Threatened and Endangered (T&E) species in the area of the proposed project. Based on observations and additional data gathered in this assessment, there are no T&E species or critical habitats along the Woodward Avenue corridor. Therefore, the project would have "No Effect" on listed species and no Best Management Practices would be required to mitigate potential effects to them. The USFWS indicates "There are no Critical Habitats at this Location".
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes	No	The project does not involve explosive or flammable materials or operations. There is no visual evidence or indication of unobstructed or unshielded above ground storage tanks (fuel oil, gasoline, propane, etc.) or operations utilizing explosive/flammable material at or in close proximity to the property.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes	No 🖂	See Attachment 8 for Pipelines Map and Partner Worksheet The project site consists of urban land; therefore, the project would not affect farmlands. According to the US Department of Agriculture Natural Resources Conservation Service Resource Assessment Division Map for Michigan there are no protected farmlands in the City of Detroit. The soils are classified as Shebeon-Urban land – Avoca complex, which are not prime farmland.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes	No 🖂	See Attachment 9 The project is not located within a Special Flood Hazard Area as depicted on the FEMA Floodplain map. The project would not involve either direct or indirect support of development in a floodplain. See Attachment 4
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes	No	Section 106 An Application for Section 106 review was submitted to the State Historic Preservation Office (SHPO). SHPO provided a finding of No Adverse Effect on July 9, 2021. See Attachment 10
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes	No	HUD Noise Standards A noise assessment was conducted for the property by ESGPW, LLC as part of the Phase I ESA and the assessment found exterior noise levels on the site to be up to a Day-Night Average Sound Level (DNL) of 72 dB. HUD regulations at 24 CFR Part 51 Subpart B consider the range between 65 and 75 DNL to be normally unacceptable and above 75 DNL to be unacceptable. Excessive noise at the site is due to road traffic on the adjacent Woodward Avenue. The developer evaluated how interior noise will be mitigated to achieve HUD noise standards. A STraCAT was completed by the developer / architect documenting the planned construction methods meet the required STC rating of less than 30. Construction Noise City Ordinance prohibits construction work between 10:00 pm and 7:00 am unless a special permit or waiver is granted. Construction is

Sole Source Aquifers	Yes	No	not anticipated to affect indoor uses associated with the nearest sensitive receptors surrounding the project site. Operational Noise The new structure is not anticipated to introduce new permanent noise sources which would interfere with surrounding residential uses. See Attachment 11 There are no US EPA designated sole-source aquifers in Michigan.
Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149			The proposed site is not located within a sole source aquifer watershed and would not affect a sole-source aquifer or negatively impact the water quality or any aquifers in the area. See Attachment 12
Wetlands Protection Executive Order 11990, particularly sections 2 and 5		No	The project site is not located near, or within, a wetland area. Therefore, the project would not affect wetland or riparian areas. See Attachment 13 for the Wetland Map
Wild and Scenic Rivers			No Wild and Scenic Rivers are located within the City of Detroit.
Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)		No	See Attachment 14 for the State National Scenic Rivers Map
ENVIRONMENTAL JUSTICE			
Environmental Justice Executive Order 12898		No	The building will serve low-income and minority populations. The project would not result in disproportionately adverse environmental effects on minority or low income populations. New facilities and residences are intended to enhance the quality of life for new and existing residents and the community.
			See Attachment 15 for the Partner Worksheet

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. All conditions, attenuation or mitigation measures have been clearly identified.

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental	Impact		
Assessment Factor	Code	Impact Evaluation	
LAND DEVELOPMENT			
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	This redevelopment project is in agreement with both the City of Detroit Master Plan and Zoning Ordinances. The site is currently zoned B4 (general business district) and adjoins R1 (Single-family residential district) and R5 (Medium density residential district) to the west. A historic district is to the south. This development is compatible with the City's goals for residential and commercial development and will have a positive impact on the area within which it exists The proposed development activities are anticipated to help revitalize the area immediately surrounding the project. The buildings will maintain compatible characteristics with the surrounding neighborhood. The design has been completed to be compatible with the surrounding area in use and scale and has been approved by the city. See Attachment 16 for the Zoning Map	
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	Topography The development site consists of virtually level ground, at an equal elevation to adjoining properties. After construction, the site will have slopes of less than 2% (see Figures).	
		Site Geology Soil borings conducted in several past documented investigations indicate the site consists of sandy fill material to a depth of approximately 8 – 10 feet deep. A native dry clay was reported beneath the sandy fill materials. The CAP indicates that all the impacted soils will be removed to a depth of approximately 16 feet in the area of the former UST excavation and to a depth of 12 feet in the area of the former building. The soils will be screened during the excavation to determine the final extent. Clean sand backfill will be placed in the excavation prior to further development.	
		Erosion Erosion by natural forces is not anticipated to be of concern following development of the site. During excavation of the impacted soils and construction, the project site will be surrounded by approved soil erosion and sedimentation control systems. These systems shall be maintained throughout the construction phases of the project to minimize the potential for water borne migration of soils off site to protect adjacent and downstream storm water inlets.	
		Stormwater Stormwater runoff at the project site will enter the municipal storm sewer system. The project will add impervious surfaces on the project site that are connected to municipal storm sewer. Appropriate permits will be obtained and the City of Detroit has enough availability to service the Subject Property.	
		See Attachments 1 and 21 and Figure 1	

Hazards and Nuisances including Site Safety and Noise	3	A noise assessment was conducted for the property and the measurements found exterior noise levels on the site to be up to a Day-Night Average Sound Level (DNL) of 72 dB. Through the use of improved building insulation and windows an interior threshold of 45 will be achieved (see above).
		Noise intensive construction activities will be limited to the days and hours specified under the City's noise ordinance. These days and hours shall also apply to any servicing of equipment and to the delivery and removal of materials to and from the site. All construction equipment shall be equipped with mufflers and sound control devices (e.g., intake silencers and noise shrouds) no less effective than those provided on the original equipment and no equipment shall have an un-muffled exhaust. Stationary equipment shall be placed so as to maintain the greatest possible distance from sensitive uses.
		Road hazards will be addressed through installation and updating of crosswalk signs and control systems which are under the city's control.
		Air Quality is not expected to be affected by the project though short term dust during construction is a potential concern and will be addressed by utilizing all best practices approach with dust control measures in place during construction activities. Any emissions would be short-term and localized and would not result in any significant adverse effects on overall ambient air quality.
		See Attachments 5 and 11
Energy Consumption	1	The project will meet current State and local codes concerning energy consumption. It is not anticipated to have a substantial effect on the use, extraction, or depletion of a natural resource. Energy utilization during construction is expected to be consistent with typical construction equipment. The location is served by local utility providers. The development will be completed in accordance with Enterprise Green Environmental Criteria.
		The project site will incorporate energy efficient home performance standards to decrease consumption of energy. The structure will include modern features including efficient windows, insulation and have high efficiency furnaces and appliances and LED lighting.
		See Attachment 17 for Project Narrative
		SOCIOECONOMIC
Employment and Income Patterns	1	The proposed project is expected to positively alter the demographic nature and character of the community due to the increase in the local population.
		The project will provide temporary construction jobs during the construction phase and continuing full time employment for maintenance and management of the development. The construction firm will make efforts to the fullest extent possible to employ local

Demographic Character Changes, Displacement	1	workers. Future residents of this development will help to support existing and future commercial enterprises in the area and the project will also increase long term tax base by placing the existing vacant and unused property into productive use. See Attachment 17 Demographics The proposed project would not result in physical barriers or reduced access that would isolate a particular neighborhood or population group. The proposed project would not induce a substantial amount of unplanned growth and is in fact part of the City's planned growth. The project will increase the number of available residential units and thus would result in a slight increase to population. The renovation into additional low income housing will assist in stabilizing and diversifying the neighborhood.
		Displacement This residential renovation project will occur on a vacant lot, therefore no persons will be displaced due to this project.
		See Attachment 17 and Figures 1 and 2
	_	TY FACILITIES AND SERVICES This housing development will have a positive effect on the legal
Educational and Cultural Facilities	1	This housing development will have a positive effect on the local educational facilities. Public education is offered in the area by Detroit Public Schools. Several preschools, elementary, middle and high schools are located within ten miles of the Subject Property, the closest elementary school is about two blocks west. Wayne State University and Lawrence Technological University are also within 10 miles. With the project bringing in new tenants and families, additional children in the school system will potentially increase the amount of educational funding the school system receives. The City of Detroit maintains multiple museums, arenas, performance halls, theatres and libraries. The Detroit Institute of Art, Motown Museum, Opera House, Comerica Park, and Little Caesars Arena among others are all within five miles of the Subject Property. The proposed project is not expected to significantly impact the capacity of the existing cultural facilities. The project will potentially bring new residents to the area that may attend cultural facilities in the surrounding areas. See Attachment 18
Commercial Facilities	2	The project will add to the current residential base and available commercial space and is not expected to negatively impact existing commercial facilities that are located around the project site. The project is expected to bring in new residents, which will benefit the neighboring commercial establishments. New commercial space will be available on the first floor of the building to allow additional needed businesses to serve the community. See Figure 2 and Attachment 18

Health Care and Social Services	2	The area of the project site has adequate health care service providers for the city and surrounding communities. The project site is less than two miles away from Henry Ford Hospital and several senior care and urgent care facilities are located within five miles. See Attachment 19 for maps and lists documenting the neighboring hospitals, senior care facilities and urgent care facilities.
		Adequate social services are available to residents of the City of Detroit. Area organizations provide a wide range of services to low income persons. The area wide services include homeless programs, community support services, employment services, legal aid, planned parenthood, Catholic Social Services, adoption services and American Red Cross.
		See Attachment 19
Solid Waste Disposal / Recycling	2	The project site will be served by the existing local utility service (Advanced Disposal, part of Waste Management) and the redevelopment is not expected to negatively impact the solid waste disposal service. Following construction, the project site will utilize solid waste dumpsters that will be serviced by the local contractor on a weekly basis. The City of Detroit Public Works is committed to a fully integrated solid waste management system. The system includes waste reduction, reuse, recycling, incineration, energy recovery and land filling.
		See Attachment 20
Waste Water / Sanitary Sewers	2	The Stormwater and Sewer system is operated the by the City of Detroit. Wastewater generated at the project site would be collected and processed by the city system in accordance with the Post-Construction Stormwater Ordinance. The City of Detroit has adequate facilities to handle any waste water generated from this project. The project site is not anticipated to generate significant quantities of waste water.
		See Attachment 21
Water Supply	2	The project site area receives water from the City of Detroit. The City of Detroit is in compliance with State and Federal Drinking Water Acts and has adequate facilities to supply water to the project site, even with the increase to residential density. The drinking water meets or exceeds the water quality requirements of the EPA.
		See Attachment 21
Public Safety - Police, Fire and Emergency Medical	1	The project site is served by the City of Detroit Police and Fire Department. The Police Department has a dedicated Neighborhood Police Officer assigned to the area in addition to standard emergency police services. Detroit firefighters are trained as emergency medical technicians, and some firefighters are also paramedics. Detroit FD operates 46 firehouses with between 4 and 12 firefighters per station. They are licensed and outfitted with medical first response equipment. EMT and ambulance services are also available with private services.

		Furthermore, Detroit ensures fire safety and emergency accessibility within new and existing developments through provisions of its Building and Fire Codes. The development of the project site will improve the safety of walking routes as well as the overall public safety of the community. Since the site was previously developed, no significant increased demands are anticipated for the public services. See Attachment 22
Parks, Open Space and Recreation	1	There are parks, recreational and cultural facilities accessible by public transportation or within walking distance. The project site is adjacent to The Cathedral of the Most Blessed Sacrament which includes a community center and Chicago and Maiullo Parks one block to the south.
		The project site will not significantly impact the availability of existing quality open space or recreational facilities and may generate higher attendance at recreational events in the area. A children's recreational area is planned for the Subject Property development.
		See Attachment 23
Transportation and Accessibility	1	This project site is adequately served by pedestrian, bicycle, transit and parking facilities. It is near several city bus lines which maintain stops near the Subject Property. Sidewalks and crosswalks are provided throughout the project area on all surrounding roadways. The site is accessible to emergency vehicles and disabled persons. The project includes accessibility designs (accessible ramps, accessible parking spaces, accessibility features to units) which would have a beneficial effect. The use of automobiles and bus service as transportation is not expected to be negatively impacted by the proposed project. The Subject Property provides access to six transit routes within 500 feet. Bussing throughout the City of Detroit is provided by The Detroit Department of Transportation (DDOT). SMART bus routes also service the Subject Property. The Detroit Metropolitan Wayne County Airport and Coleman A. Young International Airport are also located in Wayne County, which provides domestic and international transportation.
		See Attachment 24
** ** **		NATURAL FEATURES
Unique Natural Features, Water Resources	2	The existing natural landscape is not unique, no water features are present onsite or adjoining. Implementation of the project would not affect water resources, nor would it increase demands on groundwater resources. As noted above water service would be provided by City of Detroit. No surface waters (e.g., lakes, rivers, ponds) are located on or adjacent to the project site. Stormwater at the project would be collected and treated by the City. The project was checked for unique natural features and endangered species in Wayne County and did not find any that would apply to the project or impact the project site.
		See Attachment 7

Vegetation, Wildlife	_	The project site is located within an urban environment where the vegetation and wildlife have adapted. The site has been previously developed since the late 1800's, with no indication of unique vegetation or wildlife. This project will not disrupt any existing natural landscape or wildlife.
Other Factors		No additional project impacts are anticipated.

Additional Studies Performed:

- 1. Phase I Environmental Site Assessment, 10201 Woodward Avenue, Detroit, MI. Environmental Services, GSPW, LLC. September 26, 2017.
- 2. Baseline Environmental Assessment, 10201 Woodward Avenue, Detroit, MI. Environmental Services, GSPW, LLC. October 7, 2022.
- 3. Final Assessment Reports / Corrective Action Plans, 10201 Woodward Avenue, 30 Glynn Court and 10227 Woodward Avenue, Detroit, MI. Environmental Services, GSPW, LLC. September, 2022.

ATTACHMENTS

Figure 1: Subject Property Location Map

Figure 2: Site Development Plan

- Phase I Environmental Site Assessment, 10201 Woodward Avenue, Detroit, MI., Environmental Services, GSPW, LLC. September 26, 2017.; Baseline Environmental Assessment, 10201 Woodward Avenue, Detroit, MI. Environmental Services, GSPW, LLC. October 7, 2022; Final Assessment Reports / Corrective Action Plans, 10201 Woodward Avenue30 Glynn Court and 10227 Woodward Avenue, Detroit, MI. Environmental Services, GSPW, LLC., September 2022
- 2. Airport Hazards Partner worksheet, distance maps
- 3. Coastal Zone Barrier and Boundary Maps
- 4. FEMA Map
- 5. Air Attainment Status Map MI
- 6. Michigan EPA Radon Map
- 7. Endangered Species List
- 8. Explosives Partner Worksheet
- 9. Farmland map and Soils Survey Map
- 10. Section 106 Application, and SHPO NAE Letter
- 11. Noise Assessment report and STraCAT evaluation
- 12. Sole Source Aquifer Map
- 13. Wetland Map
- 14. National Scenic Rivers Map
- 15. Environmental Justice Partner Worksheet and Social Services map
- 16. Zoning Map
- 17. Project Narrative
- 18. Maps for Educational facilities, cultural and entertainment facilities and commercial facilities

- 19. Maps for Medical, urgent care and senior care facilities
- 20. Waste Service Providers map
- 21. Water Quality Report and Storm Sewer Project Report
- 22. Police and Fire Department maps
- 23. Public parks map and Entertainment map
- 24. Bus Route maps
- 25. HRD Mitigation Plan

List of Permits Obtained:

None

Cumulative Impact Analysis [24 CFR 58.32]:

The cumulative impacts anticipated for this project are primarily associated with increased residential density such as increased traffic and use of resources and services (roads, schools, police, etc). The project is consistent with the anticipated growth of the immediate and surrounding neighborhoods and therefore not considered detrimental. Other cumulative impacts include generation and consumption of materials during construction and waste generated during construction which are expected to be minimalized through the use of industry best practices, Enterprise Green Environmental Criteria and high efficiency appliances.

The proposed project will have a positive effect within the City of Detroit by placing the inactive property back into productive use; reducing property vacancies; providing additional, affordable and low-income modern housing; and eliminating the decline of neighborhood housing values. Improvement of this portion of the community may spur additional renovations in the area, address identified community revitalization plan goals, and add residential tenants in an important area of the community. No significant adverse impacts to the human environment are anticipated.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

The layout of the building was designed and modified to achieve the highest and best use, therefore previous plans were changed to allow for this, with no adverse impacts to the human environment. The number and layout of the units has been modified to provide for project-based voucher units as well as rents at 30%, 40%, 50%, 60% and 80% AMI units. The redevelopment plans have been carefully proposed to allow the thoughtful redevelopment of a vacant area within the City of Detroit North End Neighborhood.

Private Development – Redevelopment using private funds is not economically feasible considering current rental rates within the target area.

More Units – Option for construction of a larger development was considered but not selected due to market conditions anticipated at this time.

Fewer Units – Development and operating costs are not feasible for a facility with fewer units.

Alternate Site – The market study and related research did not identify any sites within the market area of comparable size that are currently vacant or with similar proximity to resources. Redevelopment of occupied alternative sites with suitable characteristics would require the displacement of current residents or businesses that is not consistent with the community's focus on growth and sustainability.

No Action Alternative [24 CFR 58.40(e)]:

The no action alternative would fail to stabilize the neighborhood and property values. The project site would remain vacant and unused, which does not benefit the City of Detroit community. The no action alternative would fail to address the documented critical need for low-income modern housing or fulfill the goals of the community revitalization. Because no adverse impacts have been identified, the alternative of No Action is not reasonable.

Summary of Findings and Conclusions:

The project would provide much needed affordable, private-unit residential housing, community gathering space and retail commercial space in a transitional area of Detroit. The development is designed to meet the income distribution and household size needs identified in the market study as well as provide desirable community and commercial space. The property has been vacant and unused for several years, and the proposed end use will provide important community engagement and living area in a vital area of the city. The project is located within a Qualified Census Tract and the services offered will focus on services that improve the lives of community residents. The no action alternative would fail to stabilize the neighborhood and property values. The project site would remain vacant and unused, which does not benefit the City of Detroit community. Furthermore, the impacts of the development are minimal and can be managed by typical mitigation measures. Overall, the project is a benefit to the City of Detroit.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarized below are mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
Historic Preservation	Should any human remains or historical or unique archaeological resources be discovered during site development work, the provisions of CEQA Guidelines, Section 15064.5.(e) and (f) will be followed to reduce impacts to a non-significant level.
Noise	Noise intensive construction activities shall be restricted to the days and hours specified under the City's noise ordinance. These days and hours shall also apply to any servicing of equipment and to the delivery and removal of materials to and from the site.

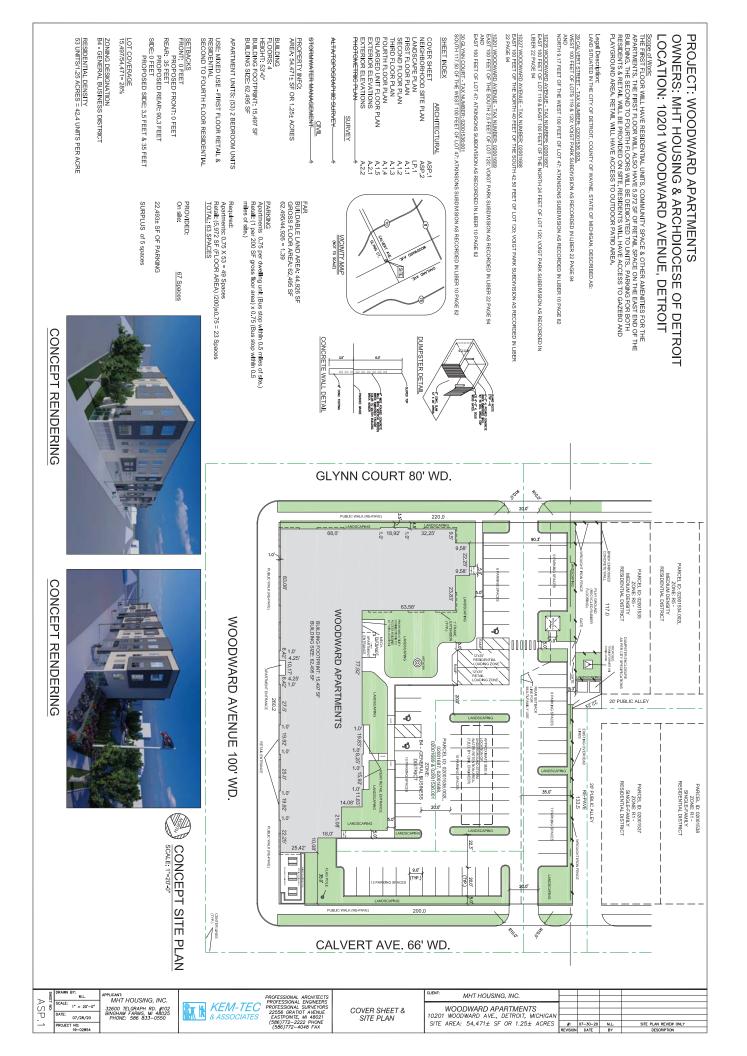
	All construction equipment shall be equipped with mufflers and sound control devices (e.g., intake silencers and noise shrouds) no less effective than those provided on the original equipment and no equipment shall have an un-muffled exhaust. Stationary equipment shall be placed so as to maintain the greatest possible distance from sensitive uses. The building construction methods and materials will result in the interior envelope achieving HUD noise DNL
	threshold of 45. A combination of exterior wall sheathing (brick), insulation and noise rated windows will be sufficient to meet the desired interior level. A summary of the building materials and design to meet the noise standard has been signed by the project architect and included in source documents (see Attachment 8).
Dust Control	Dust generated on the project site shall be controlled by watering all exposed areas daily as needed during excavation, and especially during clearing and grading operations. Additional watering on windy or hot days may be required to reduce dust emissions. Stockpiles of sand, soil and similar materials will be required to be covered with a tarp if dust is a concern. All trucks hauling dirt, sand, soil or other loose materials to and from the site will be required to be covered with a fabric cover and maintain a freeboard height of 12 inches. The general contractor will be responsible for implementing dust control measures.
Contamination and Toxic Substances	A Phase II subsurface soil investigation confirmed the presence of contaminants on-site exceeding Michigan Part 201 Generic Residential Cleanup Criteria (GRCC) for direct contact exposure. A Baseline Environmental Assessment (BEA) has been prepared and received by EGLE.
	Three FAR / CAP reports have been prepared by the environmental consultant and approved by Michigan EGLE. The plan outlines the removal of all of the impacted soil and the use of barriers to protect residents from exposures to contamination remaining onsite (if needed).
	Following the implementation of the actions included in the FAR / CAPs, a Documentation of Due Care Compliance (DDCC) report will be prepared and submitted to EGLE for approval, if contamination remains on site. If all contaminated soils are removed, a Closure Report / No Further Action (NFA) report will be completed. The approved Closure / NFA or DDCC will establish that the site is in compliance with Part 201 for the intended residential use (see Attachment 1).

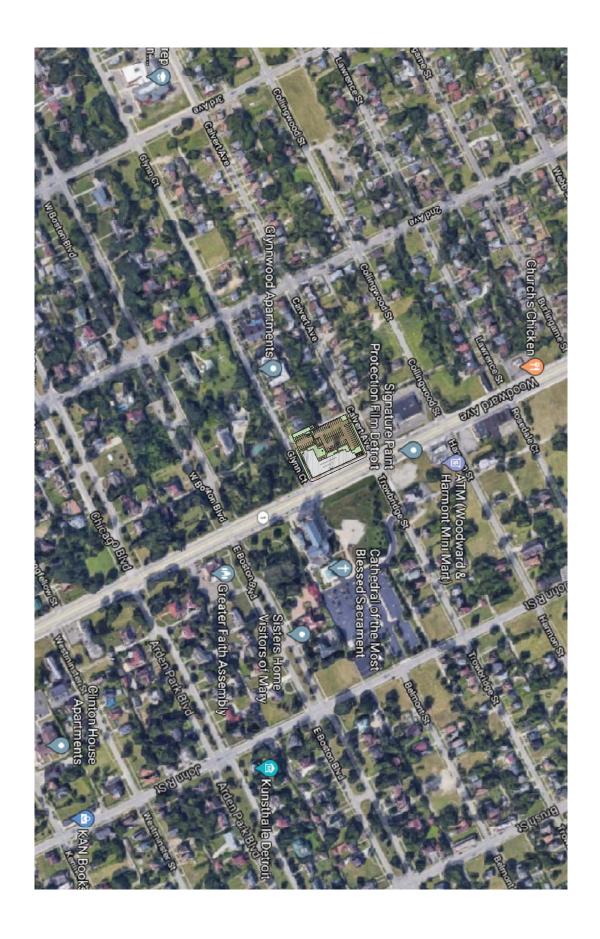
Determination:	
Finding of No Significant Impact [24 CFR 58.40] The project will not result in a significant impact on the qua	(C) ()
Finding of Significant Impact [24 CFR 58.40(g)(The project may significantly affect the quality of the human	. //
Preparer Signature: Mush Bats	Date: <u>11/2/2022</u>
Name/Title/Organization:Christina Bakos / Project M	anager / GRand Environmental, LLC
Certifying Officer Name/Title: <u>Julie Schneider, Director</u> <u>Department, City of Detroit</u>	of Housing and Revitalization

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

Woodward Ave. Apartments ESGPW October 24, 2022

Response Activity or Continuing Obligation	Required Activities		Timing of Activity	Required Follow-up or Reporting	
NEPA Posting	Need to submit a NEPA Environmental Assessment for the DHC PBV's on the property to the City of Detroit.	Developer/ Environmental Consultant	Pre-Construction	Need HUD Authority to Use Grant Funds for closing.	
Final Assessment Report- Excavation of Contamination Remove the contaminated material across the entire subject property. General C		General Contractor	General Contractor During Construction		
Final Assessment Report- Verification of Soil Remediation (VSR) Sampling VSR sampling will be conducted following the remedial action		Environmental Consultant	During Construction	Document in Closure Report	
Section 106 –No Adverse Effect Requirements	or bones are discovered, notify the Preservation Specialist		During Construction	No action needed unless changes to the scope are made or bones/artifacts are discovered.	
Noise	Appropriate construction materials will be incorporated in the building to mitigate noise levels within the acceptable range.		Before/During Construction	Performed Noise Assessment, STraCAT, Specs	
Closure Report	A Closure Report is expected to be prepared and submitted to EGLE upon the completion of the proposed corrective action plan		Post Construction	Closure Report with analytical results. Provide a copy to City of Detroit, MSHDA and EGLE.	





/ SHEE	DRAWN BY:
S	SCALE: NOT TO SCALE
v	DATE: 07/28/20
N	PROJECT NO:

1	CLIENT: MHT HOUSING, INC.				
WOODWARD APARTMENTS					
	10201 WOODWARD AVE DETROIT MICHIGAN	#1 REVISION	07-30-20 DATE	M.L. BY	SITE PLAN REVIEW ONLY DESCRIPTION

LANDSCAPING NOTTES

THE LANDSCAPE CONTRACTOR SHALL BE
CONTRACTOR SHALL BE
ALL MATERIALS AND PLANTS SHOWN ON THE PLAN WHETHER OR NOT

FERTILIZED, DECIDIOUS TREES TO BE FREE OF FRESH SCARS AND BRANCHES TO BE A HEIGHT OF 5 ABOVE ROOTBALL. TRUNKS SHALL BE WYAPPED, IF MCEESSARY, TO PREVENT SUN SCALD AND INSECT DANAGE. THE LANDSCAPER SHALL REMOVE SAID WRAP AT THE PROPER TIME AS PART OF HIS AND WRAP AT THE PROPER TIME AS PART OF HIS INCLUDED IN THE "PLANT LIST". ALL NURSERY STOCK TO BE WELL BRANCHED, HEALTHY, FULL, VIGOROUS, PRE INOCULATED, AND

ALL NURSERY STOCK SHALL BE GUARANTEED.
TOPSOIL, 4"THICK, SHALL BE PROVIDED AND GRADED
BY THE LANDSCAPE CONTRACTOR AND SUBJECT TO
APPROVAL BY THE OWNIER. ALTERNATIVES MAY ONLY BE USED IN THE EVENT OF UNAVAILABILITY OF THE SELECTED SPECIES WITHIN A REASONABLE DISTANCE OR DUE TO SEASON. PROOF

MAY BE REQUESTED BY THE ENGINEER.
EVERGREEN TREES SHALL NOT BE PLANTED DURING
JUNE, JULY, OR AUGUST.

MULCH SHALL NOT CONTAIN ANY FARM WASTE AND SHALL BE INDICATED ON PLAN FOR EACH AREA.

A CHEMICAL WEED PREVENTATIVE BARRIER SHALL BE APPLIED IN ALL NON-GRASS AREAS WHICH DO NOT HAVE FOLYETHYLENE FLM MULCH NUDICATED.

REMOVE ALL TWINEL WIRE, AND BURLAP FROM SHRUB AND TREE EARTH BALLS AND FROM TREE TRUNKS.

LAWN TREES TO BE MULCHED WITH A 2" WIDE BY MINIMUM 6" DEEP SHREDDED BARK RNG.

SHRUB BEDS TO BE MULCHED WITH 3" OF SHREDDED

SOD AND SEED TO BE KENTUCKY BLUE BLEND.

VIO MATION'S OF COACHO STATE CODES LAWS,
ORDINANCES, AND REGULATIONS, IF ANY
NITERFERENCE OR VIOLATIONS APPEAR AND
DEPARTURE FROM THE DESIGN INTENT OF THE
CONTRACT DOCUMENT SI SE REQUIRED. THE
CONTRACTOR SHALL NOTIFY THE
ARCHITECTICININERS BEFORE ENTERING INTO THE
ARCHITECTICININERS METORE ENTERING INTO THE
ARCHITECTICININERS WITH THE
ARCHITECTICININERS WITH THE
THE ARCHITECTICININERS WITH THE
CONTRACT WE BEING HELD RESPONSIBLE TO
COMPLETE ALL WORK TO MEET THE INTENT OF THE
CONTRACT DRAWMINGS WITH NO ADDITIONAL EXPENSE
("EXTRAC") BEING HELD RED WHERE. EXAMINATION OF SITE

HE CONTRACTOR SHALL VISIT THE JOB SITE BEFORE

HE SUBMITS HIS BID TO TO BECOME FAMILIAR WITH

THE ACTUAL JOB CONDITIONS AND TO CHECK FOR

ANY INTERFERENCE BETWEEN THE WORK AND THAT

OF OTHER TRADES AND/OR ANY APPARENT

• PREMISES SHALL BE CLEANED UPON COMPLETION OF

LANDSCAPE AREA
9,646 SF OF LANDSCAPE AREA
54,471 PROPERTY SIZE
9,646/54,471 = 18% LANDSCAPE AREA

REQUIRED:
SHADE TREE FOR EVERY 250 SF
1,621/250 = 7 SHADE TREES

THE WORK.

UPON COMPLETION OF THE WORK, THOROUGHLY
CLEAN ALL SYSTEMS AND TEST TO INSURE THAT THE
SYSTEMS PERFORM TO THEIR REQUIREMENTS.

MAINTENANCE

• THE PROPERTY OWNER WILL TAKE CARE OF THE LANDSCAPING.

EVERGREEN
TREE PLANTING DETAIL
NOT TO SCALE

SHRUB PLANTING DETAIL NOT TO SCALE

DECIDUOUS TREE PLANTING DETAIL NOT TO SCALE

STAKES TO EXTEND 18" BELOW STAKES TO EXTEND 18" BELOW TREE PIT IN UNDISTURBED GROUND

STAKE BELOW GRADE OIL MIX

PER SITE CONDITIONS -ROOTBALL, REMOVE TOP 1/3 OF BURLAP, PLASTIC COVERING, & NYLON CORDS

PER SITE CONDITIONS

- UNDISTURBED EARTH

-2X2X30" STAKES (3 PER TREE) ROOTBALL, REMOVE TOF 1/3 OF BURLAP, PLASTIC COVERING, & NYLON COF

UBLE STRAND #11 WIR

MINIMUM DEPTH OF TWO (2) INCHES AND A MAXIMUM DEPTH OF FOUR (4) INCHES ON ALL PLANTED ARES. ALL UNPAVED AREAS WILL BE COVERED WITH GRASS

UNLESS OTHERWISE SPECIFIED.
ALL HEDGES PLACED WITHIN TWENTY (20) FEET OF
THE FRONT PUBLIC SIDEWALK SHALL BE LIMITED TO
THREE (3) FEET IN HEIGHT ABOVE THE GRADE OF THE
PUBLIC SIDEWALK.
MITEROR LANDSCAPED AREAS WILL MAXIMZE
EFFECTIVE STORNWATER MANAGEMENT BY AS LISTED

IRRIGATION SYSTEMS SHALL BE CONTINUOUSLY
MAINTAINED IN WORKING ORDER AND SHALL BE
DESIGNED TO PREVENT OVERLAP OF WATER ZONES
AND TO PREVENT WATERING OF IMPERVIOUS AREAS.

LANDSCAPING NOTES

ALL PLANT SIZES SHALL CONFORM WITH DETROIT'S

ZONING ORDINANCE.

MULCH SHALL BE INSTALLED AND MAINTAINED AT A

WITHIN THE DETROIT ZONING ORDINANCE.

REQUIRED LANDSCAPED AREAS SHALL BE IRRIGATED AS NECESSARY TO MAINTAIN REQUIRED PLANT MATERIALS IN GOOD AND HEALTH CONDITION.

MATERIALS IN GOOD AND HEALTH CONDITION.

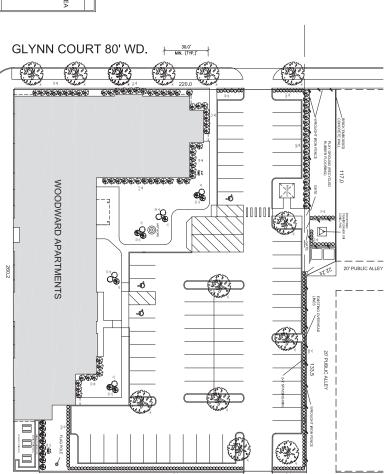
ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH A READILY AVIALIBLE WAITER SUPPLY. WAITER OUTLETS (HOSE BBBS) SHALL BE PROVIDED WITHIN ONE HUNDRED (10) FEET OF ALL REQUIRED PLANT MATERIALS UNLESS SUBSURFACE IRRIGATION SSYTEM

INTE HAHT SITE LIGHTING HAS NOT BEEN PROPERLY DESIGNED AT THIS TIME. A PHOTOMETRIC PLAN WILL BE COMPLETED FOR THE SITE PLAN REVIEW AFTER THE CITY'S APPROVAL, A LICENSE CMIL ENGINEER WILL PROPERLY DESIGN THE LIGHT FATURE LIGHT FATURE

LOCATIONS.

REQUIRED:
RESURED:
63 OFF STREET PARKING SPACE = 18 SF OF LANDSCAPED AREA
63x(8 = 1,134 SF
670 CF
PROVIDED:
1870 CF

INTERIOR LANDSCAPE





CONCEPT LANDSCAPE PLAN

WOODWARD AVENUE 100' WD.

					_	_
ų	ď	"C"	뼥	Ä,	SYM.	
7	183	16	78	13	QUANTITY	
WAYFARING TREE	AMERICAN ARBORVITAE	AZALEA	YEW	SHADEMASTER HONEYLOCUST (NO THORNS)	COMMON NAME	LANDSCAPING SCHEDULE
VIBURNUM LANTANA	TSUGA CANADENSIS	RHODODENDRON	TAXUS	GLEDITSIA TRICANTHOS INERMIS :SHADEMASTER"	BOTANICAL NAME	EDULE
5'-7'	4:-5:	ω	18" HEIGHT	CAL CAL	SIZE	

-STAYS OR GUYS TO BE SET 2/3 UP TREE
OR ABOVE FRIST BRANCH NO. 10-12
GUAGE GALVANIZED WIRE
GUY CABLE 3 PER TREE @ 80 ANGLE
WITURNBUCKLE

STAKE TREES UNDER 4" CALIPER GUY TREES 4" CALIPER AND OVER TREE BALL SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE ORIGINALLY PRUNE TO THIN AND SHAPE CANOPY SET STAKES VERTICAL AND EVENLY

CONTRACTOR TO VERIFY PERCOLATION OF PLANT

SHEET	DRAWN BY:
4	SCALE:
Š	1" = 20'-0"
	DATE: 07/28/20
	PROJECT NO:
	19-02854

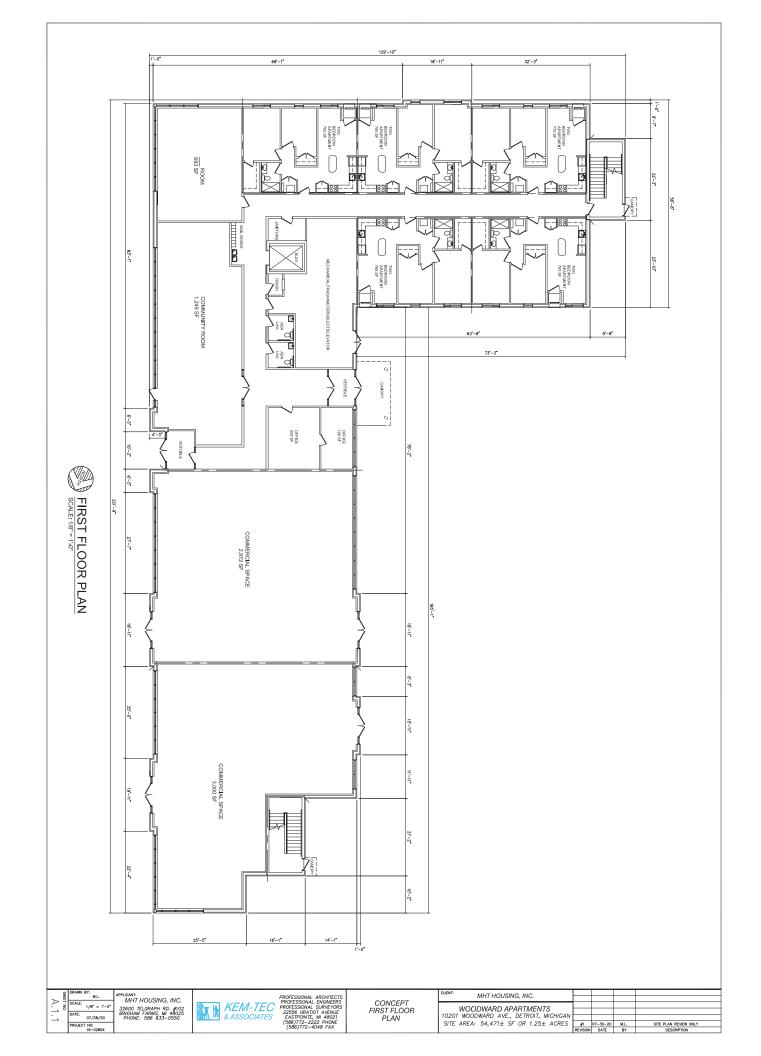
PPLICANT: MHT HOUSING, INC. 32600 TELGRAPH RD. #102 BINGHAM FARMS, MI 48025 PHONE: 586 833-0550

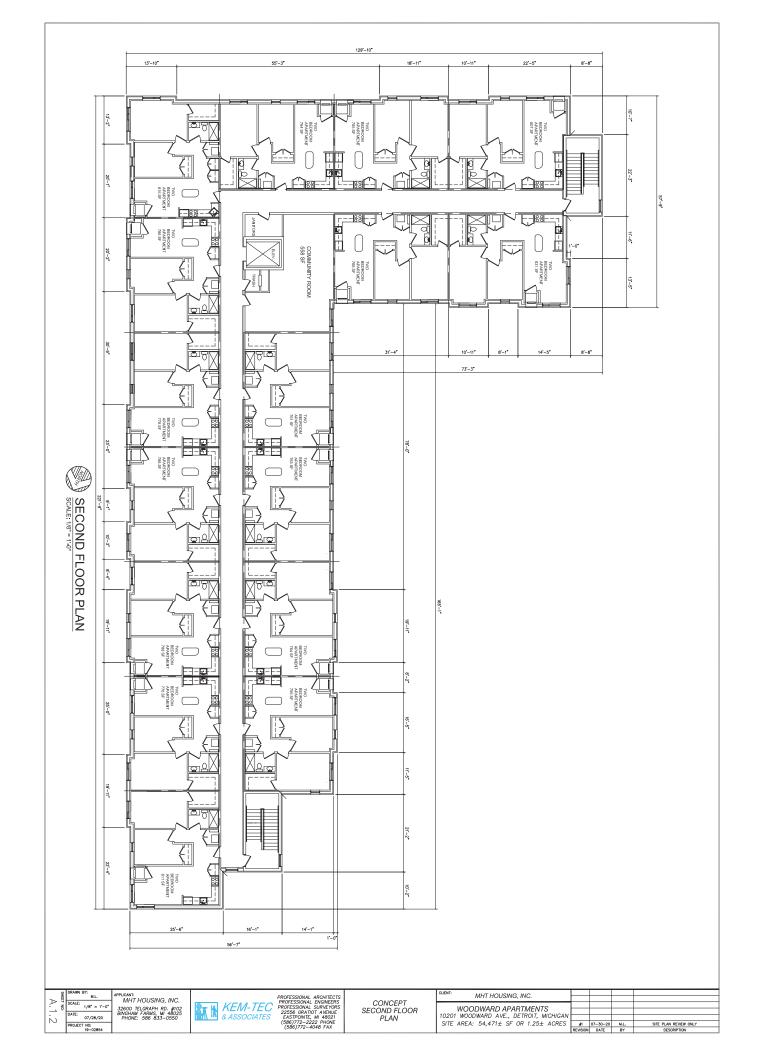


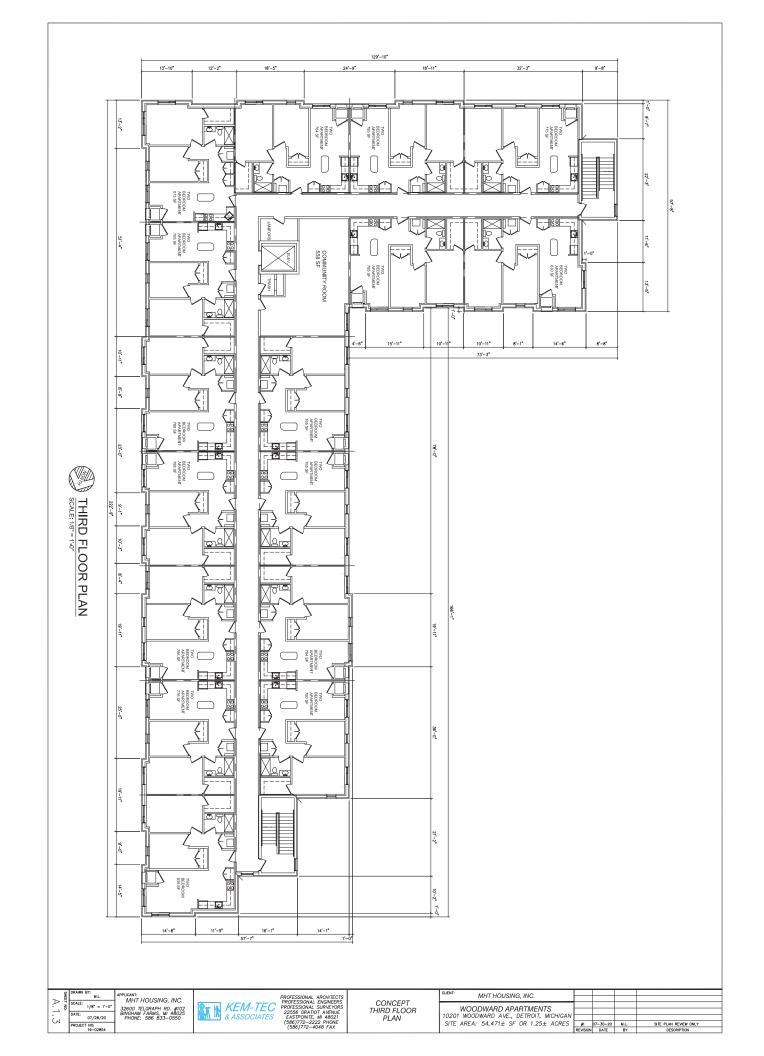
CONCEPT LANDSCAPE PLAN

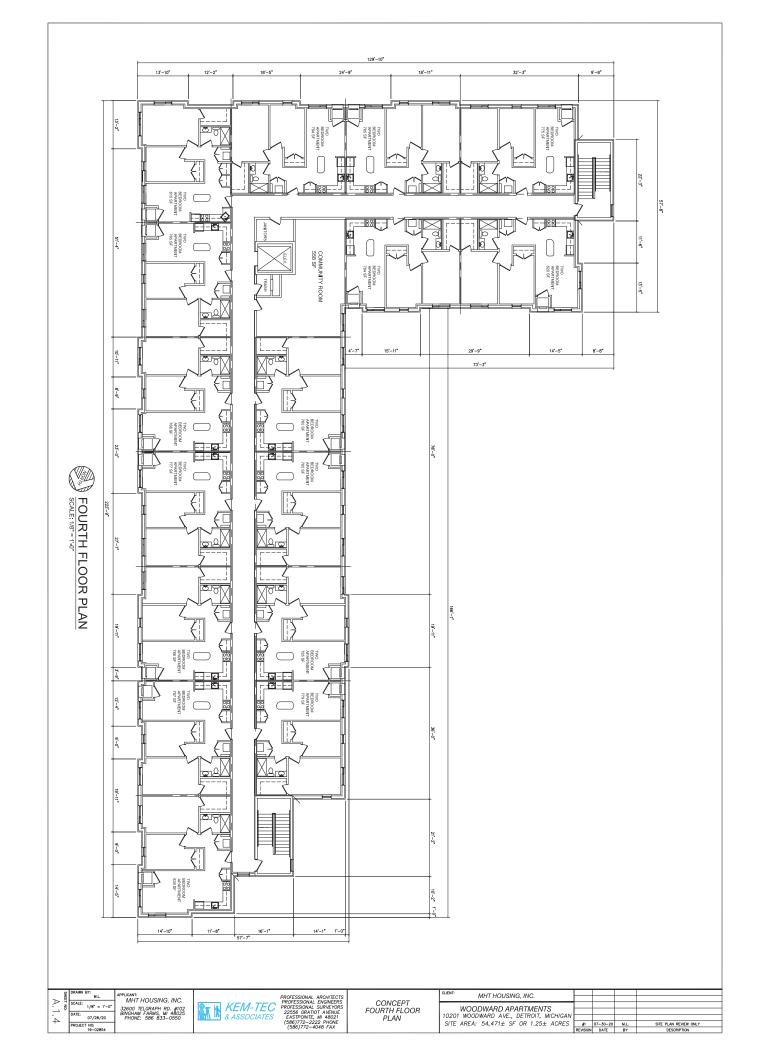
CALVERT AVE. 66' WD.

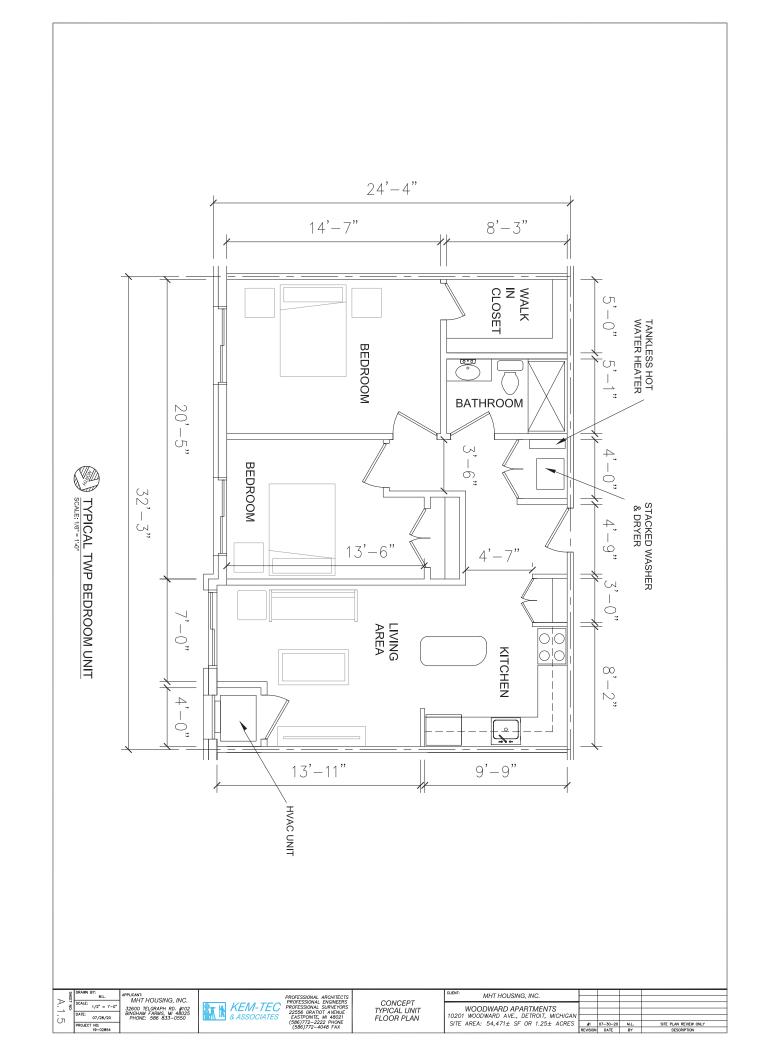
MHT HOUSING, INC. WOODWARD APARTMENTS 10201 WOODWARD AVE., DETROIT, MICHIGAN SITE AREA: 54,471± SF OR 1.25± ACRES

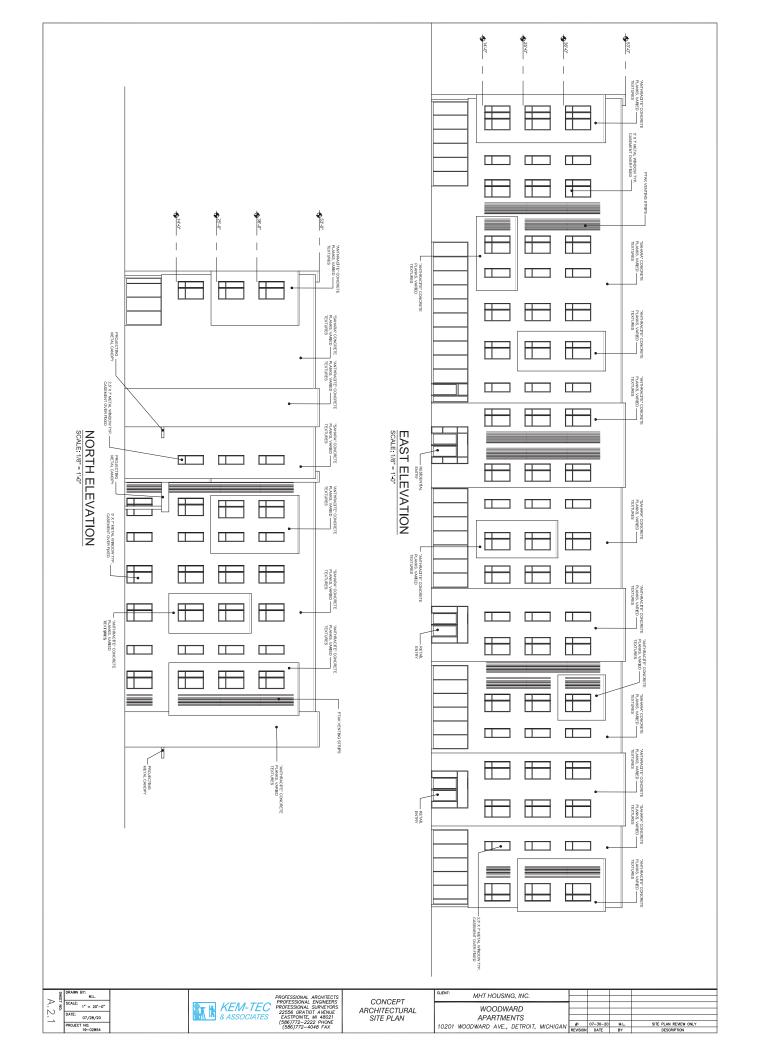


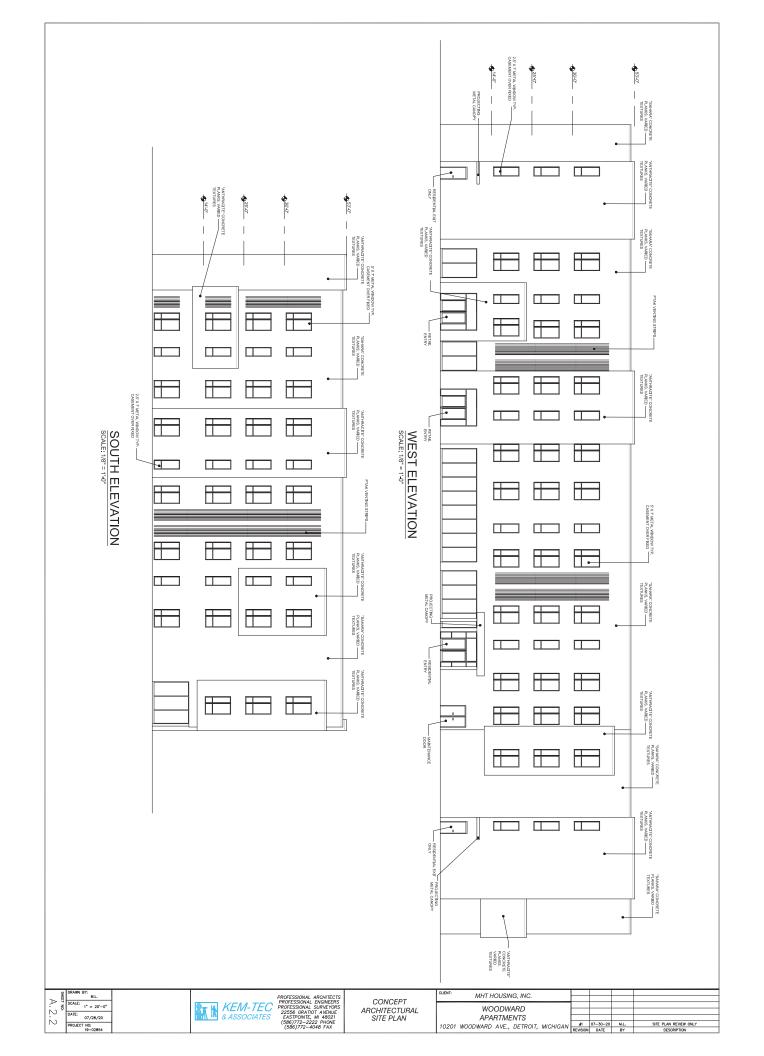








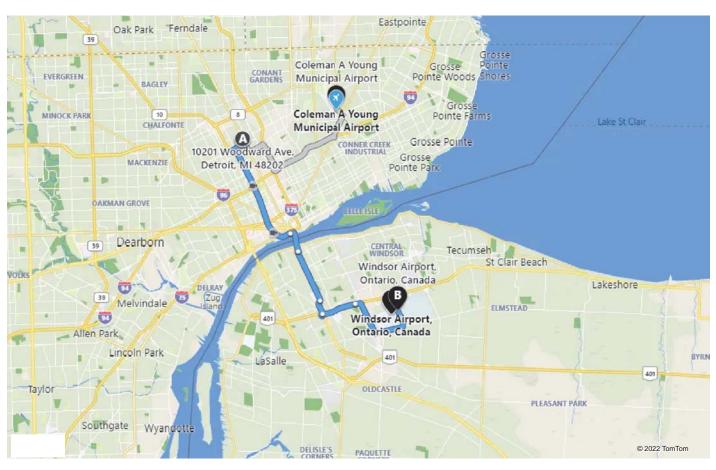




- A 10201 Woodward Ave, Detroit, MI 48202
- **B** Windsor Airport, Ontario, Canada

38 min , 16.2 miles Light traffic (Leave at 1:41 PM) Via M-10 S, Ouellette Ave · Toll on route

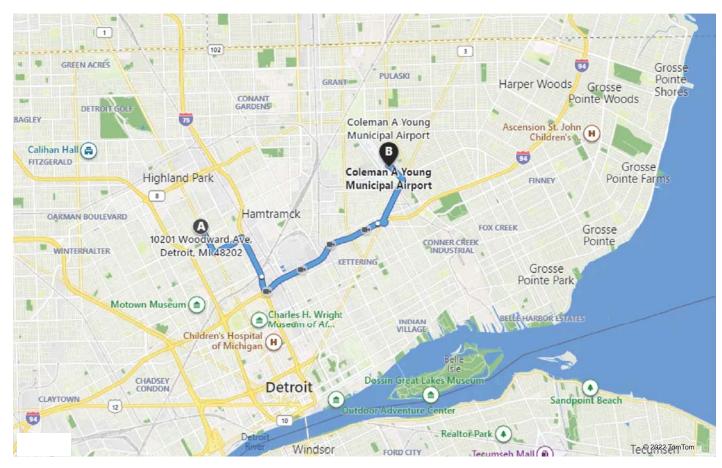




- A 10201 Woodward Ave, Detroit, MI 48202
- **B** Coleman A Young Municipal Airport, Detroit, MI

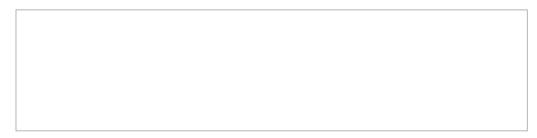
13 min , 7.6 miles Light traffic (Leave at 1:37 PM) Via I-75 S, I-94 E

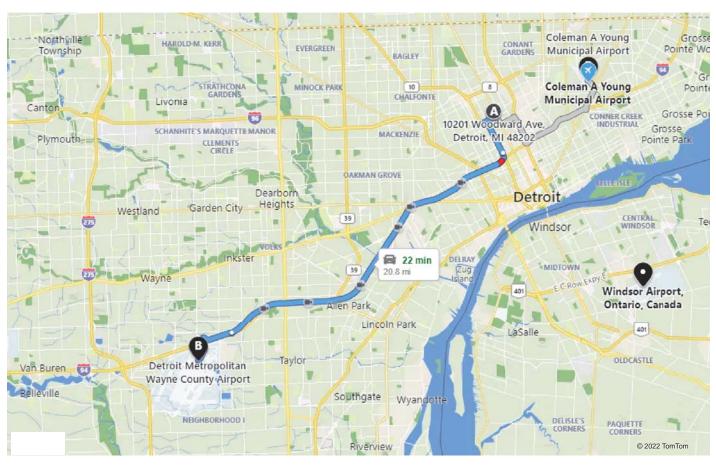




- A 10201 Woodward Ave, Detroit, MI 48202
- **B** Detroit Metropolitan Wayne County Airport, 11050 Rogell Dr Ste 602, Detroit, MI 48242

22 min , 20.8 miles Light traffic (Leave at 1:44 PM) Via I-94 W





U.S. Fish and Wildlife Service

Coastal Barrier Resources System Mapper Documentation



CBRS Units

Otherwise Protected Area

System Unit

CBRS Buffer Zone

-83.086395, 42.388865

0 65 130 260 390 ft

1:4,514

The pin location displayed on the map is a point selected by the user. Failure of the user to ensure that the pin location displayed on this map correctly corresponds with the user supplied address/location description below may result in an invalid federal flood insurance policy. The U.S. Fish and Wildlife Service (Service) has not validated the pin location with respect to the user supplied address/location description below. The Service recommends that all pin locations be verified by federal agencies prior to use of this map for the provision or denial of federal funding or financial assistance. Please note that a structure bisected by the Coastal Barrier Resources System (CBRS) boundary (i.e., both "partially in" and "partially out") is within the CBRS and therefore affected by CBRA's restrictions on federal flood insurance. A pin placed on a bisected structure must be placed on the portion of the structure within the unit (including any attached features such as a deck or stairs).

User Name: Woodward Apartments

User Supplied Address/Location Description: 10201 Woodward Avenue, Detroit, Michigan

Pin Location: Outside CBRS

Pin Flood Insurance Prohibition Date: N/A Pin System Unit Establishment Date: N/A

The user placed pin location is not within the CBRS. The official CBRS maps are accessible at https://www.fws.gov/library/collections/official-coastal-barrier-resources-system-maps.

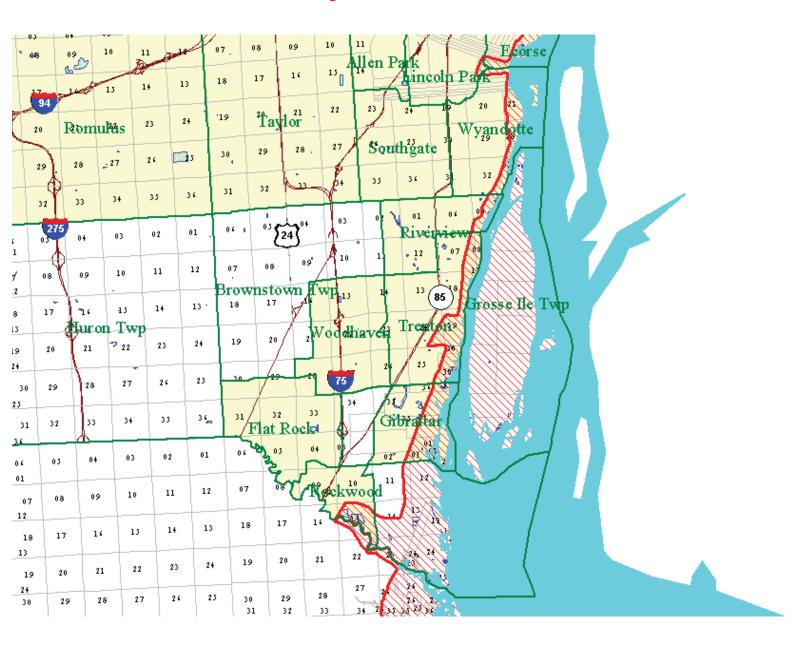
The CBRS information is derived directly from the CBRS web service provided by the Service. This map was exported on 4/11/2022 and does not reflect changes or amendments subsequent to this date. The CBRS boundaries on this map may become superseded by new boundaries over time.

This map image may be void if one or more of the following map elements do not appear: basemap imagery, CBRS unit labels, prohibition date labels, legend, scale bar, map creation date. For additional information about flood insurance and the CBRS, visit: https://www.fws.gov/node/263838.



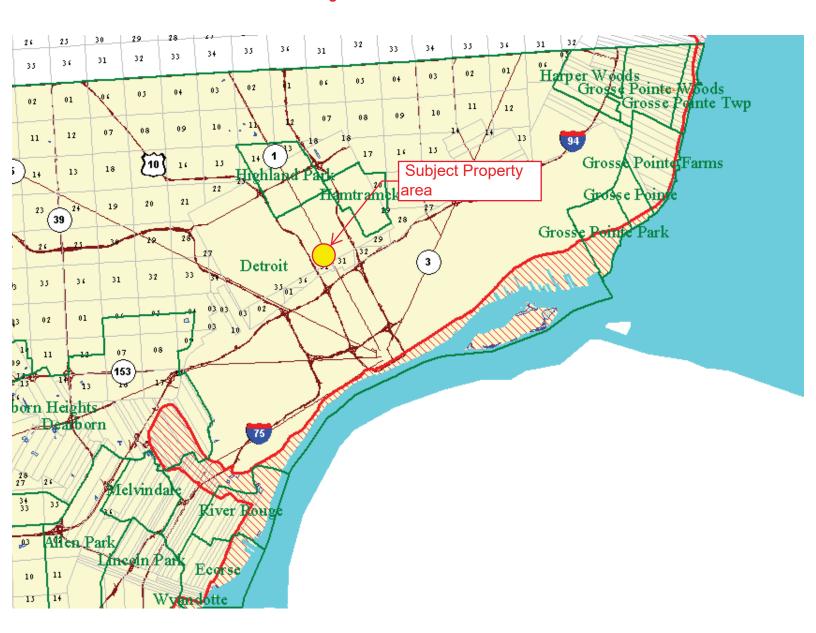
Wayne County Ecorse, Lincoln Park, Wyandotte and Riverview, T3S R11E Trenton, T4S R11E Rockwood, Gibraltar and Brownstown Township T5S R10E

The heavy red line is the **Coastal Zone Management Boundary**The red hatched area is the **Coastal Zone Management Area**.



Wayne County
Grosse Point Township, Grosse Point Woods, Grosse Point Farms
Grosse Point, Grosse Point Park, and Detroit, T1S R14E
Detroit, T1S R14E, T2S R13E, andT2S R12E
River Rouge, T2S R11E

The heavy red line is the **Coastal Zone Management Boundary**The red hatched area is the **Coastal Zone Management Area**.







STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

LANSING



November 2, 2022

T. Van Fox MHT Housing, Inc. 32500 Telegraph Road, Suite 100 Bingham Farms, Michigan 48025

Via Email Only

Dear T. Van Fox:

Subject: 10201, 10227 and 10236 Woodward Avenue, 39 Calvert Street and 30 Glynn

Court, Detroit, Michigan Project

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) has reviewed federal regulations related to general conformity of projects with state implementation plans (SIP) for air quality. In particular, 40 Code of Federal Regulations (CFR) Section 93.150 et seq, which states that any federally funded project in a nonattainment or maintenance area must conform to the Clean Air Act requirements, including the State's SIP if they may constitute a significant new source of air pollution.

On August 3, 2018, Wayne County was designated nonattainment (as part of the seven-county southeast Michigan nonattainment area) for the 2015 ozone standard; thus, general conformity must be evaluated when completing construction projects of a given size and scope within these areas. EGLE is currently working to complete the required SIP submittals for this area; therefore, an alternative evaluation was completed to assess conformity. Specifically, EGLE considered the following information from the United States Environmental Protection Agency's (USEPA) general conformity guidance, which states "historical analysis of similar actions can be used in cases where the proposed projects are similar in size and scope to previous projects."

EGLE has reviewed the Woodward Avenue, Calvert Street and Glynn Court Project proposed to be completed with federal grant monies, including the construction of a 62,497 square foot, four-story apartment building containing first floor retail spaces. The development will include 53 two-bedroom units; 26 units as 9 percent low-income housing tax credits (LIHTC) and 27 units as 4 percent LIHTC. A parking lot is proposed to the north and rear of the new building as well as new curb cuts from Glynn Court and Calvert Avenue, the two side streets. Surrounding land is a mix of apartments, single family residential, commercial, and community use areas. The project is designed to meet the income distribution and household size needs identified in a market study and provides desirable and affordable community retail space on Woodward Avenue and private-unit residential housing in the North End neighborhood of Detroit. The project site is located at 10201, 10227, and 10236 Woodward Avenue, 39 Calvert Street and 30 Glynn Court, Detroit, Michigan in Wayne County. The proposed project is anticipated to begin in January 2023 with a 15-month construction period.

T. Van Fox Page 2 November 2, 2022

In reviewing the "Air Quality and Greenhouse Gas Study: Uptown Orange Apartments in Orange, California," dated December 2012, prepared for KTGY Group, Inc. by UltraSystems Environmental, Inc., it was determined that emission levels for the project were below the de minimis levels for general conformity. The Uptown Orange Apartments project and related parking structure construction was estimated to take 33 months to complete, would encompass an area of 5.57 acres, and included two four-story residential units with a total of 334 apartments, and two parking structures with a total of 494 and 679 parking stalls, respectively.

The size, scope, and duration of the aforementioned project proposed for completion in Detroit, Michigan is much smaller in scale than the Uptown Orange Apartments project described above and should not exceed the de minimis levels included in the federal general conformity requirements. Therefore, it does not require a detailed conformity analysis.

If you have any questions regarding this letter, please contact me at 517-648-6314; BukowskiB@Michigan.gov; or EGLE, AQD, P.O. Box 30260, Lansing, Michigan 48909-7760.

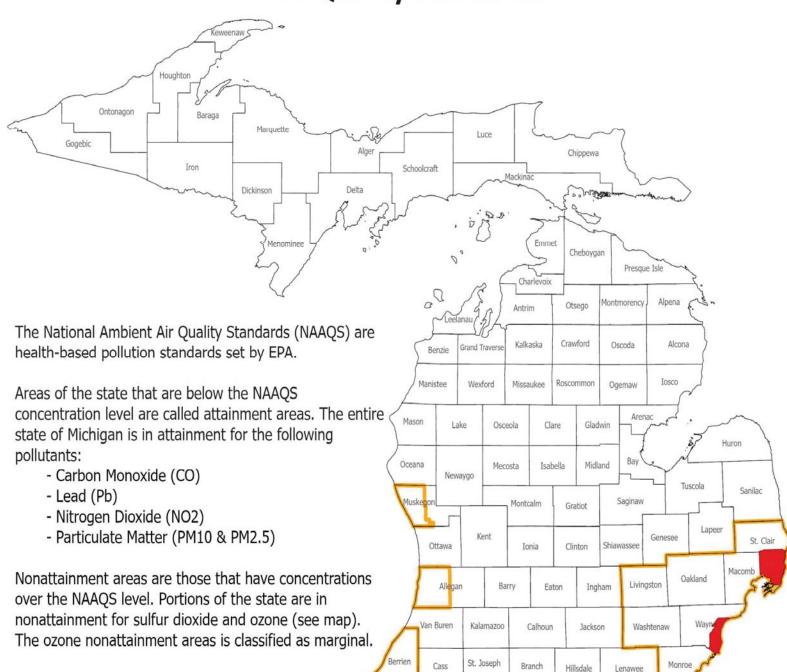
Sincerely,

Breanna Bukowski Environmental Quality Analyst Air Quality Division

Breams Boxwski

cc: Michael Leslie, USEPA Region 5
Michael Vollick, Michigan State Housing Development Authority
Carmen E. Reverón-Rondón, U.S. Dept of Housing and Urban Development
Donald Rencher, City of Detroit
Penny Dwoinen, City of Detroit
Christy Bakos, Grand Environmental, LLC

Attainment Status for the National Ambient Air Quality Standards



LEGEND

Sulfur Dioxide Nonattainment Area

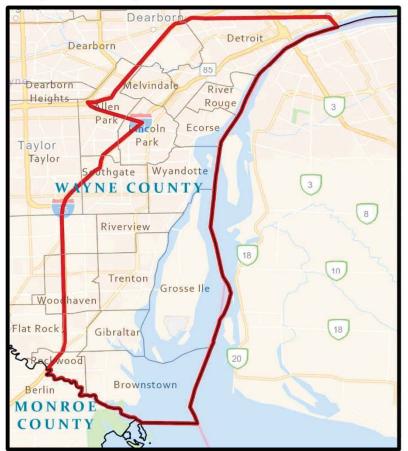
Ozone Nonattainment Area

See Page 2 for close-up maps of partial county nonattainment areas.

Close-Up Maps of Partial County Nonattainment Areas

Sulfur Dioxide Nonattainment Areas

Wayne County Area



St. Clair County Area



Ozone Nonattainment Areas

Allegan County Area

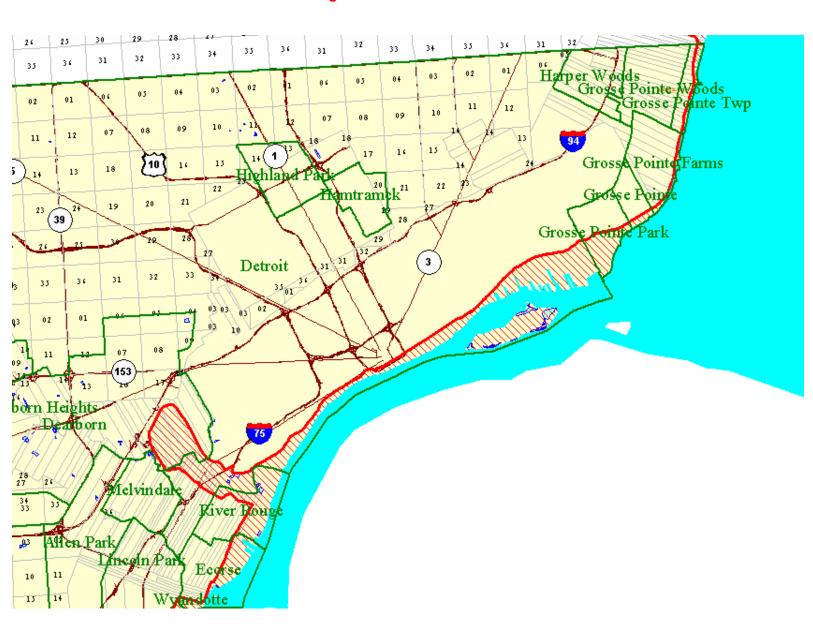


Muskegon County Area



Wayne County
Grosse Point Township, Grosse Point Woods, Grosse Point Farms
Grosse Point, Grosse Point Park, and Detroit, T1S R14E
Detroit, T1S R14E, T2S R13E, andT2S R12E
River Rouge, T2S R11E

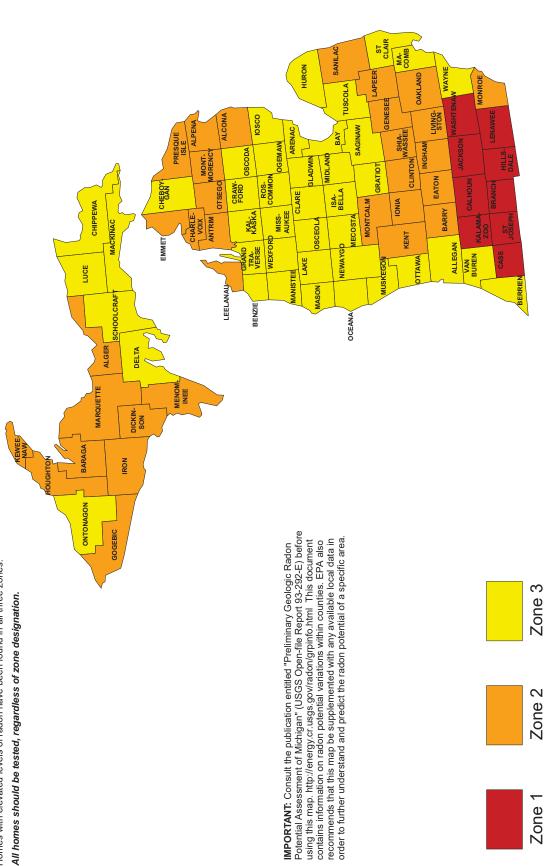
The heavy red line is the **Coastal Zone Management Boundary**The red hatched area is the **Coastal Zone Management Area**.



MICHIGAN - EPA Map of Radon Zones

The purpose of this map is to assist National, State and local organizations to target their resources and to implement radon-resistant building codes.

This map is not intended to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones.





DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY



DETROIT DISTRICT OFFICE

October 20, 2022

10201 Woodward Limited
Dividend Housing Association, LLC
Mr. T. Van Fox
32500 Telegraph Road, Suite 100
Bingham Farms, Michigan 48025

Dear Mr. Van Fox:

SUBJECT: Final Assessment Report Approved

Report Receipt Date: September 21, 2022

Former Dry Cleaner

30 Glynn Court, Detroit, Wayne County, Michigan

Facility ID: 00041320

Confirmed Release Number: C-0053-03

The Department of Environment, Great Lakes, and Energy (EGLE), Remediation and Redevelopment Division (RRD), has conducted an audit of the Final Assessment Report (FAR), dated September 16, 2022, submitted to address a release from an underground storage tank system at the subject site. This audit was performed pursuant to Section 21315 of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

Based on this audit, the FAR is approved.

If you have any questions regarding this matter or wish to discuss the findings of this audit, please contact Jeanne Schlaufman, Project Manager, Detroit District Office, RRD, at 586-753-3823, schlaufmanj1@michigan.gov; or RRD-Detroit District Office, 27700 Donald Court, Warren, Michigan 48092 or you may contact me.

Sincerely,

Paul Owens, District Supervisor Detroit District Office

RRD

586-235-6990

owensp@michigan.gov

cc: Steve Guyot, ESGPW, LLC
Beth Gotthelf, BUTZEL
Beth Vens, EGLE
Jeanne Schlaufman, EGLE



DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY



DETROIT DISTRICT OFFICE

October 20, 2022

10201 Woodward Limited
Dividend Housing Association, LLC
Mr. T. Van Fox
32500 Telegraph Road, Suite 100
Bingham Farms, Michigan 48025

Dear Mr. Van Fox:

SUBJECT: Final Assessment Report Approved

Report Receipt Date: September 21, 2022 Former Retail Development – Vacant Land

10227 Woodward Avenue, Detroit, Wayne County, Michigan

Facility ID: 00042118

Confirmed Release Number: C-0117-08

The Department of Environment, Great Lakes, and Energy (EGLE), Remediation and Redevelopment Division (RRD), has conducted an audit of the Final Assessment Report (FAR), dated September 16, 2022, submitted to address a release from an underground storage tank system at the subject site. This audit was performed pursuant to Section 21315 of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

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Sincerely,

Paul Owens, District Supervisor Detroit District Office

RRD

586-235-6990

owensp@michigan.gov

Haul J Owen

cc: Steve Guyot, ESGPW, LLC
Beth Gotthelf, BUTZEL
Beth Vens, EGLE
Jeanne Schlaufman, EGLE



DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY



DETROIT DISTRICT OFFICE

October 20, 2022

10201 Woodward Limited Dividend Housing Association, LLC Mr. T. Van Fox 32500 Telegraph Road, Suite 100 Bingham Farms, Michigan 48025

Dear Mr. Van Fox:

SUBJECT: Final Assessment Report Approved

Report Receipt Date: September 21, 2022 Former Woodward-Glynn Service Center

10201 Woodward Avenue, Detroit, Wayne County, Michigan

Facility ID: 50005901

Confirmed Release Number: C-0174-13

The Department of Environment, Great Lakes, and Energy (EGLE), Remediation and Redevelopment Division (RRD), has conducted an audit of the Final Assessment Report (FAR), dated September 16, 2022, submitted to address a release from an underground storage tank system at the subject site. This audit was performed pursuant to Section 21315 of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

Based on this audit, the FAR is approved.

If you have any questions regarding this matter or wish to discuss the findings of this audit, please contact Jeanne Schlaufman, Project Manager, Detroit District Office, RRD, at 586-753-3823, schlaufmanj1@michigan.gov; or RRD-Detroit District Office, 27700 Donald Court, Warren, Michigan 48092 or you may contact me.

Sincerely,

Paul Owens, District Supervisor Detroit District Office

RRD

586-235-6990

owensp@michigan.gov

cc: Steve Guyot, ESGPW, LLC
Beth Gotthelf, BUTZEL
Beth Vens, EGLE
Jeanne Schlaufman, EGLE



DEPARTMENT OF

ENVIRONMENT, GREAT LAKES, AND ENERGY

DETROIT DISTRICT OFFICE



October 31, 2022

ACKNOWLEDGEMENT OF RECEIPT OF A BASELINE ENVIRONMENTAL ASSESSMENT

BEA ID: 50005901-BEA-1

Legal Entity:

10201 Woodward Limited Dividend Housing Association, LLC Attention: Mr. T. Van Fox 32500 Telegraph Road, Suite 100 Bingham Farms Michigan 48025

Property Address:

10201, 10227 and 10235 Woodward Avenue, 30 Glynn Court and 39 Calvert Street Detroit, Michigan 48202

On October 18, 2022, the Michigan Department of Environment, Great Lakes, and Energy (EGLE) received a Baseline Environmental Assessment (BEA) dated October 7, 2022, for the above legal entity and property. This letter is your acknowledgement that EGLE has received and recorded the BEA. EGLE maintains an administrative record of each BEA as received.

This BEA was submitted pursuant to Section 20126(1)(c) of Part 201, Environmental Remediation and/or Section 21323a(1)(b) of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A BEA is submitted for the purpose of establishing an exemption to liability for a new owner or operator of property that has been demonstrated to be a facility or property as defined by Section 20101(1)(s) of Part 201, Environmental Remediation and/or property as defined by Section 21303(d) of Part 213, Leaking Underground Storage Tanks, of the NREPA. Pursuant to Sections 20126(1)(c) and 21323a(1)(b), the conditions of this exemption require the legal entity to disclose the BEA to a subsequent purchaser or transferee of the property.

The BEA is only for the legal entity and property, or properties identified on the BEA Submittal Form and in the BEA that have been demonstrated to be a facility. Each new legal entity that becomes the owner or operator of this facility must submit their own BEA.

EGLE is not making any findings about whether the submitter is liable or is eligible to submit. The submitted BEA does not alter liability with regard to a subsequent release, threat of release, or exacerbation of existing conditions that is the responsibility of the legal entity submitting the BEA.

EGLE does not review BEAs to determine the adequacy of the submittal. The 2020 Volatilization to Indoor Air Pathway (VIAP) Screening Levels (SLs) may be proposed as

site-specific criteria when used to determine that a property is or contains a facility or site. ELGE's approval of these numeric site-specific criteria is required. Since the BEA has not been reviewed, if the BEA relied upon the 2020 VIAP SLs then their use within the BEA is approved only for the purpose of confirming the status of the property as a facility under Part 201 or a site under Part 213.

The legal entity, as the owner and/or operator of a facility or property, may have Due Care responsibilities under Section 20107a of Part 201, Environmental Remediation and/or Section 21304c of Part 213, Leaking Underground Storage Tanks, of the NREPA.

The legal entity may also have responsibility under applicable state and federal laws, including, but not limited to, Part 201, Environmental Remediation; Part 111, Hazardous Waste Management; Part 211, Underground Storage Tank Regulations; Part 213, Leaking Underground Storage Tanks; Part 615, Supervisor of Wells, of the NREPA; and the Michigan Fire Prevention Code, 1941 PA 207, as amended. Please review the enclosed brochure on "due care." An owner or operator of contaminated property has an obligation to assure the property is safe for the intended use and is protective of the public health and safety.

Pursuant to Section 20112a(6) of Part 201, Environmental Remediation, the property(s) identified in the BEA will be placed on the inventory of facilities, which is updated daily and posted on EGLEs website: https://secure1.state.mi.us/FacilitiesInventoryQueries.

Authorized signature:

Paul Owens, District Supervisor

Detroit District Office

Remediation and Redevelopment Division

27700 Donald Court

Warren, Michigan 48092

586-235-6990

OwensP@Michigan.gov

Enclosures

cc: Mr. Steven K. Guyot, ESGPW, LLC



STATE OF MICHIGAN DEPARTMENT OF

ENVIRONMENT, GREAT LAKES, AND ENERGY

DETROIT DISTRICT OFFICE



October 31, 2022

ACKNOWLEDGEMENT OF RECEIPT OF A BASELINE ENVIRONMENTAL ASSESSMENT

BEA ID: 50005901-BEA-2

Legal Entity:

10201 Woodward 4% Limited Dividend Housing Association, LLC Attention: Mr. T. Van Fox 32500 Telegraph Road, Suite 100 Bingham Farms Michigan 48025

Property Address:

10201, 10227 and 10235 Woodward Avenue, 30 Glynn Court and 39 Calvert Street Detroit, Michigan 48202

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10201 Woodward 4% Limited Dividend Housing Association, LLC Page 2 October 31, 2022

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27700 Donald Court

Warren, Michigan 48092

586-235-6990

OwensP@Michigan.gov

Enclosures

cc: Mr. Steven K. Guyot, ESGPW, LLC



DEPARTMENT OF

ENVIRONMENT, GREAT LAKES, AND ENERGY

DETROIT DISTRICT OFFICE



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October 31, 2022

ACKNOWLEDGEMENT OF RECEIPT OF A BASELINE ENVIRONMENTAL ASSESSMENT

BEA ID: 50005901-BEA-3

Legal Entity:

10201 Woodward MM, LLC Attention: Mr. T. Van Fox 32500 Telegraph Road, Suite 100 Bingham Farms Michigan 48025

Property Address:

10201, 10227 and 10235 Woodward Avenue, 30 Glynn Court and 39 Calvert Street Detroit, Michigan 48202

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10201 Woodward MM, LLC Page 2 October 31, 2022

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Enclosures

cc: Mr. Steven K. Guyot, ESGPW, LLC



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Michigan Ecological Services Field Office 2651 Coolidge Road Suite 101 East Lansing, MI 48823-6360 Phone: (517) 351-2555 Fax: (517) 351-1443

http://www.fws.gov/midwest/EastLansing/

In Reply Refer To: April 11, 2022

Project Code: 2022-0030329

Project Name: Woodward Avenue Apartments

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

Official Species List

The attached species list identifies any Federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Under 50 CFR 402.12(e) (the regulations that implement section 7 of the Endangered Species Act), the accuracy of this species list should be verified after 90 days. You may verify the list by visiting the IPaC website (https://ipac.ecosphere.fws.gov/) at regular intervals during project planning and implementation. To update an Official Species List in IPaC: from the My Projects page, find the project, expand the row, and click Project Home. In the What's Next box on the Project Home page, there is a Request Updated List button to update your species list. Be sure to select an "official" species list for all projects.

Consultation requirements and next steps

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize Federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-Federal representative) must consult with the Fish and Wildlife Service if they determine their project may affect listed species or critical habitat.

There are two approaches to evaluating the effects of a project on listed species.

Approach 1. Use the All-species Michigan determination key in IPaC. This tool can assist you in

making determinations for listed species for some projects. In many cases, the determination key will provide an automated concurrence that completes all or significant parts of the consultation process. Therefore, we strongly recommend screening your project with the **All-Species**Michigan Determination Key (Dkey). For additional information on using IPaC and available Determination Keys, visit https://www.fws.gov/midwest/EastLansing/te/pdf/

MIFO IPAC instructions v1 Jan2021.pdf. Please carefully review your Dkey output letter to determine whether additional steps are needed to complete the consultation process.

Approach 2. Evaluate the effects to listed species on your own without utilizing a determination key. Once you obtain your official species list, you are not required to continue in IPaC, although in most cases using a determination key should expedite your review. If the project is a Federal action, you should review our section 7 step-by-step instructions before making your determinations: http://www.fws.gov/midwest/endangered/section7/s7process/index.html. If you evaluate the details of your project and conclude "no effect," document your findings, and your listed species review is complete; you do not need our concurrence on "no effect" determinations. If you cannot conclude "no effect," you should coordinate/consult with the Michigan Ecological Services Field Office. The preferred method for submitting your project description and effects determination (if concurrence is needed) is electronically to EastLansing@fws.gov. Please include a copy of this official species list with your request.

For all **wind energy projects** and **projects that include installing communications towers that use guy wires**, please contact this field office directly for assistance, even if no Federally listed plants, animals or critical habitat are present within your proposed project area or may be affected by your proposed project.

Migratory Birds

Please see the "Migratory Birds" section below for important information regarding incorporating migratory birds into your project planning. Our Migratory Bird Program has developed recommendations, best practices, and other tools to help project proponents voluntarily reduce impacts to birds and their habitats. The Bald and Golden Eagle Protection Act prohibits the take and disturbance of eagles without a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at https://www.fws.gov/midwest/eagle/permits/index.html to help you avoid impacting eagles or determine if a permit may be necessary.

Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/administrative-orders/executive-orders.php.

We appreciate your consideration of threatened and endangered species during your project planning. Please include a copy of this letter with any request for consultation or correspondence 04/11/2022

about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

04/11/2022

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Michigan Ecological Services Field Office 2651 Coolidge Road Suite 101 East Lansing, MI 48823-6360 (517) 351-2555

Project Summary

Project Code: 2022-0030329

Event Code: None

Project Name: Woodward Avenue Apartments

Project Type: Mixed-Use Construction

Project Description: Develop a four-story affordable apartment building consisting of

residential apartments and approximately 6,000 square feet of commercial space. A 67-space parking lot with landscaping is proposed to teh west and north of the building. A greenspace is proposed on the west edge of

the parking lot.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.388867149999996,-83.08632739872394,14z



Counties: Wayne County, Michigan

Endangered Species Act Species

There is a total of 8 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 2 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an
office of the National Oceanic and Atmospheric Administration within the Department of
Commerce.

Mammals

NAME STATUS

Indiana Bat Myotis sodalis

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/5949

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/HD6UAMCEHFCLRFG2LNJ27B2BSQ/documents/generated/5663.pdf

Northern Long-eared Bat Myotis septentrionalis

Threatened

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/HD6UAMCEHFCLRFG2LNJ27B2BSQ/documents/generated/5664.pdf

Birds

NAME STATUS

Piping Plover Charadrius melodus

Endangered

 $Population: [Great\ Lakes\ watershed\ DPS]\ -\ Great\ Lakes,\ watershed\ in\ States\ of\ IL,\ IN,\ MI,\ MN,$

NY, OH, PA, and WI and Canada (Ont.)

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/6039

Red Knot Calidris canutus rufa

Threatened

There is **proposed** critical habitat for this species. The location of the critical habitat is not available.

This species only needs to be considered under the following conditions:

Only actions that occur along coastal areas during the Red Knot migratory window of MAY

1 - SEPTEMBER 30.

Species profile: https://ecos.fws.gov/ecp/species/1864

Reptiles

NAME STATUS

Eastern Massasauga (=rattlesnake) Sistrurus catenatus

Threatened

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

• For all Projects: Project is within EMR Range

Species profile: https://ecos.fws.gov/ecp/species/2202

General project design guidelines:

 $\underline{https://ipac.ecosphere.fws.gov/project/HD6UAMCEHFCLRFG2LNJ27B2BSQ/documents/generated/5280.pdf}$

Clams

NAME STATUS

Northern Riffleshell *Epioblasma torulosa rangiana*

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/527

Insects

NAME STATUS

Monarch Butterfly Danaus plexippus

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

Flowering Plants

NAME STATUS

Eastern Prairie Fringed Orchid Platanthera leucophaea

Threatened

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/601

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

04/11/2022

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the <u>USFWS</u> <u>Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Canada Warbler <i>Cardellina canadensis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the	Breeds May 10 to Sep 10
continental USA and Alaska.	

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the

FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

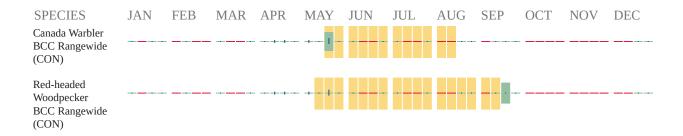
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides

birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.</u>

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

04/11/2022

Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

04/11/2022

IPaC User Contact Information

Agency: GRand Environmental, LLC

Name: Christy Bakos

Address: 3315 3 Mile Road NW

City: Walker State: MI Zip: 49534

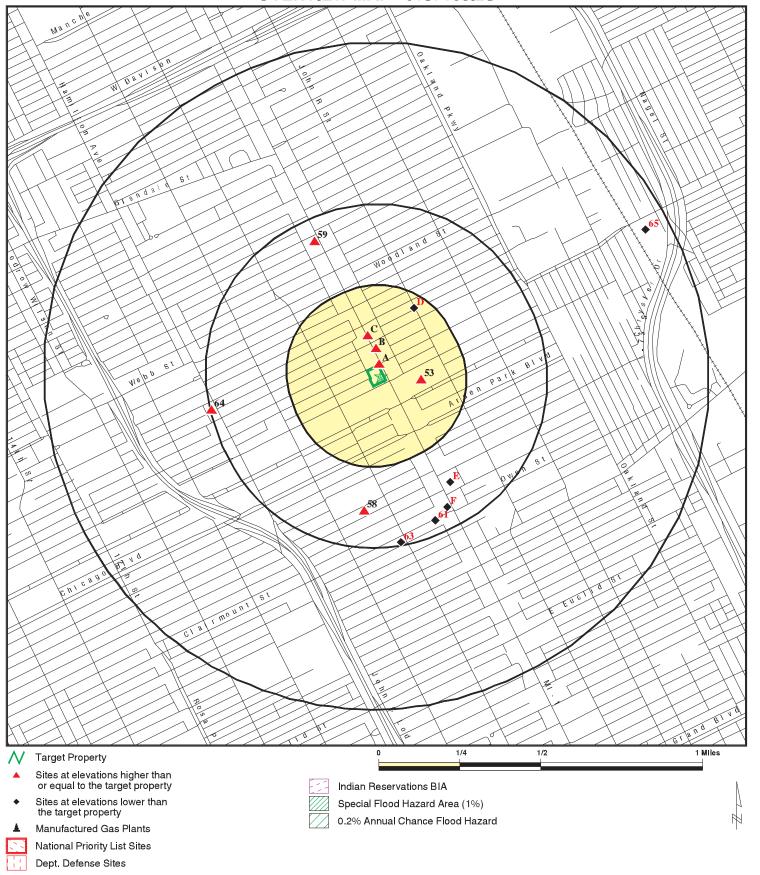
Email christy@grandenv.com

Phone: 6167323600

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 AST INDIAN UST	0.250 <mark>0.250</mark> 0.250	1	5 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	6 0 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		1	0	0	NR	NR	1
ADDITIONAL ENVIRONMEN	TAL RECORDS	:						
ADDITIONAL ENVIRONMEN	IAL KLOOKDO	<u>-</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY HIST LF INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500 0.500		0 0 0 0 0	0 0 0 0 0	1 0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	1 0 0 0 0 0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL INVENTORY PART 201 CDL DEL PART 201 US CDL PFAS	0.001 0.500 1.000 0.001 1.000 0.001 0.500	4	0 9 0 0 0	NR 0 0 NR 0 NR	NR 5 0 NR 0 NR	NR NR 1 NR 0 NR NR	NR NR NR NR NR NR	0 18 1 0 0 0
Local Land Records								
LIENS LIENS 2	0.001 0.001		0 0	NR NR	NR NR	NR NR	NR NR	0 0
Records of Emergency Release Reports								
HMIRS SPILLS	0.001 0.001		0 0	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Records								
RCRA NonGen / NLR FUDS DOD	0.250 1.000 1.000	1	2 0 0	0 0 0	NR 0 0	NR 0 0	NR NR NR	3 0 0

OVERVIEW MAP - 6137165.2S



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: Five Parcel Woodward Site ADDRESS: 10201 Woodward Avenue

Detroit MI 48202 LAT/LONG: 42.388727 / 83.086129 CLIENT: ESGPW LLC CONTACT: Steve Guyot INQUIRY #: 6137165.2s

DATE: July 29, 2020 10:07 am

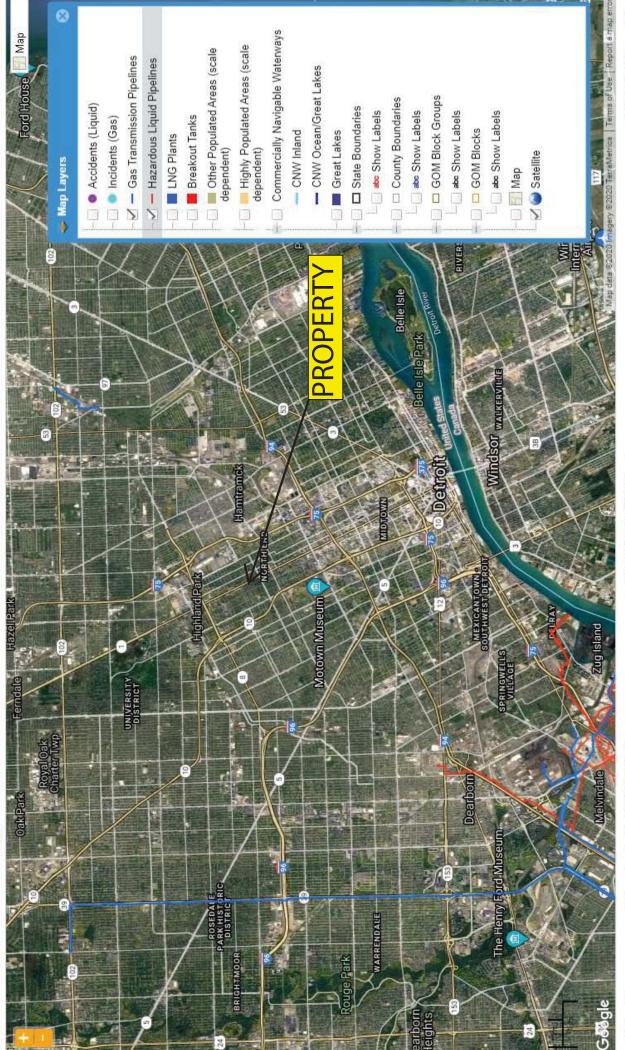
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A Query Tools *

Map Layers

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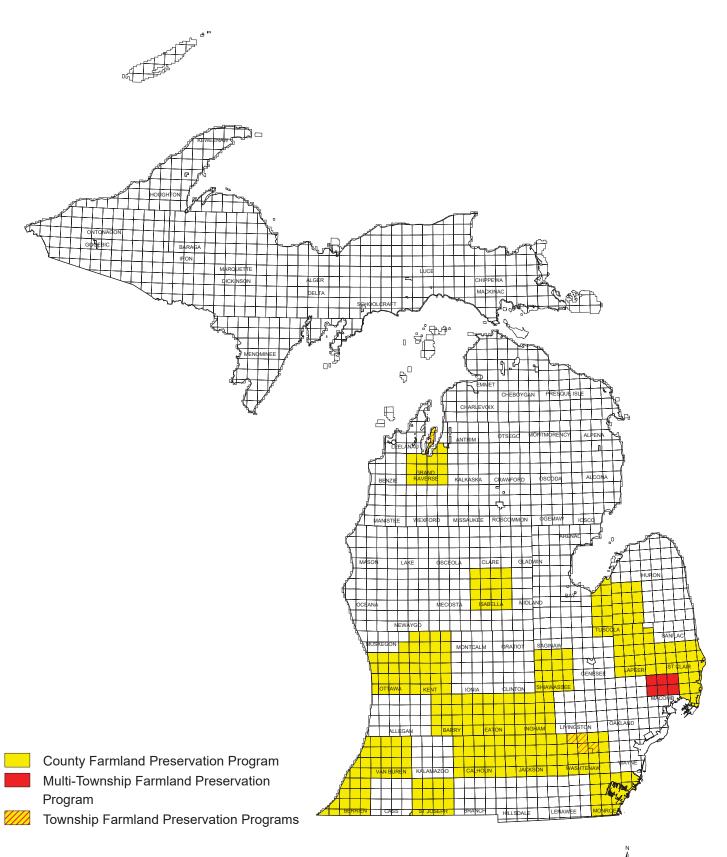
Enter search term (min 4 chars)



Loading...
Zoom Level: 12 of 19 (1:108,336)

42,460977, -82,933406

Local Farmland Preservation Programs Qualified under The Michigan Agricultural Preservation Fund





APPLICATION FOR SHPO SECTION 106 CONSULTATION

Submit one application for each project for which comment is requested. Consult the *Instructions for the Application for SHPO Section 106 Consultation Form* when completing this application.

Mail form, all attachments, and check list to: Michigan State Historic Preservation Office, 300 North Washington Square, Lansing, MI 48913

I.	GENERAL INFORMATION	⊠ New submittal
		☐ More information relating to SHPO ER# SHPO Project #
		☐ Submitted under a Programmatic Agreement (PA)
		PA Name/Date: PA name/date, if applicable

a. Project Name: Woodward Garden Apartments

b. Project Municipality: Detroit

c. Project Address (if applicable): 10201 Woodward Avenue

d. County: Wayne

II. FEDERAL AGENCY INVOLVEMENT AND RESPONSE CONTACT INFORMATION

a. Federal Agency: Department of Housing and Urban Redevelopment

Contact Name: Mary Wiedel

Contact Address: 477 Michigan Avenue City: Detroit State: MI Zip: 48226

Email: mary.t.weidel@hud.gov

Specify the federal agency involvement in the project: Federal funding is requested

b. If HUD is the Federal Agency: 24 CFR Part 50 □ or Part 58 ⊠

Responsible Entity (RE): Michigan State Housing Development Authority

Contact Name: Dan Lince

Contact Address: 735 E. Michigan Avenue City: Lansing State: MI Zip: 48912

RE Email: linced@michigan.gov **Phone:** 517-335-8108

c. State Agency Contact (if applicable): MSHDA

Contact Name: Dan Lince

Contact Address: 735 Michigan Avenue City: Lansing Zip: 48912

Email: linced@michigan.gov Phone: 517-335-8108

d. Applicant (if different than federal agency): 10201 Woodward Limited Dividend Housing Association,

LLC

Contact Name: Timothy Van Fox

Contact Address: 32600 Telegraph Road, Suite 102 City: Bingham Farms State: MI Zip: 48025

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REV 12.18.2020



APPLICATION FOR SHPO SECTION 106 CONSULTATION

Email: vanfox@mhthousing.net Phone: 248-833-0550

e. Consulting Firm (if applicable): ESGPW, LLC

Contact Name: Steve Guyot

Contact Address: 18640 Mack Avenue, No. 1029 City: Grosse Pointe Farms State: MI Zip:48236

Email: skguyot@gmail.com Phone: 734-649-9681

III. PROJECT INFORMATION

a. Project Location and Area of Potential Effect (APE)

i. **Maps.** Please indicate all maps that will be submitted as attachments to this form.

Street map, clearly displaying the direct and indirect APE boundaries

☐Site map

⊠USGS topographic map Name(s) of topo map(s): Highland Park Quadrangle (also Detroit Quad for one mile research radius)

⊠Aerial map

⊠Map of photographs

 \square Other: Identify type(s) of map(s)

ii. Site Photographs

iii. Describe the APE:

Indirect APE – a half block radius around the project site. Direct APE – the project site.

iv. Describe the steps taken to define the boundaries of the APE:

Indirect APE – Construction of a four-story tall apartment building and parking lot on a vacant site on Woodward Avenue has the potential to affect views of the immediately surrounding properties and a slight increase in noise, vehicle and pedestrian traffic for the half-block area surrounding the urban site. Direct APE – effect is limited to the project site.

b. Project Work Description

Describe all work to be undertaken as part of the project:

Construct a 62,497 square foot, four-story tall apartment building containing first floor retail spaces at the southeast corner of Woodward Avenue and Glynn Court in the north end of Detroit. A parking lot is proposed to the north and rear of the new building. New curb cuts are proposed from the two side streets, Glynn Court and Calvert Avenue.

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REV 12.18.2020



IV. IDENTIFICATION OF HISTORIC PROPERTIES

a. Scope	of Eff	ort App	lied
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i. List sources consulted for information on historic properties in the project area (including but not limited to SHPO office and/or other locations of inventory data).

SHPO records; M-1 Rail Section 106 report; City of Detroit Local Historic Districts; Reconnaissance Level Survey Report – Residential Neighborhoods in Detroit; National Register of Historic Places; State Register of Historic Sites; historic atlases, historic aerial photographs, and Sanborn Fire Insurance maps

- ii. Provide documentation of previously identified sites as attachments.
- iii. **Provide a map** showing the relationship between the previously identified properties and sites, your project footprint and project APE.
- iv. Have you reviewed existing site information at the SHPO: ⊠Yes □ No
- v. Have you reviewed information from non-SHPO sources: oxtimes Yes oxtimes No

b. Identification Results

i. Above-ground Properties

- A. Attach the appropriate Michigan SHPO Architectural Identification Form for each resource or site 50 years of age or older in the APE. Refer to the *Instructions for the Application for SHPO Section 106 Consultation Form* for guidance on this.
- B. Provide the name and qualifications of the person who made recommendations of eligibility for the above-ground identification forms.

Name Kristine Kidorf	Agency/Consulting Firm: Kidorf Preservation Consulting	
Is the individual a 36CFF	R Part 61 Qualified Historian or Architectural Historian ⊠ Yes	□ No
Are their credent	tials currently on file with the SHPO? $oxtimes$ Yes \odots No	
If NO attach this individu	al's qualifications form and resume.	

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ii.	Archaeology (complete this section if the project involves temporary or permanent ground disturbance)
	Submit the following information using attachments, as necessary.

- A. Attach Archaeological Sensitivity Map.
- B. Summary of previously reported archaeological sites and surveys:

The files of the Michigan SHPO in Lansing include no previously recorded sites and no previously conducted surveys within the proposed project property.

No sites have been recorded within one mile of the proposed project.

Six "surveys" have been previously conducted within one mile of the proposed project. Table 1 summarizes their citation data. All of the investigations comprise phase I land use histories with limited field inspection. Three of the land use studies recommended no further mitigative concern due to the level of 20th century impacts (disturbance) on historic archaeological deposits. Also, prehistoric archaeological sensitivities are generally low in these areas (Branstner 1985a, 1985b; Causier 1985). Two of the land use histories (Branstner 1987; Klinge 2010) recommended phase I or II data recovery. Branstner and Barton (1981) report for their study area that archaeological sensitivity for historic sites is high between Woodward and Cass, and moderate in most of the remaining lots. The high potential area may contain 1830s to 1860s era sites. However, the location is south of the project area.

C.	Town/Range/Section or Private Claim numbers: in the part of Detroit with no section numbers,
	within the former Greenfield Township; on the east border of T1S, R11E

D.	Width(s), length(s), and depth(s) of proposed ground disturbance(s): The proposed project
	parcel measures 260.2 ft north-south by 200 ft east west along Calvert Avenue and 220 ft east-west
	along Glynn Court. All of this will be developed (apartments, parking lot, landscaping, etc.) Depths
	of construction disturbance are not provided in the specifications however no basement is proposed
	The first floor will be constructed on/above the ground.

	The first floor will be constitueted on above the ground.	
E.	Will work potentially impact previously undisturbed soils? \square Yes	⊠ No
	If YES, summarize new ground disturbance:	
	Summary of new ground disturbance	

F. Summarize past and present land use:

Urban development. The 1904 and 1915 atlases indicate that "Section 36", part of the Ten Thousand Acre Tract, in which the project lies, had been included into Detroit city limits while still be listed as part of Greenfield Township (Sauer 1915:2; 1904:7).

G.	Potential to	adversely affect signi	ficant archaeological resources:
	⊠ Low	☐ Moderate	☐ High

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	For moderate and high potential, is fieldwork recommended? ☐ Yes ☐ No		
	Briefly justify the recommendation:		
		Justification for recommendation of fieldwork	
	H.	Has fieldwork already been conducted? ☐ Yes ⊠ No	
	I.	 If YES: □ Previously surveyed; refer to A. and B. above. □ Newly surveyed; attach report copies and provide full report reference here: Full report reference Provide the name and qualifications of the person who provided the information for the Archaeology section: Name: Misty Jackson Agency/Firm: Arbre Croche Cultural Resources LLC Is the person a 36CFR Part 61 Qualified Archaeologist? ☑ Yes ☐ No Are their credentials currently on file with the SHPO? ☑ Yes ☐ No If NO, attach this individual's qualifications form and resume. 	
	This an	Archaeological site locations are legally protected. plication may not be made public without first redacting sensitive archaeological information.	
V. II		CATION OF CONSULTING PARTIES	
a.		e a list of all consulting parties, including Native American tribes, local governments, applicants for assistance/permits/licenses, parties with a demonstrated interest in the undertaking, and public nt:	
	None known		
b.	Provide	e a summary of consultation with consultation parties:	
	None		
C.	Provide	summaries of public comment and the method by which that comment was sought:	
	None		

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VI. DETERMINATION OF EFFECT

Guidance for applying the Criteria of Adverse Effect can be found in the Instructions for the Application for SHPO Section 106 Consultation Form.

a. Basis for determination of effect:

Indirect APE – Construction of a new apartment building on a vacant site in an urban neighborhood setting containing a mix of residential, commercial, and religious buildings of various ages will not adversely affect the views, setting, or characteristics of the surrounding historic properties. The scale of the proposed building is compatible with the nearby historic properties.

Direct APE - ACCR recommends that a determination of 'No historic properties will be affected' be accepted for the Section 106 review. The east side of the subject property along Woodward Avenue was the location of significant nineteenth century resources on the former Pontiac Road. These included the Greenfield House, a probable blacksmith shop, and residence, which stood as late as 1876 and possibly later, as indicate on the 1876 county atlas. Construction and later demolition of the businesses (likely with residences above them) on Woodward Avenue that are recorded by the earliest available Sanborn map dating to 1915, along with the former ice plant and bowling alley/motion pictures house behind them, would have destroyed evidence of the previous nineteenth century structures.

REV 12.18.2020

Title: _____

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ATTACHMENT CHECKLIST

Identify any materials submitted as attachments to the form:
☐ Additional federal, state, local government, applicant, consultant contacts
⊠ Maps of project location
Number of maps attached: Maps are included in the historic architecture and archaeological asssesments/letters.
⊠ Site Photographs
⊠Map of photographs
⊠ Plans and specifications
☐ Other information pertinent to the work description: Identify the type of materials attached
☑ Documentation of previously identified historic properties
⊠ Architectural Properties Identification Forms
☑ Map showing the relationship between the previously identified properties, your project footprint, and project APE
☐ Above-ground qualified person's qualification form and resume
⊠ Archaeological sensitivity map
□ Survey report
□ Archaeologist qualifications and resume
□ Other: Identify other attached materials

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REV 12.18.2020

451 E. Ferry Street, Detroit, Michigan 48202

313-300-9376

March 23, 2021

Christy Bakos GRand Environmental, LLC 3315 3 Mile Road, NW Walker, MI 49534

RE: Section 106 letter report, Woodward Apartments, 10201 Woodward Avenue, Detroit, Wayne

County

Dear Ms. Bakos,

Thank you for contacting me to prepare this report assessing the historic properties and the effect of the above project. My education and experience meet the qualifications required in 36 CFR 61 for an architectural historian. On March 9, 2021, I visited the project site to evaluate the project site and surrounding neighborhood. This written report will (1) define the area of potential effects (APE); (2) identify Historic Properties within the APE; (3) evaluate the historic significance of identified properties as appropriate; and (4) assess the effects of constructing an apartment building on any historic properties within the APE.

DESCRIPTION OF THE PROJECT

The proposed project is to construct a four-story tall apartment building with retail on the first floor on a vacant site on the west side of Woodward Avenue between Glynn Court and Calvert Street in the north end of Detroit, just north of Boston-Edison, approximately 4 miles north of downtown Detroit. The proposed building has an L-shaped footprint with the building facing Woodward Avenue and Glynn Court. A 67-space parking lot with landscaping and lighting is proposed to the west and north of the building and will be accessed by the two side streets. A small green lawn with trees, a gazebo, and playground is proposed on the west edge of the parking lot. A landscaped retail plaza is proposed at the north end of the building facing Woodward.

The east façade of the building is proposed to sit at the back of the Woodward Avenue sidewalk. There is a small lawn between the south elevation and the sidewalk of Glynn Court. A masonry wall embossed with a brick pattern is proposed for the west lot line next to the adjacent house on Glynn Court. There is an alley between the parking lot and the house on Calvert that will be repaved. A wrought iron fence will run along the alley and extend to Glynn Court to provide space for a playground between the fence and masonry wall. Lighting and landscaped islands are proposed for in the parking lot. A dumpster enclosure is proposed for the south end of the alley where it turns the corner.

The proposed building is 53' tall – four stories with a tall parapet around the flat roof to conceal mechanical equipment. The east facing façade has an apartment entrance near the south end. The majority of the first floor is an aluminum and glass commercial storefront system, there are retail spaces each with its own entrance door. The upper floors are clad in vertical concrete planks with columns of vents. The windows are narrow with a vent at the bottom. There are HVAC venting slats arranged vertically at various points across the façade.

The south elevation continues the storefront systems at the east corner of the first floor, the remainder of the elevation has window openings matching the upper floors. The upper floors are clad in concrete planks with columns of vents. The windows and HVAC venting match the façade. The north elevation has a small amount of storefront at the first floor, elsewhere at the first floor the vertical concrete planks continue from the upper floors.

The west elevation faces the proposed parking lot and is entirely clad in vertical concrete planks. At the first floor there is an apartment entrance door with a flat metal canopy extending over the door, and three sections of storefront.



Photo 1 Looking north at project site from Glynn Court, March 2021



Photo 2 – Looking northeast at project site from Glynn Court, March 2021

AREA OF POTENTIAL EFFECT (APE)

The APE for indirect effects is the entire site proposed for the physical project plus a half block to the north, south, west, and east, see the attached maps. The proposed project is on a vacant parcel fronting Woodward Avenue. There are commercial and religious buildings on Woodward with residential neighborhoods to the east and west. The proposed building will not change the setting beyond the half

block surrounding the project. Other anticipated effects include a slight increase in pedestrian and vehicular traffic in the immediate neighborhood. As the surrounding area is a mix of commercial, institutional, and residential – both single and multi-family, the proposed building will fit in with surrounding uses and density.

HISTORIC PROPERTIES WITHIN THE APE

The SHPO records for the APE were requested, and the *National Register of Historic Places, State Register of Historic Sites*, and *Detroit Historic Districts* were all reviewed. There are five known aboveground historic properties within the indirect area of potential effect. The project is adjacent to the Boston-Edison Historic District, across Woodward from both the Cathedral of the Most Blessed Sacrament and the Arden Park-East Boston Historic District, all of which have been locally designated by the City of Detroit and are listed in the National Register of Historic Places. Two potentially eligible properties, Glynnwood Apartments and the Burlingame-Collingwood-Lawrence Historic District are within the APE.

According to the National Register nomination, "The Boston-Edison Historic District is significant as a large residential area of quality and substantial architecture of the first quarter of the 20th century. It is also significant for the associations of a number of persons important in the industrial, religious and cultural development of Detroit and the nation in the period between 1900 and 1930." "All of the structures (approximately 900) within this 36-block area are large single residences; and the great majority were built between 1900 and 1925. While eclectic in style, they possess a uniformity in roof line, in scale, in set-back from the street, and in the use of stone or brick construction." The portion of the area closest to the project is Boston Boulevard between Woodward and Second Avenue and has large residences on large lots.



Photo 3 – Looking northeast at house on Boston Boulevard south of project site, Blessed Sacrament visible in background, March 2021.

According to the National Register nomination "Arden Park-East Boston is significant as an intact, upper class, residential development illustrating the range of domestic architectural styles popular in the early twentieth century. It is also significant as the home of many nationally and locally prominent

industrialists and professionals including several key figures in the evolution of the American automobile industry." The period of significance for the district is 1900-1950.



Photo 4 - Looking northeast in the Arden Park-East Boston HD, March 2021

The Cathedral of the Most Blessed Sacrament is a contributing property to the Arden Park-East Boston Historic District and is also individually listed in the National Register of Historic Places as part of the Religious Structures of Woodward Avenue MPS. According to the nomination, "In 1918, Bishop Michael Gallagher of Grand Rapids was installed as the fifth Roman Catholic Bishop of Detroit. In his nineteen years as bishop (1918-1937), one hundred and five parishes were established, of which thirty-three were ethnic parishes. The parish of the Blessed Sacrament for which this Neo-Gothic limestone church eventually was built had been established in 1906. In 1938, the new bishop, Edward Mooney, made the church the Cathedral of the newly created Archdiocese of Detroit. Blessed Sacrament Cathedral is one of the most architecturally significant of Detroit's Neo-Gothic churches of the early twentieth century." The church was built between 1913 and 1915, the tower was added in 1951. Henry A. Walsh of Cleveland was the original architect. It is significant for its architecture.

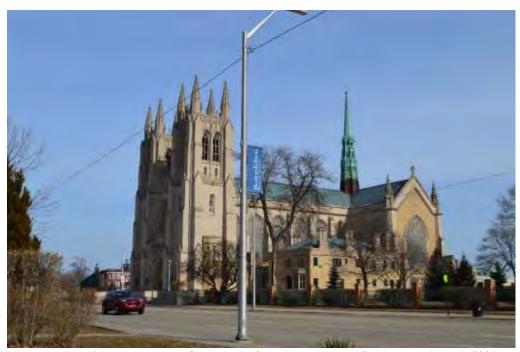


Photo 5 - Looking northeast at Cathedral of the Most Blessed Sacrament, March 2021

The Glynnwood Apartment building at 120 Glynn Court has been identified by the SHPO as being eligible for listing in the National Register for its Romanesque architecture. The building is identified in the *Apartment Buildings of Detroit* context as an example of the rectangular style of apartment buildings used in high rise buildings constructed in the 1910s and 1920s.



Photo 6 - Looking east at Glynnwood Apartments, March 2021

The Burlingame-Collingwood-Lawrence Historic District has been identified by the SHPO as being potentially eligible for listing in the National Register, however there are no details or exact boundaries. It is unknown when the assessment was made, however the area was included in the 2013 *Reconnaissance-level Survey Report Residential Neighborhoods in Detroit* and a potential historic district was not identified for this area. The portion of the potential district closest to the project contains vacant parcels and would likely be excluded from the district.



Photo 7 - Looking west on Collingwood closest to the project location, March 2021

ASSESSMENT OF EFFECTS

It is my opinion that the project will have No Adverse Effect on the Boston-Edison Historic District, the Blessed Sacrament Cathedral, and the Arden Park Historic District which are listed in the National Register of Historic Places or the Glynnwood Apartments and Burlingame-Collingwood-Lawrence Historic District which are eligible for listing in the National Register of Historic Places.

The proposed new building is compatible in scale, size, and location to the surrounding area. Although adjacent to several historic properties, the scale of the building is appropriate for its location on Woodward Avenue. The modern design and contemporary materials set the building apart from nearby historic properties while remaining compatible in size and location. The proposed building will not destroy any historic materials or character defining features of the surrounding historic properties which have altered urban settings.



Photo 8 – Looking south at project site with Blessed Sacrament to left, Boston Edison behind (not visible), and neighboring house to right, March 2021



Photo 9 – Looking northwest toward project site from East Boston across Woodward, March 2021

If you have any questions or require additional information, please contact me at 313-300-9376 or at kristine@kidorfpreservationconsulting.com.

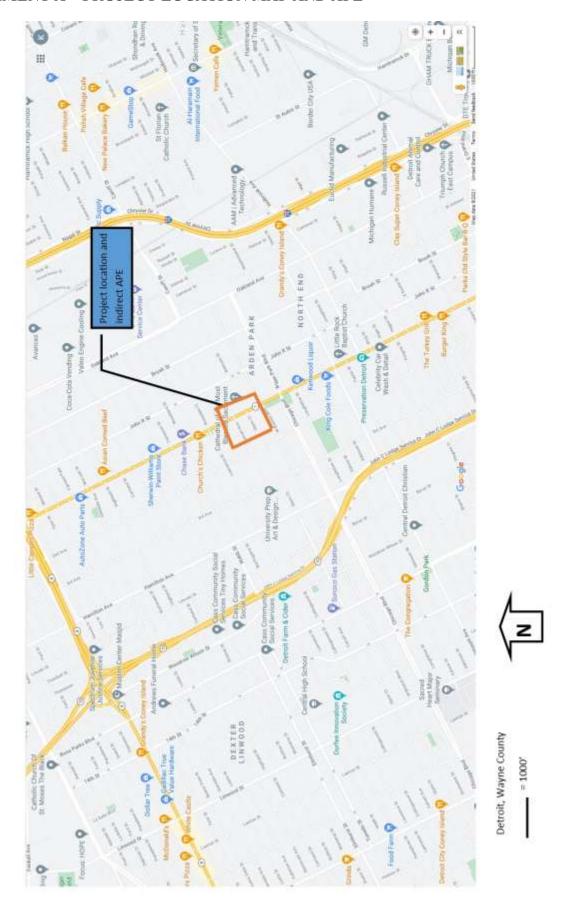
Sincerely,

Kristine M. Kidorf

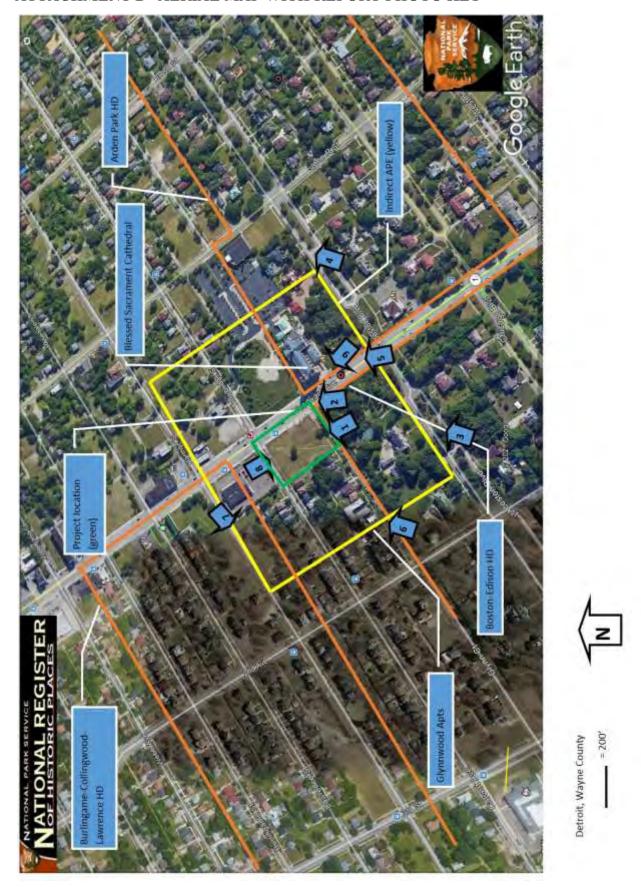
Kidorf Preservation Consulting

Attachments

ATTACHMENT A – PROJECT LOCATION MAP AND APE



ATTACHMENT B – AERIAL MAP WITH REPORT PHOTO KEY





Arbre Croche Cultural Resources LLC

Misty M. Jackson, Ph.D., Proprietor and Principal Investigator

ACCR is certified as an Economically Disadvantage Woman-owned Small Business 214 South Main Street, Leslie, Michigan 49251 ● 517-525-3060 mjackson@arbrecroche.com www.arbrecroche.com

March 22, 2021

MHT Housing Inc. 32600 Telegraph Road Bingham Farms, Michigan

Archaeological Records Review and Recommendation for the Section 106 Review Application for Woodward Apartments, 10201 Woodward Avenue, Detroit, Wayne County, Michigan

This archaeological assessment is provided by Misty M. Jackson, Ph.D. of Arbre Croche Cultural Resources LLC to accompany the Section 106 review application for the proposed Woodward Apartments, Detroit, Wayne County, Michigan and to serve as explanation for the determination of effect as required by the Section 106 review application.

Project Location and Description

Environmental Services GPW, LLC (ESGPW) was retained by the MHT Housing, Inc. on behalf of proposed construction at 10201 Woodward Avenue, Detroit, of a 62,497 square foot, four-story tall (53 ft) apartment building at the southeast corner of Woodward Avenue and Glynn Court in the north end of Detroit. Retail space will also occupy the first floor. A parking lot is proposed to the north and rear of the new building, which will also contain two retail spaces. New curb cuts are proposed from the two side streets, Glynn Court and Calvert Avenue. A gazebo, patio, landscaping and play area also will be constructed behind the apartment/retail building.

The proposed property, referred to here as 10201 Woodward Avenue, consists of five contiguous, rectangular-shaped, vacant commercial parcels located at 10201, 10227, and 10235 Woodward Avenue, 30 Glynn Court, and 39 Calvert Street, Detroit, Wayne County, Michigan.

The proposed project parcel measures 260.2 ft north-south by 200 ft east west along Calvert Avenue and 220 ft east-west along Glynn Court. Depths of construction disturbance are not provided in the specifications however no basement is proposed. The first floor will be constructed on/above the ground. The southeast corner of the parcel included structures indicating former use as an automotive repair shop and/or gas station such as three service bays with underground hoist cylinders, a possible former waste oil tank pit, vent pipes and oil drums as well as storm drains. These would likely be removed

in order to mitigate any effects, necessitating deeper excavation at least in the southeast corner of the proposed projec parcel.

The apartment building footprint will cover 15,497 square feet.

The project area lies south of Highland Park and west of Hamtramck in the part of Detroit with no section numbers, within the former Greenfield Township, on the USGS 1968 (Photorevised 1983) 7.5 minute Highland Park Quadrangle. It lies on the east border of T1S, R11E adjacent the west side of Woodward Avenue. Calvert Avenue lies on the north side, Glynn Court lies on the south side of the proposed project property, and a public alley borders the north half of the west side of the proposed project parcel.

Previously Recorded Archaeological Sites and Surveys

The files of the Michigan SHPO in Lansing include no previously recorded sites and no previously conducted surveys within the proposed project property.

No sites have been recorded within one mile of the proposed project.

Six "surveys" have been previously conducted within one mile of the proposed project. Table 1 summarizes their citation data. All of the investigations comprise phase I land use histories with limited field inspection. Three of the land use studies recommended no further mitigative concern due to the level of 20th century impacts (disturbance) on historic archaeological deposits. Also, prehistoric archaeological sensitivities are generally low in these areas (Branstner 1985a, 1985b; Causier 1985). Two of the land use histories (Branstner 1987; Klinge 2010) recommended phase I or II data recovery. Branstner and Barton (1981) report for their study area that archaeological sensitivity for historic sites is high between Woodward and Cass, and moderate in most of the remaining lots. The high potential area may contain 1830s to 1860s era sites. However, the location is south of the project area.

Table 1: Previous Archaeological Surveys within One Mile of the Proposed Project

ER No.	Citation
ER8533	Branstner 1985a
ER4104	Branstner and Barton 1981
ER87066	Branstner 1987
ER8378	Branstner 1985b
ER8372	Causier 1985
ER08-462	Klinge 2010

Parcel Land Use History

The pre-Euro-American settlement vegetation of the project location consisted of beech – sugar maple forest; adjacent to the east and south lay mixed hardwood swamp (Albert and Comer 2008:18). The proposed project lies approximately 4.75 miles north/northwest of the Detroit River.

The project area remained outside of Detroit city limits in 1876 and within Greenfield Township. According to Wikipedia, Woodward Avenue ran to Pontiac, and on the 1876 atlas it is named Pontiac Road in Greenfield Township where the proposed project property is located on its west side. The project property occupied the NE ¼ of

Section 36. (Note that these sections in this part of Greenfield Township are not a full one square mile like traditional sections.) Based on a comparison with the 1904 atlas, the project property occupied the northeast corner of Section 36, and a residence, the Greenfield House, and a "BS" (probable blacksmith shop) stood on the property at that date. N. Lagorie owned the 19.5 acre parcel (Belden 1876:9,50-51; Sauer 1904:7). How much prior to 1876 the structures date cannot be determined with the available maps.

The 1904 and 1915 atlases indicate that Section 36, part of the Ten Thousand Acre Tract, had been included into Detroit city limits while still be listed as part of Greenfield Township (Sauer 1904:7; 1915:2). Section 36 within which the project occurs was part of the Ten Thousand Acre Tract. Plate 8 in the 1915 atlas, dated 1893, indicates that the project area remained part of Greenfield Township at that time.

Historically, the Subject Property contained the following addresses: 10201-10251Woodward Avenue, 2-30 Glynn Court, and 1-39 Calvert Street.

The earliest Sanborn Fire Insurance map provided by the client dates to 1925. A 1915 Sanborn is available from the Library of Congress. It provides essentially the same data as the 1925 map and indicates a solid block of at least eight contiguous (wall sharing) business on Woodward Avenue including drugs, plumbing, bakery, and plumber, as well as one with a lobby. Behind them on Glynn Court stood Pittmans and Dern Co. Ice Plant No. 1. with an Ice Storage building behind it. On Calvert Avenue behind the dwellings stood "Motion Pictures" in 1915. The northwest corner of the subject parcel appears vacant. The southwest side of the subject property had a "planked drive." In 1925 the motion pictures building is labeled "bowling alley." The 1941 Sanborn indicates the bowling alley is labeled "Motion Pictures" again, and an alley at that date ran behind it and the ice plant through to Woodward Avenue. By 1950 the Sanborn continues to depict the businesses on Woodward, the bowling alley again, and the ice plant had been replaced by a dry cleaners. The northwest and southwest corners of the subject property stood vacant of structures. The 1957 Sanborn labels the former bowling alley/motion pictures building as "Kitchen." Between 1957 and 1961 the businesses in the south half of the block on Woodward disappeared leaving the southeast portion of the subject property vacant. It is not clear what the dry cleaning building's function had become by 1977, though the remainder of the subject property's structures from 1961 still existed in 1977 and 1989. By 1991 the remaining businesses that stood on Woodward Avenue had been removed, and only the building (or part thereof) of the former ice plant and dry cleaners remained. This structure stood until at least 2002 per the available Sanborn maps and Google Earth aerial photographs dated March, April and December 2002. By 2005 the rear of the building had been demolished. Automobiles continued to occupy the lot to the east of it (northwest corner of Woodward Avenue and Glynn Court. The remaining building continued to stand until at least June 2007. By 2010 the entire parcel proposed for the project stood vacant. As indicated by the historic Google Earth aerial photographs, the parcel has remained vacant since 2010 with grass and a few trees.

The environmental assessment (EA) report provided to Kristine Kidorf of Kidorf Preservation Consulting included a map documenting possible sources of contamination in the proposed project parcel. The southeast corner of the parcel, east of the building still extant in 2002, appeared to serve as parking lot at that date and included items indicating former use as an automotive repair shop and/or gas station such as three service bays with

underground hoist cylinders, a possible former waste oil tank pit, vent pipes and oil drums as well as storm drains. The EA map documenting this is included with the maps in this archaeological assessment.

Evidence of Previous Disturbance

Past disturbance and current land use consist of urban development and demolition of the previous structure. The proposed project parcel currently stands vacant.

Summary and Recommendations for Section 106 Application Determination of Effect: No Historic Properties Will Be Affected

ACCR recommends that a determination of 'No historic properties will be affected' be accepted for the Section 106 review. The east side of the subject property along Woodward Avenue was the location of significant nineteenth century resources on the former Pontiac Road. These included the Greenfield House, a probable blacksmith shop, and residence, which stood as late as 1876 and possibly later, as indicate on the 1876 county atlas. Construction and later demolition of the businesses (likely with residences above them) on Woodward Avenue that are recorded by the earliest available Sanborn map dating to 1915, along with the former ice plant and bowling alley/motion pictures house behind them, would have destroyed evidence of the previous nineteenth century structures.

References Cited

Albert, Dennis A. and Patrick J. Comer. 2008. *Atlas of Early Michigan's Forests, Grasslands, and Wetlands*. Michigan State University Press, East Lansing.

Belden, H. and Co. 1876. *Illustrated Historical Atlas of the County of Wayne Michigan*. H. Belden and Co., Chicago.

Branstner, Mark C. 1985a. A Phase I Detailed Land Use History and Limited Field Inspection of the North Industrial Rehabilitation District, Detroit, Michigan. Great Lakes Research Associates, Inc. ER-8533.

______. 1985b. A Phase I Detailed Land Use History and Limited Field Inspection of the Virginia Park Court Project Area, Detroit, Michigan. Great Lakes Research Associates, Inc. ER8378.

_____. 1987. A Phase I Detailed Land Use History and Limited Field Inspection of the New Center/Burroughs Project Area, Detroit, Michigan. Great Lakes Research Associates, Inc. ER-87066.

Branstner, Mark C. and David Barton. 1981. *A Literature Cultural Resource Survey and Field Inspection of the Virginia Park Rehabilitation District, Detroit, Michigan*. RAI-1456. Resource Analysts, Inc. ER4104.

Calvert Lithographing Co. 1889. *Birds eye view--showing about three miles square--of the central portion of the city of Detroit, Michigan*. [Detroit?, 1889] Map. Electronic document https://www.loc.gov/item/76693077/, accessed December 9, 2020.

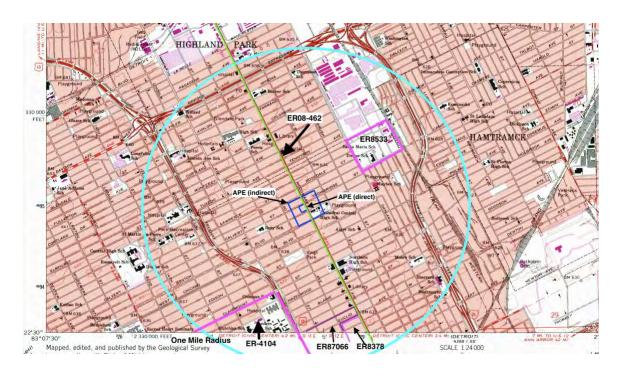
Causier, Charles W. 1985. Land Use History of the Lothrop Avenue Parking Structure Site, Detroit, Michigan. Howard, Needles, Tammen, and Bergendoff, Milwaukee.

Klinge, David F. 2010. Phase I Archaeological Literature Review, Land-Use History, and Disturbance Assessment, Woodward Avenue Light Rail Transit Project, City of Detroit, Wayne County, Michigan. ASC Group, Inc.

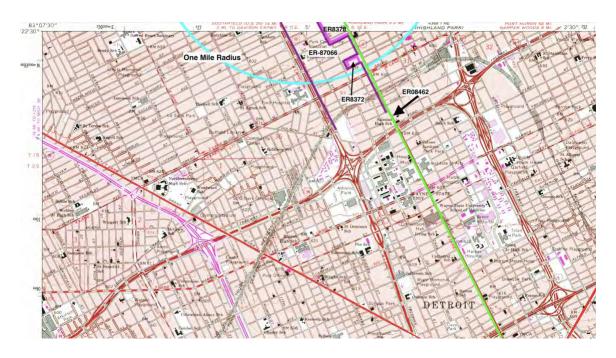
Sauer, W. C., C. E. 1904. *Detailed Official Atlas of Wayne County, Michigan*. Wm. C. Sauer, Detroit.

_____. 1915. Detailed Official Atlas of Wayne County, Michigan. Wm. C. Sauer, Detroit.

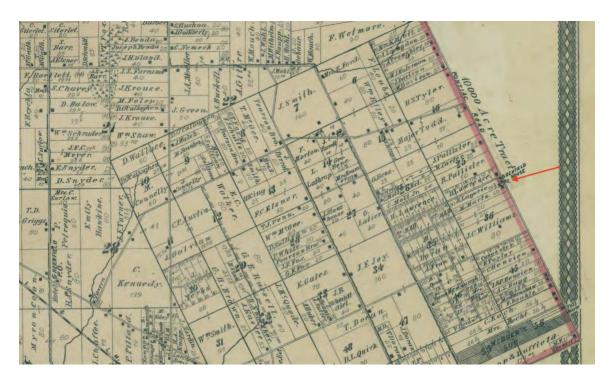
Sanborn Fire Insurance Map from Detroit, Wayne County, Michigan. 1915. Sanborn Map Company, Vol. 9. Map. https://www.loc.gov/item/sanborn03985_017/.



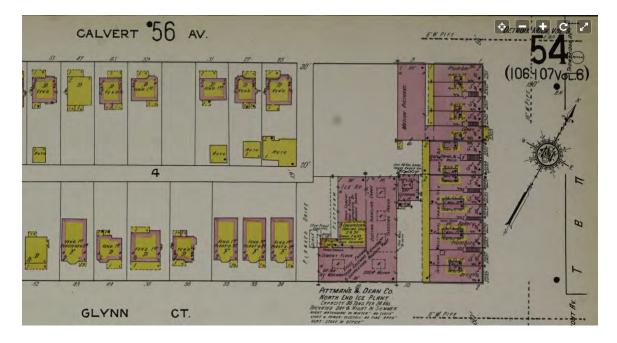
Archaeology Sensitivity Map
USGS 1968 (Photorevised 1983) 7.5 minute Highland Park Quadrangle.
The APE for direct effects is outlined by the blue square at the center of the APE for indirect effects.



Archaeology Sensitivity Map USGS 1968 (Photorevised 1973 and 1980) 7.5 minute Detroit Quadrangle



Belden and Co. 1876:9. The red arrow indicates the project property, owned in 1876 by N. Lagorie, which include Greenfield House, as residence, and "BS" (probably a blacksmith shop).



Sanborn Fire Insurance Map from Detroit, Wayne County, Michigan. 1915. Sanborn Map Company, Vol. 9. Map. https://www.loc.gov/item/sanborn03985 017/. Sheet 54. The portion relevant to the propose project lies at the east end and comprises all those structures denoted in pink.



Facing south toward the vacant lot/proposed project parcel from Calvert Avenue. Woodward Avenue lies on its east border. Cathedral Central High School stand on the left on the east side of Woodward Avenue, southeast of the subject parcel.

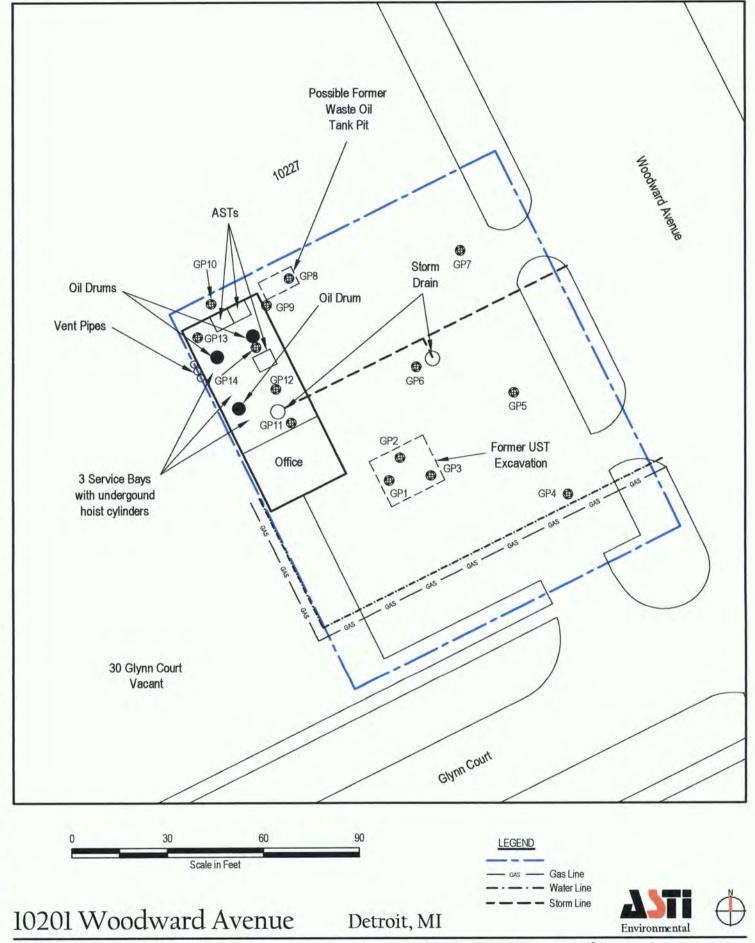


Figure 2 - Site Features Map & Soil Boring Location Map

Scope of Work: THE FIRST FLOOR WILL HAVE RESIDENTIAL UNITS, COMMUNITY SPACE & OTHER AMENITIES FOR THE APARTMENTS. THE FIRST FLOOR WILL ALSO HAVE 5,972 SF OF RETAIL SPACE ON THE EAST END OF T BUILDING. THE SECOND TO FOURTH FLOORS WILL BE DEDICATED TO UNITS. PARKING FOR BOTH RESIDENTS & RETAIL WILL BE PROVIDED ON SITE. RESIDENTS WILL HAVE ACCESS TO GAZEBO AND PLAYGROUND AREA. RETAIL WILL HAVE ACCESS TO OUTDOOR PATIO AREA. Legal Description: LAND SITUATED IN THE CITY OF DETROIT, COUNTY OF WAYNE, STATE OF MICHIGAN, DESCRIBED AS: PROJE OWNERS: MHT HOUSING OCATION: WOODWARD 10201 WOODWARD AVENUE, **APARTMENTS** <u></u>Ωο ARCHDIOCESE DETROIT 9 DETROIT

PARCEL ID: 02001534.002L ZONE: R5 -MEDIUM DENSITY RESIDENTIAL DISTRICT

PARCEL ID: 02001538 ZONE: R1 -SINGLE-FAMILY RESIDENTIAL DISTRICT

PARCEL ID: 02001535 ZONE: R5 -MEDIUM DENSITY

20' PUBLIC ALLEY

PARCEL ID: 02001537 ZONE: R1 -SINGLE-FAMILY RESIDENTIAL DISTRICT

117.0

ISTING OVERHEAD

20' PUBLIC ALLEY
RE-PAVE — —
133.5

LANDSCAPING

35.0'

20.0

39 CALVERT STREET - TAX NUMBER: 02001536.002L WEST 100 FEET OF LOTS 119 & 120; VOIGT PARK SUBDIVISION AS RECORDED IN LIBER 22 PAGE

AND NORTH 9.17 FEET OF THE WEST 100 FEET OF LOT 47; ATKINSONS SUBDIVISION AS RECORDED IN LIBER 10 PAGE 82

EAST 100 FEET OF LIBER 22 PAGE 94 10235 WOODWARD AVENUE - TAX NUMBER: 02001687 EAST 100 FEET OF LOT 119 & EAST 100 FEET OF THE NORTH 24 FEET OF LOT 120; VOIGT PARK SUBDIVISION AS RECORDED IN

20.0

90.3

10201 WOODWARD AVENUE - TAX NUMBER: 02001689 EAST 100 FEET OF THE SOUTH 2.5 FEET OF LOT 120; VOIGT PARK SUBDIVISION AS RECORDED IN LIBER 22 PAGE 94 10227 WOODWARD AVENUE - TAX NUMBER: 02001688 EAST 100 FEET OF THE NORTH 40 FEET OF THE SOUTH 42.50 FEET OF LOT 120; VOIGT PARK SUBDIVISION AS RECORDED IN LIBER 22 PAGE 94

EAST 100 FEET OF LOT 47; ATKINSONS SUBDIVISION AS RECORDED IN LIBER 10 PAGE 82

30 GLYNN COURT - TAX NUMBER: 02001536:001 SOUTH 117.50 OF THE WEST 100 FEET OF LOT 47; ATKINSONS SUBDIVISION AS RECORDED IN LIBER 10 PAGE

SHEET INDEX ARCHITECTURAL

VICINITY MAP
(NOT TO SCALE)

THIRD FLOOR PLAN
FOURTH FLOOR PLAN
ENLARGED UNIT FLOOR

PLAN

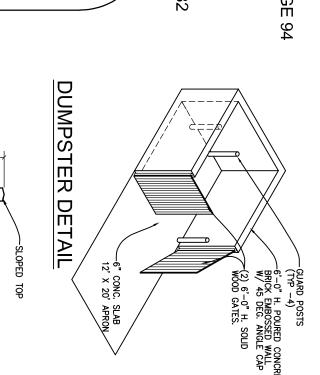
EXTERIOR ELEVATIONS

LANDSCAPE PLAN FIRST FLOOR PLAN

COVER SHEET
NEIGHBORHOOD SITE

PLAN

SECOND FLOOR PLAN



220.0

9.58'

9.58'

12'x35' RESIDENTIAL LOADING ZONE

LOADING ZONE

LANDSCAPING

LANDSCAPING

20.0'

23.83'

PARCEL ID: 02001536.002L 02001687, 02001688, 02001689 & 02001536.001

20.0

. BUSINESS

LANDSCAPING

(TYP.)

200.0

12 PARKING SPACES

LANDSCAPING

CALVERT AVE. 66' WD.

32.25'

A.1.1 A.1.2 A.1.3 A.1.4 A.2.1 A.2.2 <u>LP.1</u>

STORMWATER MANAGEMENT....

ALTA/TOPOGRAPHIC SURVEY

SURVEY

PROPERTY INFO: AREA: 54,471± SF OR 1.25± ACRES

Apartments 0.75 per dwelling unit (Bus stop within 0.5 miles of site.) Retail: (1 per 200 SF gross floor area) x 0.75 (Bus stop within 0.5 FAR BUILDABLE LAND AREA: 44,926 SF GROSS FLOOR AREA: 62,495 SF 62,495/44,926 = 1.39 **PARKING**

FLOORS: 4 HEIGHT: 53'-0"

BUILDING

BUILDING FOOTPRINT: 15,497 BUILDING SIZE: 62,495 SF

SETBACKS FRONT: 0 F

NT: 0 FEET PROPOSED I

FRONT: 0 FEET

PROVIDED: On site:

USE: MIXED USE - FIRST FLOOR RETAIL & RESIDENTIAL SECOND TO FOURTH FLOOR RESIDENTIAL

APARTMENT UNITS: (53) 2 BEDROOM UNITS

REAR:

: 35 FEET PROPOSED REAR: 90.3 FEET

SIDE: 0 FEET

PROPOSED

SIDE: 3.5 FEET

Ω

SURPLUS

of 5 spaces

22,493± SF

OF PARKING

LOT COVERAGE 15,497/54,471= 2

ZONING DESIGNATION

GENERAL BUSINESS

DISTRICT

RESIDENTIAL DENSITY
53 UNITS/1.25 ACRES = 42.4 UNITS PER ACRE

ONC C

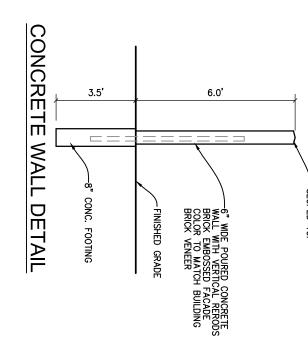
Щ

RENDERING

CONC

Ħ P

RENDERING





1.0'-

PUBLIC WALK (RE-PAVE)

260.2 APARTMENT ENTRANCE

19.92'

O.

19.92

1.0'

25.42'

PUBLIC WALK (RE-PAVE)

Apartments: 0.75 X 53 = 49 Spaces
Retail: (5,972 SF (FLOOR AREA) /200)x0.75
TOTAL: 63 SPACES Required: miles of site.)

23

Spaces



GLYNN COURT 80' WD.

<u>.</u> 18.92'

63.58'

PUBLIC WALK (RE-PAVE)

68.0'

WOODWARD APARTMENTS

2 19.83' O 8.25' O 15.92' O 11.83' 14.08' 14

LANDSCAPING

PUBLIC WALK (RE-PAVE)

16.0'

35.0'

BUILDING FOOTPRINT: 15,497 BUILDING SIZE: 62,495 SF



WOODWARD AVENU \exists 100' WD.





 \geq



_	SHEET	DRAWN BY: M.L.	APPL
\mathcal{D}	ON T	SCALE: 1" = 20'-0"	32
		DATE: 07/28/20	BII
		PROJECT NO:	l

19-02854

APPLICANT: MHT HOUSING, INC.
32600 TELGRAPH RD. #102 BINGHAM FARMS, MI 48025 PHONE: 586 833-0550



CENTER LINES (TYP.)

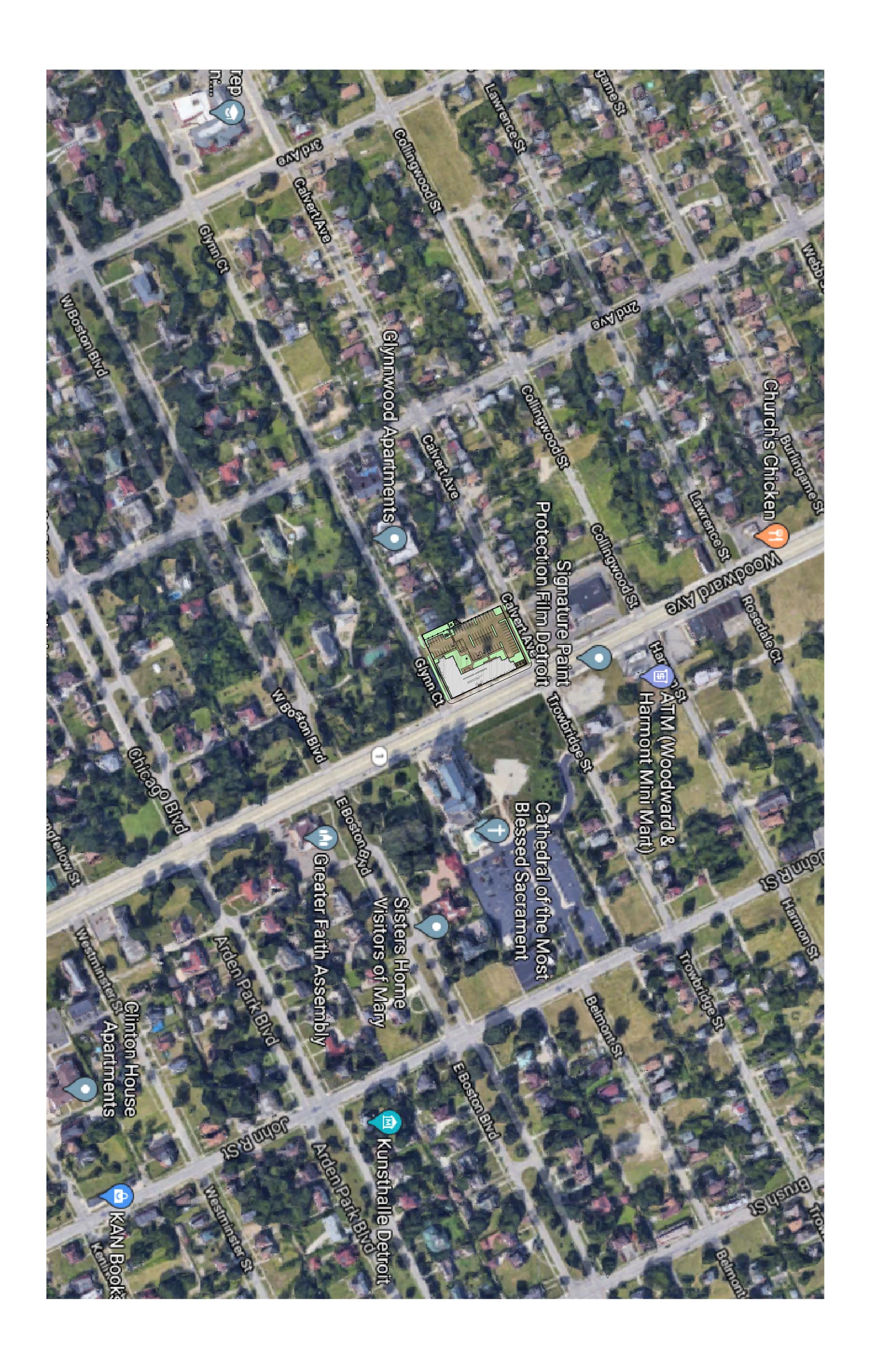
PROFESSIONAL ARCHITEC PROFESSIONAL ENGINEER PROFESSIONAL SURVEYO 22556 GRATIOT AVENU EASTPOINTE, MI 48027 (586)772-2222 PHONE (586)772-4048 FAX

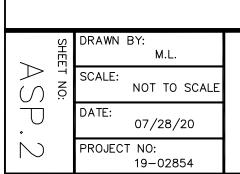
ESSIONAL ARCHITECTS ESSIONAL ENGINEERS ESSIONAL SURVEYORS 56 GRATIOT AVENUE STPOINTE, MI 48021 6)772-2222 PHONE	COVE SIT
86)772-4048 FAX	

COVER SHEET SITE PLAN
OTTE TENT

&

CLIENT: MHT HOUSING, INC.				
WOODWARD APARTMENTS 10201 WOODWARD AVE., DETROIT, MICHIGAN				
SITE AREA: 54,471± SF OR 1.25± ACRES	#1	07-30-20	M.L.	SITE PLAN REVIEW ONLY
	REVISION	DATE	BY	DESCRIPTION







PROFESSIONAL ARCHITECTS
PROFESSIONAL ENGINEERS
PROFESSIONAL SURVEYORS
22556 GRATIOT AVENUE
EASTPOINTE, MI 48021
(586)772-2222 PHONE
(586)772-4048 FAX

NEIGHBORHOOD SITE PLAN

	CLIENT: MHT HOUSING, INC.				
WOODWARD APARTMENTS					
	10201 WOODWARD AVE., DETROIT, MICHIGAN	#1 REVISION	07-30-20 DATE	M.L. BY	SITE PLAN REVIEW ONLY DESCRIPTION

EVERGREEN
TREE PLANTING I 4" SHREDDED HARDWOOD BARK MULCH ROOTBALL, REMOVE TOP 1/3 OF BURLAP, PLASTIC COVERING, & NYLON CORDS 2X2X30" STAKES (3 PER TREE) DOUBLE STRAND #11 WIRE INDIGENOUS SOIL, AMEND PER SITE CONDITIONS

UPON COMPLETION OF THE WORK, THOROUGHLY CLEAN ALL SYSTEMS AND TEST TO INSURE THAT THE SYSTEMS PERFORM TO THEIR REQUIREMENTS.

THE PROPERTY OWNER WILL TAKE CARE OF THE

PREMISES SHALL BE CLEANED UPON COMPLETION OF

54,471 PROPERTY SIZE
9,646/54,471 = 18% LANDSCAPE ARE

APE AREA

WOODWARD AVENU

 $\overline{\square}$

100' WD.

CONCEP

A N U

AP

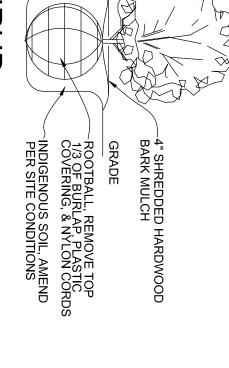
PLAN

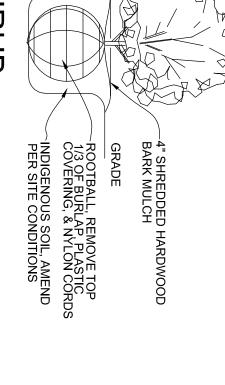
9,646 SF OF LANDSCAPE

AFOREMENTIONED NOTIFICATION WILL RESULT IN THE CONTRACTOR BEING HELD RESPONSIBLE TO COMPLETE ALL WORK TO MEET THE INTENT OF THE CONTRACT DRAWINGS WITH NO ADDITIONAL EXPENSE ("EXTRAS") BEING INCURRED BY THE OWNER.

SHRUB PLANTING NOT TO SCALE DETAIL

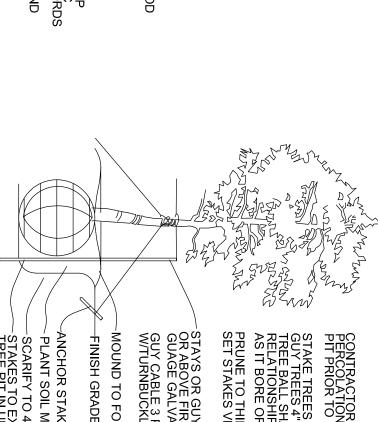
4" SHREDDED HARDWOOD BARK MULCH ROOTBALL, REMOVE TOP 1/3 OF BURLAP, PLASTIC COVERING, & NYLON CORDS INDIGENOUS SOIL, AMEND PER SITE CONDITIONS

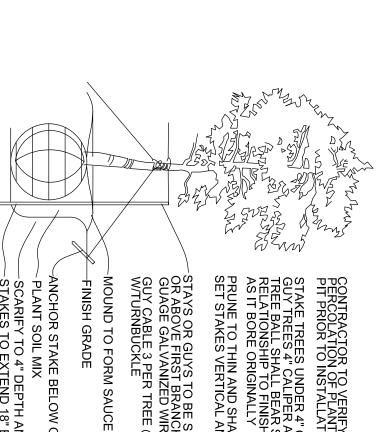


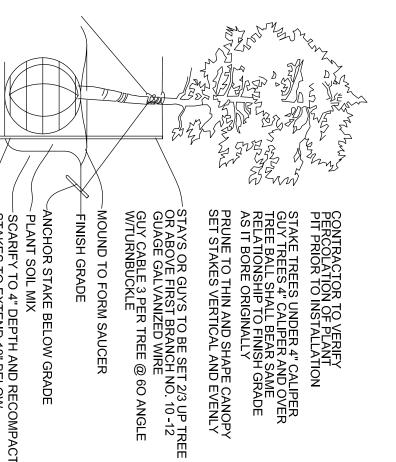


DECIDUOUS
TREE PLANTING
NOT TO SCALE

DETAIL







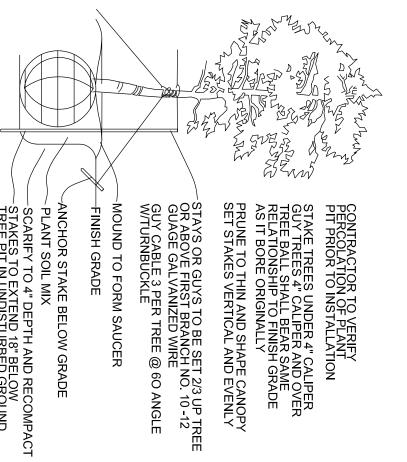
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16

QUANTITY

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LANDSCAPING NOTES ALL PLANT SIZES SI SIZES SHALL CONFORM

LANDSCAPING NOTES

WITH DETROIT'S

THE LANDSCAPE CONTRACTOR SHALL BE
RESPONSIBLE FOR INSTALLING ALL MATERIALS AND
PLANTS SHOWN ON THE PLAN WHETHER OR NOT
INCLUDED IN THE "PLANT LIST".

ALL NURSERY STOCK TO BE WELL BRANCHED,
HEALTHY, FULL, VIGOROUS, PRE INOCULATED, AND
FERTILIZED. DECIDUOUS TREES TO BE FREE OF
FRESH SCARS AND BRANCHES TO BE A HEIGHT OF 5'
ABOVE ROOTBALL. TRUNKS SHALL BE WRAPPED, IF
NECESSARY, TO PREVENT SUN SCALD AND INSECT
DAMAGE. THE LANDSCAPER SHALL REMOVE SAID
WRAP AT THE PROPER TIME AS PART OF HIS

MINIMUM DEPTH OF TWO (2) INCHES AND A MAXIMUM DEPTH OF FOUR (4) INCHES ON ALL PLANTED ARES.
ALL UNPAVED AREAS WILL BE COVERED WITH GRASS UNLESS OTHERWISE SPECIFIED.
ALL HEDGES PLACED WITHIN TWENTY (20) FEET OF THE FRONT PUBLIC SIDEWALK SHALL BE LIMITED TO THREE (3) FEET IN HEIGHT ABOVE THE GRADE OF THE PUBLIC SIDEWALK.
INTERIOR LANDSCAPED AREAS WILL MAXIMIZE EFFECTIVE STORMWATER MANAGEMENT BY AS LISTED WITHIN THE DETROIT ZONING ORDINANCE.
RRIGATION

IRRIGATION L MAXIMIZE MENT BY AS LISTED

REQUIRED LANDSCAPED AREAS SHALL BE IRRIGATED AS NECESSARY TO MAINTAIN REQUIRED PLANT MATERIALS IN GOOD AND HEALTH CONDITION.
ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH A READILY AVAILABLE WATER SUPPLY. WATER OUTLETS (HOSE BIBBS) SHALL BE PROVIDED WITHIN ONE HUNDRED (100) FEET OF ALL REQUIRED PLANT

READILY AVAILABLE WATER SUPPLY. (HOSE BIBBS) SHALL BE PROVIDED WI HUNDRED (100) FEET OF ALL REQUIRE MATERIALS UNLESS SUBSURFACE IRF IS USED AND IRRIGATION SYSTEMS SHALL BE CONTINUOUSLY MAINTAINED IN WORKING ORDER AND SHALL BE DESIGNED TO PREVENT OVERLAP OF WATER ZONES AND TO PREVENT WATERING OF IMPERVIOUS AREAS. **IRRGATION SSYTEM**

ALL NURSERY STOCK SHALL BE GUARANTEED.
TOPSOIL, 4" THICK, SHALL BE PROVIDED AND GRADED
BY THE LANDSCAPE CONTRACTOR AND SUBJECT TO
APPROVAL BY THE OWNER.
ALTERNATIVES MAY ONLY BE USED IN THE EVENT OF
UNAVAILABILITY OF THE SELECTED SPECIES WITHIN A
REASONABLE DISTANCE OR DUE TO SEASON. PROOF
MAY BE REQUESTED BY THE ENGINEER.
EVERGREEN TREES SHALL NOT BE PLANTED DURING
JUNE, JULY, OR AUGUST.
MULCH SHALL NOT CONTAIN ANY FARM WASTE AND
SHALL BE INDICATED ON PLAN FOR EACH AREA.
A CHEMICAL WEED PREVENTATIVE BARRIER SHALL BE
APPLIED IN ALL NON-GRASS AREAS WHICH DO NOT
HAVE POLYETHYLENE FILM MULCH INDICATED.
REMOVE ALL TWINE, WIRE, AND BURLAP FROM SHRUB
AND TREE EARTH BALLS AND FROM TREE TRUNKS.
LAWN TREES TO BE MULCHED WITH A 2' WIDE BY
MINIMUM 6" DEEP SHREDDED BARK RING.
SHRUB BEDS TO BE MULCHED WITH 3" OF SHREDDED

NOTE THAT SITE LIGHTING HAS NOT BEEN PROPER DESIGNED AT THIS TIME. A PHOTOMETRIC PLAN WI BE COMPLETED FOR THE SITE PLAN REVIEW. AFTEI THE CITY'S APPROVAL, A LICENSE CIVIL ENGINEER WILL PROPERLY DESIGN THE LIGHT FIXTURE AND TO PREVENT WATERING LIGHTING BEEN PROPERLY ETRIC PLAN WILL

• SITE

ALL SOD AND SEED TO BE KENTUCKY BLUE BLEND.
 EXAMINATION OF SITE
 THE CONTRACTOR SHALL VISIT THE JOB SITE BEFORE
 HE SUBMITS HIS BID TO TO BECOME FAMILIAR WITH

WOOD BARK.

THE ACTUAL JOB CONDITIONS AND TO CHECK FOR ANY INTERFERENCE BETWEEN THE WORK AND THAT OF OTHER TRADES AND/OR ANY APPARENT VIOLATIONS OF LOCAL OR STATE CODES, LAWS, ORDINANCES, AND REGULATIONS. IF ANY INTERFERENCE OR VIOLATIONS APPEAR AND DEPARTURE FROM THE DESIGN INTENT OF THE CONTRACT DOCUMENT S IS REQUIRED, THE ARCHITECT/ENGINEER BEFORE ENTERING INTO THE CONTRACT WITH THE OWNER. FAILURE TO PROVIDE THE ARCHITECT/ENGINEER WITH THE

OFF

STREET

REQUIRED: PARKING SPACE = 18 S

OF LANDSCAPED

AREA

IG SPACE = 18 SF (63x18 = 1,134 SF PROVIDED:

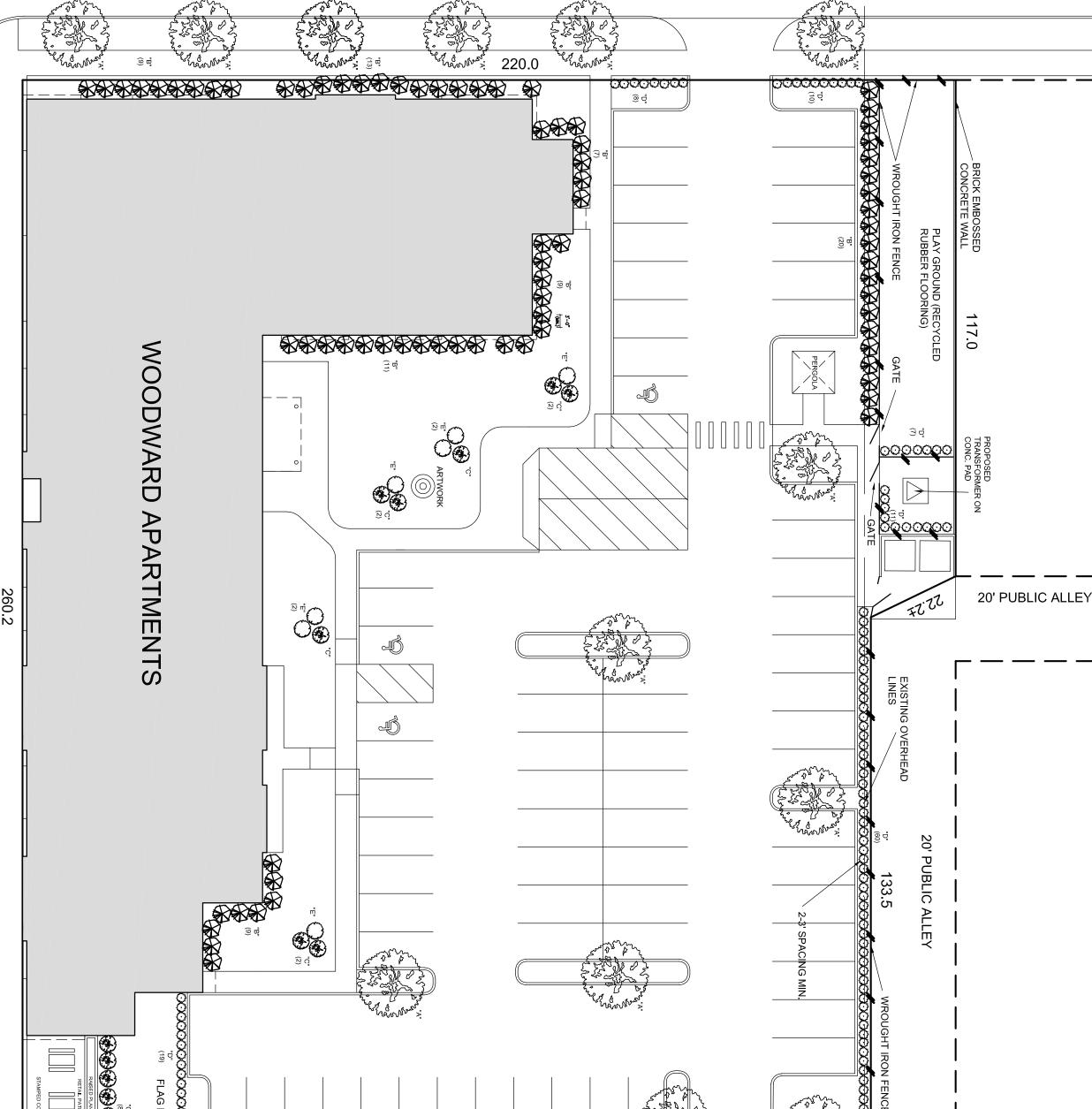
1,621 SF REQUIRED: SHADE TREE FOR EVER

1,621/250 = 7 SHADE TREES
PROVIDED:
7 SHADE TREES

LANDSCAPING CALCULATION INTERIOR LANDSCAPE

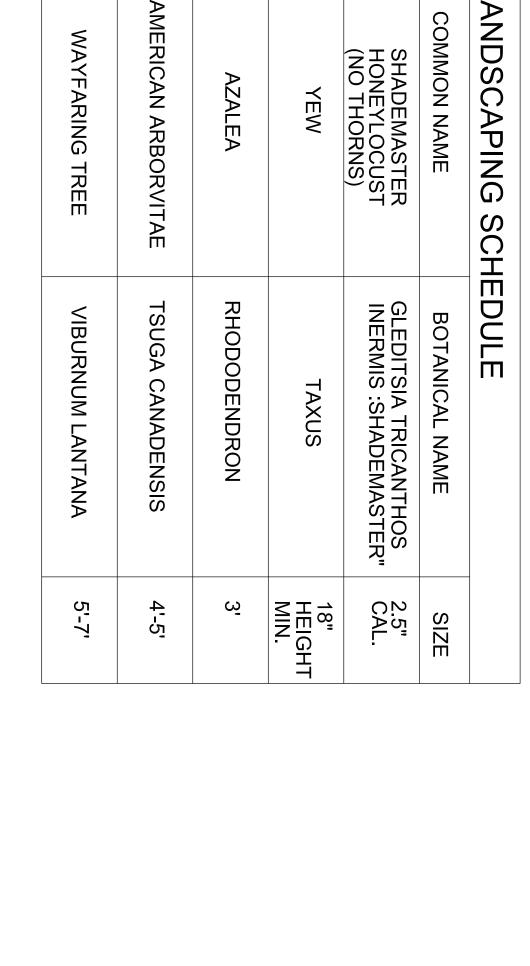
TIONS

GLYNN COURT 80' WD.



CALVERT AVE. 66' WD.

200.0



CONCEPT
LANDSCAPE PLAN

CLIENT: MHT HOUSING, INC.				
1711 1 1 1 0 0 0 11 V G.				
WOODWADD ADADTMENTS				
WOODWARD APARTMENTS 10201 WOODWARD AVE., DETROIT, MICHIGAN				
SITE AREA: 54,471± SF OR 1.25± ACRES	#1	07-30-20	M.L.	SITE PLAN REVIEW ONLY
	REVISION	DATE	BY	DESCRIPTION
			•	

PROJECT DETAILS

Project ID	ER-8533
Project Name	North Industrial Rehabilitation District, Detroit

	Bibkey
Citation:	07524
Branstner, Mark C. 1985. A Phase I Detailed Land Use History and Limited Field Inspection	
of the North Industrial Rehabilitation District, Detroit, Michigan. Great Lakes Research	
Associates, Inc.	
Notes:	
A "detailed land use history and limited field inspection" was conducted for a small	
development parcel of approximately 54 acres in the north-central section of Detroit. This	
area, bounded by Oakland Avenue on the west, by the Grand Trunk Railroad ROW on the	
east, by Caniff Street on the south and by thet Detroit city limits on the north is legally	
defined as part of Section 23 of the Ten Thousand Acre Tract. Research established that	
the property, although containing limited residential development of the post-Civil War	
period, was not heavily developed until the early twentieth century. Based on the limited	
nature of the pre-1900 development and the extent of subsequent developmental impact,	
it was recommended that no further mitigative actions be taken per archaeological	
resources in the North Industrial Rehabilitation District project area.	

PROJECT DETAILS

Project ID	ER-87066
Project Name	New Center/Burroughs Project Area, Detroit

	Bibkey
Citation:	07546
Branstner, Mark C. 1987. A Phase I Detailed Land Use History and Limited Field Inspection	
of the New Center/Burroughs Project Area, Detroit, Michigan. Great Lakes Research	
Associates, Inc.	
Notes:	
The project area is irregularly shaped, bounded on the north by Euclid, on the east by	
Woodward, on the west by the John Lodge and on the south by the Edsel Ford. Although	
part of the project area lies within fractional Section 31, T1S, R12E, the majority of the	
project lies within P. C. 55 (Cass Farm), Park Lots 47-49 and Ten Thousand Acre Tract	
Sections 56 and 45. Utilization of the project area does not appear to have been	
significant until the 1850s and 1860s. During those years development was strictly limited	
to the fronts of the park lots, those areas between Woodward and modern Cass Avenue.	
By the late 1880s, commercial and residential development was just beginning to occur in	
those project areas south of Grand Boulevard. While this area saw significant pre-1900	
growth, the majority of the project area was not significantly developed until after 1900.	
Although subsequent redevelopment within the project area has removed many areas of	
archaeological potential, limited areas relating to the pre-1900 residential and commercial	
development of the project area retain potential archaeological significance. It was	
recommended that a Phase II data recovery program be developed to address those	
remnant archaeological values. Approximately 250 acres were examined.	

PROJECT DETAILS

Project ID	ER08-462
Project Name	Woodward / M1 Light Rail Transit / Streetcar

	Bibkey
Citation: Crew, Rebecca, Denise McGeen, Aimee D'Agostini. 2010. Application for Section 106 Review. Woodward Avenue Light Rail Transit Project Phased Section 106 Submittal Downtown Detroit to Interstate I-75/Fisher Freeway. City of Detroit Department of Transportation Notes: ER08-462-I Section 106 application is bound together with the survey submission. The current submittal contains documentation on 29 resources within this portion of the APE. Of these, 16 were previously listed on the NRHP. Of the thirteen resources that were	12227
previously not identified and/or evaluated for NRHP eligibility, three were determined to be eligible for listing. September 2010 Citation: Crew, Rebecca, Denise McGeen, Aimee D'Agostini. 2010. Application for Section 106 Review. Woodward Avenue Light Rail Transit Project Phased Section 106 Submittal Interstate I-75/Fisher Freeway to Grand Boulevard. City of Detroit Department of Transportation Notes: ER08-462-II	12228
Section 106 application is bound together with the survey submission. The current submittal contains documentation on 60 resources within this portion of the APE. Of these, 26 were previously listed on the NRHP. Of the 34 resources that were previously not identified and/or evaluated for NRHP eligibility, 5 were determined to be eligible for listing. September 2010	
Citation: Klinge, David F. 2010. Phase I Archaeological Literature Review, Land-Use History, and Disturbance Assessment, Woodward Avenue Light Rail Transit Project, City of Detroit, Wayne County, Michigan. ASC Group, Inc. Notes: A literature review and background study was done for a portion of Woodward Avenue in downtown Detroit, stretching from Grand Circus Park to Woodlawn Cemetery. It was found that several areas fall within existing right of way, and would not impact archaeological sites. Areas outside the ROW include the construction of three vehicle storage maintenance facilities and some areas of the LPA which could impact sites such as the National Register eligible site 20WN785. ASC Group recommends Ph I subsurface	11314

investigations for the MLK Boulevard VSMF site. The research looked at many historical	
maps and archival information.	
Citation: Michigan Department of Transportation (MDOT). 2012. Application for Section 106 Review: Woodward Avenue Streetcar Project. Detroit, Michigan. Michigan Department of Transportation Notes: ER08-462-III	13366
Section 106 form and attachments. Attachment E contains Survey Data Forms with information on specific sites identified through survey efforts. January 2013	
Citation:	15939
Roseboom, Tim. 2010. Application for Section 106 Review Woodward Avenue Light Rail Transit Project, Phased 106 Submittal Assessment of Effects, I-75/Fisher Freeway to Grand Boulevard, Detroit, Michigan. 3. United States Department of Transportation, Federal Highway Administration Notes:	
Additional Information regarding the assessment of effects for the Woodward Avenue Light Rail project. Includes Attachment A: Additional Information for Application for Section 106 Review.	
Citation:	15940
Roseboom, Tim. 2010. Application for Section 106 Review, Woodward Avenue Light Rail Transit Project, Phased 106 Submittal, Assessment of Effects, M-8/Davison Freeway to M-102/8 Mile Road, Detroit, Michigan. 4. United States Department of Transportation, Federal Highway Administration Notes:	
Additional Information regarding the assessment of effects for the Woodward Avenue Light Rail project. Includes Attachment A: Additional Information for Application for Section 106 Review; B: Project Location Maps. C: Determination of Effects Downtown Design Options 1, 2, 3	
Citation:	15941
Roseboom, Tim. 2010. Application for SEction 106 Review, Woodward Avenue Light Rail Transit Project, Phased 106 Submittal M-8/Davison Freeway to M-102/8-Mile Road, Part 1 of 2. 1. United States Department of Transportation, Federal Highway Administration Notes : Section 106 Submittal that also includes Survey Data for the Light Rail Project between M-8	
and M-102.	
Citation:	15942
Roseboom, Tim. 2010. Application for Section 106 Review, Woodward Avenue Light Rail Transit Project, M-8/Davison Freeway to M-102/8-Mile Road, Detroit, Wayne County Part 2 of 2. 2. United States Department of Transportation, Federal Highway Administration Notes : Part 2 of 2	
Additional Survey forms for M-8/Davison Freeway to M-102/8-Mile Road	

PROJECT DETAILS

Project ID	ER-4104
Project Name	City of Detroit CDBG Program

	Bibkey
Citation:	01557
Branstner, Mark C. 1985. A Phase I Detailed Land Use History and Limited Field Inspection	
of the Wholesale Distribution Center Rehabilitation District, Detroit, Michigan. Great Lakes Research Associates, Inc.	
Notes:	
This study was conducted for a major redevelopment area on the near east side of the City of Detroit, Wayne County, Michigan and consisted of approximately 190 acres. It is bounded on the east by St. Aubin, on the west by I-75, on the south by Gratiot and on the north by Mack, Hale, Eliot, and Watson. archival analysis established that commercial and residential devvelopment of the Gratiot Avenue margin of the project area had begun prior to 1853. Residential and commercial development of the project area continued throughout the 1860s and 1870s. By the early 1880s such developments had totally saturated the project area. Although the subsequent twentieth century razing and redevelopment of this area has destroyed many archaeological deposits within the project area, the potential persistence of relatively undisturbed subsurface archaeological values led to the recommendation of a Phase II data recovery program for the project area. The former presence of the Russell Street Cemetery (20WN331) might prove to be especially troublesome.	
Citation:	01797
Branstner, Mark C. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Leland-Orleans Rehabilitation District, Detroit, Michigan. RAI-1456. Resource Analysts, Inc.	01797
Notes:	
Land use history for the parcel between Leland, Mack (Rowena), Dequindre and Chrysler Expressway. The area was not developed for residential use until the 1870s. Clay soils and distance from water give this area low potential for prehistoric settlement. Potential for significant historic sites is also low.	
Citation:	01010
Branstner, Mark C. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Virginia Park Rehabilitation District, Detroit, Michigan. RAI-1456. Resource Analysts, Inc.	
Notes:	
Land use history for the area between Clairmont, West Grand, Lodge Freeway and 14th St. The parcel was agricultural until developed for residential use in from 1890-1930. Archaeological potential for both prehistoric and historic cultural resources is low.	
Citation:	02819

Branstner, Mark C. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Art Center Rehabilitation District, Detroit, Michigan. RAI-1456. Resource Analysts, Inc.	
Notes:	
This land use history covers the area bounded on the north and east by a bend in the Ford Freeway, on the west by Woodward, John R and Brush, and on the south by Palmer, an alley south of Ferry, Frederick and Kirby. That portion of the area between Palmer and Hendrie streets may have potential for paleo-Indian and Archaic occupation because of a sand ridge formation. Two 1850s houses once stood near the corner of Hendrie and Woodward. Archaeological monitoring of any construction is recommended for these areas.	
Citation:	00410
Branstner, Mark C. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Wholesale Distribution Center Number Two, Detroit, Michigan. RAI-1456. Resource Analysts, Inc. Notes:	
This land use history covers an irregularly shaped area southeast of the intersection of Mack and the Chrysler Freeway. All structures had been razed and cleared prior to the study. The area would have presented few desirable resources to prehistoric peoples, and historic development did not get underway until the 1870s. the area is considered to have low archaeological potential.	
Citation:	03195
Branstner, Mark C. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Woodbridge Project Area, Detroit, Michigan. RAI-1456. Resource Analysts, Inc. Notes:	
This land use history covers the area bounded by Trumbull, Grand River, Ford Expressway and railroad tracks. Three areas associated with mid-nineteenth century farms are considered to have high archaeological potential. A few yards are also flagged as having moderate sensitivity.	
Citation:	01915
Branstner, Mark C. and David Barton. 1982. A Literature Cultural Resource Survey and Field Inspection of the Cass Corridor Project Area, Detroit, Michigan. RAI-1456. Resource Analysts, Inc. Notes:	
Land use history for the parcel near the center of the city, bounded by Woodward, Lodge Freeway, and Warren Ave. Prehistoric sites are unlikely because of the lack of aquatic resources and clay soils. Archaeological sensitivity for historic sites is high between Woodward and Cass, and moderate in most of the remaining lots. The high potential area may contain 1830s to 1860s era sites.	
Citation:	02018
Branstner, Mark C. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Hubbard-Richard Project Area Detroit, Michigan. RAI-1450. Resource Analysts, Inc.	
Notes: The project area consists of approximately 345 acres in the City of Detroit bounded more or less by Fort Street on the south, the Penn Central Railroad on the north, West Grand Boulevard on the west and 16th Street on the east. The findings of the study were that	

there is a zone of sand which must be accorded a high sensitivity rating due to strong correlation of prehistoric occupations with sand, the site represented by number 20WN61 may extend into the project area and there is potential for considerable archaeological information relating to the first major Euro-American development of the area between the 1850s and the 1870s.	
Citation: Branstner, Mark C. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Riverside Community Project Area, Detroit, Michigan. RAI-1456. Resource Analysts, Inc.	00897
Notes : This is a land use history for a project area in east Detroit bounded by the Detroit River, Jefferson Ave., Terminal St. and Marquette St. Only one small area is considered to be archaeologically sensitive: a parcel near the corner of Jefferson and Marquette. Remains of the mid-nineteenth century St. Armour farmstead may be preserved here.	
Citation: Branstner, Mark C. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Jefferson Chalmers and Gray Haven Project Areas, Detroit, Michigan. RAI-1456. Resource Analysts, Inc. Notes:	00896
Land use history for the area bounded by the Detroit River, Jefferson Ave., Detroit city limits at Alter Rd., and Clairpointe. Although most of the area is of low archaeological sensitivity, a few loci of high potential exist. These are elevated sand and gravel formations along the Grand Marais, Fox Creek and Presque Isle/Windmill Pointe. The latter area also has potential for 17th through 19th century remains.	
Citation: Branstner, Mark C. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Mid-City Project Area, Detroit, Michigan. RAI-1456. Resource Analysts, Inc.	00093
Notes: Land use history for the area southeast of the intersection of Woodward Avenue and E. Warren Avenue. The area is bounded on the east by Brush Street and John R. Street, and on the south by Canfield and an alley south of Willis. Although there is low potential for prehistoric sites, there were 1850s houses and a possible pre-1846 cemetery within the parcel. The cemetery appears to have been totally destroyed by commercial development. Three parking lots may cap 1850s residential deposits; construction in the lots should be monitored.	
Citation: Branstner, Mark C., John Gram and David Barton. 1982. A Detailed Land Use History of Five Areas in the Detroit Downtown District, Detroit, Michigan. RAI-1456. Resource Analysts, Inc. Notes:	02818
The five parcels are: A) northwest of Grand Circus, bounded by Fisher Freeway, Adams St., Woodward Ave. and Brush St.; B) north of Rennaissance Center, bounded by Gratiot Ave., Jefferson Ave., Randolph St., Beaubien St. and the block bounded by Beaubien, St. Antoine, Lafayette and Fort St.; C) on the riverfront, bounded by St. Antoine St., Bates St., Renaissance Center Dr., Atwater St., and Detroit River; D) north of Cobo Hall, bounded by Lodge Freeway, Washington Blvd/Wayne St., Larned St. and Fort St.; and E) bounded by Abbott St., Lodge freeway, First, Second and Third streets. A detailed land use history,	

assessment of potential significance, likelihood of survival of intact deposits, and	
management recommendations are made for each area.	
Citation:	15463
	15405
City of Detroit Planning Department. 1992. Master Plan of Policies, City of Detroit.	
December 1992. City of Detroit Planning Department	
Notes:	
December 1992 version of the City of Detroit Master Plan. Historic Preservation section is	
on page II-11. Located in the SHPO library.	
Citation:	07979
Demeter, C. Stephan. 1981. An Archaeological Evaluation of the Elmwood Park No. 3	
Project Site. R-2380. Commonwealth Associates, Inc.	
Notes:	
This report is a land use history for a project situated on Detroit's near east side and	
encompassing an area somewhat "T" shaped in configuration with its northern end being	
bounded on the north by Vernor, on the south by Waterloo, by Mt. Elliott on the east and	
Dequidre and the Grand Trunk rail line on the west covering approximately 175 acres. It	
was the finding of the report that there was no significant development of the area before	
the Civil War and while significant archaeolgoical remains might still be in existence, land	
clearance and disturbance in the area has been extensive. No sites were recorded (see	
Pilling 1994).	
Citation:	07977
	0/9//
Demeter, C. Stephan. 1981. An Archeological Evaluation of the Corktown Study Area. R-	
2408. Commonwealth Associates, Inc.	
Notes:	
The project area consisted of approximately 215 acres in the City of Detroit bounded by	
US-10 on the east, I-75 on the north, Porter, Trumbull, Labrosse, and Bagley on the south	
and 16th and 18th streets on the west. Approximately one half of the project area was	
judged to still have enough integrity to offer the likelihood of significant intact historical	
archaeological remains. There is little or no potential for prehistoric remains. CAI	
Collections are at Wayne State University. No sites were recorded (see Pilling 1994).	
Citation:	07981
Demeter, C. Stephan. 1981. An Archaeological Evaluation of the Kercheval-McClellan Area.	
R-2375. Commonwealth Associates, Inc.	
Notes:	
The project area consists of 14 acres in the City of Detroit bounded by Kercheval on the	
north, St. Paul on the south, pennsylvania on the east and the north-south running	
alleyway on the west side of McClellan on the west. Research consisted of a literature	
survey and an on-site inspection. The findings of the study were that there is very limited	
potential for prehistoric archaeological remains and that the relatively late historic	
development (largely after 1895) did not suggest a great deal of importance. No sites	
were recorded (see Pilling 1994). The collections are at Wayne State University.	00054
Citation:	00954
Demeter, C. Stephan and Burton Barnard. 1980. Archaeological Investigations at the	
Sheridan Place Development Site. R-2229. Commonwealth Associates, Inc.	
Notes:	
	I .
The project area consisted of approximately 3.7 acres in a two block area bounded by Congress on the north, Jefferson on the south, Baldwin on the east and Sheridan on the	

west. Archaeological monitoring of construction at the site resulted in the discovery of	
three features- a backyard trash pit, an extensive building foundation and a privy. An	
extensive range of artifacts were recovered, nearly all attributable to 1860-1900 time	
period. This locality has been assigned site number 20WN326.	
Citation:	13533
Flum, Steven. 1993. 2556 John R Survey Report: Brush Park Urban Recapture Project,	
Detroit, Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-VIII	
Includes information on the house, map, photos, floorplan, and rehab specs. 11/1993	
ER-04104-III through ER-04104-XII are all bound together.	
Citation:	13531
Flum, Steven. 1993. 79 Alfred Survey Report: Brush Park Urban Recapture Project, Detroit,	
Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-VI	
Includes information on the house, map, photos, floorplan, and rehab specs. 10/1993	
Citation:	13534
Flum, Steven. 1993. 2827 John R Survey Report: Brush Park Urban Recapture Project,	
Detroit, Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-IX	
Includes information on the house, map, photos, floorplan, and rehab specs. 11/1993	
morades information on the flouse, map, photos, most plan, and remail speeds 11, 1555	
ER-04104-III through ER-04104-XII are all bound together.	
Citation:	13535
Flum, Steven. 1993. 97 Winder Survey Report: Brush Park Urban Recapture Project,	13333
Detroit, Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-X	
Includes information on the house, map, photos, floorplan, and rehab specs. 11/1993	
EP-04104-III through EP-04104-VII are all hound together	
ER-04104-III through ER-04104-XII are all bound together. Citation:	12527
	13537
Flum, Steven. 1993. 234 Winder Survey Report: Brush Park Urban Recapture Project,	
Detroit, Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-XII	
Includes information on the house, map, photos, floorplan, and rehab specs. 10/1993	
ER-04104-III through ER-04104-XII are all bound together.	

Citation:	13529
Flum, Steven. 1993. 224 Adelaide Survey Report: Brush Park Urban Recapture Project,	
Detroit, Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-IV	
Includes information on the house, map, photos, floorplan, and rehab specs. 12/1993	
ER-04104-III through ER-04104-XII are all bound together.	
Citation:	13536
Flum, Steven. 1993. 216 Winder Survey Report: Brush Park Urban Recapture Project,	
Detroit, Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-XI	
Includes information on the house, map, photos, floorplan, and rehab specs. 11/1993	
ER-04104-III through ER-04104-XII are all bound together.	
Citation:	13528
Flum, Steven. 1993. 236 Adelaide Survey Report: Brush Park Urban Recapture Project,	
Detroit, Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-III	
Includes information on the house, map, photos, floorplan, and rehab specs. 11/1993	
ER-04104-III through ER-04104-XII are all bound together.	
Citation:	13530
Flum, Steven. 1993. 59 Alfred Survey Report: Brush Park Urban Recapture Project, Detroit,	
Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-V	
Includes information on the house, map, photos, floorplan, and rehab specs. 11/1993	
Citation:	13532
Flum, Steven. 1993. 82 Alfred Survey Report: Brush Park Urban Recapture Project, Detroit,	
Michigan. Jenkins/Walbridge	
Notes:	
ER-04104-VII	
Includes information on the house, map, photos, floorplan, and rehab specs. 11/1993	
Citation:	08359
Gram, John and David Barton. 1981. A Literature Cultural Resource Survey and Field	1
Gram, John and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Brush Park Project Area, Detroit, Michigan. RAI-1456. Resource Analysts,	
•	

The project area is roughly bounded by the Fisher Freeway on the south, Woodward on the west, Mack on the north, and Beaubien on the east, an area of approximately 100 acres. The findings of this study were that there is little potential for prehistoric materials in the area, but a fairly high potential for remains associated with the various phases of residential development in the area.	
Citation:	00092
Gram, John and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the Chrysler-Corey Industrial Project, Detroit, Michigan. RAI-1456. Resource Analysts, Inc. Notes:	30032
This area on the east side of Detroit is bounded by East Jefferson, Corey Place, Kercheval and Conner Lane. There is a good possibility of both prehistoric and historic archaeological deposits surviving, so construction should be monitored.	
Citation:	02394
Gram, John and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the University City Rehabilitation Project Number Two, Detroit, Michigan. RAI-1456. Resource Analysts, Inc. Notes:	
The area is south of Wayne State University bounded by Warren, Cass, Trumbull, Forest and Canfield. Disturbance by urban development and the interior location indicate a low archaeological sensitivity for both prehistoric and historic resources.	
Citation:	00409
Gram, John and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection of the McDougall-Hunt Project Area, Detroit, Michigan. RAI-1456. Resource Analysts, Inc.	
Notes:	
This triangular parcel is on the near east side of Detroit. It is bounded by Gratiot, Mt. Elliott and East Vernon. The area developed in the 1850-1885 era, with post-1885 development east of Elmwood. The neighborhood was German, with small frame dwellings and a commercial district along Gratiot. The commercial area is considered of low archaeological potential. The residential areas merit sampling or monitoring to recover information about the German settlement of the area. Sand ridges in the western half of the area have potential for prehistoric resources.	
Citation:	02052
Gram, John M. and David Barton. 1981. A Literature Cultural Resource Survey and Field Inspection [of] the Forest Park Rehabilitation Project Number Two, Detroit, Michigan. RAI-1456. Resource Analysts, Inc.	
Notes:	
This near east side area of Detroit is bounded by Warren Ave., Grand Trunk Western Railroad, Leland, Chrysler Expressway and Russell. It developed as a Polish community in the 1870s. The area was cleared of most structures by 1981. Both prehistoric and historic archaeological potential is considered to be low, with the exception of post-1879 Polish working class occupation.	

PROJECT BIBLIOGRAPHY REPORT

PROJECT DETAILS

Project ID	ER-8372	
Project Name	Proposed Grand Boulevard Revitalization Project,	
	Detroit, Wayne Co	

PROJECT BIBLIOGRAPHY RECORDS

	Bibkey
Citation: Causier, Charles W. 1986. Land Use History for Lots 14, 15, and 16 of Block 2 of the Moran and Moross Subdivision, New Center Area, Detroit, Michigan. Howard, Needles, Tammen, and Bergendoff, Milwaukee Notes: The subject of this report is teh history of three lots located at the SW corner of West Grand Boulevard and 2nd Avenue in Section 31, T1S, R12E, Wayne County. The project area is approdimately 2 acres. The area is assessed as having had little likelihood for prehistoric occupation due to distance from water and soil types/ There was no historic development of the site until 1905. Three apartment houses/hotels were built and demolished on the lots. A commercial building built around 1960 takes up 1.5 lots and is basemented. The remaining 1.5 lots have been excavated and regarded in constructing an urban park/plaza. No potential for site presence or survival appears to exist in this project area.	07703
Citation: Causier, Charles W. 1985. Land Use History of the Lothrop Avenue Parking Structure Site, Detroit, Michigan. Howard, Needles, Tammen, and Bergendoff, Milwaukee Notes: The subject of this report is a parcel of land located in the center of a block bounded by Woodward on the east, Second on the west, Bethune on the north, and Lothrop on the south. The parcel covers approximately 2 acres in what would be Section 31, T1S, R12E, Wayne County. It appears to have had low potential for prehistoric occupation, was not settled by Europeans until the late 1800's and has been disturbed several times since then. The conclusions were that there were no significant archaeological remains in the project area.	07701
Citation: Hyde, Dr. Charles K. 1986. Historic American Building Survey Basso Building, HABS No. MI- 274 7338 Woodward Avenue, Detroit, Michigan. Historic American Buildings Survey/Historic American Engineering Record, Washington, D. C. Notes: Documentation prepared ahead of the demolition of the building in accordance with the MOA between the General Motors Corporation, SHPO and the Advisory Council on Historic Preservation.	14793

PROJECT BIBLIOGRAPHY REPORT

PROJECT DETAILS

Project ID	ER-8378	
Project Name Viginia Park Court Project Area, Detroit		

PROJECT BIBLIOGRAPHY RECORDS

	Bibkey
Citation:	07526
Branstner, Mark C. 1985. A Phase I Detailed Land Use History and Limited Field Inspection	
of the Virginia Park Court Project Area, Detroit, Michigan. Great Lakes Research Associates,	
Inc.	
Notes:	
A Phase I detailed land use history and limited field inspection was conducted for an	
approximately 20 acre development parcel in central Detroit. This area is bounded on the	
north by Euclid St., on the south by the alleyway between Seward and Delaware sts., on	
the east by Woodward Ave., and on the west by Second Ave. No further mitigative	
concern was recommended due to the level of 20th century impacts on historic	
archaeological deposits. Prehistoric archaeological sensitivities are generally low in this	
area.	

Michigan SHPO Architectural Properties Identification Form



Property Overview and Location		
Property Overview and Location Street Address 420 Characteristics 120		
Street Address 120 Glynn Court		
City/Township, State, Zip Code Detroit, MI 48202		
County Assessor's Parcel #	Wayne	
Latitude/Longitude (to the 6 th dec	simal point) Lat: Lang:	
Ownership Private	cimal point) Lat: Long: Long: Public-Local Public-State Public-Federal Multiple Long: Long:	
<u> </u>		
Property Type	(Insert primary photograph below.)	
J — J — J	Structure	
below		
	Object	
Residential 🗵		
Industrial Other		
Other Architectural Information		
Architectural Information		
Construction Date c. 1920 Architectural Style Roman		
Architectural Style Roman	nesque	
Building Form High R		
	Hip, Flat	
Roof Materials Tile	Change	
Exterior Wall Materials Brick, S	Sione	
Window Materials Alumin	num	
	e-Hung	
Outbuildings Yes	□ No ⊠	
Number/Type:		
Eligibility		
Individually Criterion A	☐ Criterion B ☐ Criterion C ☐ Criterion D ☐	
Criteria Considerations:	a.	
Component of a Contributing to		
Historic District district	to a district	
Not Eligible		
Area(s) of Significance Are	rchitecture	
Period(s) of Significance c. 1920		
	sess integrity in all or some of the 7 aspects?	
	Materials ⊠ Workmanship ⊠ Setting ⊠ Feeling ⊠ Association ⊠	
General Integrity: Intact ☑ Altered ☐ Moved ☐ Date(s):		
Historic Name Glynnwood Apartments		
Current/Common Name Glynnwood Apartments		
Historic/Original Owner		
	partments	
	Current Building Use Apartments	
Architect/Engineer/Designer		
Builder/Contractor		
Survey Date March 2021	Recorded By K. Kidorf Agency Report #	

SHPO Concurrence?: Y / N For SHPO Use Only Date:

Narrative Architectural Description

Provide a detailed description of the property, including all character-defining features and any accessory resources. This is required for all properties.

Seven-and-a-half story tall rectangular form apartment building on a raised basement. The walls are clad in multi-tone dark red brick. The entrance has a limestone or terra cotta surround at the first and second floors. The front door surround has twisted columns supporting a simple entablature with decorative brackets and a dentil molding. The leaded glass windows above the door are demarcated by twisted columns supporting a blind arcade with floral decorations in the arches. The center arch has two birds flanking a shield. The entire surround is capped by a pediment with dentil molding.

The upper floors have pairs and single double-hung windows, the front windows have a six-over-one muntin pattern. The roof of the building has two gable fronts.

History of the Resource

Provide information on previous owners, land use(s), and construction and alteration dates in a narrative format. <u>This is required for all intensive level surveys</u>, NRPQs, and nominations, and recommended for other identification efforts.

The building is identified in the *Apartment Buildings of Detroit* context as an example of the rectangular style of apartment buildings used in high rise buildings constructed in the 1910s and 1920s.

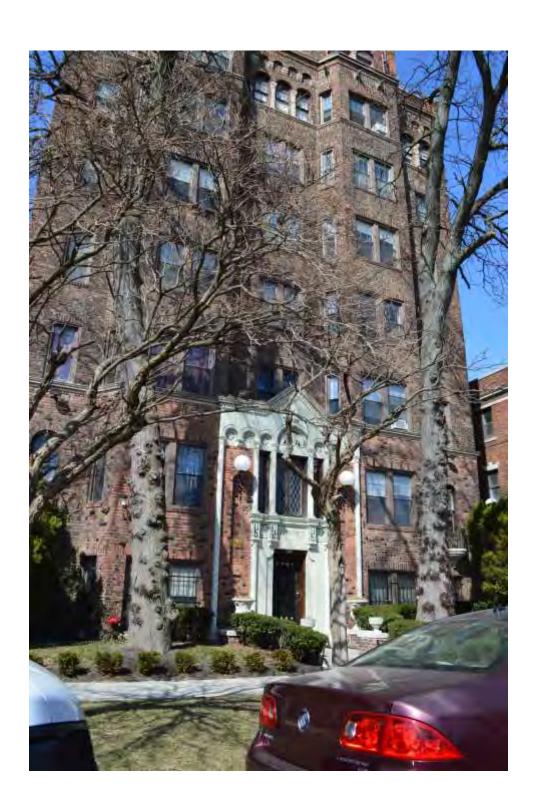
Statement of Significance/Recommendation of Eligibility

Provide a detailed explanation of the property's eligibility for the National Register. Include an evaluation under at least one of the four National Register Criteria and one Area of Significance. Include a discussion of the seven aspects of integrity, and make a recommendation about eligibility. This is required for all properties.

The Glynnwood Apartments at 120 Glynn Court have been identified by the SHPO as being eligible for listing in the National Register as an example of Romanesque architecture. The building is identified in the *Apartment Buildings of Detroit* context as an example of the rectangular style of apartment buildings used in high rise buildings constructed in the 1910s and 1920s.

References

List references used to research and evaluate the individual property. For NRPQ's include copies of key documents.



Michigan SHPO Architectural Properties District Report



District Name	Burlingame-Collingwood-Lawrence Historic District	
Site ID	P37572	
Other Name(s)		
Street Boundaries	Burlingame St, Collingwood St, Lawrence St between the Lodge Freeway & Woodward Ave. survey is incomplete so specific boundaries are undetermined.	
City/Township, State,	Detroit / , MI	
Zip Code		
County	Wayne	
Resource Type	District	

Architectural Information

Historic Uses	
Current Uses	
Architectural	
Styles	
Architects	
Significant	
Persons	
Significant Dates	

District Resources

	Contributing	Non-Contributing
Totals	0	0

Eligibility

Current National Register Status	Eligible for Listing in the National Register of Historic Places	
National Register Listed Date	1/1/0001	
National Register Criteria	A: No B: No C: No D: No	
Criteria Considerations:	a. No b. No c. No d. No e. No f. No g. No	
Area(s) of Significance		
Period(s) of Significance		

Ν	Narrative Architectural Description	
St	Statement of Significance	
Re	References	
,	,,	

Michigan SHPO Architectural Properties Individual Property Report



Property Name	Glynnwood Apartments
Site ID	P48961
Other Name(s)	
Resource Type	Building
Street Address	120 Glynn Ct
City/Township, State,	Detroit, MI
Zip Code	
County	Wayne
Lat: 42.38807	Long: -83.08782

Architectural Information

Significant Dates	
Architectural	Romanesque
Style	
Foundation	
Materials	
Exterior Wall	
Materials	
Roof Materials	
Architect	
Historic Use	DOMESTIC/multiple dwelling
Current Use	DOMESTIC/multiple dwelling

Eligibility

Current National Register	Eligible for Listing in the National Register of Historic Places
Status	
National Register Listed	1/1/0001
Date	
National Register Criteria	A. No B. No C. No D. No
Criteria Considerations:	a. No b. No c. No d. No e. No f. No g. No
Area(s) of Significance	Architecture
Period(s) of Significance	

Narrative Architectural Description

8-story red and brown brick and whitish terra-cotta-trimmed apartment building with exterior finished in Italian Romanesque-inspired styling.

Statement of Significance

|--|

References

, ,,		
_ , , ,		

Michigan SHPO Architectural Properties Individual Property Report



Property Name	Peninsular State Bank
Site ID	P55480
Other Name(s)	
Resource Type	Building
Street Address	11341 Woodward Ave
City/Township, State,	Detroit, MI
Zip Code	
County	Wayne
Lat: 42.39079	Long: -83.08741

Architectural Information

Significant Dates	1916
Architectural	
Style	
Foundation	
Materials	
Exterior Wall	Stone:Limestone
Materials	
Roof Materials	
Architect	Donaldson and Meier
Historic Use	COMMERCE/TRADE/financial
	institution
Current Use	UNKNOWN



Eligibility

Current National Register	Eligible for Listing in the National Register of Historic Places
Status	
National Register Listed	1/1/0001
Date	
National Register Criteria	A. No B. No C. Yes D. No
Criteria Considerations:	a. No b. No c. No d. No e. No f. No g. No
Area(s) of Significance	
Period(s) of Significance	

Narrative Architectural Description

Corner Lot-Line Bank in the Classical Revival style. This two-story bank is located on the southwest corner of Woodward Avenue and Lawrence Street. The rectangular building has decorated facades on the north (Lawrence) and east (Woodward) elevations. The roof is flat. The decorated facades of the north and east elevation are clad in limestone. The west elevation is faced with buff brick while the south elevation is common red brick which has been partially painted. The east façade contains the main entry. The original double doors and transom have been infilled with only a single door remaining. The door surround consists of decoratively carved pilasters supporting a cornice with egg and dart molding. To either side of the door surround are sidelights partially covered with wood and partially boarded up. The second floor of the entry bay has tripartite windows separated by wood mullions. The window units are metal casement windows with glass transoms. The metal spandrel panel has geometric designs. Flanking the entry bay are two-story stone pilasters with stone bases and Doric capitals. The lower half of the elevation has been painted. The eastern bay of the north elevation projects slightly and is flanked by two-story Doric pilasters. It has a double window on the lower floor and a tripartite window on the upper floor. The next section has five windows each on the first and second floor; the lower windows are double windows while the second floor are single. To the west of this is another projecting section similar to the first bay, but with two separated windows on the first floor. At the west end of the elevation is a small rectangular window and an entry door with a stone surround and closed pediment carried on scrolled brackets on the first floor, and a single rectangular window on the second floor. The window units are generally eight light steel sash with transoms on the first floor, and double-hung six-over-one wood sash on the

second. The decorated facades are capped by a stone entablature with dentiled cornice and plain parapet; the frieze has carved wreaths above each pilaster and attic vents with metal starburst grills and the cornice has small stone gargoyles. The west elevation has two rectangular window openings and an entry door which have been boarded up.

Statement of Significance

This branch bank appears to be potentially eligible for the National Register of Historic Places under the Multiple Property Documentation Form for Branch Banks in Detroit, MI, 1889-1970. Aside from some window/door replacement and inappropriate painting, this building is one of the better-preserved of the Peninsular State Bank branches, and is in similar condition to its twin at Woodward and Hazelwood. A full evaluation of National Register eligibility will require descriptive information and photographs showing the interior.

References

Mills, Ruth E.; Stephanie Austin., Branch Banks of Detroit, Michigan 1889-1970 National Register of Historic Places Multiple Property Documentation, Michigan State Historic Preservation Office, 2017

Pettis, Emily; Timothy Smith, Greg Rainka, Shannon Dolan, Sebastian Renfield, Krysten Tesch, Dusty Nielsen, Kristine Kidorf., Reconnaissance-level Survey Report Residential Neighborhoods in Detroit, Mead & Hunt, Inc., 2013



GRETCHEN WHITMER

STATE OF MICHIGAN MICHIGAN STRATEGIC FUND STATE HISTORIC PRESERVATION OFFICE

QUENTIN L. MESSER, JR. PRESIDENT

July 9, 2021

SHELLY CEASE
US DEPT OF HOUSING AND URBAN DEVELOPMENT
477 MICHIGAN AVENUE 16TH FLOOR
DETROIT MI 48226

RE: ER21-765 Woodward Apartments Construction, 10201 Woodward Avenue, T1S, R11E, City of Detroit,

Wayne County (HUD)

Dear Ms. Cease:

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, we have reviewed the above-cited undertaking at the location noted above. Based on the information provided for our review, it is the opinion of the State Historic Preservation Officer (SHPO) that the effects of the proposed undertaking do not meet the criteria of adverse effect [36 CFR § 800.5(a)(1)]. Therefore, the project will have <u>no adverse effect</u> [36 CFR § 800.5(b)] on historic properties within the area of potential effects for the above-cited undertaking.

This letter evidences HUD's compliance with 36 CFR § 800.4 "Identification of historic properties" and 36 CFR § 800.5 "Assessment of adverse effects," and the fulfillment of HUD's responsibility to notify the SHPO, as a consulting party in the Section 106 process, under 36 CFR § 800.5(c) "Consulting party review." If the scope of work changes in any way, or if artifacts or bones are discovered, please notify this office immediately.

We remind you that federal agency officials or their delegated authorities are required to involve the public in a manner that reflects the nature and complexity of the undertaking and its effects on historic properties per 36 CFR § 800.2(d). The National Historic Preservation Act also requires that federal agencies consult with any Indian tribe and/or Tribal Historic Preservation Officer (THPO) that attach religious and cultural significance to historic properties that may be affected by the agency's undertakings per 36 CFR § 800.2(c)(2)(ii).

Finally, the State Historic Preservation Office is not the office of record for this undertaking. You are therefore asked to maintain a copy of this letter with your environmental review record for this undertaking. Thank you for this opportunity to review and comment, and for your cooperation.

If you have any questions, please contact Brian Grennell, Cultural Resource Management Coordinator, at 517-335-2721 or by email at GrennellB@michigan.gov. Please reference our project number in all communication with this office regarding this undertaking.

Sincerely,

Martha MacFarlane-Faes

Deputy State Historic Preservation Officer

MMF:MJH:BGG

copy: Dan Lince, MSHDA

Timothy Van Fox, 10201 Woodward Limited Dividend Housing Association

Steve Guyot, ESGPW, LLC

Kristine Kidorf, Kidorf Preservation Consulting Misty Jackson, Arbre Croche Cultural Resources, LLC



Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > DNL Calculator

DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/).

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- · All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- Note #1: Tooltips, containing field specific information, have been added in this tool and may be
 accessed by hovering over all the respective data fields (site identification, roadway and railway
 assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- Note #2: DNL Calculator assumes roadway data is always entered.

DNL Calculator

Site ID			
Record Date	mm/dd/yyyy		
User's Name			
Road # 1 Name:	M-1 (Woodward)		
Road #1			
Vehicle Type	Cars 🗹	Medium Trucks 🗆	Heavy Trucks \Box
Effective Distance	10		
Distance to Stop Sign			

Average Speed	30			
Average Daily Trips (ADT)	7966			
Night Fraction of ADT	15			
Road Gradient (%)				
Vehicle DNL	72	0	0	
Calculate Road #1 DNL	72	Reset		
Add Road Source Add Ro	ail Source			
Airport Noise Level				
Loud Impulse Sounds?		○Yes ○No		
Combined DNL for all Road and Rail sources		0		
Combined DNL including A	irport			
Site DNL with Loud Impulse	e Sound			
Calculate Reset				

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

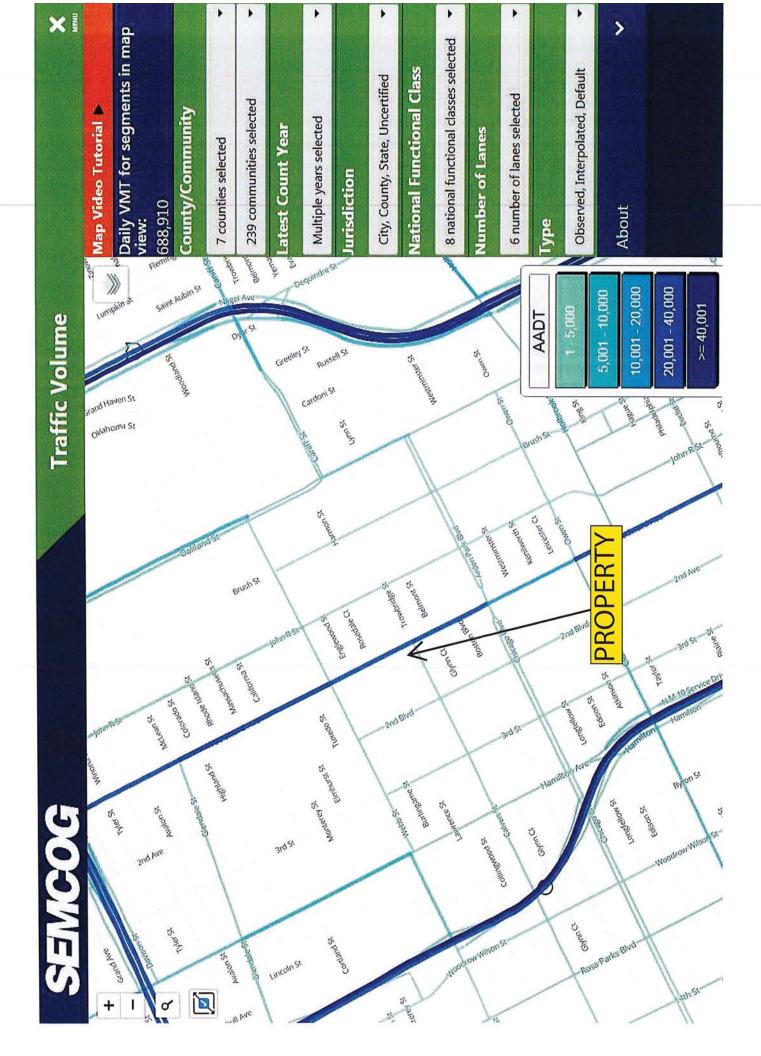
• No Action Alternative: Cancel the project at this location

- · Other Reasonable Alternatives: Choose an alternate site
- Mitigation
 - Contact your Field or Regional Environmental Officer (/programs/environmentalreview/hud-environmental-staff-contacts/)
 - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
 - Reconfigure the site plan to increase the distance between the noise source and noisesensitive uses
 - Incorporate natural or man-made barriers. See The Noise Guidebook (/resource/313/hud-noise-guidebook/)
 - Construct noise barrier. See the Barrier Performance Module (/programs/environmentalreview/bpm-calculator/)

Tools and Guidance

Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-level-assessment-tool-user-guide/)

Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-assessment-tool-flowcharts/)



TRAFFIC COUNTS - Southeast Michigan

Road Name

M-1 (Woodward)

Search Now

DOWNLOAD RESULTS (.CSV)

Road Name	Dir.	Limits	Community	Year	AADT
M-1 (Woodward)	NWB	0.2 Mile Northwest Of 8 Mile Road	Ferndale	2017	8,195
M-1 (Woodward)	SEB	0.2 Mile Northwest Of 8 Mile Road	Ferndale	2017	9,307
M-1 (Woodward)	NWB	0.2 Mile Southeast Of 11 Mile	Huntington Woods	2018	29,375
M-1 (Woodward)	SEB	0.2 Mile Southeast Of 11 Mile	Huntington Woods	2018	37,424
M-1 (Woodward)	NWB	100 Feet N W Of 15 Mile Road (Maple Ave.)	Birmingham	2018	26,821
M-1 (Woodward)	SEB	100 Feet N W Of 15 Mile Road (Maple Ave.)	Birmingham	2018	25,648
M-1 (Woodward)	NWB	100 Feet Northwest Of 6 Mile Road (Mc Nichols)	Detroit	2017	12,074
M-1 (Woodward)	SEB	100 Feet Northwest Of 6 Mile Road (Mc Nichols)	Detroit	2017	12,619
M-1 (Woodward)	NWB	100 Feet Northwest Of Chicago/Arden Park	Detroit	2019	8,251
M-1 (Woodward)	SEB	100 Feet Northwest Of Chicago/Arden Park	Detroit	2019	8,217
M-1 (Woodward)	NWB	100 Feet Northwest Of Clairmont Ave	Detroit	2017	8,154
M-1 (Woodward)	SEB	100 Feet Northwest Of Claimont Ave.	Detroit	2017	7,966
M-1 (Woodward)	NWB	100 Feet Northwest Of Davison	Highland Park	2017	11,805
M-1 (Woodward)	SEB	100 Feet Northwest Of Davison	Highland Park	2017	11,906
M-1 (Woodward)	NWB	100 Feet Northwest Of Hickory Grove Road	Bloomfield Twp	2018	11,366
M-1 (Woodward)	SEB	100 Feet Northwest Of Hickory Grove Road	Bloomfield Twp	2018	17,025
M-1 (Woodward)	NWB	100 Feet Southeast Of 12 Mile Road	Berkley	2018	30,096
M-1 (Woodward)	SEB	100 Feet Southeast Of 12 Mile Road	Berkley	2018	39,852
M-1 (Woodward)	NWB	100 Feet Southeast Of Davison Expressway	Highland Park	2017	9,194
M-1 (Woodward)	SEB	100 Feet Southeast Of Davison Expressway	Highland Park	2017	9,792
And Allandermody	CHARA	400 Foot Doubhant Of I innala/40 4/7 14ila Dand	David Oak	0000	101 30

Home (/) > STraCAT

Sound Transmission Classification Assessment Tool (STraCAT)

Overview

The Sound Transmission Classification Assessment Tool (STraCAT) is an electronic version of Figures 17 and 19 in The HUD Noise Guidebook. The purpose of this tool is to document sound attenuation performance of wall systems. Based on wall, window, and door Sound Transmission Classification (STC) values, the STraCAT generates a composite STC value for the wall assembly as a whole. Users can enter the calculated noise level related to a specific Noise Assessment Location in front of a building façade and STraCAT will generate a target required attenuation value for the wall assembly in STC. Based on wall materials, the tool will state whether the composite wall assembly STC meets the required attenuation value.

How to Use This Tool

Location, Noise Level and Wall Configuration to Be Analyzed

STraCAT is designed to calculate the attenuation provided by the wall assembly for one wall of one unit. If unit exterior square footage and window/door configuration is identical around the structure, a single STraCAT may be sufficient. If units vary, at least one STraCAT should be completed for each different exterior unit wall configuration to document that all will achieve the required attenuation. Additionally, if attenuation is not based on a single worst-case NAL, but there are multiple NALs which require different levels of attenuation around the structure, a STraCAT should be completed for each differing exterior wall configuration associated with each NAL.

Exterior wall configurations associated with an NAL include those with parallel (facing) or near-parallel exposure as well as those with perpendicular exposure. When a façade has parallel or perpendicular exposure to two or more NALs, you should base the required attenuation on the NAL with the highest calculated noise level. For corner units where the unit interior receives exterior noise through two facades, the STraCAT calculation should incorporate the area of wall, window and door materials pertaining to the corner unit's total exterior wall area (i.e., from both walls).

Information to Be Entered

Users first enter basic project information and the NAL noise level that will be used as the basis for required attenuation. This noise level must be entered in whole numbers. STraCAT users then enter information on wall, window and door component type and area. Again, as noted above, the wall, window and door entries are based on one unit, and one wall (except for corner units as discussed above). The tool sums total wall square footage based on the combined area of walls, doors and windows for the façade being evaluated.

Users may input STC values for materials in one of two ways. The tool includes a dropdown menu

of common construction materials with STC values prefilled. If selected construction materials are not included in this dropdown menu, the user may also enter the STC for a given component manually. Verification of the component STC must be included in the ERR. Documentation includes the architect or construction manager's project plans showing wall material specifications. For new construction or for components that will be newly installed in an existing wall, documentation also includes the manufacturer's product specification sheet (cut sheet) documenting the STC rating of selected doors and windows.

Required STC Rating and Determination of Compliance

Finally, based on project information entered the tool will indicate the required STC rating for the wall assembly being evaluated and whether or not the materials specified will produce a combined rating that meets this requirement. Note that for noise levels above 75 dB DNL, either HUD (for 24 CFR Part 50 reviews) or the Responsible Entity (for 24 CFR Part 58 reviews) must approve the level and type of attenuation, among other processing requirements. Required attenuation values generated by STraCAT for NALs above 75 dB DNL should therefore be considered tentative pending approval by HUD or the RE.

Project	
Woodward Apartments (AOD)	
Sponsor/Developer	
MHT Construction	
Location	
Detroit, MI	
Prepared by	
Kem-Tec & Associates	
Noise Level	
72	
Date	
3/18/2022	
Primary Source(s)	
Justin Wargo	

Part II - Wall Components

23	23504 0 3,504 Sq. eet Sq Ft/Unit 30	56 0 56 STC 38
23 Fe	3,504 Sq. eet Sq Ft/Unit	56 STC
Fe	Sq Ft/Unit	STC
Fe	Sq Ft/Unit	STC
	Ft/Unit	
73	30	38
ıantity	Sq Ft/Unit	STC
3	36	28
	21	19
	1	21

Part III - Results

uı	·	•		٧,	ر.	u	ı	•

Wall Statistics			
Stat		Value	
Area:		23504 ft ²	
Wall STC:		56	
Aperture Statist	ics		
Aperture	Count	Area	% of wall
Windows:	73	ft²	9.32%
Doors:	4	129 ft ²	0.55%
Evaluation Crite	ria		
Criteria			Value
Noise source sou	nd level (dB):		72
Combined STC fo	r wall assembly:		44.49
Required STC rati	ing:		30
Does wall assemb	oly meet requirements	?	Yes

Print

Part 4 - Tins

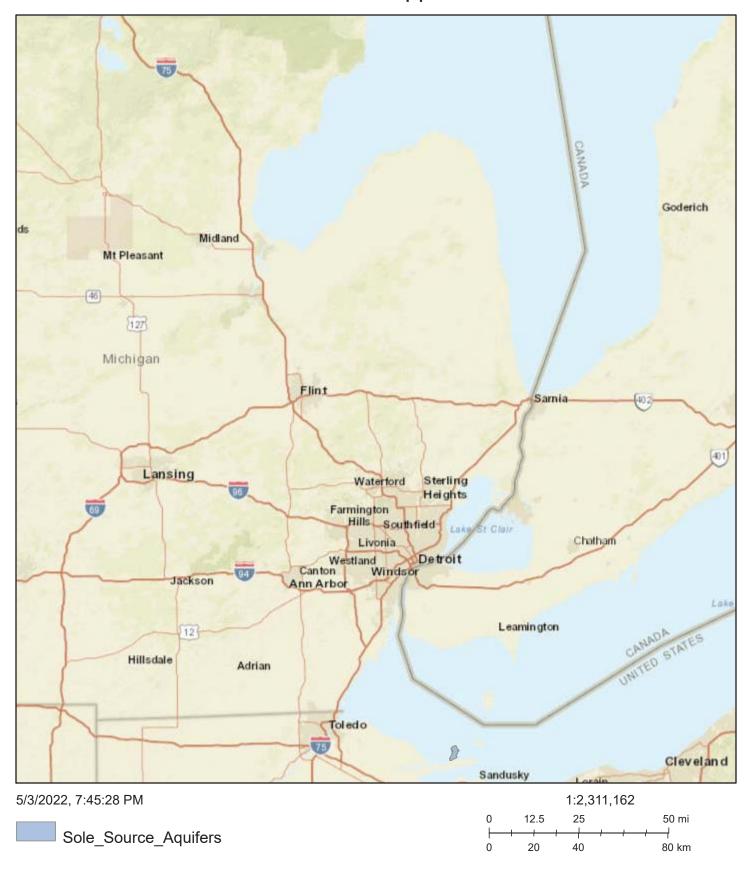
iuit Tips

What do you do if the preferred wall design is not sufficient to achieve the required attenuation? Another wall design with more substantial materials will work, but may not be the most cost-effective solution. Try adding some other elements for just a little more attenuation.

For example:

- Staggering the studs in a wall offers approximately 4dB of additional protection.
- Increasing the stud spacing from 16" on center to 24" can increase the STC from 2-5dB.
- Adding a 2" air space can provide 3dB more attenuation.
- Increasing a wall's air space from 3" to 6"can reduce noise levels by an additional 5dB.
- Adding a layer of ½" gypsum board on "Z" furring channels adds 2dB of attenuation.
- Using resilient channels and clips between wall panels and studs can improve the STC from 2-5dB.
- Adding a layer of ½" gypsum board on resilient channels adds 5dB of attenuation.
- Adding acoustical or isolation blankets to a wall's airspace can add 4-10dB of attenuation.
- A 1" rockwool acoustical blanket adds 3dB to the wall's STC.
- Filling the cells of lightweight concrete masonry units with expanded mineral loose-fill insulation adds 2dB to the STC.

ArcGIS Web AppBuilder



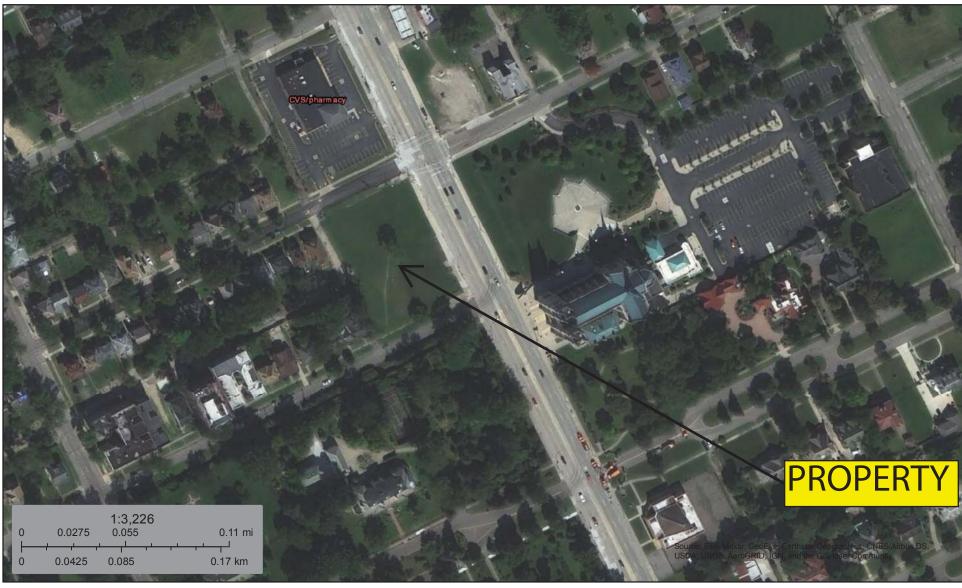
Esri, HERE, Garmin, NGA, USGS, NPS

PISH A WILDLIPE SERVICE

U.S. Fish and Wildlife Service

National Wetlands Inventory

10201 Woodward/30 Glynn Court



August 24, 2020

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

011-

Other

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.









NATIONAL SYSTEM MANAGEMENT RESOURCES PUBLICATIONS CONTACT US 50 YEARS SITE INDEX

MICHIGAN

Michigan has approximately 51,438 miles of river, of which 656.4 miles are designated as wild & scenic—just a bit more than 1% of the state's river miles.



Choose A State ➤ Go Choose A River ▼ Go

Nourished by the fertile soils of the region, rivers of the Midwest explode with life, from great avian migrations to ancient fishes.

Subject Property

+ View larger map

AuSable River

Bear Creek

Black River

Carp River

Indian River

Manistee River

Ontonagon River

Paint River

Pere Marquette River

Pine River

Presque Isle River

Sturgeon River (Hiawatha National Forest)

Sturgeon River (Ottawa National Forest)

Tahquamenon River (East Branch)

Whitefish River

Yellow Dog River

NATIONWIDE RIVERS INVENTORY | CONTACT US | PRIVACY NOTICE | Q & A SEARCH ENGINE | SITE MAP



Designated Rivers	National System	River Management	Resources
About WSR Act	WSR Table	Council	Q & A Search
State Listings	Study Rivers	Agencies	Bibliography
Profile Pages	Stewardship	Management Plans	Publications
	WSR Legislation	River Mgt. Society	GIS Mapping
		GIS Mapping	Logo & Sign Standards



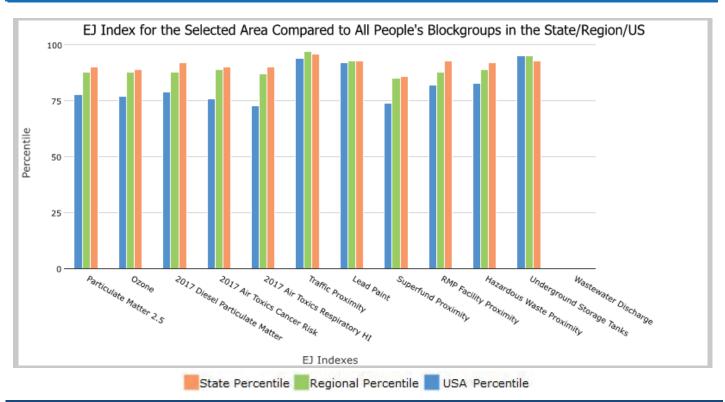
EJScreen Report (Version 2.0)



1 mile Ring Centered at 42.388913,-83.086074, MICHIGAN, EPA Region 5

Approximate Population: 12,161 Input Area (sq. miles): 3.14 Woodward Ave Apartments

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
Environmental Justice Indexes			
EJ Index for Particulate Matter 2.5	90	88	78
EJ Index for Ozone	89	88	77
EJ Index for 2017 Diesel Particulate Matter*	92	88	79
EJ Index for 2017 Air Toxics Cancer Risk*	90	89	76
EJ Index for 2017 Air Toxics Respiratory HI*	90	87	73
EJ Index for Traffic Proximity	96	97	94
EJ Index for Lead Paint	93	93	92
EJ Index for Superfund Proximity	86	85	74
EJ Index for RMP Facility Proximity	93	88	82
EJ Index for Hazardous Waste Proximity	92	89	83
EJ Index for Underground Storage Tanks	93	95	95
EJ Index for Wastewater Discharge	N/A	N/A	N/A



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

May 25, 2022 1/3



EJScreen Report (Version 2.0)



1 mile Ring Centered at 42.388913,-83.086074, MICHIGAN, EPA Region 5

Approximate Population: 12,161 Input Area (sq. miles): 3.14 Woodward Ave Apartments



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	1

May 25, 2022 2/3



EJScreen Report (Version 2.0)



1 mile Ring Centered at 42.388913,-83.086074, MICHIGAN, EPA Region 5

Approximate Population: 12,161 Input Area (sq. miles): 3.14 Woodward Ave Apartments

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Pollution and Sources							
Particulate Matter 2.5 (μg/m³)	10.1	8.75	98	8.96	86	8.74	85
Ozone (ppb)	44.9	43.8	62	43.5	65	42.6	74
2017 Diesel Particulate Matter* (µg/m³)	0.376	0.209	92	0.279	70-80th	0.295	70-80th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	30	23	99	24	95-100th	29	80-90th
2017 Air Toxics Respiratory HI*	0.3	0.25	99	0.3	70-80th	0.36	<50th
Traffic Proximity (daily traffic count/distance to road)	2900	830	94	610	96	710	94
Lead Paint (% Pre-1960 Housing)	0.85	0.37	91	0.37	92	0.28	95
Superfund Proximity (site count/km distance)	0.053	0.15	41	0.13	44	0.13	44
RMP Facility Proximity (facility count/km distance)	0.96	0.53	82	0.83	71	0.75	75
Hazardous Waste Proximity (facility count/km distance)	2.8	1.1	88	1.8	79	2.2	77
Underground Storage Tanks (count/km²)	24	7.3	91	4.8	96	3.9	97
Wastewater Discharge (toxicity-weighted concentration/m distance)	N/A	0.41	N/A	9	N/A	12	N/A
Socioeconomic Indicators							
Demographic Index	75%	28%	94	28%	95	36%	92
People of Color	89%	25%	93	26%	94	40%	88
Low Income	61%	32%	88	29%	90	31%	89
Unemployment Rate	20%	6%	95	5%	96	5%	97
Linguistically Isolated	2%	2%	73	2%	68	5%	53
Less Than High School Education	14%	9%	79	10%	78	12%	67
Under Age 5	5%	6%	52	6%	48	6%	47
Over Age 64	14%	17%	39	16%	44	16%	48

^{*}Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

For additional information, see: www.epa.gov/environmentaljustice

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

May 25, 2022 3/3



Attachment 17

Woodward Avenue Apartments Executive Summary

development in half and submit 26 units as a 9% LIHTC development with MSHDA taxable bond development experience, MHT Management's 15+ years of affordable management experience, and D(1) of MSHDA's 2019-2020 LIHTC Scoring Criteria. With MHT's 30 years of affordable structure, the Development Team is competing for "4%/9% Developments" points under Section condominium of the overall development with the entity controlled by MHT and AOD. Under this "Development Team") earned a Conditional Award for 16 units (30.1% coverage) of Project Based managed by MHT's affiliate managing agent MHT Management, LLC. MHT and AOD (the apartment units together with roughly 6,000 square feet of Woodward facing commercial space and working name of the "Woodward Avenue Apartments," the property will feature 53 two-bedroom multifamily apartment community located at 10201 Woodward Avenue, Detroit, Michigan. With a Income Housing Tax Credits; and is submitting in MSHDA's February 2021 9% LIHTC funding tax-exempt bond financing, MSHDA Housing Trust Fund financing, and an allocation of 4% Low-Team has received initial approval of Michigan State Housing Development Authority ("MSHDA") housing platform will succeed in one of Detroit's most historic neighborhoods. The Development AOD's 200+ years as a community member in the neighborhood, the team feels that this dynamic financing. Additionally, the commercial component will operate under a separately owned, third financing and the remaining 27 units as a 4% LIHTC development with MSHDA tax-exempt bond North End neighborhood. As part of the submission, the Development Team plans to split the Vouchers from the Detroit Housing Commission to add much needed affordability to Detroit's Archdiocese of Detroit ("AOD") are partnering to sponsor and develop a four-story affordable MHT Housing, Inc. ("MHT") and Mooney Real Estate Holdings, a subsidiary of the

Project Location

also services a variety of neighborhoods and allows access as far as the City of Pontiac downtown Detroit landmarks. Additionally, the SMART bus routes #450, #460, #461, and #462 Transportation's ("DDOT") #004 Bus Route ("Woodward") and #038 Plymouth services the access to six transit routes within 500 feet of the proposed front door. The Detroit Department of pharmacy, general practice Dr. Office/Clinic, park, a public school, and more than \$50 million of achieves a high site selection self-score on MSHDA's scoring criteria for LIHTC investment. location is less than $1/3^{rd}$ of a mile to a score of "85 – very walkable" on Walkscore.com's scale and Woodward Ave. and Calvert Ave. stop, taking residents to a variety of neighborhoods and private and public investment within a 1-mile radius of the property. Further, the property boasts Exemplifying the high Walkscore, the project sits within 1-mile of a full-service grocery store, The Property will be located at 10201 Woodward Avenue, Detroit, Michigan 48202. This

more equity to pay for development costs. 60 percent of the Area Median Gross Income or has a poverty rate of 25 percent or more. This QCT designation makes the development eligible to receive a LIHTC "Basis Boost" and generate ("QCT"). A QCT is defined as a census tract that has 50 percent of households with incomes below Additionally, the development is located in a Federally designated Qualified Census Tract

Affordability & Unit Mix

and the Detroit Housing Commission has agreed to split the 16-unit award so that 8 units of rental square feet. A summary of the planned unit mixes, AMIs, and underwritten rental rates is illustrated Development Team is valuing the Section 8 rents using 110% of the 2020 HUD approved FMRs for 9% phase. A copy of this Section 8 PBV award is viewable in Exhibit 31. Please note that the assistance will be available for the 4% phase and 8 units of rental assistance will be available for the in the table below. The Development Team has been competitively awarded Project Based resident utilities. 2-Bedroom units in Wayne County. Further, it is underwritten that the Landlord will pay for all Vouchers from the Detroit Housing Commission to provide 16 units with Project Based assistance The Project will consist of 53 two-bedroom, one-bathroom units that are projected to be 785

			4% LIHTC Condo	Condo			
	Enti	ty: 10201 Wood	ward 4% Limited	Dividend Hou	Entity: 10201 Woodward 4% Limited Dividend Housing Association, LLC	TLC	
% AMI	Туре	No. Units	Bedrooms	Baths	Contract Rent	Utility Allowance	Total Housing Expense
80%	LIHTC	12	2	1.0	\$875	\$0	\$875
60%	ПНТС	5	2	1.0	\$875	\$0	\$875
30%	DHC PBV	8	2	1.0	\$1,153	\$0	\$1,153
30%	ПНТС	2	2	1.0	\$530	\$0	\$530
Avg AMI:	57.78%	27					
			9% LIHTC Condo	Condo			
	En	tity: 10201 Woo	dward Limited L	ividend Housi	Entity: 10201 Woodward Limited Dividend Housing Association, LLC	C	
% AMI	Type	No libite	Redrooms	Rathe	Contract Rent	Utility	Total Housing
3	1,400	0.01115	00110	מנו	COLLCI GCC IVCIIC	Allowance	Expense
80%	LIHTC	7	2	1.0	\$875	\$0	\$875
60%	ПНТС	5	2	1.0	\$875	\$0	\$875
50%	DHC PBV	8	2	1.0	\$1,153	\$0	\$1,153
40%	ЦHTС	6	2	1.0	\$707	\$0	\$707
Avg AMI:	57.69%	26					

4%/9% Specifics

space prorated over the other two residential phases. A summary of the sources and uses of the commercial space will be separated into third component, with the costs of "white-boxing" the bond permanent mortgage, and a General Partner note. round and also allow for an efficient use of MSHDA's resources in general. Phase One will include the development to receive the "4%/9% Developments" points within the 9% LIHTC funding component, for a total of three phases, all of which will be closed simultaneously, and allowing for development broken out by phase are as follows: financed with 9% LIHTC equity and a MSHDA taxable bond permanent mortgage. The 27 units and be financed with 4% LIHTC equity, MSHDA HTF financing, a MSHDA tax-exempt The overall development is planned to be split into two residential phases and a commercial Phase Two will include 26 units and be

	⋄	\$ -	,	\$		\$	NET	
16,705,602	₩.		9,314,704	٠	7,390,898	₩.		
2,120,629	₩.		1,183,852	Ş	936,777	₩.		Developer Fee
394,891	\$		196,863	Ş	198,028	₩.		Reserves
561,588	\$		314,834	Ş	246,754	₩.		Contingency
1,896,739	Ş		1,042,330	Ş	854,410	\$		Soft Costs
11,231,755	Ş		6,296,675	Ş	4,935,080	ئ		Construction
500,000	\$	\$ 1	280,150	Ş	219,849	\$		Acquisition
				es	Uses			
16,705,602	\$		9,314,704	٠	7,390,898	\$		
38,684	Ş				38,684	↔		GP Note
200,778	Ş		40,778	Ş	160,000	⋄		Deferred Fees
ı	\$					❖		Detroit HOME
2,440,103	\$				2,440,103	₩.		MSHDA HTF
11,053,171	Ş		8,021,095	Ş	3,032,076	↔		LIHTC Equity
1,252,831	Ş		1,252,831	Ş				MSHDA Taxable
1,720,035	ئ				1,720,035	٠		MSHDA Tax Exempt
Total		Commercial	9%	\exists	4%			
				rces	Sources			

development team consulted with Tax Counsel at Applegate & Thorne-Thomsen for a review and found in the enclosed proformas illustrating the 4%/9% financing structure. Please note that the A copy of the letter is available for MSHDA's review. recommendation of the cost breakdown structure of the three condominiums in the development. Further details of each phase of the development and the respective cost breakdowns can be

Construction Features & Projected Amenities

have been determined based on the square footage size of each phase and confirmed by the project submitted a trade payment breakdown specifying the hard costs for the completion of this 4% and zoning codes. Please note that as part of the "split" submission the Development Team has architect plan to certify to complete the development in accordance with Enterprise Green square foot structure and to complete all three phases. The development team, contractor, and architect, Kem-Tec LIHTC phase. The construction costs for each phase of the project, as well as all other soft costs, Architect, Kem-Tec to design the structure in accordance with local neighborhood design elements 100% Visitable units. In addition, the Development Team has worked closely with the Project Environmental Criteria, accessible community space over 1,000 square feet, 10% barrier free and Construction of the project is projected to last 14 months to build the new approximately 62,495

efficient appliances including washers and dryers, frost free refrigerators, ovens, ranges with hoods, community room and business center, as well as outdoor features for recreational activities. disposals, microwaves, and central air conditioning. Other community features will include a sizable The Project will feature first class amenities for its residents. Each unit will feature energy

Development Team

of over 6,500 elderly and family units and has been successful in obtaining multiple funding sources and is a 501(c)(3) nonprofit organization. MHT's principal T. Van Fox is on the Board of Directors of both MHT and Shelter America Group funding, Brownfield and Historic tax credits, HUD221(d)4 and Fannie Mae loans. In addition, for preservation, adaptive reuse, and new construction projects, that include HOME and NSP ("SAG") whose portfolio of properties are located in the states of Washington, Oregon and MHT has over 30 years of affordable housing development experience in the State of Michigan MHT serves as the general partner or managing member

tutoring and after school meals, backpacks for kids, eviction diversion program, a gun buy back, including a nationally recognized Summer Workforce program for City of Detroit teens, after school housing. MHT also has been recognized for providing services within the Detroit community Detroit vacant land clean up, Detroit Police Department Support and coordination with Meals on Wheels and PACE SE Michigan. The property will be managed by MHT's owner captive management agent, MHT Management, MHT is a nonprofit housing corporation whose mission is to provide & develop affordable

over 100 years and continues to invest and promote cultural activities in the neighborhood for the neighborhood. The Archdiocese has been an active community engager in the neighborhood for Michigan. The Cathedral of the Most Blessed Sacrament serves as the seat of the Archbishop of the the Roman Catholic Ecclesiastical Province of Detroit which includes all dioceses in the State of Macomb, Monroe, Oakland, St. Clair, and Wayne. In addition, it is the metropolitan archdiocese for local residents and statewide population. Archdiocese and is located at 9844 Woodward Avenue in Detroit's historic Boston-Edison The Archdiocese of Detroit was founded in 1833 and serves the Michigan counties of Lapeer,

The proposed Project structures are as follows:

- 9% LIHTC Condo:
- Ownership Entity: 10201 Woodward Limited Dividend Housing Association,
- Managing Member: 10201 Woodward MM, LLC

0

- 50% Member: TBD Subsidiary of Mooney Real Estate Holdings
- 50% Managing Member: MHT Housing, Inc.
- Investment Member: CREA Entity, TBD
- 4% LIHTC Condo:
- 0 Ownership Entity: 10201 Woodward 4% Limited Dividend Housing Association, LLC
- o Managing Member: 10201 Woodward MM, LLC

- 50% Member: TBD Subsidiary of Mooney Real Estate Holdings
- 50% Managing Member: MHT Housing, Inc.
- Investment Member: CREA Entity, TBD
- Commercial Condo:
- 0 Ownership Entity: 10201 Woodward MM, LLC
- 50% Member: TBD Subsidiary of Mooney Real Estate Holdings
- 50% Managing Member: MHT Housing, Inc.

Jobs Created

time of occupancy. Full time positions include a property manager/leasing official and maintenance temporary construction related jobs will be generated and two full time positions will be created at Based on previous projects of similar size and scope completed by MHT, it is estimated that 75

Development Team

Ph: 248-709-3535 Email: mcinerney.michael@aod.org Co-Managing Member & Sponsor:
Michael McInerney – TBD Subsidiary of Mooney Real Estate Holdings

Van Fox – MHT Housing, Inc.

Co-Managing Member & Sponsor:

Ph: 248-833-0550 Email: vanfox@mhthousing.net

<u> Management Agent:</u>

Van Fox – MHT Management, LLC

Ph: 248-833-0550 Email: vanfox@mhthousing.net

General Contractor:

Chad Joseph – MHT Construction, LLC

Ph: 248-833-0550 Email: bgallaher@mhthousing.net

Lead Architect:

effrey Graham - Kem-Tec

Ph: 586-772-2222 Email: jgraham@kemtec-survey.com

Andrew Massmann - Applegate & Thorne-Thomsen, P.C.

Ph: 312-491-4433 Email: amassmann@att-law.com

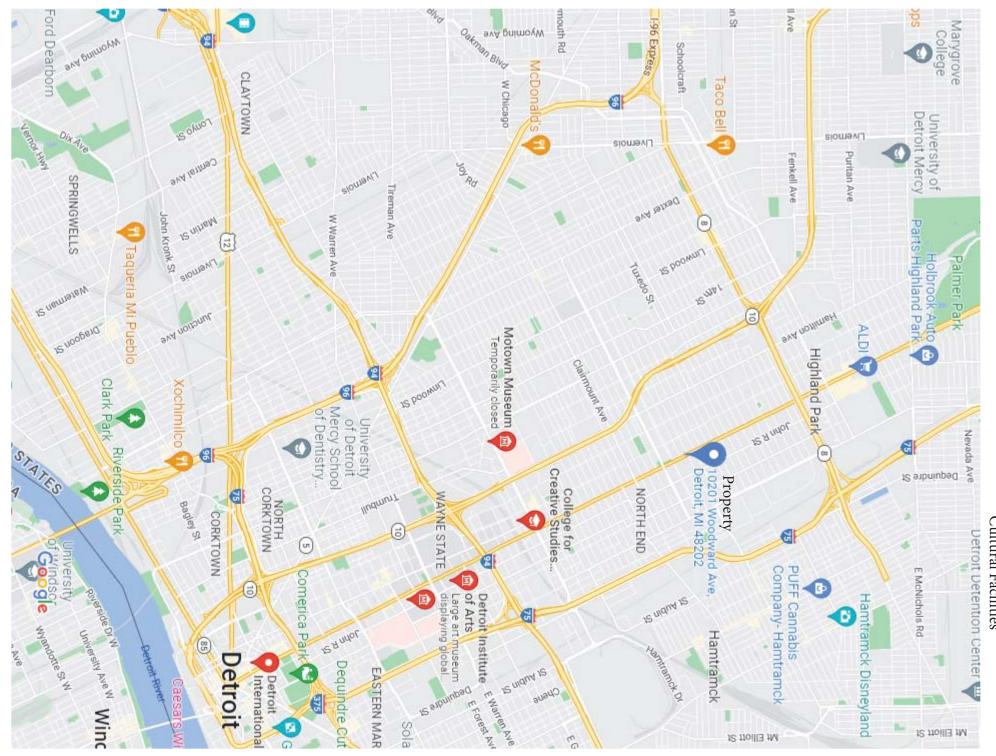
Accountant:

Patrick Fuelling, CPA - Doeren Mayhew

Ph: 248-244-3104, Email: fuelling@doeren.com

Attachment 18

Cultural Facilities



Rating

Hours

莊 All filters

Mackenzie Hall Cultural Centre

.3 (239)

Cultural center · 3277 Sandwich St. W Closed · Opens 10AM Tue



"Beautiful facility, staff pleasant."

Finnish Center Association

(87

Cultural center · 35200 Eight Mile Rd



"A well maintained facility, very big hall."

St Mary's Cultural Center

(455

Cultural center · 18100 Merriman Rd



"Very nice facilities, good food and staff."

Lorenzo Cultural Center

(67)

Cultural center · 44575 Garfield Rd



"Very clean and well managed facility."

Detroit Institute of Arts

α

(8,783)

Tourist attraction · 5200 Woodward Ave Large art museum displaying global works



Closed · Opens 9AM Tue

"Culture and history in one place"

MacKenzie Fine Arts Center

(2/

Art center · MacKenzie Fine Arts Center - Building F, 5101 Evergreen Road
Open · Closes 10PM



Italian American Cultural Society and Banquet Center

4.6 (487)

Cultural center · 43843 Romeo Plank Rd Open · Closes 5PM

"Very nice facilities."

ociety
lank Rd

Showing results 1 - 20

Attachment 19

education schools

Θ **Golightly Education Center**

Address: 5536 Saint Antoine St, Detroit, MI 48202

Phone: (313) 494-2538

Website: https://www.detroitk12.org/GolightlyEducationCe

w **Nancy Boykin Continuing Educ**

Address: 10225 3rd St, Detroit, MI 48202

Phone: (313) 866-0524

(J **Hamtramck Adult Education**

Address: 3225 Caniff St, Hamtramck, MI 48212

Phone: (313) 893-2214

(Lutheran Special Education Ministries

Address: 6861 E Nevada St, Detroit, MI 48234

Phone: (313) 368-1220

Website: http://www.luthsped.org/

(9) **Detroit Public Schools Community District**

Address: 3011 W Grand Blvd, Detroit, MI 48202

Phone: (313) 240-4377

Website: https://www.detroitk12.org/

Hazel Park Adult Education

Address: 420 W 9 Mile Rd, Hazel Park, MI 48030

Phone: (248) 658-5600

Website: http://www.hazelparkschools.org/

(3) Ferndale Public Schools

Address: 21131 Garden Ln, Ferndale, MI 48220

Phone: (248) 548-1950

Website: http://www.ferndaleschools.org/

(5) **New Paradigm Glazer Academy**

Address: 2001 La Belle St, Detroit, MI 48238

Phone: (313) 833-1100

Website: http://npglazeracademy.org/

(3) Detroit International Academy For Young Women

Address: 9026 Woodward Ave, Detroit, MI 48202

Phone: (313) 873-3050

Website: http://www.detroitk12.org/

(2) Keidan Special Education School

Address: 4441 Collingwood St, Detroit, MI 48204

Phone: (313) 873-9400

Website: http://www.detroitk12.org/

4 **Hamtramck Board of Education**

Address: 3201 Roosevelt St, Hamtramck, MI 48212

Phone: (313) 872-9270

Website: http://www.hamtramck.k12.mi.us/

(6) **U Prep Schools**

Address: 485 W Milwaukee St, Detroit, MI 48202

Phone: (313) 887-1613

Website: https://uprepschools.com/contact

∞ Detroit Waldorf School

Address: 2555 Burns St, Detroit, MI 48214

Phone: (313) 822-0300

Website: https://www.detroitwaldorf.org/contact-us

a Adult Education Center

Address: 13840 Lappin St, Detroit, MI 48205

Phone: (313) 579-7109

Website: http://www.detroitk12.org/

(2) Center Line Special Education

Address: 26334 Arsenal, Center Line, MI 48015

Phone: (586) 510-2050

Website: https://www.clps.org/

(Ace Academy (Sda)

Address: 1961 Lincoln St, Highland Park, MI 48203

Phone: (313) 868-8368

Website: http://aceacademysda.com/

6 Joy Preparatory Academy

Address: 1129 Oakman Blvd, Detroit, MI 48238

Phone: (313) 867-7828

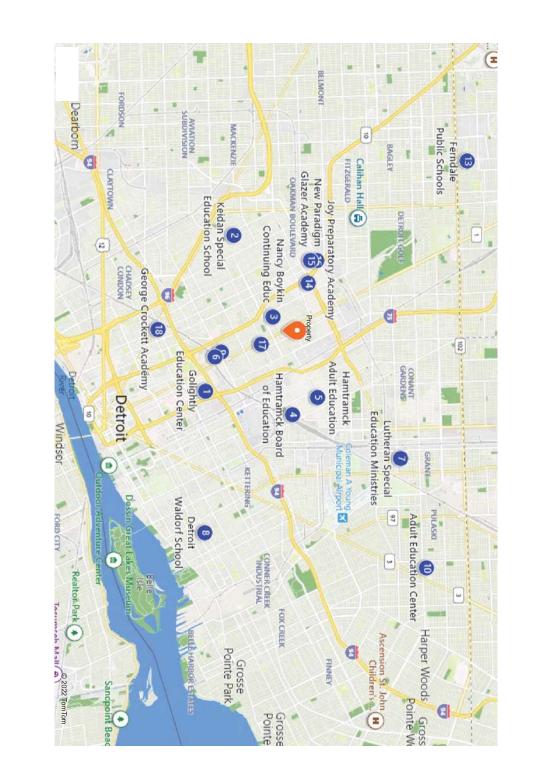
Website: http://www.joyprep.com/

(₩ George Crockett Academy

Address: 4851 14th St, Detroit, MI 48208

Phone: (313) 896-6078

Website: http://www.crockettacademy.com/



retail

Ferne Boutique

Address: 6529 Woodward Ave, Detroit, MI 48202

Phone: (313) 285-8427

Website: http://www.ferneboutique.com/

3 Carhartt

Address: 5800 Cass Avenue, Detroit, MI 48202

Phone: (313) 831-1274

Website: https://stores.carhartt.com/mi/detroit/5800-cass

-avenue-4211510.html

Whole Foods Market

Address: 115 Mack Ave, Detroit, MI 4820

Phone: (313) 576-5300

Website: https://www.wholefoodsmarket.com/stores/detr

Oit.

The Peacock Room

Address: 15 E Kirby St, Detroit, MI 48202

Phone: (313) 559-5500

Website: https://www.facebook.com/peacockroom

9 Value Dollar Store

Address: 4539 Trumbull St, Detroit, MI 48208

Phone: (313) 831-2140

Website: http://valuedollarstore.placeweb.site/

Foot Locker

Address: 2942 West Davison Plaza, Detroit, MI 48238

Phone: (313) 868-2621

Website: https://stores.footlocker.com/us/mi/detroit/2942 -west-davison-plaza.html

(13) Hats Galore & More

Address: 10061 Gratiot Ave, Detroit, MI 48213

Phone: (313) 579-1761

Website: https://shophatsgalore.com/pages/terms-conditi

ons

(15) Cheap Charlies

Address: 1461 Gratiot Ave, Detroit, MI 48207

Phone: (313) 567-7788

Website: https://www.easternmarket.org/district/cheap-charlies

(17) Walgreens

Address: 6331 E Jefferson Ave, Detroit, MI 48207

Phone: (313) 567-4239

Website: https://www.walgreens.com/locator/walgreens-6 331+e+jefferson+ave-detroit-mi-48207/id=4797

2 Pure Detroit

Address: 3011 W Grand Blvd Ste #101, Detroit, MI 48202

Phone: (313) 873-7873

Website: http://shop.puredetroit.com/

(4) Eastern Market, Detroit

Address: 2934 Russell St, Detroit, MI 48207

Phone: (313) 833-9300

Website: https://www.easternmarket.org/

6 City Bird

Address: 460 W Canfield St, Detroit, MI 48201

Phone: (313) 831-9146

Website: https://www.citybirddetroit.com/

6 G Mart Men's & Boys Clothing

Address: 10012 Joseph Campau St, Hamtramck, MI 48212

Phone: (313) 874-4666

Website: https://fr.yelp.ca/biz/g-mart-mens-and-boys-clo thing-hamtramck

10 Foot Locker

Address: 14108 Woodward Avenue, Highland Park, MI

48203

Phone: (313) 869-6981

Website: https://stores.footlocker.com/us/mi/highland-park/14108-woodward-avenue.html

Caniff Gift & Variety

₹

Address: 2611 Caniff St, Hamtramck, MI 48212

Phone: (313) 365-9881

Website: https://www.facebook.com/Caniff-Gift-Variety-32 8200970535589/

(14) AT&T Store

Address: 3496 E Jefferson, Suite A, Detroit, MI 48207

Phone: (313) 964-2000

Website: https://www.att.com/stores/michigan/detroit/120 999?source=E-lls1000000000L

16 D & D Fashions

Address: 9336 Joseph Campau St, Hamtramck, MI 48212

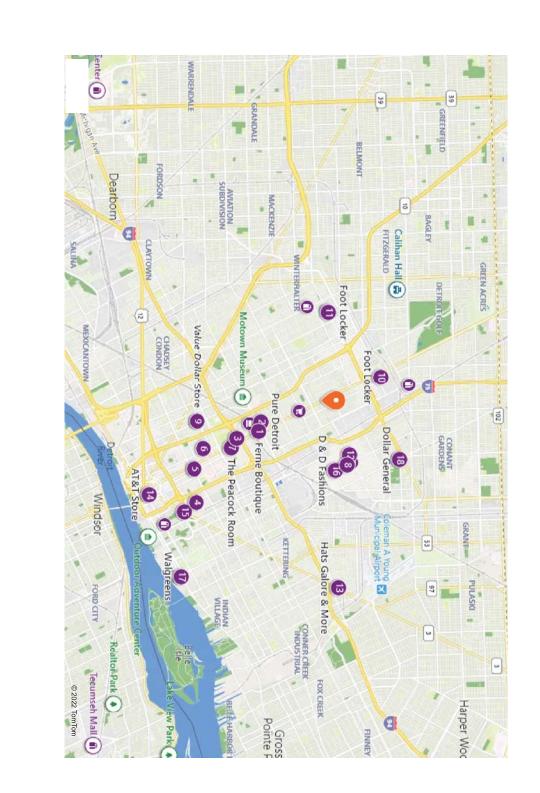
Phone: (313) 874-1218

(18) Dollar General

Address: 3812 E Davison St, Detroit, MI 48212

Phone: (313) 725-4605

Website: http://dollargeneral.com/



Rating

Hours

All filters

University Prep Art & Design: **Elementary School**

4.0

(28)

Elementary school · 10225 3rd Ave

Open · Closes 5PM · (313) 826-1159









Website Directions

Cortland Public School

· (313) 252-2037 Head start center · 138 Cortland St



Directions

Dwyer School

School No reviews



Directions

New Paradigm Loving Academy

(16)

Elementary school · 1000 Lynn St

· (313) 252-3028

Website



①

Directions

Northern Senior High School

3

High school



Directions

Ace Academy

High school · 330 Glendale Ave

· (313) 868-8300



Directions

Moore School

School No reviews

③

Directions

Highland Park Renaissance Academy

(13)

School · 45 E Buena Vista St

957-3005 Closes soon · 4PM · Opens 8:30AM Tue · (313)

Directions

③

Durfee Elementary-Middle School

(17)

Public educational institution · 2425

Tuxedo St

Closes soon · 4:23PM · Opens 7AM

Tue · (313) 252-3070









Directions

School **Dickinson West Elementary**

2.8

Elementary school · 2333 Burger St

Closed · Opens 12AM Thu · (313)

365-5861













Website





Detroit Public Schools

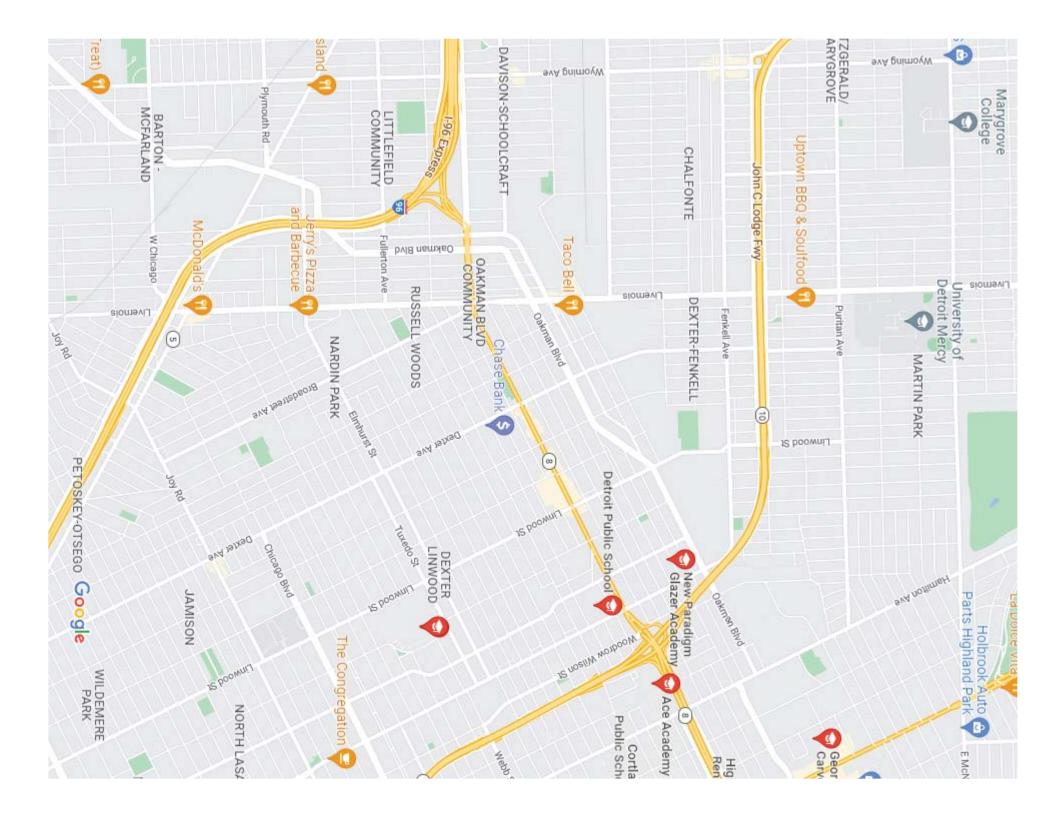
(24)



Directions

Showing results 1 - 20

Open · Closes 5PM · (313) 576-0100 High school \cdot 3011 E Grand Blvd



Attachment 19

Rating

Hours

莊 All filters

Hamtramck Family Healthcare

· 9740 Conant St APT 3

(313) 556-9900

0





Website

Directions

Health Care Medical Center

Medical clinic · 23700 Van Dyke Ave

· (586) 759-6300



Directions

US Healthcare Michigan

No reviews

Open now · (313) 784-9453 Home health care service · 1600 Antietam Ave

Directions

Total Health Care

Insurance agency · 3011 W Grand

Blvd #1600

Closes soon · 5PM · Opens 8AM Tue

(800) 826-2862

0



Directions

Website

Noble Home Health Care LLC

No reviews

Home health care service

Closes soon · 5PM · Opens 9AM Tue · (586)

224-7311



Directions

CARE LLC. - 24 Hour Home

Care

5.0

4

Website

Directions

0

③

Home health care service · 4020

Buena Vista St

Open · Closes 6PM · (313) 720-3021

Kings Home Health Care

No reviews

Home health care service · 675 Seward Ave Open now

Directions



United Home Health Care Inc

Open now · (248) 543-8900 Home health care service · 751 E 9 Mile Rd #2

Directions

Elsmar Home Health Care

5.0

Closes soon · 5PM · Opens 9AM Tue · (313) Home health care service · 2727 2nd Ave #156

961-5500



Directions

Group **Cardinal Home Healthcare**

No reviews

Home health care service · 3165

Oakman Blvd

Closes soon · 5PM · Opens 9AM Tue

(586) 203-8118







Directions

Website

Family First Home Health Care

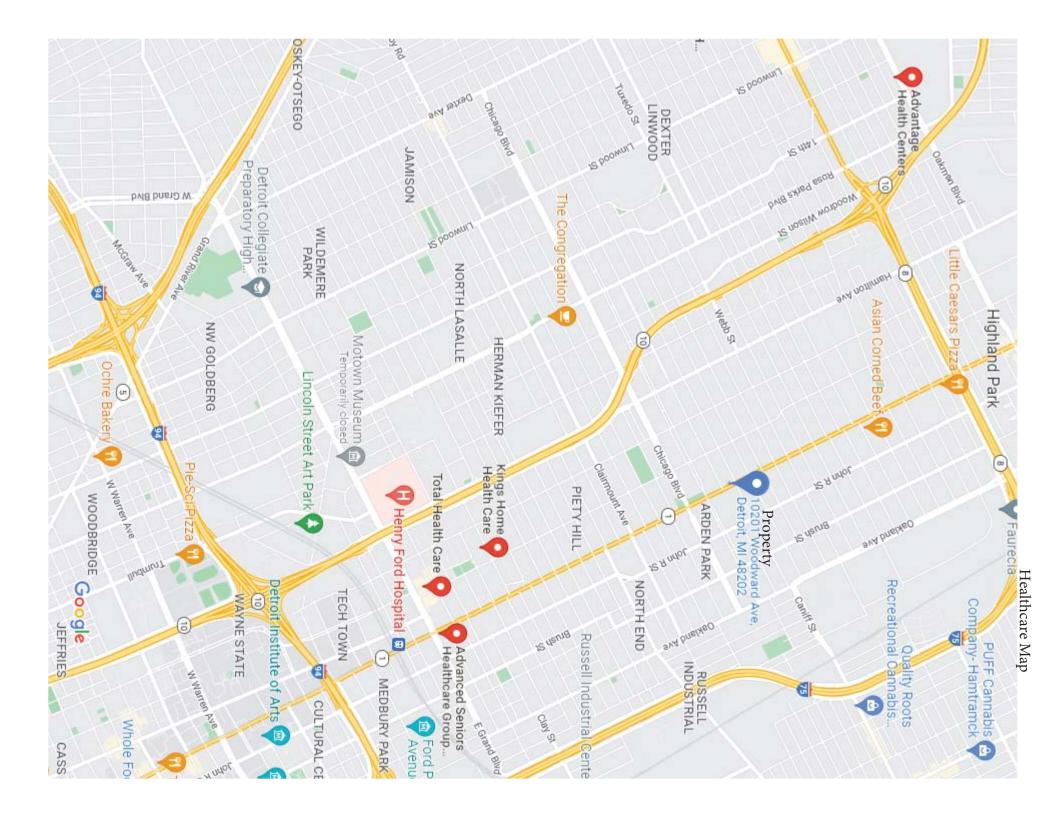
No reviews

Open now · (313) 922-8885 Home health care service · 6455 Gratiot Ave



Directions

Showing results 1 - 20



senior care

Θ **Detroit Care Assisted Living**

Address: 2329 W Grand Blvd, Detroit, MI 48208

Phone: (313) 818-0340

https://www.facebook.com/Detroit-Care-Assisted

-Living-1402812246711472/

ω Senior Care Connect

Address: 5146 Belmont Ave, Buffalo, NY 14201

Phone: (844) 514-3149

Website: http://www.seniorcareconnect.net/buffalo-new-y

(J Senior Health Center

Address: 4201 Saint Antoine St, Detroit, MI 48201

Phone: (313) 993-0639

0 Acti-Kare In Home Care of Livonia, MI

Address: Private Address in Detroit, MI

Phone: (313) 437-8749

Website: https://livonia.actikare.com/

0 **Dedicated Senior Medical Center**

Address: 1921 East 8 Mile Road, Warren, MI 48091

Phone: (586) 840-1333

Website: https://www.dedicated.care/detroit-coming-soon

Home Instead

Address: 20100 Mack Ave, Grosse Pointe Woods, M

48236

Phone: (313) 647-9682

Website: https://www.homeinstead.com/location/682?ut

m_source=bing&utm_medium=organic&utm_ca

mpaign=bmb

ⓓ **Visiting Angels**

Address: 11000 W McNichols Rd Ste 217, Detroit, MI 48221

Phone: (313) 272-8282

Website: http://www.visitingangels.com/detroit/home

(G) Michigan Senior Care

Address: 27136 Delton St, Madison Heights, MI 48071

Phone: (248) 207-6511

Website: https://seniorcaremichigan.com/location.html

Fairlane Senior Care & Rehab Center

Address: 15750 Joy Road, Detroit, MI 48228

Phone: (313) 273-6850

Website: https://nexcarehealth.com/search-locations/fairl

(v) St. Patrick Senior Center, Inc.

Address: 58 Parsons St, Detroit, MI 48201

Phone: (313) 833-7080

http://stpatsrctr.org/history0.aspx

4 **Medical Center Senior Village**

Address: 4701 Chrysler Dr, Detroit, MI 48201

Phone: (313) 833-2466

Website: https://www.facebook.com/Medical-Center-Seni

or-Village-265198475427/

6 Senior Care Connect

Address: 4378 Penn St, Detroit, MI 4820

Phone: (844) 514-3149

Website: http://www.seniorcareconnect.net/detroit-michig

an/

<u>@</u> For Senior Independence Center

Address: 250 Mcdougall St Ste 1000, Detroit, MI 48207

Phone: (313) 288-7223

Website: http://www.pacesemi.org/

a OakPointe Senior Care & Rehab Center

Address: 18901 Meyers Rd, Detroit, MI 48235

Phone: (313) 864-8481

Website: http://oakpointescr.com/

(7) Modern Care Homes LLC Assisted Living/Senior **Group Homes**

Address: 2785 E Grand Blvd, Detroit, MI 48211

Phone: (313) 952-9163

(Dedicated Senior Medical Center

Address: 13210 East Jefferson Avenue, Detroit, MI 48215

Phone: (313) 335-3444

Website: https://www.dedicated.care/find-a-location/det oit-michigan/detroit-east

6 Hope Senior Home Care

Address: 79 Kercheval Ave Ste 105, Grosse Pointe Farms,

Phone: (248) 686-3901

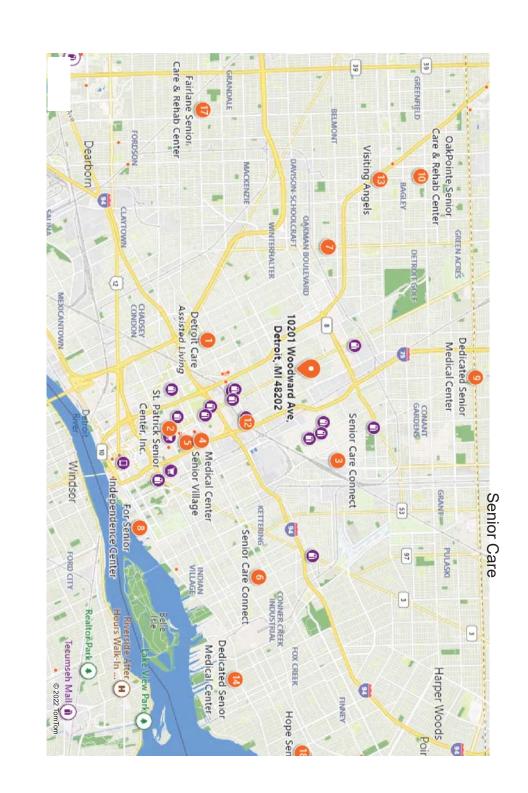
Website: https://hopeseniorhomecare.com/contact/

(a) **Hope Senior Care**

Address: 724 Notre Dame St, Grosse Pointe, MI 48230

Phone: (313) 881-3132

Website: http://hopeseniorhomecare.com/



Rating

Hours

라 All filters

Cass Community Social

Services

(101)

4.0

Social services organization · 11850

Woodrow Wilson St

Closed · Opens 9AM Tue · (313) 883-











Of Your Service." "... d Tell Any One About Your Program That's In Need

Harper House

No reviews

(313) 869-0101 Social services organization · 69 Burlingame St





Services - World Building Cass Community Social

(38)

Website

Directions

4.6

Non-profit organization · 11745 Rosa

Parks Blvd

Closes soon · 5PM · Opens 9AM Tue

· (313) 883-2277

0





Matrix Human Services **Youth Services**

4.2

Social services organization · 680

Virginia Park St

Closed · Opens 8AM Tue · (313) 873-

Services - Food Distribution Cass Community Social

Center

Website

Directions

0

③

4.0

Food bank · 11850 Woodrow Wilson

Open · Closes 6PM · (313) 883-2277

Services - Bath-Thomasson Cass Community Social







0

Directions

Website

Apartments

No reviews

Non-profit organization · 1534 Webb

(313) 883-2277







Directions

Website

Social Service Organization

No reviews

Social services organization · 12541 McDougall



(800) 936-1437

District Offices Social

Services

(148)

Social services organization · 5131

Grand River Ave

Closes soon · 5PM · Opens 8AM Tue

(313) 361-7300

"My service was quick."

①

Website

Directions





Children's Aid Society

Ave # 2700 Social services organization · 7375 Woodward

Closes soon · 5PM · Opens 9AM Tue · (313)

961-8100



Directions

Heidi House Inc

No reviews

Social services organization · 15811 Normandy

Directions

(313) 341-6055

Child & Family Services

Department

Website

Directions

Social services organization · 1801 E

Canfield St

Closes soon · 5PM · Opens 8AM Tue

(313) 578-5100

"Prompt service took a friend to pick up a clearance."



0

urgent care

Hamtramck Medical Urgent Care

Address: 9740 Conant St, Hamtramck, MI 48212

Phone: (313) 556-9900

Website: http://hamtramckmedicalurgentcare.com/locatio

n.html

3 Am Medical Center Urgent Care

Address: 13031 Conant St, Detroit, MI 48212

Phone: (313) 893-5493

Website: http://www.dmc.org/

S Vernor Urgent Care

Address: 3456 W Vernor Hwy, Detroit, MI 48216

Phone: (313) 254-9693

Website: http://www.vernorurgentcare.com/

Occentra Urgent Care

Address: 2630 East Jefferson Ave., Detroit, MI 48207

Phone: (313) 259-7990

Website: https://www.concentra.com/urgent-care-center s/michigan/detroit/downtown-detroit-urgent-car

m_campaign=LocalPage

e/?utm_source=Yext&utm_medium=Referral&ut

9 Detroit Urgent Care

Address: 13403 W 7 Mile Rd, Detroit, MI 48235

Phone: (313) 308-2444

Website: http://urgentcarelocations.org/

(1) Get Well Urgent Care of Madison Heights

Address: 350 E 12 Mile Rd, Madison Heights, MI 48071

Phone: (248) 716-8600

Website: https://getwellurgent.com/locations/madison-he

ights/

(13) HMC Urgent Care

Address: 7542 Wyoming St, Dearborn, MI 48126

Phone: (313) 415-1515

Website: http://hmcurgentcare.com/

15 Advanced Urgent Care

Address: 13510 Michigan Ave, Dearborn, MI 48126

Phone: (313) 582-0100

Website: https://www.urgentcaredearborn.com/

Beaumont Urgent Care - Downtown Royal Oak

(3)

Address: 309 E 11 Mile Rd, Royal Oak, MI 48067

Phone: (248) 965-8806

Vebsite: https://www.wellstreet.com/office-locations/beau

mont-downtown-royal-oak-urgent-care/?utm_so

urce=bing&utm_medium=yext

2 BMC Urgent Care-Mi

Address: 8282 Woodward Ave, Detroit, MI 48202

Phone: (313) 874-3440

Website: https://www.dmc.org/

4 Hazel Park Urgent Care

Address: 348 E 9 Mile Rd, Hazel Park, MI 48030

Phone: (248) 268-2566

Website: http://www.hazelparkurgentcare.com/

Neu Urgent Care

Address: 624 E 9 Mile Rd, Hazel Park, MI 48030

Phone: (248) 629-7497

Website: https://www.neuurgentcare.com/urgent-care

Michigan Urgent Care

Address: 641 W 9 Mile Rd, Ferndale, MI 48220

Phone: (248) 206-1600

Website: https://nextcare.com/locations/mi/ferndale/

(10) Sherwood Urgent Care

Address: 20176 Livernois Ave, Detroit, MI 48221

Phone: (313) 864-1600

Website: https://www.detroitsherwoodurgentcare.com/

(2) Conner Creek Urgent Care

Address: 4777 E Outer Dr, Detroit, MI 48234

Phone: (313) 369-5690

Website: http://urgentcarelocations.org/

(4) Hoover Urgent Care Of Warren

Address: 26000 Hoover Rd, Warren, MI 48089

Phone: (586) 722-0707

Website: http://www.hooverurgentcareofwarren.com/

16 Medpost Urgent Care

Address: Private Address in Grosse Pointe Woods, MI

Phone: (313) 264-0270

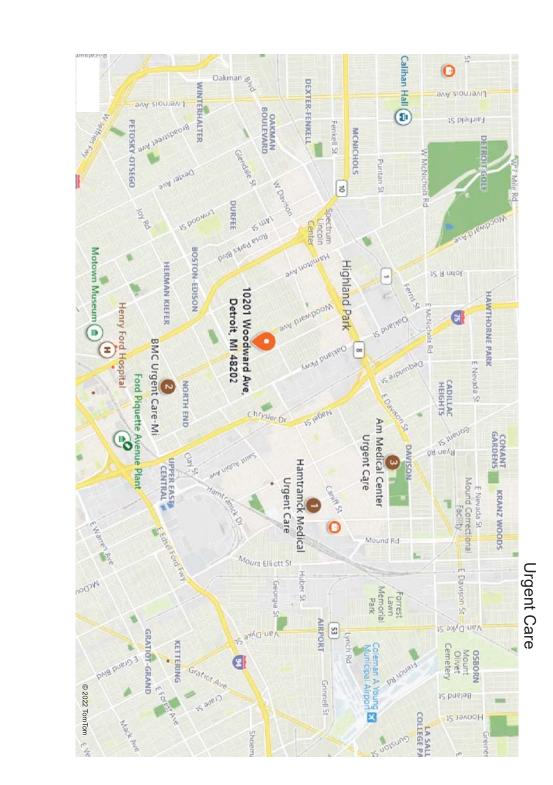
Website: https://www.carespot.com/medpost-urgent-care/grosse-pointe-mi/

Urgent Care Center Harper Hosp.

Address: 3990 John R St, Detroit, MI 48201

Phone: (313) 745-1465

Website: http://www.dmc.org/



Attachment 20

Rating

Hours

라 All filters

Removal Above All Rubbish & Trash

(24)

Waste management service · 8817

Lyndon St

Open 24 hours · (313) 207-1191

0









Website

Transfer Station Hamtramck Recycling and

0

③

Website

Directions

Recycling center · 3333 Hamtramck

Closes soon · 5PM · Opens 5AM

Tue · (313) 871-5000

"... and it always great service and speedy service"

Detroit Junk Busters

Cabot St Garbage collection service · 4300

Website

Directions

0

❖

Closes soon · 5PM · Opens 7AM

Tue · (313) 505-6611

dumpster." "The best service, provided prompt same delivery of

Junk Starz LLC

(85)

Garbage collection service · 3648 E

Website

Directions

0

③

9 Mile Rd

Open · Closes 6PM · (248) 845-

Onsite services not available

A & B Junk Removal

64)

Debris removal service · 1583

Franklin St

Open · Closes 7PM · (248) 800-

"... of the only responsive companies who would



0







remove yard waste."

Deerbrook Disposal LLC

Kenney Ave Waste management service · 2075

Open · Closes 6PM · (586) 303-

6669

Onsite services · Online estimates

0









Website

Motor City Disposal

(175)

Waste management service

16482 13 Mile Rd

Open · Closes 10PM · (586) 842-

"Would use services again in the future."



Website

Directions





Junk King Detroit Metro

Garbage collection service · 1260 Rankin Dr A

Open · Closes 10PM · (248) 216-

0655

Onsite services · Online estimates







Directions

Website

Runco Waste Industries

Garbage collection service · 21151

Website

Directions

Meyers Rd

Closes soon · 5PM · Opens 8AM

Tue · (248) 336-2333

0





ERG Environmental Services

(37)

Waste management service

Website

Directions

0

③

13040 Merriman Rd

Closes soon · 5PM · Opens 9AM

Tue · (734) 437-9650

Onsite services

Detroit Disposal & Recycling

Waste management service · 1475 E Milwaukee Ave

Closes soon · 5PM · Opens 7AM Tue · (313) 664-0200

Website



Directions



Showing results 1 - 20

-akman Blva Express Metro Load Runners ucharest Grill 🖣 Rd Schoolcraft McDonald's Outer Dr W CLAYTOWN Taco Bell 🕠 W Chicago Detroit Golf Club Detroit Junk Busters **FIAGLUOIS** сіошэлі. 7 Mile Fenkell Ave JOY RO SIOURNI Tireman Ave Ave Dexter Ave John Kronk St W Warren Ave Holbrook-Auto A 00 12 Taqueria Mi Pueblo 15 POOMUIT Pione Vi.J Palmer Park Tuxedo St. 151111 7 Mile and nothineH any uotiount (8) E Highland Park Claimnoum Ave 8 IS POOMUT Xochimilco Mercy School of Dentistry... University of Detroit 12 A mol Recycle Here! Fisher Building (8 8 12 anbrile 10201 Woodward Ave, Detroit, MI 48202 Dequindre St Property NORTH Outer Dr. E. IludmurT NORTH END WAYNE STATE Bagley St CORKTOWN (3) 12 A milot Detroit Detention Center (5) 2 Waste Services PUFF Cannabis Company- Hamtramck m Comerica Park Detroit Disposal 60 McNichols Rd (3) & Recycling 12 midus 12 Hamtramck Disneyland Seven Mile The Whitney gle 15 y uyor 15 liassun Hamtramck 85 Detroit River m Detroit Dequindre Cut EASTERN MARKET J Fons Co EQ Detroit Inc Caesars Winds 12 a fornupa o Chene Hamtramck Recycling and Forest Ave Joe Randa Vegetabl Solanus E Grand B Mt Elliott St Neva

Attachment 21



Water & Sewerage Department

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Tap Water Mineral Analysis19	
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NOTICE: The 2020 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 2020 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 2020 أن يقوم .شخص ما بترجمة هذا المستند لك إذا كنت غير قادر على قرأة التقرير

CITY OF DETROIT

Mike Duggan, Mayor

DETROIT CITY COUNCIL

Brenda Jones, President (citywide)

Mary Sheffield, President Pro-Tem (District 5)

Janeé Ayers (citywide)

James Tate (District 1)

Roy McCalister, Jr. (District 2)

Scott Benson (District 3)

André Spivey (District 4)

Raquel Castañeda-López (District 6)

Gabe Leland (District 7)

BOARD OF WATER COMMISSIONERS

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DETROIT WATER AND SEWERAGE DEPARTMENT

Gary A Brown, Director

Palencia Mobley, P.E., Deputy Director and Chief Engineer

247 HOW TO REPORT AN EMERGENCY

sex, age or disability in any of our services, programs or activities

The Detroit Water & Sewerage Department does not discriminate on the basis of race, color, national origin

To report emergencies, such as water main breaks, flooded streets, missing manhole covers, leaking or broken fire hydrants and water in basement, call DWSD at 313-267-8000. Mobile users may download the Improve Detroit app (SeeClickFix) for Apple and Android devices 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 first Wednesday of each month at 1 p.m. for committees and the third Wednesday of each month at 2 p.m. for the regular meeting at the Water Board Building, located at 735 Randolph Street, unless otherwise noticed. All meetings are open to the public, which at the time of printing this report continue to be virtual due to the COVID-19 Pandemic health orders and 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,

Detroit has some of the cleanest, best drinking water in the nation. As we continue to replace lead service lines for our customers, the Detroit Water and Sewerage Department (DWSD) is making improvements and adding value to customers' homes, as well as addressing the aging infrastructure throughout our city.

In this Water Quality Report, you will see the required lead in drinking water testing results were 9 parts per billion (ppb) measured in the 51 homes at the 90th percentile, well below the action level of 15 ppb set by the Environmental Protection Agency (EPA) and the Michigan Department of Environment, Great Lakes and Energy (EGLE). The action level will decrease to 12 ppb in 2025 under Michigan's revised Lead and Copper Rule. Per the 2018 revised rule, all water utilities are to test a sampling of homes and share the results annually.

If you have a lead service line and/or lead-based plumbing components, there are everyday steps you can take to help reduce the lead in your home. Read the tips on page 11.

The DWSD Lead Service Line Replacement Program, launched in 2018 as part of our Asset Management Program, has 100 percent compliance in homeowners/occupants, allowing our crews to replace the private portion when we are already on the street replacing the water main. Read about this program on page 10.

During the COVID-19 Pandemic, nearly 1,300 households had water restored after previously being interrupted for nonpayment and we have utilized nearly \$20 million of federal funding through the CARES Act to provide low-income Detroit households with water bill assistance – to help pay down their balances – and fix minor and major private plumbing issues. And, we are committed to not interrupt water service at residential households through 2022 while we work with our local, state and federal partners on a long-term affordability solution.

Together, let's be the difference.

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 2020 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).

Correction to the 2019 Detroit Water Quality Report: Required language was omitted from the 2019 Detroit Water Quality Report on page 11, which is as follows. "Infants and children who drink water containing lead could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

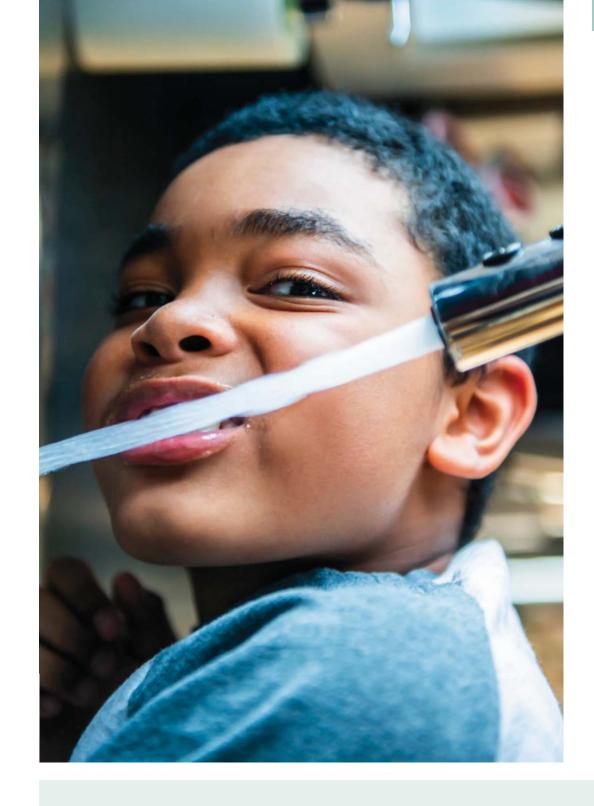
HOW WE PROVIDE WATER SERVICES TO YOU

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.



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 1-800-426-4791.

systems must provide treatment so that 99.9% life-threatening illness. Immuno-compromised difficulty and are at greater risk of developing severe organisms are dead or if they can cause disease. the Belle Isle Detroit River Intake serving Water were detected in the source (untreated) water at Giardia is removed or inactivated. other than drinking water. Surface water treatment to cause disease and may be passed through means infection. Cryptosporidium must be ingested for it regarding appropriate precautions to take to prevent individuals are encouraged to consult their doctor However, immuno-compromised people have more can overcome the disease within a few weeks. and abdominal cramps. Most healthy individuals Symptoms of infection include nausea, diarrhea, test methods do not enable us to determine if these presence of Cryptosporidium and Giardia. Current samples monitored in 2020 were absent the once in March and Giardia once in April. All other treatment plants. Cryptosporidium was detected Works Park, Springwells and the Northeast water 2020, the presence of Cryptosporidium and Giardia for the presence of Cryptosporidium and Giardia. In GLWA voluntarily monitored our source water

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 have a service line that is lead, galvanized previously connected to lead, or unknown but likely to be lead, it is recommended that you run your water for at least 5 minutes to flush water from both your home plumbing and the lead service line. 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 at 1-800-426-4791 or at http://water.epa.gov/drink/info/lead.

CUSTOMER AFFORDABILITY **PROGRAMS**

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 averaging \$1,500 for eligible households. You must be at or below 200% of the federal poverty level (\$52,400 maximum annual income for a family of four). Since WRAP was launched in 2016, more than 20,000 households have been assisted in Detroit.



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, dependent on the account status. 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.

CARES Act Funding

The Coronavirus Aid, Relief, and Economic Security Act (CARES Act), provided more than \$14 million in direct bill assistance to more than 40,000 qualifying DWSD residential accounts in October 2020. The relief went toward accounts that accrued past due balances during the pandemic.

DWSD assisted in Wayne Metro Community Action Agency's Emergency Plumbing Repair Program, which resulted in more than \$6 million toward lead service line replacement, sewer service replacement and other major plumbing repairs for 600 Detroit households.



To find additional affordability programs through DWSD's community partners, visit www.detroitmi.gov/water.

DWSD offers safe, 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 easy ways to access your account and pay your water bill, including using convenient, self-service options.

Due to the COVID-19 Pandemic, all three DWSD Customer Care Centers remain closed to protect the safety of our employees and customers. All transactions are now contactless. Customers with water or sewer bill inquires can email Customer Care at mydwsd@detroitmi.gov or call 313-267-8000.



Access your account and pay online at www 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 60 no-fee kiosks in and around Detroit and use cash, check or debit/credit card to pay your bill. Find your nearby kiosk at www.detroitmi.gov/DWSDkiosk.



Call our automated pay-by-phone system at 313-267-8000 and ask for current balance and due date.



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



WORKING HARD FOR YOU

Your water and sewer bill payments make it possible for us to keep the work going. Your continued payments make all the difference. Thanks to you, we can keep making critical improvements to upgrade our 100-year-old systems for all of us.

All across Detroit, DWSD employees — most of whom are Detroit residents — are working hard for you and your neighbors, even during the COVID-19 Pandemic.



In 2018, DWSD began replacing lead service lines with copper, with owner/occupant permission, while on the same street replacing the water main.

MICHIGAN'S REVISED **ND DETROIT'S TEST RESULTS**

Under Michigan's revised Lead and Copper Rule, DWSD lead and drinking water testing results have been 10 parts per billion (ppb) in 2019 and 9 ppb in 2020, which are both under the state action level for lead remediation.

Detroit has an estimated 77,197 lead service lines based on a total of 311,000 water service lines. There are 28,922 service lines with unknown pipe material. Since 2018, DWSD has replaced 1,155 lead service lines while on the same street replacing the water main.

All communities with lead service lines must sample tap water in homes with lead service lines as required by EGLE and the EPA. In the summer of 2020, DWSD collected water samples from 51 homes with lead service lines. The 90th percentile of samples was 9 ppb, which is under the action level of 15 ppb. DWSD's last report of 10 ppb in 2019 was with the same sampling methodology that was required by EGLE beginning in 2019. A water supply exceeds the action level if more than 10 percent of all samples is over the action level.

"We want to reassure Detroiters, especially during the COVID-19 Pandemic, the water supplied by DWSD is safe for drinking," said Gary Brown, DWSD director. "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 fixtures 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 at DWSD's cost with owner/occupant permission during water main replacement projects and providing pitcher filters to those residents and businesses as a precautionary measure. We have replaced more than 1,000 lead service lines since 2018, have 100% resident response rate for replacement when on the street replacing the water main, and our program was recently cited as a model for other communities in the Journal of the American Water Works Association."

The Chief Public Health Officer for the City of Detroit Denise Fair said, "I am pleased with the results of the lead and copper testing, which have followed stricter guidelines from the state. We know that the presence of lead in decaying paint and dust is the number one source of lead poisoning in children living in homes that were built before 1978. Therefore, we recommend that if you have any concerns regarding lead exposure inside your home – to request a lead test from your child's primary health care provider or contact the Detroit Health Department."

Testing Method The new Michigan Lead and Copper Rule

all Michigan communities. In the past, DWSD collected the way lead samples are collected at Detroit homes and range of lead in the drinking water in Detroit homes new sampling technique more accurately represents the family or duplex homes and some small businesses. The under two inches in diameter and are mostly at single lead, copper or galvanized steel. Lead service lines are home or business. In Detroit, most service lines are either water from the water main in the street to inside the service line. The service line is the pipe which brings fifth liter is more likely to represent water from the lead water from household plumbing and fixtures, and the first and fifth liter are collected. The first liter represents rule - used in testing in the past two years - both the only the first liter of water out of the tap. Under the new in June 2018 – the most stringent in the nation – changed The revised Michigan Lead and Copper Rule enacted

Lead in Drinking Water

stopped allowing the installation of lead piping for water the water mains to your tap. Beginning in 1945, Detroit lines and home plumbing as the water moves from water at the tap. other lead components, but lead can still be present in inhibitor to reduce leaching from lead service lines and provided to DWSD customers contains a corrosion break off into water and end up in tap water. The water lines, household plumbing and fixtures can dissolve or known as a lead service line. The lead in lead service a lead pipe that connects the home to the water main, service lines. Homes before 1945 are most likely to have can be released into drinking water from lead service operated by GLWA, does not contain lead, but lead The water leaving Detroit water treatment plants,





Health Effects of Lead

at 313-876-0133. exposure, please contact the Detroit Health Department and soil. If you have questions about other sources of lead have many sources of lead exposure including paint, dust young children, and pregnant women. Older homes can problems. The greatest risk of lead exposure is to infants, Lead can cause serious health and development

Sources of Lead

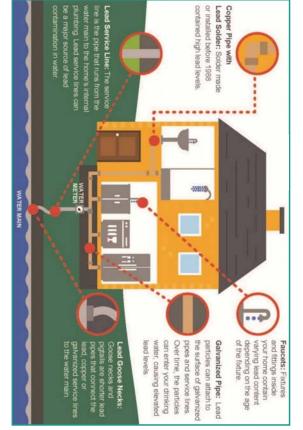
Drinking water is only one source of lead exposure. Some of the most significant sources, especially for children six years old and under, include lead-based paint and lead contaminated dust and soil. Because lead can be carried on hands, clothing, and shoes, sources of exposure to lead can include the 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, fixtures, and plumbing materials manufactured before 2014 contain up to 8% lead. The infographic (see graphic) demonstra

lead. The infographic (see graphic) 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.

Lead Service Line Replacement Program

excavating around the stop box during scheduled water stop box to inside the house (see page 5). Therefore information packets, to the owner/occupant is done outreach, including neighborhood meetings and main replacement. With owner/occupant permission, visually verifying service line material at each house by lead service lines when its crews encounter them after owner is responsible for the service line from the on/off valve typically in the front yard). The property service line from the water main to the stop box (turnprior to construction. The City owns the portion of the the same street replacing the water main. Extensive as part of its asset management program when on expense through its Capital Improvement Program. the lead service line is replaced with copper at DWSD's DWSD gets owner/occupant permission to replace Copper Rule, DWSD began replacing lead service lines In 2018, prior to the revised Michigan Lead and



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

A white paper on DWSD's Lead Service Line Replacement Program was in the October 2020 issue of the Journal of the American Water Works Association, titled "Detroit's Robust Full Lead Service Line Replacement Program," as a best practice for other water utilities in America.

DWSD Deputy Director and Chief Engineer Palencia Mobley, P.E., said, "The most effective and cost efficient method for replacing lead service lines is when we already have crews on the street replacing a water main. Our program uses mapping technology to track service line material and indicate the date of replacement if in fact we confirmed the service line is lead through the exploratory digging. Due to DWSD's extensive community outreach on this program, done in advance of the project, we have a 100% resident response rate when we offer to replace their portion of a lead service line while replacing the water main on their block."

Source: EPA

or visit EGLE's website at www.michigan.gov/MILeadSafe Drinking Water," can be found on the City of Detroit's website at www.detroitmi.gov/leadsafe Additional information regarding lead, including "Frequently Asked Questions about Lead in

Steps You Can Take to Reduce Your Exposure to Lead in Your Water

time water has been sitting in your home's Run your water to flush out lead. The more pipes, the more lead it may contain. Therefore,

the interior building plumbing and the lead service line water for at least five minutes to flush water from both temperature. If you do have a lead service line, run the minutes, or until it becomes cold or reaches a steady a lead service line, run the water for 30 seconds to two lead-containing water from the pipes. If you do not have water before using it for drinking or cooking. This flushes if your water has not been used for several hours, run the

and replace the filter device in accordance with the Sheet included with the device. Be sure to maintain mention lead reduction, check the Performance Data faucet-mount systems. If the label does not specifically Some filter options include a pour-through pitcher or and certified to NSF/ANSI Standard 53 for lead reduction from their drinking water. Look for filters that are tested pregnant woman use a certified lead filter to reduce lead drinking water. The Detroit Health Department Consider using a filter to reduce lead in recommends that any household with a child or

not water directly from the tap.

should be removed monthly to rinse out any debris. at the end of your faucet. It catches debris. This Clean your aerators. The aerator is the screen debris could include particulate lead. The aerator

manufacturer's instructions to protect water quality.

that are certified to meet NSF standard 61. plumbing materials, it is important to look for materials contain up to 0.25 percent lead. When purchasing new a more restrictive "lead-free" definition but may still valves sold after January 2014 are required to meet lead, even if marked "lead-free." Faucets, fittings, and Identify older plumbing fixtures that likely sold before 2014 may contain higher levels of contain lead. Older faucets, fittings, and valves



more easily into hot water. from the hot water tap; lead dissolves cooking. Do not cook with or drink water Use only cold water for drinking and



for preparing baby formula Use only filtered water or bottled water

service lines should only boil filtered water drinking and brushing your teeth. Residents with lead will be advised to boil water before using for cooking, break), water users in the designated advisory area water pressure (such as caused by a large water main DWSD issues a boil water advisory due to low water will not reduce lead levels. In the event Do not boil water to remove lead. Boiling



about exposure. get your child tested for lead if you are concerned Get your child tested. Contact the Detroit healthcare provider to find out how you can Health Department at 313-876-0133 or your

service line replacements. This information helps DWSD plan for future lead submitting the form at www.detroitmi.gov/dwsd you have a lead service line let us know Verify your lead service line. If you know by following the online instructions



Internet access, please call the Detroit Lead Safe and copper sample request form." If you do not have Resource Line at 313-964-9300. your water to be tested, please visit www. Test your water for lead. To request for detroitmi.gov/leadsafe and search "lead

www.michigan.gov/MILeadSafe can be found on the City of Detroit's website at www.detroitmi.gov/leadsafe or visit EGLE's website at Additional information regarding lead, including "Frequently Asked Questions about Lead in Drinking Water,"



mental development. Children could show slight deficits in attention span and learning abilities Infants and children who drink water containing lead could experience delays in their physical or Adults who drink this water over many years could develop kidney problems or high blood pressure



IMPROVING STORMWATER MANAGEMEN

DWSD is now managing 61 million gallons of stormwater annually through 16 GSI projects.

Community Input Led to Beautiful Medians that Manage Stormwater on Oakman Boulevard

Back in 2017, DWSD began hosting meetings with the Aviation Sub, sharing design options for the Green Stormwater Infrastructure (GSI) in the medians along Oakman Boulevard between Joy Road and Tireman Avenue. Residents in the community provided feedback on trees, plantings, and other features during these meetings. They also considered passive versus active, park like settings. The final design included their input of a passive setting. A final pre-construction meeting was held in 2020 before the COVID-19 Pandemic at Rippling Hope to share the project plans and timeline with the community, and it included the primary construction contractor, Detroit-based and minority-owned Blaze Contracting.

During the official project announcement in 2020, Mayor Mike Duggan praised the DWSD Oakman Boulevard project as an example of, "Detroiters rebuilding Detroit," with the announcement of Detroit-based Blaze Contracting as the primary contractor for the project.

Oakman Boulevard GSI Overview

The \$8.6 million Oakman Boulevard construction project is the city's largest investment to date in GSI.

The most common method to improve stormwater management is through GSI practices. 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.

During construction, DWSD's contractor converted 10 medians into bioretention gardens, including the median shown above on Oakman Boulevard south of Mackenzie. Those gardens will manage an estimated 37 million gallons of stormwater annually, and reduce the flow into our combined sewer system.

"Even after the delayed start due to COVID-19 stayat-home orders, Blaze and its subcontractors were able to complete major construction by the end of 2020. And, they did so with 48 Detroit residents working on the project. This historic Detroit neighborhood will see the beauty these gardens bring while benefiting mostly from reduced street flooding," said Palencia Mobley, P.E., DWSD Deputy Director & Chief Engineer.

Visit **www.detroitstormwater.org** to see both the public and private GSI projects in Detroit.

DWSD'S GOALS

DWSD's goal is to improve service delivery and quality of life by:

- Reducing water main breaks;
- Reducing street flooding and sewer system failures;
- Reducing future investment in new CSO facilities (wet weather treatment);
- Increasing acres managed by green stormwater infrastructure;

- Coordinating with other public and private agencies to maximize dollars invested and minimize disruption from construction activity;
- Increasing job opportunities for Detroiters; and
- Upgrading and maintaining facilities, equipment and systems for effective operations.

UPGRADING DETROIT'S WATER

DWSD is in its second year of its \$500 million Capital Improvement Program (CIP) to begin to upgrade the city's aging water infrastructure by replacing water mains, lead service lines and fire hydrants, relining sewer pipes, and installing green stormwater infrastructure. In 2018, DWSD began assessing water and sewer systems by neighborhood using condition assessments, rather than by the number of water main breaks and basement backups to avoid taking a scattered approach.

Since 2019 through the CIP, DWSD has replaced 66 miles of water main, upgraded 50 miles of sewer piping, replace more than 1,155 lead service lines and installed 11 bioretention gardens.

Despite the pause in construction due to Governor Gretchen Whitmer's COVID-19 Stay Home, Stay Safe Order, DWSD CIP projects have stayed on schedule. The Oakman Boulevard Stormwater and Water

System Upgrade Project was mostly completed in November 2020. This \$8.6 million project transformed 10 medians into bioretention to manage 37 million gallons of stormwater annually (see Stormwater article on page 12).

The \$44.3 million invested into Cornerstone Village and North Rosedale Park, the first two neighborhoods under the new approach, is on track to finish in December 2022.

Since 2019, DWSD has assessed the water and sewer systems in more than 20 neighborhoods, resulting in water and sewer upgrades in neighborhoods such as the North End. In 2021, DWSD will complete an additional 225 miles of water main condition assessment work across 39 neighborhoods to test hydrant flow, leak detection and more to identify neighborhoods in need of water main upgrades.





These photographs were taken prior to the COVID-19 outbreak

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 can pick up 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 byproducts 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 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

susceptibility rating is based on a seven-tiered scale with the U.S. Geological Survey, the Detroit Water and and parts of the Thames River, Little River, Turkey Creek situated within the Lake St. Clair, Clinton River, Detroit water standards provided satisfactory treatment and meet drinking draw water from the Detroit River have historically treatment plants that service the city of Detroit and potential contamination. However, all four GLWA water GLWA's Detroit river intakes as highly susceptible to potential contaminant sources. The report described primarily using geologic sensitivity, water chemistry, and and ranges from very low to very high determined River source water for potential contamination. The 2004 to determine the susceptibility of GLWA's Detroit Institute performed a source water assessment in Sewerage Department, and the Michigan Public Health Department of Environmental Quality in partnership and Sydenham watersheds in Canada. The Michigan River, Rouge River, Ecorse River, watersheds in the U.S. Your source water comes from the Detroit River,

information about the Source Water Assessment by September 2021. If you would like to know more of updating the plans which should be completed public education activities. GLWA is in the process of new water sources, public participation, and approaches for protection, contingency plans, siting potential sources of contamination, management a source water protection areas, identification of units and water supply agencies, delineation of elements that include: roles and duties of government and Fighting island intakes. The plan has seven Water Intake Protection plan for the Belle Isle intake Great Lakes and Energy approved the GLWA's Surface 2016, the Michigan Department of Environmental, has an emergency response management plan. In Elimination System permit discharge program and participates in the National Pollutant Discharge response, and a mercury reduction program. GLWA activities that include chemical containment, spill report please, contact GLWA at 313-926-8102 GLWA has initiated source-water protection

MHILL	MCLG	SMCL	MCL	LRAA	HAA5	AL	ppm	N D	N/A	v
Total Trihalomethanes Total Trihalomethanes is the sum of chloroform, dibromochloromethane, bromodichloromethane and bromoform. Compliance is based on the total.	Maximum Contaminant Level Goal The level of contaminant in drinking water below which there is no known or expected risk to health.	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 therby affect public confidence or acceptance of the drinking water.	Maximum Contaminant Level The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLS as feasible using the best available treatment technology.	Locational Running Annual Average The average of analytical results for samples at a particular monitoring location during the previous four quarters.	Haloacetic Acids HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichloroacetic, and trichloroacetic acids. Compliance is based on the total.	Action Level The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.	Parts Per Million (one in a million) The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.	Not Detected	Not Applicable	Greater Than
Level 2	Level 1	MRDLG	MRDL	7	RAA	റ്	ppb	pCi/L	UTN	µmhos
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. coll MCL violation occured and/or why total coliform bacteria have been found in our water system on multiple occasions.	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.	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.	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.	Treatment Technique A required process intended to reduce the level of a contaminant in drinking water.	Running Annual Average The average of all analytical results for all samples during the previous four quarters.	Celsius A scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.	Parts Per Billion (one in a billion) The ppb is equivalent to micrograms per liter. A microgram = 1/1000 gram.	Picocuries Per Liter Measure of radioactivity.	Nephelometric Turbidity Units Measure of cloudiness of water.	Micromhos Measure of electrical conductance of water.

REGULATED CONTAMINANTS

Inorganic Chemicals Monitoring at Plant Finished Tap Regulated Test Contaminant Date	als nt Finishe Test Date	ed Tap Unit	Health Goal MCLG	Allowed Level MCL	Highest Level Detected	Range of Detection	Violation	Violation Major Sources in Drinking Water
Fluoride	3/10/20 ppm	mqq	4	4	0.80	0.63-0.80	no	Erosion of natural deposit; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate	3/10/20 ppm	ppm	10	10	0.61	0.36-0.61	no	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium	5/16/17 ppm	mqq	2	2	0.01	0.01-0.01	no	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

Total Chlorine Residual	Regulated Contaminant	Disinfection Residual Monitoring in the Detroit Distribution System
2020 ppm	Test Date	al etroit I
ppm	Unit	Distrib
4	Health Allowed Goal Level MRDLG MRDL	ution Sy
4	Allowed Level MRDL	stem
0.77	Highest Level RAA	
0.49-0.87	Range of Quarterly Results	
no	Violation	
Water additive used to control microbes	Violation Major Sources in Drinking Water	

Disinfection By-Products Stage 2 Disinfection By-Products Monitoring in the Distribution System	ducts	oduct	s Monit	oring in th	ne Distribu	ıtion Syster	3	
Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level LRAA	Range of Quarterly Results	Violation	Violation Major Sources in Drinking Water
(TTHM) Total Trihalomethanes	2020	2020 ppb n/a	n/a	80	29.0	12.0-39.0	no	By-product of drinking water chlorination
(HAA5) Haloacetic Acids	2020	ddd	n/a	60	19.0	7.4-29.0	no	By-product of drinking water chlorination

Bromate 20	Regulated Test Contaminant Date	Disinfectant By-Product Monitoring at the Waterworks Park Plant Finished Tap
2020 ppb		erwo
ррь	Unit	rks P
0	Health Goal MCLG	ark Plar
10	Allowed Level MCL	nt Finish
Z D	Highest Level RAA	ed Tap
ND-ND	Range of Quarterly Results	
no	Violation N	
By-product of drinking water ozonation	Major Sources in Drinking Water	

Turbidity Monitored Every 4 Hrs at the Plant Finished Water Tap

0.21 NTU	Cannot Exceed 1 NTU Turbidity Limit of 0.3 N	Highest Single Measurement Lowest Monthly %
100%	3 NT∪ (minimum 95%)	of Samples Meeting
no	VIOIACIOI I	\iolation
Soil runoff	iviajor socices in Dilliking vvater	Apior Collispos in Dripking Mator

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 Monitorin	oring					
Contaminant	Test Date	Unit	MCLG	MCL	Highest Level Detected Source of Contaminan	Source of Contaminant
Sodium	3/10/20	3/10/20 ppm	n/a	n/a	6.81	Erosion of natural deposits

Lead and Copper Monitoring at the Consumer's Tap in 2020	opper Numer's	fonito Tap in	ring 2020				Data	reported in thon the testing	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 Range of Sites Over Individua AL Samples	Range of Individual Samples	Violation	Range of Individual Violation Major Sources in Drinking Water Samples
Lead	2020	2020 ppb 0	0	15	9	2	0-32	no	Lead services lines, corrosion of household plumbing including fittings and fixtures; erosion of natural deposits
Copper	2020	2020 ppm	1.3	1.3	0.1	0	0.0-0.2	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.

Total Organic Carbon ppm	Regulated Contaminant
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.	Treatment Technique
Erosion of natural deposits	Typical Source of Contaminant

Radionuclides Monitored at the Plant Finished Tap in 2014

GLWA conducts tests throughout the year. Tests that show the presence of a substance or require special monitoring are presented in these tables. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old.

UNREGULATED CONTAMIN

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.

By-product of drinking water chlorination	n/a	2.22-11.34	11.34	n/a	ppb	2019	Haloacetic Acid Brominated 6 (HAA6BR)
By-product of drinking water chlorination	no	4.5-22.5	22.5	60	ppb	2019	Haloacetic Acid 5 (HAA5)
By-product of drinking water chlorination	n/a	6.72-31.41	31.41	n/a	ppb	2019	Haloacetic Acid 9 (HAA9)
Major Sources in Drinking Water	Violation	Range of Detection	Highest Level Detected	Allowed Level MCL	Unit	Test Date	Unregulated Contaminant
		etic Acids	∍m Haloac	inants ion Systo	ontam stribut	ated Co	2019 Unregulated Contaminants Monitored in the Distribution System Haloacetic Acids
color; black Erosion of natural deposits netallic taste and corrosion of iron pipes	black to brown color; black staining; bitter metallic taste	0.0-0.48 _s	50	0.48	dqq	2019	Manganese
ects Above Source of Contaminant	Noticeable Effects Above the SMCL	Range of Detection	SMCL	Highest Level Detected	Unit	Test Date	Unregulated Contaminant
			ps	inants iished Ta	ontam ant Fir	ated Co	2019 Unregulated Contaminants Monitored at the Plant Finished Taps
Erosion of natural deposits	n/a n/a	n/a	ND-0.53	0.20	ppb	2015	Vanadium
Discharge from steel and pulp mills; Erosion of natural deposits	n/a n/a	n/a	0.086-0.18	O.II	ppb	2015	Chromium +6
Discharge from steel and pulp mills; Erosion of natural deposits	100 100	n/a	ND-0.45	0.21	ppb	2015	Total Chromium
Erosion of natural deposits	n/a n/a	4000	102-124	109	ppb	2015	Strontium
Source of Contaminant	MCLG MCL	Health Advisory	Range of Detection	Average Level Detected	Unit	Test Date	Unregulated Contaminant
			Ä	inants ion Syste	ontam stribut	ated Co	2015 Unregulated Contaminants Monitored in the Distribution System
Erosion of natural deposits	n/a n/a	n/a	ND-0.66	0.21	ppb	2015	Vanadium
Discharge from steel and pulp mills; Erosion of natural deposits	n/a n/a	n/a	0.082-0.24	0.13	ppb	2015	Chromium +6
Discharge from steel and pulp mills; Erosion of natural deposits	100 100	n/a	0.21-0.42	0.28	ppb	2015	Total Chromium
Erosion of natural deposits	n/a n/a	4000	98.7-124	106	ppb	2015	Strontium
Source of Contaminant	MCLG MCL	Health Advisory	Range of Detection	Average Level Detected	Unit	Test Date	Unregulated Contaminant
			ps	inants ished Ta	ontam ant Fir	ated Co	2015 Unregulated Contaminants Monitored at the Plant Finished Taps

TAP WATER MINERAL ANALYS

25.1	14.5	43.0	ppm	Sulfate
2.3	Z D	19.5	ppm	Silica
N D	Z D	N D	ppm	Zinc
N D	Z D	N D	ppm	Lead
N D	Z D	N D	ppm	Manganese
1.00	0.89	1.31	ppm	Potassium
5.14	4.43	7.78	ppm	Sodium
27.6	23.5	34.8	ppm	Calcium
7.40	5.93	8.36	ppm	Magnesium
0.000	Z D	0.012	ppm	Copper
0.112	Z D	0.183	ppm	Iron
0.071	0.014	0.197	ppm	Aluminum
123	77	162	ppm	Total Dissolved Solids
137	46	177	ppm	Total Solids
0.11	0.03	0.70	NTU	Turbidity
Avg.	Min.	Max.	Units	Parameter

Parameter	Units	Max.	<u>X</u>	Avg.
Phosphorus	ppm	1.40	0.11	0.51
Free Carbon Dioxide	ppm	16.7	5.7	8.0
Total Hardness	mdd	118	95	103
Total Alkalinity	mdd	80	66	72
Carbonate Alkalinity	mdd	N D	N D	N D
Bi-Carbonate Alkalinity	mdd	80	66	72
Non-Carbonate Hardness	ppm	40	22	30
Chemical Oxygen Demand	ppm	13.5	N D	2.4
Dissolved Oxygen	ppm	17.0	7.8	נוו
Chloride	ppm	13.9	8.1	9.6
Nitrate Nitrogen	ppm	ND	N D	ND
Fluoride	ppm	0.81	0.49	0.65
рН		7.41	6.97	7.26
Specific Conductance @ 25 °C	hmhos	274	195	224
Temperature	റ്	25.8	1.8	13.7

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.

DID YOU KNOW?

Did you know the water service line connects your house to the water main?

The water main that brings treated drinking water to your neighborhood is either under the street or located under the right-of-way (berm) between the sidewalk and the street. Homes and businesses are connected to the water main by a service line. DWSD is responsible for the portion from the water main to the stop box (turn-on/off valve) in the front of the house or business. Property owners are responsible for the service line from the stop box to the water meter. DWSD is in the process of replacing lead service lines while on the street replacing the water main. Go to www.detroitmi.gov/dwsd and click on "Lead Service Line Verification" to verify if you have a lead service line.

Did you know property owners are responsible for the sewer service pipe from the point at which it leaves the house (beneath the basement) and connects to the City sewer?

Most of the City's sewer pipes are located in the rear of the property; a few are located in the street. Sewers are typically in the alley or the easement in your backyard. The property owner is responsible for the sewer pipe from the drain inside the house or structure to the connection at the City's sewer collection pipe, even if it's past the property line. DWSD is responsible for the collection pipe that runs in the alley or street, serving each customer. DWSD recommends residents, especially those with trees in the backyard, hire a licensed plumber every spring to have the sewer line snaked all the way to the connection of the City sewer. Roots and other debris can clog the sewer line and cause basement backups.



This report is available on the City of Detroit website at detroitmi.gov/2020waterqualityreport

We welcome your comments and opinions about this report. Please direct your comments or questions to the DWSD Public Affairs Group.



Water & Sewerage Department



STORMWATER MANAGEMENT PLAN

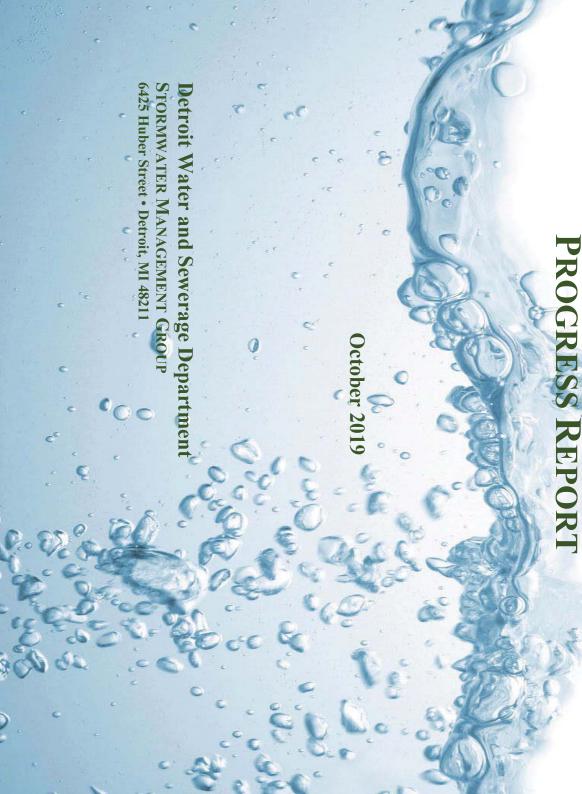


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Tables

Figure 14: R10A-new OUTFALL. Figure 15: R14, R14A OUTFALLS. Figure 16: R16 OUTFALL. Figure 17: R17 OUTFALL. Figure 18: R18A-new, R18 OUTFALLS. Figure 19: R22, R23 OUTFALLS. Figure 20: R29 OUTFALL. Figure 21: R35 OUTFALL.		Municipal Separate Storm Sewer System (Ms4)	Table 1: Estimated Drainage Area For Known Stormwater Outfalls City Of Detroit
18 19 20 21 22 23 24	11 10 11 11 12 4, D new-5, D new-6, D new-7, D new-8 D new-13 OUTFALLS	s4)	mwater Outfalls City Of Detroit

Appendices

- C. B. A Certificate of Coverage (11/5/04) and Stormwater Discharge Permit (2/23/03)
 - Withdrawal Notice from EGLE for 2008 General Permit (Nov. 30, 2010)
- **DWSD** Enforcement Response Procedure
- E.D. MS4 Catch Basin Spreadsheet
- Ordinance Stormwater Management Regulations - Post-Construction Stormwater Management
- Excerpt of City Code Regarding Authority to Prohibit Discharges to the Storm System
- DWSD IDEP MS4 Support, SWMP MS4 Outfall Investigation Report, May 2018
- Street Sweeping Schedule
- F. G. H. H. J. Wayne County Illicit Discharge Investigation Training Program
 The City of Detroit Water and Sewerage Department Stormwater Management Design
- Communications with EGLE
- L' 'Y Previous Submittal Addressing City's Legal Authority

1.0 INTRODUCTION

1.1 Purpose

SWMPP which was prepared in December 2017, and is submitted to comply with the requirements of the NPDES permit dated February 25, 2003 which is currently in effect. Separate Storm Sewer System NPDES permit issued to the City of Detroit for the stormwater discharged from the Municipal This Stormwater Management Plan (SWMP) has been prepared to fulfill the requirements of the (MS4). This document updates and supersedes the

1.2 Regulatory Requirements

The City of Detroit's stormwater discharges are currently regulated by the general stormwater discharge permit issued on February 25, 2003 to individual municipalities (the "jurisdictional" general stormwater permit, MIS049000). There are no nested jurisdictions in the City of Detroit.

MEP requirement must be met by implementing Best Management Practices (BMPs) to address the discharge of pollutants from the drainage system to the Maximum Extent Practicable. The the six "minimum measures" including: The permit specifies that permittees are to develop, implement, and enforce a SWMP to reduce

- 1. Public Involvement/Participation Program
- 2. Public Education Program (PEP)
- 3. Illicit Discharge Elimination Program (IDEP)
- 4. Post-Construction Stormwater Runoff Program
- 5. Pollution Prevention and Good Housekeeping Program
- Construction Stormwater Runoff Control

1.3 Affected City Departments

coordinating the efforts to be undertaken to comply with the NPDES permit and the Certification Services Department; the Planning and Development Department; the Department of Public of Coverage (COC) issued by EGLE. Other participating city agencies include the General been actively involved in the development and implementation of the SWMP, with the Detroit responsibility of a single municipal department or agency. Rather, several City departments have Resource Recovery Authority; and, the Law Department. Water and Sewerage Department (DWSD) serving as the lead agency with the responsibility of Discharges from municipally-owned storm sewers within the City of Detroit are not the Works; the Buildings, Safety Engineering and Environmental Department; the Greater Detroit

1.4 Summary of Prior Submittals

separated storm sewer system (MS4) outfalls. The drainage area for each outfall was reviewed underdrains or bridge foundation drains rather than storm sewers (see August 13, 2009 letter in by field investigation which determined that 16 of the small outfalls were actually roadway Appendix K), leaving a total of 32 MS4 outfalls. The City of Detroit filed an application dated July 17, 2008 requesting coverage under EGLE's Stormwater Jurisdictional Permit, and the submittal included a list of 48 municipal

Subsequently, one new storm sewer with an outlet to the Rouge River was constructed by the Department of Public Works before 2013 at Ridge Road, south of McNichols, to handle roadway drainage. This resulted in a total of 33 MS4 outfalls.

updated inventory of municipal storm sewers is discussed in more detail in Section 2.2 of this outfalls found in 2010 could not be located or were determined not functional in 2018. The MS4 outfalls to the Detroit River and its tributaries, and 12 MS4 outfalls to the Rouge River. The comprehensive 2018 investigation of the City's MS4 identified 34 MS4 outfalls including 22 In May 2018, the City surveyed each MS4 outfall previously investigated in 2010. Several of the

letter dated May 4, 2009 (see Appendix K) in response to new requirements imposed by the withdrawal of the 2008 Permit. 2008 revised General Permit. Those requirements have since been eliminated due to EGLE's The City submitted an alternate approach for managing post-construction storm water runoff in a

original permit application, and submitted the updated application on August 29, 2019. Separate Storm Sewer System on April 1, 2016. After review by EGLE, DWSD made edits to the Permit Application for Discharge of Stormwater to Surface Waters of the State from a Municipal Under the General Permit No. MIS040000 Certification of Coverage, the City also submitted the

supplemental information to EGLE regarding the City's legal authority to perform tasks which transmitted to EGLE in a letter dated April 27, 2005 (see Appendix L). may need to be undertaken as part of the stormwater management effort. This information was Shortly after the issuance of Detroit's first stormwater discharge permit, the City also submitted

authority to prohibit discharges into the storm drainage system. Copies of the applicable regulations are included in Appendix F. As part of the April 2007 SWMPP, the City included documentation that the City has the legal

DETROIT'S EXISITING STORMWATER CONVEYANCE SYSTEM

Stormwater Conveyed through Combined Sewers

combined sewer system which uses a single pipe to convey sanitary waste from residences, The vast majority of stormwater runoff within the City of Detroit is conveyed through the City's

miles. The combined sewers convey all dry weather flow, and a large portion of the wet weather flow to the GLWA Water Resource Recovery Facility (WRRF) at 9300 W. Jefferson in accordance with NPDES permit MI0022802. nearly the entire population of the City of Detroit, with a service area estimated at 139 square industries and businesses, along with stormwater drainage. The combined sewer system services

sewers reconnect to the combined sewer system at a downstream point, and do not discharge storm sewers have been constructed and are utilized to convey stormwater. However, these storm authorized by NPDES Permit MI0022802. system, and the resulting discharges of combined sewage through the permitted CSO outfalls are directly to receiving waters. As such, they are an integral part of the City's combined sewer Within the combined sewer system service area, there are several small tracts where separate

Stormwater Infrastructure at the Upper Rouge Tributary (URT) to reduce the stormwater runoff from the combined sewer overflow (CSO) system. The Green Stormwater Infrastructure program was introduced to remove a portion of the city's contributing untreated CSO volume from the combined sewer overflow (CSO) system. within the URT area as an economical alternative to the terminated Upper Rouge Tunnel project. The City's CSO permit also stipulates that DWSD shall implement a program to construct Green

2.2 Municipally-Owned Separate Storm Sewers

comprehensive investigation of the City's MS4 system has identified 34 MS4 outfalls, including or from bridges over river crossings. 85 residential homes are included in the MS4 area. A These storm sewer discharges are shown in Table 1. 22 MS4 outfalls to the Detroit River and its tributaries, and 12 MS4 outfalls to the Rouge River. frontage, and a small amount of roadway drainage from city streets adjacent to the Rouge River Detroit's MS4 has a very limited service area consisting primarily of parkland with river

that area, portions of three other small parks, plus a few roadways adjacent to the Rouge River. on Figures 1 - 21. As shown, these storm sewers serve an area which includes portions of Belle Isle and the roads around the island, portions of Rouge Park and the City streets which traverse The location of all MS4 storm sewer outfalls and the drainage areas to each outfall are displayed

Table 1: ESTIMATED DRAINAGE AREA FOR KNOWN STORMWATER OUTFALLS CITY OF DETROIT MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

Outfall ID	Receiving Water	Location	Outfall Diameter	Land Use	Estimated Surface Drainage Area (Acres) (Tetra Tech)	Status
Detroit Rive	er and Tributaries					
D1	Detroit River	Lakewood East Park (3308) Bridge at Riverside Dr.	12"	roadway	0.4	Confirmed
D2	Lake Muskoday	Belle Isle Storm Pump Station No. 7	6"	roadway/park	1.59	Confirmed
D4	Nashua Creek	Behind athletic building, Lotier Way - Pump Station	12"	athletic field	3.02	Confirmed
D5	Nashua Creek	Lotier Way behind former zoo	8"	lawn	0.08	Confirmed
D7	Nashua Creek	DRD service yard	6"	service yard	0.26	Confirmed
D8	Lake Tacoma	Strand St/Picnic Way, east of bridge	8"	roadway	0.59	Confirmed
D16	Lake Tacoma	Lake Tacoma off Strand, west of sign	6"	roadway	0.008	Confirmed
D17	Detroit River	Strand St. behind casino	9"	roadway	0.21	Confirmed
D22	Detroit River	Mt. Elliott Park (#3)	12"	park; lawn	3.35	Confirmed
D new-1	Detroit River	Belle Isle, north side of Strand, south side of Lake Tacoma	unknown	Roadway	0.26	Confirmed
D new-2	Detroit River	Belle Isle - north side of the Strand, 150 ft east of bridge to Casino	unknown	Roadway	0.29	Confirmed
D new-3	Detroit River	Belle Isle - north side of the Strand, east of bridge to Casino	unknown	Roadway	0.26	Confirmed
D new-4	Detroit River	Belle Isle - north side of the Strand, 525 ft east of the bridge to Casino	unknown	Roadway	0.21	Confirmed
D new-5	Detroit River	Belle Isle - north side of the Strand, approx. 530 ft east of bridge	unknown	Roadway	0.27	Confirmed
D new-6	Detroit River	Belle Isle - north side of the Strand, approx. 830ft east of bridge to casino	unknown	Roadway	0.27	Confirmed
D new-7	Detroit River	Belle Isle - north side of the Strand, ~990 ft east of bridge to Casino	unknown	Roadway	0.21	Confirmed
D new-8	Detroit River	Belle Isle - north side of the Strand, ~1140 ft east of bridge to casino	unknown	Roadway	0.21	Confirmed
D new-9	Detroit River	Belle Isle - north side of the Strand, ~870 ft west of Picnic Way	unknown	Roadway	0.23	Confirmed
D new-10	Detroit River	Belle Isle - north side of the Strand, ~720 ft west of Picnic Way	unknown	Roadway	0.27	Confirmed
D new-11	Detroit River	Belle Isle - north side of the Strand, ~590 ft west of Picnic Way	unknown	Roadway	0.21	Confirmed
D new-12	Detroit River	Belle Isle - north side of the Strand, ~450 ft west of Picnic Way	unknown	Roadway	0.25	Confirmed
D new-13	Detroit River	Belle Isle - north side of the Strand, ~300 ft west of picnic way	unknown	Roadway	0.76	Confirmed
Rouge River	r and Tributaries			•		
R1	Rouge River	Glenhurst Ave. at Grayfield Ave.	15"	roadway	3.03	Confirmed
R10A-new	Rouge River	Located at the south end of Circle drive in Eliza Howell Park	15"	park; lawn; roadway	16.25	Confirmed
R14	Rouge River	Immediately north of Spinoza Dr. on west bank	18"	roadway	0.21	Confirmed
R14A	Rouge River	Immediately south of Spinoza Dr. on west bank	18"	roadway	0.27	Confirmed
R16	Rouge River	Immediately north of Joy, on east bank	18"	roadway	8.88	Confirmed
R17	Rouge River	Parkland Ave @ Constance Rd. south of Joy Rd.	15"	roadway	11.01	Confirmed
R18	Rouge River	Tireman Ave at Spinoza, south of Joy Rd.	18"	roadway	1.47	Confirmed
R18A-New	Rouge River	New construction on Tireman Bridge	unknown	park; lawn; roadway	3.2	Confirmed
R22	Rouge River	Rouge Park - Spinoza Ave near Tireman	36"	roadway	6.36	Confirmed
R23	Rouge River	Rouge Park - Spinoza Ave near Tireman	12"	park; lawn	2.38	Confirmed
R29	Rouge River	North end of Lahser Rd south bank of river	12"	parking lot	3.47	Confirmed
R35	Rouge River	Ridge Road south of McNichols Road (new)	12"	paved areas and residential lots	0.63	Confirmed

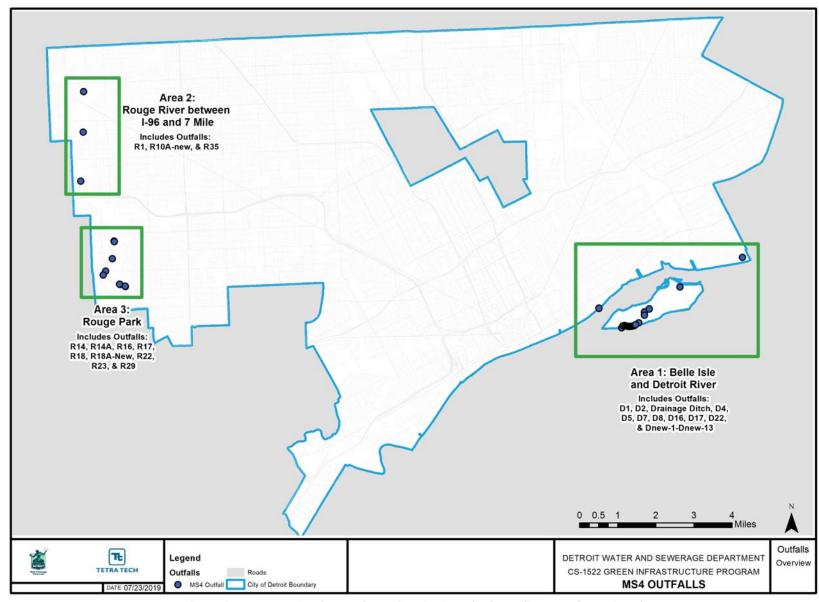


Figure 1: INDEX MAP OF KNOWN SEPARATE STORM SEWER OUTFALLS

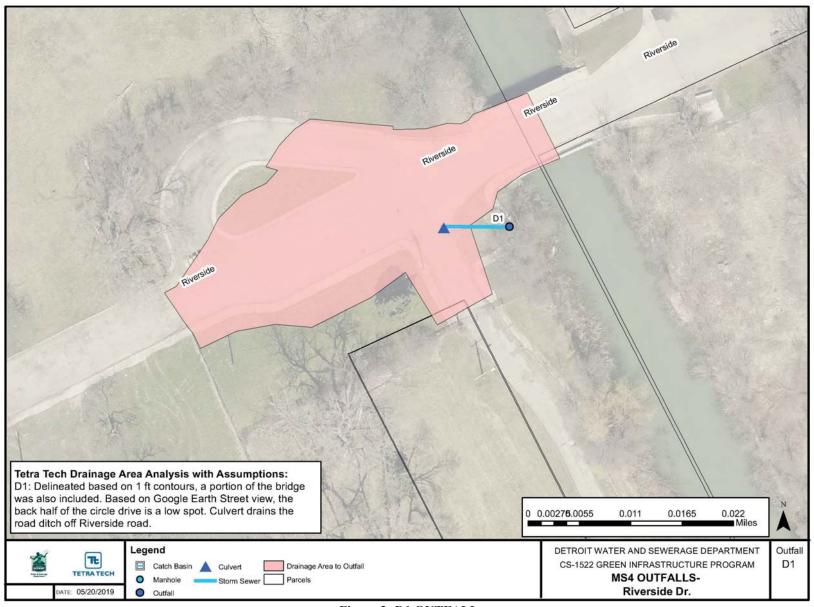


Figure 2: D1 OUTFALL

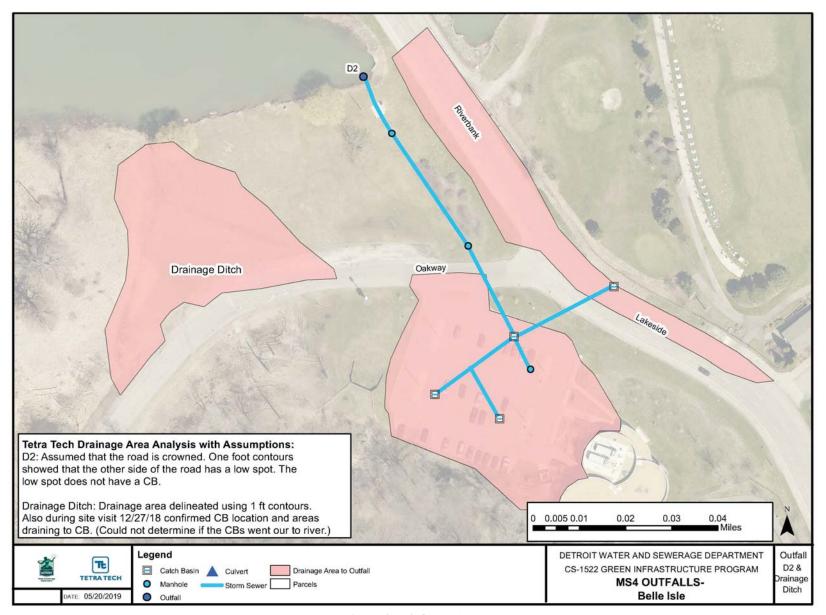


Figure 3: D2 OUTFALL

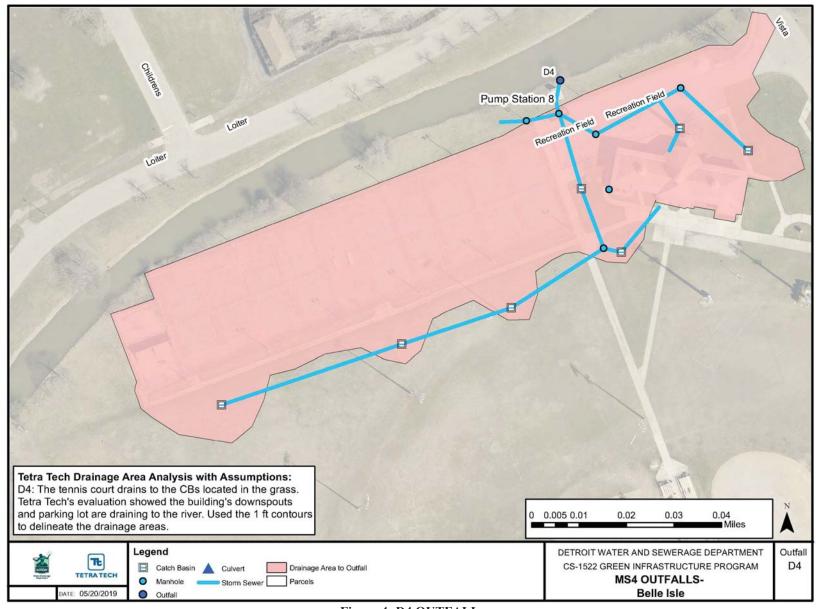


Figure 4: D4 OUTFALL

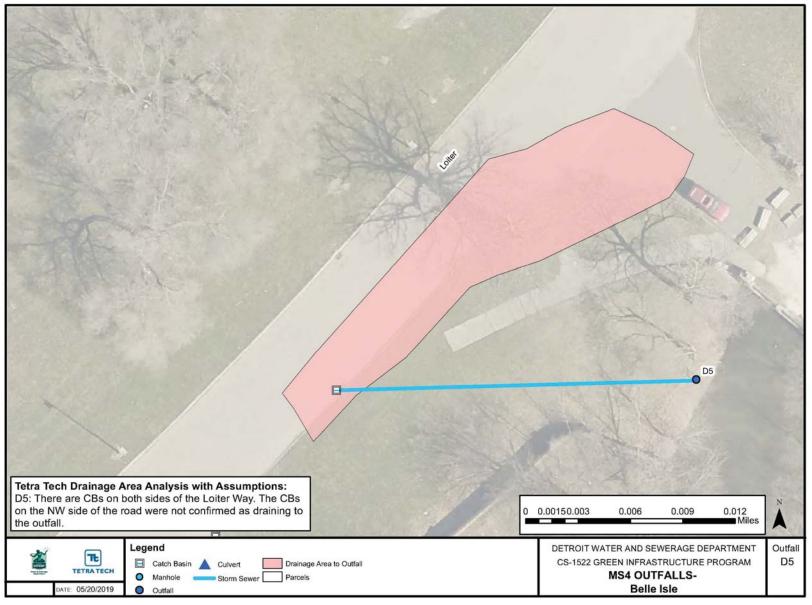


Figure 5: D5 OUTFALL

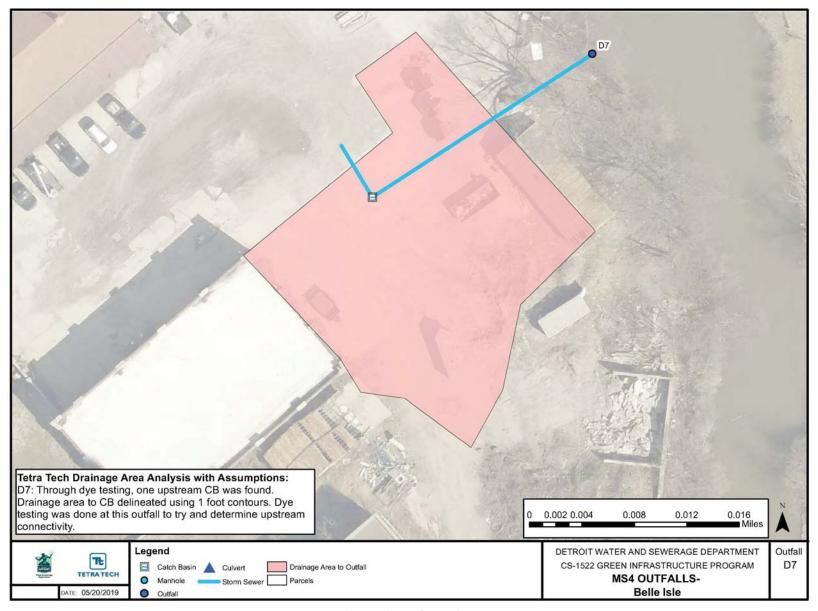


Figure 6: D7 OUTFALL

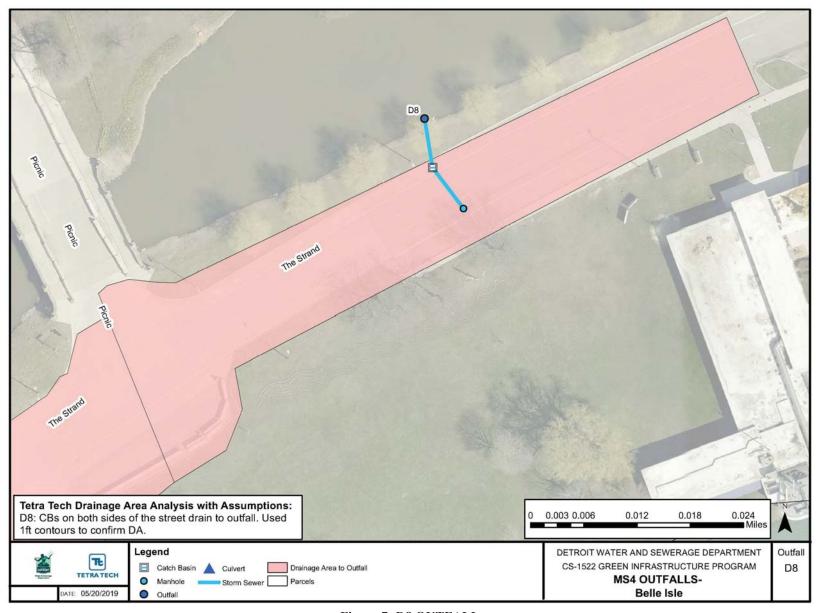


Figure 7: D8 OUTFALL

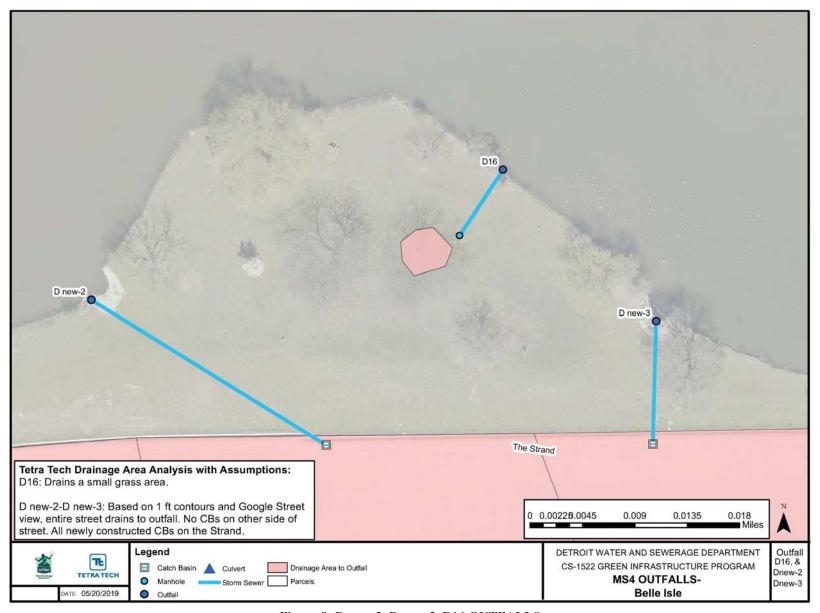


Figure 8: D new-2, D new-3, D16 OUTFALLS

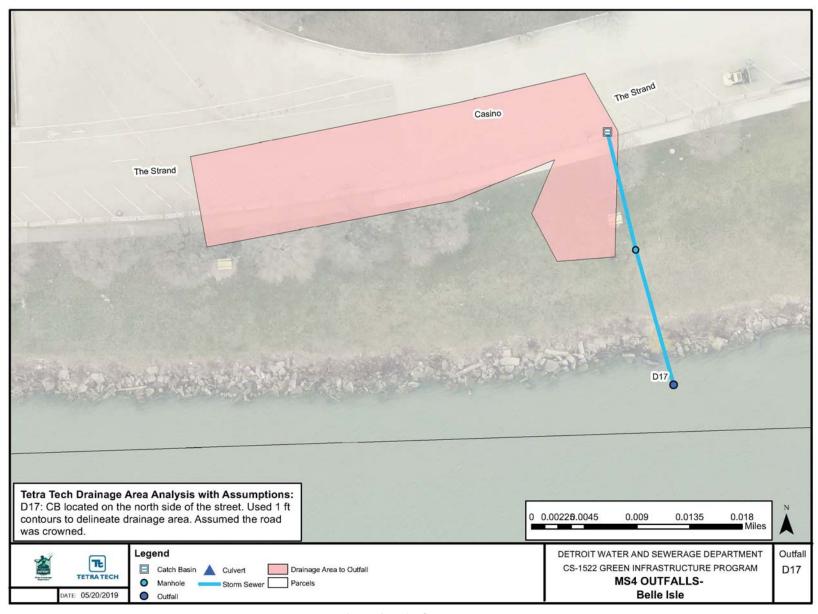


Figure 9: D17 OUTFALL

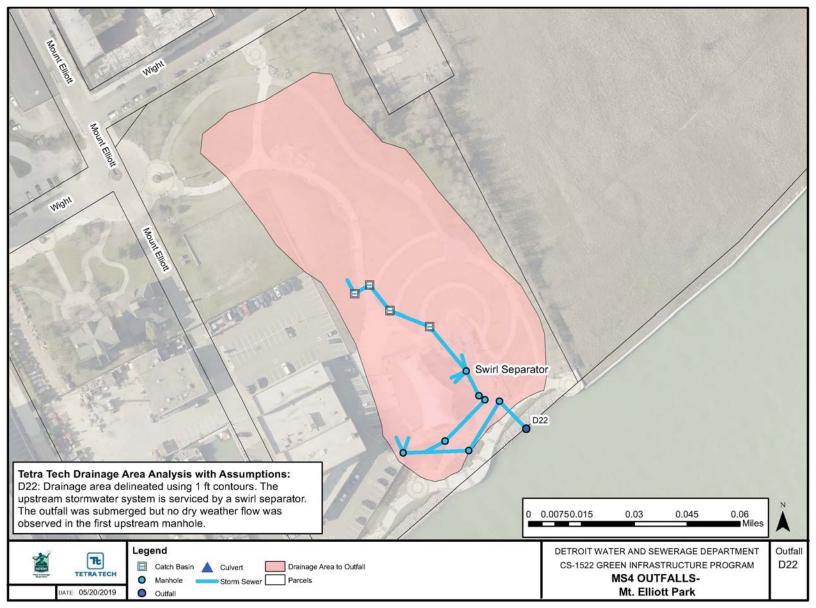


Figure 10: D22 OUTFALL

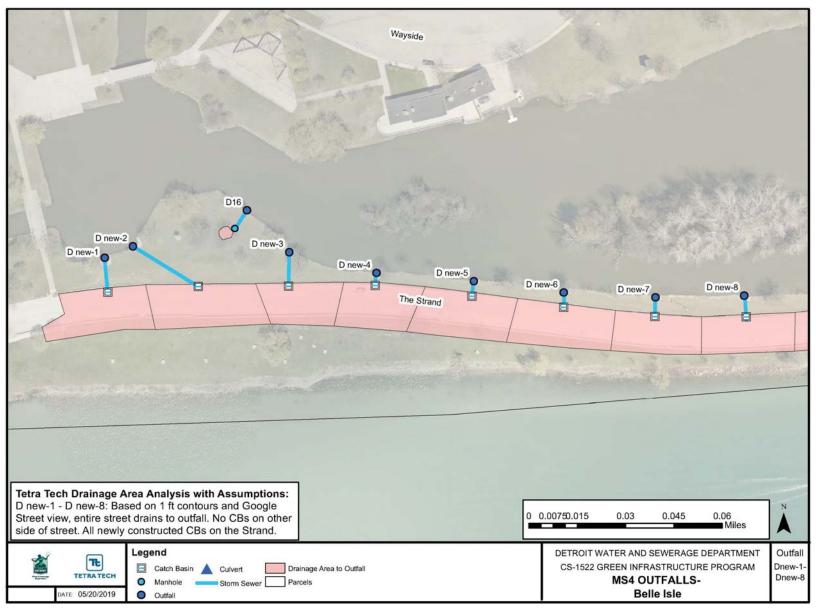


Figure 11: D new-1, D new-2, D16, D new-3, D new-4, D new-5, D new-6, D new-7, D new-8 OUTFALLS

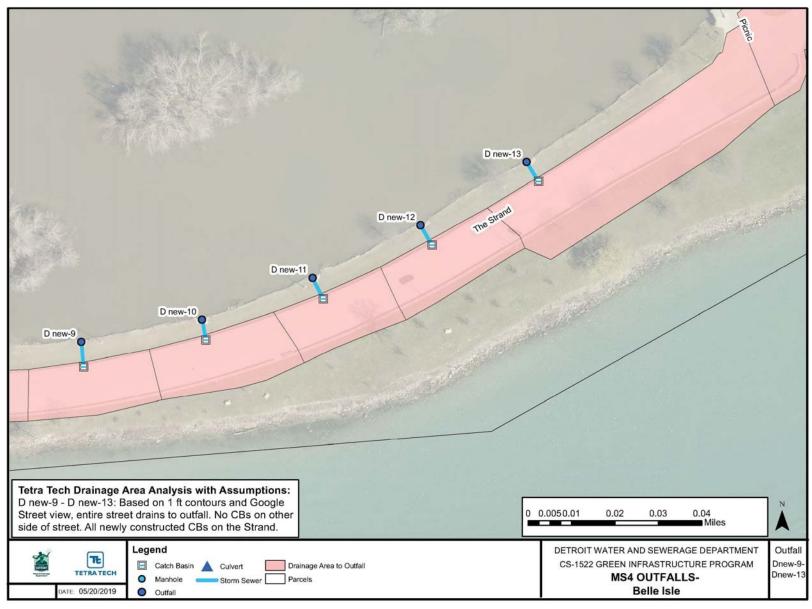


Figure 12: D new-9, D new-10, D new-11, D new-12, D new-13 OUTFALLS

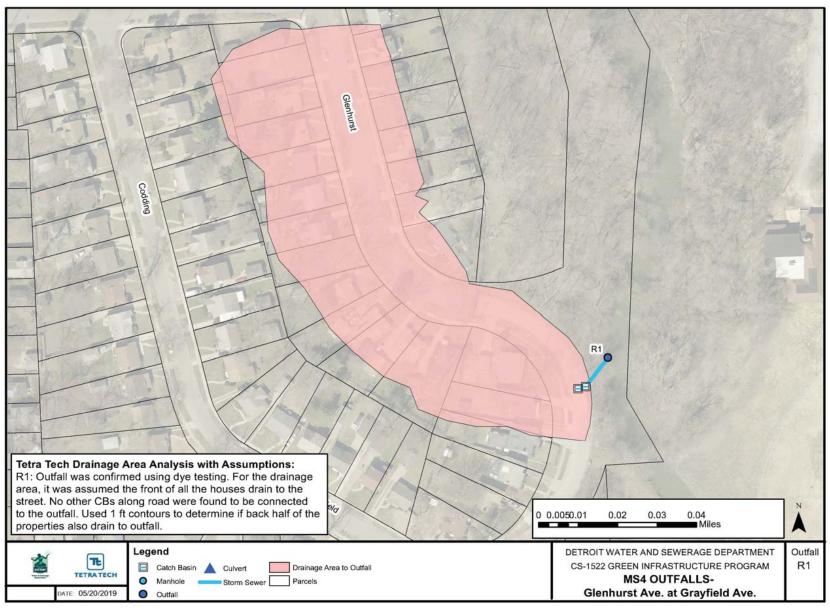


Figure 13: R1 OUTFALL

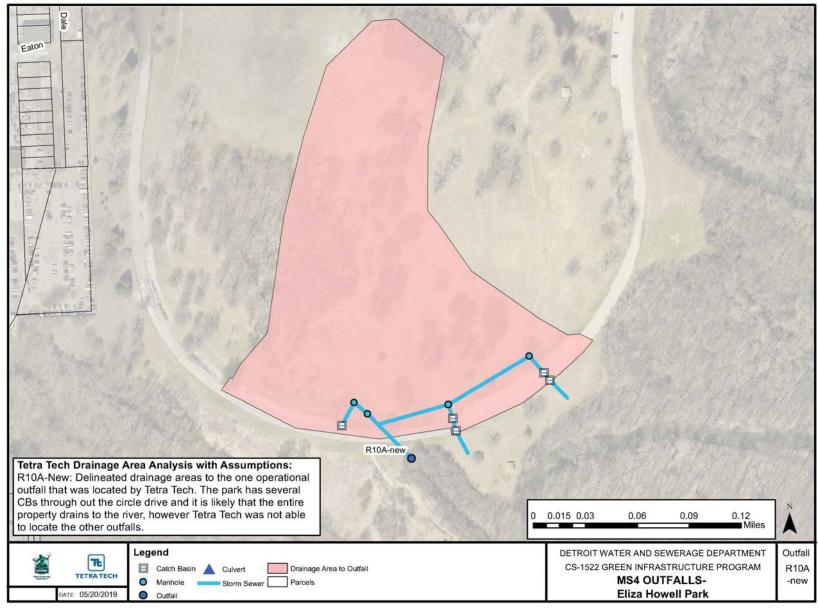


Figure 14: R10A-new OUTFALL

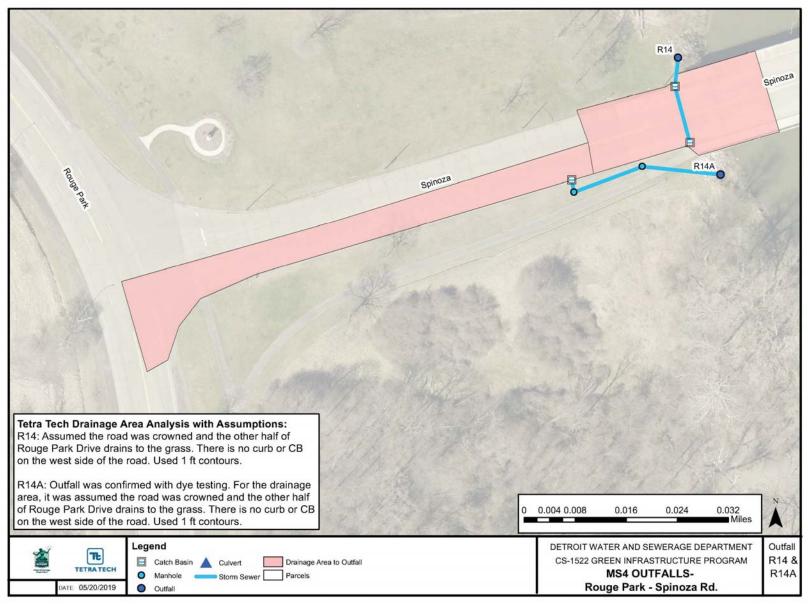


Figure 15: R14, R14A OUTFALLS

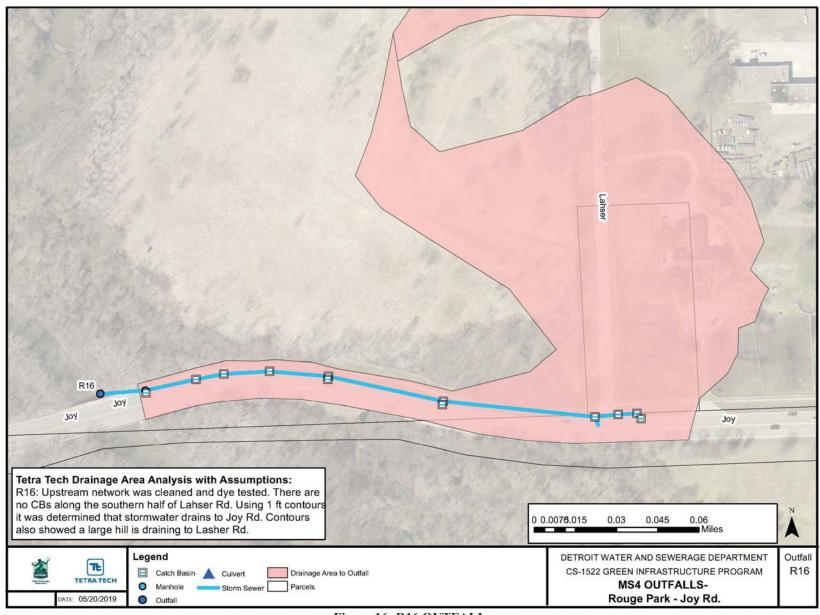


Figure 16: R16 OUTFALL

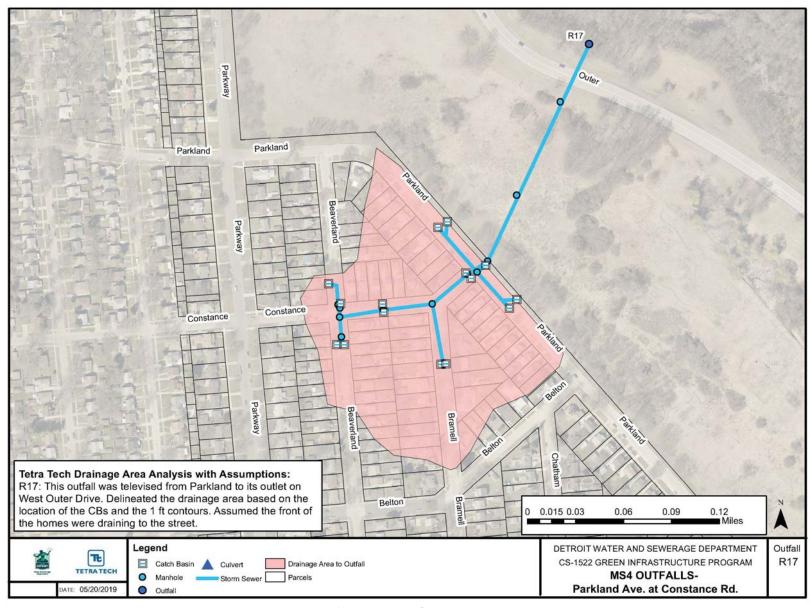


Figure 17: R17 OUTFALL

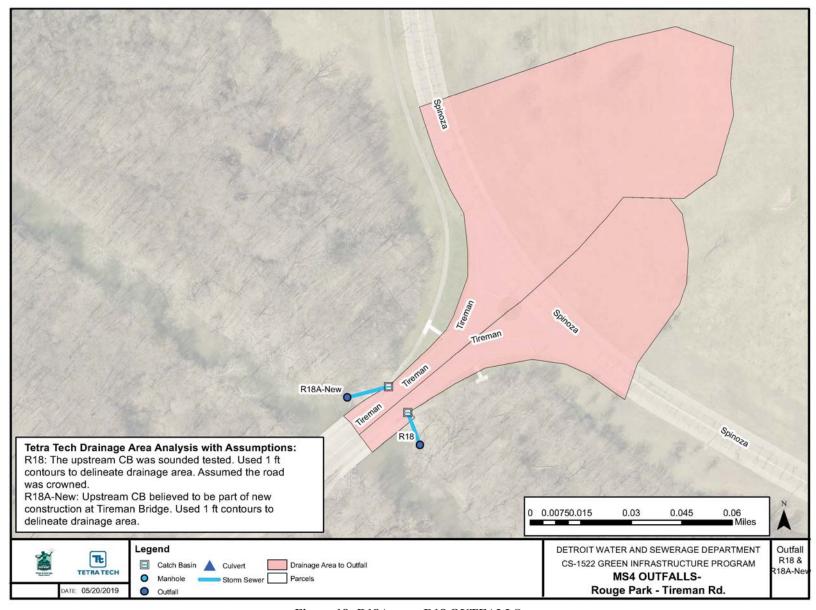


Figure 18: R18A-new, R18 OUTFALLS

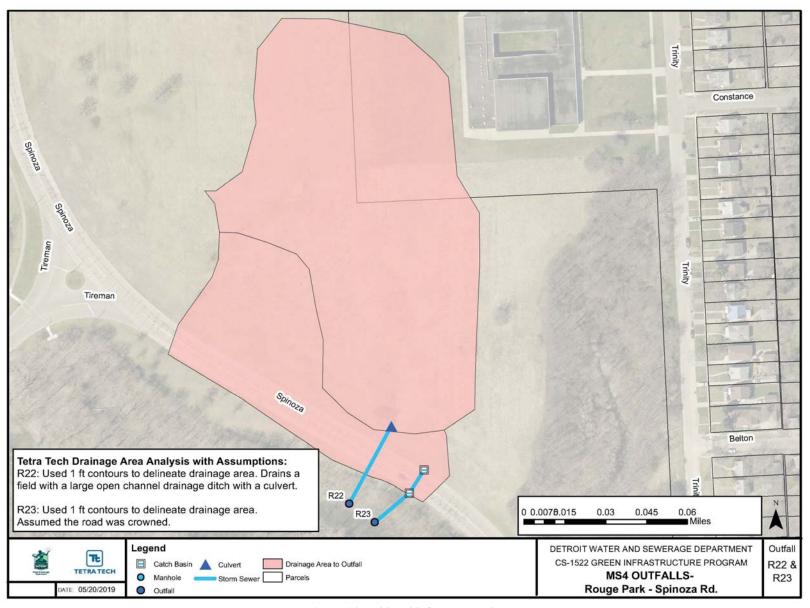


Figure 19: R22, R23 OUTFALLS

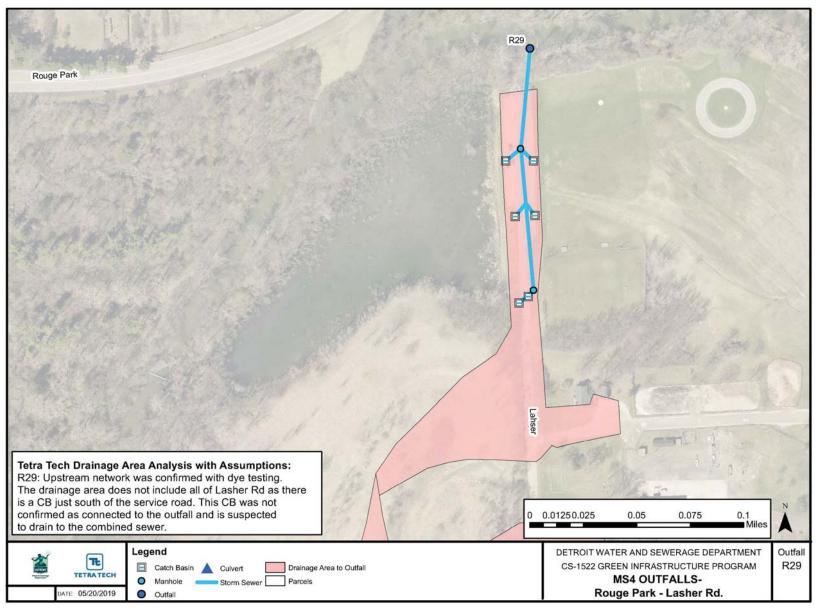


Figure 20: R29 OUTFALL

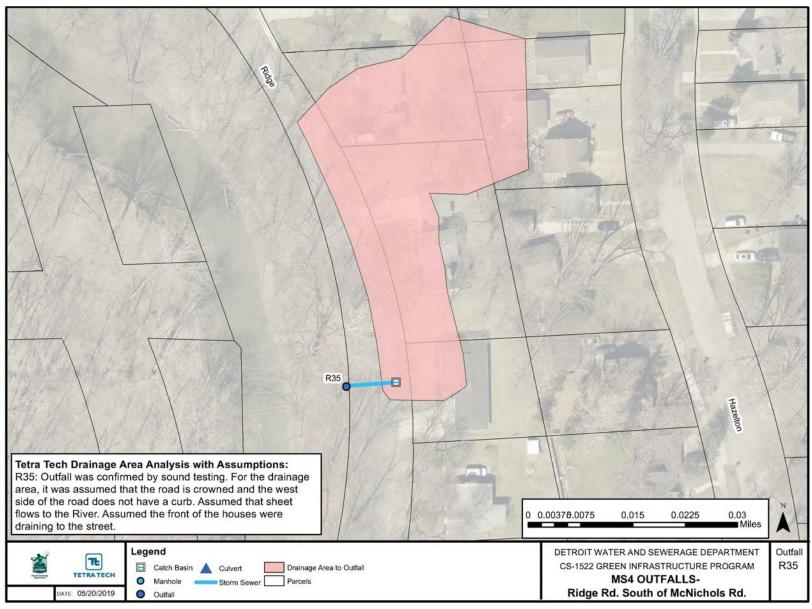


Figure 21: R35 OUTFALL

STORMWATER MANAGEMENT PLAN (SWMP)

implementation if the BMP is not already implemented. measurable goals for the Best Management Practice (BMP) and establishes a schedule for measures set forth in the general stormwater NPDES discharge permit. The program includes practicable. The program includes the development and implementation of BMPs to address the discharge of pollutants from the drainage area tributary to the City's MS4 to the maximum extent The City of Detroit has developed and is implementing a SWMP which is designed to reduce the

coordination between these two programs. responsibility for managing the MS4 permit, including preparation of the biennial update of the Infrastructure (GSI) SWMP Progress Report. DWSD is also the lead department for managing the Green Stormwater After January 2016, the City of Detroit, with DWSD as the lead Department, assumed Program required under NPDES Permit MI-0022802,

approximately 70 acres make up the MS4 area. leased to the State of Michigan. Only 85 residential homes are included in the MS4 area and tributary drainage systems are found within the City's owned parks including Belle Isle which is tributaries, and 12 discharges to the Rouge River. A majority of the storm sewer outfalls and as part of the City's MS4 inventory, including 22 discharges to the Detroit River and its tributary to the MS4 system. A total of thirty-four (34) storm sewer outfalls have been identified there are no industrial or commercial properties. Of the City's total acreage of over 90,000 acres, The BMPs established for the SWMP reflect the specific conditions within the City of Detroit

City's Long Term CSO Control Program, pursuant to Permit No. MI0022802, including the installation of green stormwater infrastructure (GSI) and implementation of a new Postcredits) for property owners to install and adequately maintain GSI on their properties. impact. DWSD has also re-vamped their drainage charge program to include incentives (fee construction Stormwater Management regulation which are intended to have a much larger variety of stormwater management programs are being developed and implemented as part of the discharges is extremely small, a limited number of stormwater BMPs are being implemented. A Based on these land uses and the fact that the drainage area tributary to separated storm sewer

3.1 Implementation Efforts

3.1.1 BMP No. 1: Public Participation/Involvement Program (PPP)

or forums for purposes of public involvement/participation. However, the City has made copies Due to the very small drainage area tributary to the City's storm sewer system and the fact that this property is mostly park areas, the SWMP did not include the creation of new organizations involvement/participation of the SWMP available to the public, including distribution of the plan to local stream and protection organizations, and has continued current forums

Detroit continues to fulfill the following activities associated with public involvement:

- Provided a link to a memo summarizing the SWMP on DWSD's website.
- 3. 2. Distributed copies of the SWMP memo for public inspection at public libraries
- SEMCOG, and the Alliance of Rouge Communities. Rouge, Friends of the Detroit River, Friends of Rouge Park, Friends of Belle Isle, stormwater management and green infrastructure. This Distributed copies of the SWMP memo to various organizations involved with included the Friends of the
- 4. green stormwater infrastructure. efforts on a variety of issues affecting Detroit including stormwater management and Continuing to work with SEMCOG staff to assist with public involvement/participation
- S infrastructure. includes communication on topics such as DWSD's ongoing green stormwater Friends of the Detroit River and various Continuing to cooperate with and participate in the ongoing work and special events coordinated by Friends of the Rouge, Friends of Rouge Park, Friends of Belle Isle Park; Neighborhood Organizations.
- 6. Management Group (SMG), 6425 Huber Street, Detroit, MI 48211. The PPP contact information where the public can submit comments is the Stormwater

BMP No. 2: Public Education Program (PEP)

signage/stenciling installed at the Rouge Park are included in Appendix M. which includes Belle Isle and Rouge Park. Detroit has also posted signage at Belle Isle Park and The PEP is currently focused on visitors in park areas where storm sewers have been identified, Park regarding storm water management practices. Representative photos of the

industrial properties in the MS4 area. It should also be noted that there are no septic tanks in the residential homes (approximately 85) in the City's MS4 area as there are no commercial or SEMCOG, Wayne County and other appropriate agencies to educate the small number of activities on the PEP will be completed via the website and links to the Friends of the Rouge, Due to the small area of the MS4 and limited activities within the MS4, the newly proposed MS4 area.

DWSD will review the website periodically and update accordingly. Topics such as pet waste, car washing, lawn care, hazardous waste will all be topics on DWSD's website to educate and help minimize the potential for illicit discharges. Website topics are presented as follows:

Pet waste disposal

Waterways/PetCare.pdf Flyer: https://semcog.org/Portals/0/Documents/What-You-Can-Do/To-Protect-Our-Website: https://semcog.org/protect-our-waterways#770114-what-you-can-do-about-pet-care

Residential Car washing

Flyer: https://semcog.org/Portals/0/Documents/What-You-Can-Do/To-Protect-Our-Website: https://semcog.org/protect-our-waterways#770113-what-you-can-do-about-car-care

Proper Disposal of Hazardous Wastes, etc

household-hazardous-waste SEMCOG website: https://semcog.org/protect-our-waterways#770118-what-you-can-do-with-

SEMCOG flyer: https://semcog.org/Portals/0/Documents/What-You-Can-Do/To-Protect-Our-Waterways/HouseholdHazardousWaste.pdf

collection/household-hazardous-waste-information Detroit website: https://detroitmi.gov/departments/department-public-works/refuse-

Wayne County website:

waste.aspx https://www.waynecounty.com/departments/environmental/landresources/household-hazardous-

Other links:

about-storm-drains Storm drain information: https://semcog.org/protect-our-waterways#770117-what-you-can-do-

Landscaping: https://semcog.org/protect-our-waterways#770116-what-you-can-do-with-

Under the PEP component, Detroit has undertaken several BMPs including

- reporting can be done on Detroit's SeeClickFix website. dumping, and even upload photos to assist with follow up investigations. The same describes the concern, identify the license plate number of vehicles suspected of illegal issues are offered drop down menus and are asked to provide location, information that providing a new mobile application 'Improve Detroit' for reporting. People reporting Encouraging reporting (e.g. illegal dumping or clogged drains) via the City web site and
- 2 of pesticides, herbicides, fertilizers, motor vehicle fluids, batteries, cleaners and other potentially hazardous materials. This program is managed by the Greater Detroit service is free to City of Detroit residents. Information on the program is detailed on the Resources Recovery Authority (GDRRA) and the Department of Public Works. The Continuing the City's household hazardous waste collection program for proper disposal https://detroitmi.gov/document/household-hazardous-waste
- ω https://detroitmi.gov/news/city-announces-improvements-bulk-yard-waste-collections-Continuing the household compostable waste program with the regular trash and recycling curbside collection service. Collectable yard wastes include leaves, grass schedule-changes-some-residents and twigs which are picked dn on ಬ biweekly
- 4. treatment. This program will be completed under DWSD's supervision in 2020. order to discourage dumping of wastes into drains which go directly to the river with no Detroit also initiated a stenciling program for storm drain catch basins in the MS4 area in
- 5 provides the annual progress report for DWSD's Green Stormwater Infrastructure (GSI) Management Regulation and Stormwater Management Design Manual. DWSD also constructed in the City. Information is also included the Post Construction Stormwater Impact Development including information of the GSI practices that have DWSD website currently has information on the benefits of green infrastructure and Low and providing overviews of programs and initiatives to support stormwater management. Educating the general public regarding responsibilities and stewardship in their watershed

Program.

<u>Initiatives</u> https://detroitmi.gov/departments/water-and-sewerage-department#Programs-and-

management-and-drainage-charge/green-infrastructure-projects https://detroitmi.gov/departments/water-and-sewerage-department/stormwater-

group contact information. informing them of MS4 program and the links to the DWSD website as well as DWSD - SMG's counting the number of visitors to the site. City's MS4, metrics for effectiveness of the PEP will include a counter on the DWSD website, There are 85 homes within the MS4 area. Due to the small size and limited activities in the DWSD will distribute a flyer to the 85

which would include calling three houses once a permit cycle to ask them a list of questions on DWSD will also conduct a survey of 3% of the homes (typical response rate of social surveys) or increased awareness to stormwater management. To determine effectiveness, questions will be asked that indicate behavior change

BMP No. 3: Illicit Discharge Elimination Program (IDEP)

other non-stormwater discharges and/or flows. The City has plans to revise the City's ordinance City's ordinance does not specifically address discharges or flows from firefighting activities and regulations were previously provided to EGLE and are included in Appendix A, B, and L. The the legal authority to prohibit discharges into the storm drainage system. Copies of the applicable any supplemental investigation, such as sampling and inspection is needed. The City already has to the City. Field observations were conducted during dry weather periods to determine whether MS4 outfalls have been inspected using outside contractors to provide field investigation support effectively eliminate illicit discharges to the City-owned separate storm sewer system. All known to include the exclusions of acceptable non-stormwater discharges as outlined in NPDES The IDEP focuses on the development and implementation of measures to identify and

drainage system from a sanitary sewer or on-site sewage disposal system, Detroit has determined combined/sanitary sewer. Given the very small probability of seepage infiltrating into the storm that most of the area tributary to the storm sewers is open land with no nearby combined or physical connection from a sanitary sewer to the storm sewer is also quite limited recognizing located in areas where drainage from septic tanks needs be considered. The potential for a that establishing a new program to limit infiltration of seepage is not warranted or cost effective. sanitary sewers. The previous field investigation work has confirmed that the City owned storm sewers are not Very few of the 34 storm sewers are located within 100 feet of a

The activities associated with the IDEP BMP include the following:

Michigan, 48211. the DWSD Stormwater Management Group (SMG) office at 6425 Huber, Detroit, Figures 1 - 21 of this plan. Updated maps of the confirmed MS4 outfalls will be stored at Provide a map of all existing outfalls. The latest version of this map is included as

- 2 necessary to incorporate new or newly discovered storm sewers. Update the inventory of MS4 City-owned storm sewers and the storm sewer maps as
- $\dot{\omega}$ this activity is performed by City staff. and related efforts such as sampling, source detection and elimination in the event that Conduct training for City staff for activities such as the identification of illicit discharges
- 4. stored at the DWSD SMG office. within 24-48 hours of flow discovery. The IDEP investigation will be documented and oil, odors, sewage) samples will be collected and analyzed for indicator parameters field screening indicates a dry weather discharge or presence of suspicious indicators (i.e. Conduct field screening through visual inspection of outfalls once every permit cycle.
- 5 MS4. Due to the small size of the MS4, outfalls will not be prioritized. Field observations will be conducted at all outfalls and points of discharge within the
- 6 connections, sanitary sewer seepage, or other illicit connection sources Where appropriate, investigating upstream drainage area to look for possible cross-
- .7 screening is warranted. feels that a procedure and schedule for illicit discharges not identified during field MS4 area and the fact that there have been no illicit discharges in the MS4 area, DWSD samples that were collected during field screening. However, due to the small size of the DWSD will initiate a source investigation 30 days after receiving analytical results from
- ∞ based on the complaint and/or threat to stormwater and receiving waters. up screening and source investigations as appropriate. The schedule will be accelerated SMG will respond to the complaint within 48 hours and initiate field inspections, follow-For procedures responding to illegal dumping or spills, once DWSD's SMG is notified,
- 9. will be accelerated based on the illicit discharge and/or threat to stormwater. address the illicit discharge within 48 hours and initiate response actions. The schedule Once DWSD's Stormwater Management Group (SMG) is notified, SMG group will
- 10. website for calls during office hours. website. The EGLE Warrant District office (586-753-3700) will also be added to the from the MS4. The emergency hotline number is (313) 267-7401 and posted on DWSD's DWSD has a 24-hour emergency hotline to report releases of any polluting materials
- 11. Taking corrective measures as appropriate to eliminate illicit connection sources. Due to source investigation, increased inspections, and/or increased training. root cause, corrective actions may include one or any of the following re-sampling, will be to document and identify a root cause and corrective action. Depending on the the small area of the MS4 and that no illicit discharges have been found, the procedure
- 12. DWSD personnel that conduct maintenance operations will receive IDEP training. the training module will be supplied to park personnel outside of DWSD. within the first year of hire for new staff. Because much of the MS4 area includes parks, June 2020. Training will be conducted for identified personnel once per permit cycle and SWMP). Personalized DWSD updates of this module are scheduled for completion by training module will be used that has been created by Wayne County (Appendix I of
- DWSD SMG personnel as well as DWSD catch basin inspectors participated in a SEMCOG IDEP and Good Housekeeping on training October 23rd, 2019 and 24th, 2019.

presented in a report that is available for review at DWDSD-SMG and included as Appendix G. Results of dry weather stormwater outfall inspections and collected samples in May 2018 are

flow was found in any of the confirmed outfalls. Therefore, analytical testing was not needed. All catch basins draining to an MS4 outfall were checked for dry weather flow. No dry weather

BMP No. 4: Construction Stormwater Runoff Control

jurisdiction of Detroit's storm sewer area. Wayne County is the current enforcing agency for Part site plan review process also addresses projects less than one acre that are part of a larger of a SESC Permit, construction projects disturbing one acre or more within areas tributary to the 91 permits within the City of Detroit. enforce its stormwater management program to any new and re-development projects within its common project that will disturb one acre or more. In addition, Wayne County continues to City-owned storm sewers are addressed through the City's BSEED site plan review process. The While there have been no construction projects in the MS4 area which have warranted issuance

plan review process and included along with other deficiencies in the correspondence with the required by the landowner or recorded easement holder, they will be identified during the site resource and stormwater management of the regulated project and therefore, if these permits are Application requests a copy of all applicable state and federal permits related to erosion, water supporting documentation for the Post-Construction Stormwater Management

applicants to In addition, it should be noted that the Stormwater Management Design requirements. Wayne County's SESC program and well as the EGLE's Manual directs Permit-by-Rule

The BMPs for construction site stormwater runoff control include:

- Continue existing site plan review process which ensure that site plans adequately allow for soil erosion and sedimentation controls, as applicable
- 2 activity in violation of a permit. permit. Also, immediately notify EGLE when other wastes are discharged from construction to the MS4 from construction activity in violation of a soil erosion and sedimentation control Immediately notify the local SESC agency and EGLE when soil and sediment are discharged Refer to ERP.

BMP No. 5: Post-Construction Stormwater Runoff Control

regulation citywide referred to as the Stormwater Management Regulations. These regulations infiltration (soil contamination or high groundwater); 2) Unique conditions that would require if they demonstrate and quantify the presence of extraordinarily difficult site conditions. square feet) or more of impervious surface. The applicant may apply for alternative compliance apply to any new development or redevelopment which creates or replaces 0.5 acres (21,780 In November 2018, the City of Detroit adopted a post-construction stormwater management Extraordinarily difficult site conditions consist of: 1) sub-surface conditions limiting the

Stormwater Management Design Manual are posted on DWSD's website and included as include off-site migration and in-lieu fee. DWSD's Stormwater Management Regulation and pumping of stormwater; and 4) other-department judgement. Options for alternative compliance substantial re-grading; 3) Potential for off-site basement flooding; 4) conditions that require

the manual provides information on the following: compliance with the stormwater management regulation and addresses the permit requirements Management Design Manual. The design manual serves as a resource for applicants to ensure permit issued by EGLE. In addition to general green stormwater infrastructure design guidance, (Part I.A.15.d.9) pertaining to stormwater controls for projects requiring a Part 91 construction In support of the Stormwater Management Regulations, DWSD developed a Stormwater

- projects including roadway improvements. Applicability of the requirements for new development, redevelopment, and municipal
- runoff volumes and peak discharge rates. Provides up-to-date precipitation data, as well as acceptable methods for calculating
- separate sewer (MS4) areas. considerations. Design standards are specified for both the combined sewer areas and the Design criteria for site drainage, roadway and parking lots, and flow conveyance of culverts, and open channels that will address water quantity and
- Overview of drainage design methodologies and acceptable practices.
- harvesting, bioretention, tree plantings, porous pavements, and detention and retention Stormwater control measure design considerations for systems such as green roofs, water
- Guidance on required long-term operations and maintenance of stormwater management

development/redevelopment projects and has the authority to require site conditions for the practices meet design criteria as outlined in the stormwater design manual. specifically to address any stormwater concerns and to make sure stormwater management management of stormwater. With the addition of the DWSD Stormwater Management Group (SMG), these projects are also now routed to DWSD's SMG and reviewed by this group As part of the City's permitting process for this regulation, DWSD permitting staff reviews

re-development projects include the following: The BMPs for the post-construction stormwater management program for new development and

- As part of the site plan review and approval process, ensure that appropriate postterm maintenance plan be prepared and approved for any required stormwater controls. redevelopment project located in the MS4 area. This includes the requirement that a longconstruction stormwater management practices are incorporated into any new or
- 2 determine whether it conforms to the terms and conditions of the approved site plan and construction stormwater runoff controls are required, DWSD reviews the project to At the completion of construction of all new and re-development projects for which post-

maintenance plan, including proper maintenance of any structural stormwater controls, if

development projects initiated in the MS4 tributary area. Since the establishment of the new Stormwater Design Manual, there have been no new or re-

3.1.6 BMP No. 6: Pollution Prevention/Good Housekeeping Program

facilities are prioritized all the same and given a low priority as low due to limited operations and by the permit, the municipal properties which include one or more MS4 outfalls are listed below. pollutants through the City's MS4 which are attributable to municipal operations. The pollution prevention/good housekeeping efforts focus on minimizing the discharge of The only structural stormwater controls at these properties are catch basins. As such, these

- Rouge Park
- Belle Isle Park
- Mt. Elliott Park
- Lakewood East Park
- Portions of several roadways

Some permit requirements are not applicable or have limited applicability as follows

- days of removing or adding a catch basin. An inventory of catch basins is provided as 6425 Huber, Detroit, Michigan, 48211. Inventory and maps will be updated within 30 Catch basin locations are in DWSD's GIS system are stored at the DWSD SMG office at controls exist in the storm sewer area. There are 78 catch basins in the City's MS4 area. The maintenance of structural controls is limited to catch basins since no other structural
- or applied in the park's areas. The plan does not address the storage, handling and use of pesticides as none are stored
- maintenance on Belle Isle, (including street sweeping and salting). agreement in 2013. Since the 2013 lease agreement, MDOT is responsible for all road a service yard on Belle Isle, which is operated by the State of Michigan via the lease There are no vehicle maintenance facilities in the City's MS4 storm sewer area. There is

the following BMPs to control sediments, the main pollutant of concern: Detroit's Pollution Prevention/Good Housekeeping Measures for Municipal Operations include

basin to determine if more that 50% full and answers assessment questions. If more than maintenance program to schedule inspections. The cleaning crew inspects each catch basins. Catch basins within the MS4 area will be inspected at least once every three years consist of catch basins located in the MS4 portion of the municipal properties listed Perform routine maintenance of all structural stormwater controls in the MS4 area which The only structural controls currently in place on Detroit's MS4 system are catch when no more than 50% full. DWSD will be using their Cityworks

residential homes in the MS4 area. catch basin inspection and cleaning program is felt to be adequate to assess the parks and Facility. The pits are dewatered and dried out and stockpiled until taken to a landfill. The sediment and sludge collected is emptied into the pits at DWSD's Central Services maintenance is needed, an additional work order is added for the maintenance crew. Any 50% full, maintenance crews use vactor trucks for the catch basin cleaning. If additional

- the rating for the Park in which they are located. inspected in 2017. The priority is rated as high as catch basins in the MS4 area As noted on the catch basin spreadsheet in Appendix D, catch basins were be more than 50% full, the inspection frequency will be re-evaluated as well as are a priority of the rest of the City. For 2020, if any of the catch basin is found to
- 2 some of the roads in the MS4 area. no salting or plowing at Belle Isle as that is the responsibility of the State. Salt is used on selected streets within the MS4 area. Residential roads are never salted and the City does Perform application of salt/deicing materials in the MS4 area during winter months in through an outside contractor who charges the City based on weight of disposed material. protect water quality. Disposal of the material collected through street sweeping is done sweeping equipment in accordance with the manufacturer's operating instructions and to sweeping schedule for the City of Detroit. Proper sweeping methods include operating not swept as this is the responsibility of the State. Appendix H provides the current street each year and includes all streets within the City, including the MS4 areas. Belle Isle is on an 11-week cycle which starts approximately April 1. The goal is to do three cycles Perform street sweeping and application in the MS4 area. DPW conducts street sweeping
- $\dot{\omega}$ mowing at Belle Isle. Schedule for completion June 2021. under long term contract with the State of Michigan and the State conducts the lawn working for DWSD, to ensure that it addresses stormwater management. Belle Isle is activities in the MS4 area. DWSD will review the boiler plate language for contractors completion June 2021. At this time, DWSD is not aware of any contractors conducting personnel once per permit cycle and within first year of hire for new staff. Schedule for Discharge Elimination Program training. Training will be conducted for identified personnel that conduct maintenance operations. Training will be part of the Illicit purpose of snow stockpiling during winter. DWSD will conduct training to City park and the waterways to minimize impact on these waterways. The parks are not used for the Perform routine grass mowing in the parks. Buffer zones exist between the grass areas
- 4. implemented as outlined in BMP #4 sediments and millings discharging to the catch basins and SESC controls are road repairs, catch basins are typically blocked off to minimize the For Right-of-Way activities other than catch basin cleaning or street sweeping, such as Construction Stormwater Runoff Control. potential for

Total Maximum Daily Load (TMDL) Implementation Plan

elements of the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit application questions 85 to 88. These requirements are as This section establishes the plan to comply with the Total Maximum Daily Load (TMDL)

- to reduce the TMDL pollutants, Provide a procedure for identifying and prioritizing Best Management Practices (BMPs)
- Provide a list of BMPs that will be implemented to reduce the TMDL pollutants, and
- Provide a monitoring plan to access the effectiveness of the BMPs.

Applicable TMDLs

are applicable to the City of Detroit: The U.S. Environmental Protection Agency has approved the following TMDL assessments that

- supersedes the previously approved E. coli TMDL specific to the Rouge River. Statewide TMDL for E. coli (July 2019). This TMDL applies to the Rouge River and
- E. coli TMDL assessment for the Detroit River (August 2008).
- Biota (sediment) TMDL assessment for the Rouge River (August 2007).

program at this time. atmospheric deposition of these pollutants is not required under the NPDES MS4 permit atmospheric deposition of the pollutant of concern. An implementation plan to address the 2013). These TMDLs cover the inland water bodies in the state primarily impacted by There are also two statewide TMDL assessments for mercury (June 2018) and PCB (August

Table 2 summarizes the water quality targets identified in the TMDL assessment documents

	A CONTRACT
Parameter	Target
E. coli	• 130 E. coli per 100 mL as a 30-day geometric mean and 300 E. coli per
	100 mL as a daily maximum to protect the total body contact use from
	May 1 through October 31, and
	• 1,000 E. coli per 100 mL as a daily maximum year-round to protect the
	partial body contact use
Biota	Primary numeric target is based on the Procedure 51 biological
(sediment)	community assessment protocol. The target is Procedure 51 results in a
	consistent "acceptable" or "excellent" rating.
	• Secondary target is a mean annual in-stream Suspended Solids (SS)
	concentration of 80 mg/L for wet weather events. Achievement of the
	biological target will override this secondary target.

Table 2: TMDL Targets

Pollutant Sources

are included in these tables Table 3. Only those sources regulated under the MS4 permit and applicable to the City of Detroit The suspected sources and causes associated with each of the TMDL parameters are provided in

Table 3: Potential Pollutant Sources and Causes

I di diliotoi	L OLEITHAL PONICES	Fotelitial Causes
E. coli	Illicit sanitary connections to	Undetected or uncorrected illicit
	the MS4	discharges
	Contaminated runoff during	Lack of knowledge or caring about the
	storm events carrying waste	importance of pet/animal waste
	from pets, feral animals and	management.
	nuisance wildlife	Loss of pervious areas thru urban
		development.
	Contaminated runoff during	Lack of knowledge or caring about the
	storm events carrying waste	importance of proper garbage disposal.
	irom improper garbage disposai	
Sediment	Municipal infrastructure (e.g.	Loss of pervious areas from urban
	roads)	development.
		• Insufficient stormwater infrastructure
		maintenance.
	Flashy hydrology from large	• Insufficient stormwater management of
	development projects	large development projects.
	contributing to in-stream	
	erosion.	

BMP Prioritization

Suitable BMPs are identified and prioritized based on the following criteria:

- higher than those impacting a single parameter. Multiple parameters. BMPs that can impact multiple TMDL requirements are weighted
- contact with the river. Human health. The ability of the BMP to affect human health impacts caused by direct
- (peak flow). pollutants (E. coli and sediment) in the receiving stream or reduce the runoff flashiness Pollutant concentration. The ability of the BMP to impact the concentration of the
- to implement. Impact and cost. The anticipated level of impact of the BMP compared to the added cost
- Prerequisites. BMPs that have prerequisite projects that must be completed before the BMP can be implemented are ranked lower than BMPs without prerequisite projects.

procedures may be reviewed and updated if needed by the City. Only BMPs that the City has the legal authority to implement are considered. The prioritization

BMP Selection

scores were assigned a numeric value of 2, moderate a value of 1 and low scores were assigned a ranking. The prioritization criteria were ranked using a high, moderate and low score. High value of zero. The resultant score for the BMP is the sum of the assigned numeric values BMPs that were identified for consideration are listed in Table 4 along with their associated

assigned to each of the identified criteria. The last column identifies the BMPs selected for implementation at this time.

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Implement additional stormwater control measures on public infrastructure 1 1 1 0 0 3 (1) improvement projects	PEP: Education on the impact of pet waste	Good Housekeeping: Riparian corridor/buffer strip to Parks staff	PEP: Education on IDEP complaint line	Good Housekeeping: Catch basin maintenance and street sweeping	PEP: Train municipal O&M staff	Implementation of the new stormwater regulation	Illicit discharge source identification and abatement	BMP Description
	0	<u> </u>	2	<u> </u>	2	2	2	Multiple Parameters
1	1	_	1	1	1	2	2	Human Health
<u> </u>	1	1	1	_	1	2	2	Pollutant Concentration
0	1	1	1	1	1	2	2	Impact and cost
0	1	_	1	2	2	2	2	Prerequisites
ω	4	5	6	6	7	10	10	Score
(1)	<	<	<	<	<	<	<	Implement

(1) When municipal capital improvement projects are planned for municipal infrastructure in the MS4 areas, implementation of additional stormwater control measures will be considered and evaluated.

Evaluating Effectiveness

stream monitoring in the Rouge River is periodically conducted by the Alliance of Rouge much more change within the river's watersheds in order to see a net change in the river. Inwatershed areas for each of the rivers. That is to say that implementation of the BMPs by the housekeeping practices are discussed with information specific to those programs. used to help guide the implementation plan when appropriate. City is not expected to have a measurable impact on the receiving streams by itself. It will take Detroit River since the City of Detroit MS4 area represents an insignificant fraction of the In-stream monitoring of *E. coli* and sediment are not planned for either the Rouge River or the Individual program metrics for illicit discharge source identification, public education and good Communities and the State of Michigan. Publicly available in-stream monitoring results will be Various metrics will be tracked for evaluating the effectiveness of the BMPs implemented

E. coli

discharge detection program. As a part of this program, the outfalls will be physically assessed For E. coli, monitoring the effectiveness is planned to utilize the monitoring efforts of the illicit

against the target levels identified in Table 2. parameters at least once every five years. Measured E. coli concentrations will be compared and dry weather flow monitored for flow rate, E. coli concentration and other water quality

Results will be assessed and used to update the TMDL implementation plan as appropriate per permit cycle. Results of samples will be compared to the targets set in the E. coli TMDL. DWSD will conduct wet weather sampling for E. coli on two outfalls within the City's MS4 area

Sediment (biota)

such as STEPL, the National Stormwater Calculator, L-THIA, and P8 will be considered. These document (August 2007). The sediment load will be assigned by land use, consistent with models estimate sediments loads following the same methodology used in the TMDL assessment model for the pollutant load estimates will be selected based on the project specifics. Models document the expected sediment load reductions due to the implemented BMPs. The computer implemented as a part of a municipal infrastructure improvement project. The modeling will Appendix B of the TMDL assessment document (August 2007). Computer modeling will be performed when newly constructed stormwater control measures are

sımılar research literature Works Association; Environmental and Water Resources Institute of ASCE, 2019), or other U.S. Environmental Protection Agency; Federal Highway Administration; American Public Protection, 2007), the International Stormwater BMP Database (Water Research Foundation, The assumed percent removal by BMP will be assigned based on literature values from the Center for Watershed Protection (Center for Watershed Protection, 2000; Center for Watershed

managing the sediment, the number and area of development projects in the MS4 area complying for managing the peak flow, volume and sediment from the site. As an additional metric for with the stormwater ordinance will be reported. Development projects must comply with the new stormwater ordinance which includes provision

the City's MS4 area. DWSD's concern is that it may be cost prohibitive for the small MS4 area. macroinvertebrate sampling. If feasible, the ARC data will be used to assess the biota TMDL for DWSD will also investigate the feasibility of collaborating with the ARC on the Rouge

References

Center for Watershed Protection. (2000, March). National Pollutant Removal Performance Database for Stormwater Treatment Practices. Ellicott City.

Center for Watershed Protection. (2007). National Pollutant Removal Performance Database Protection. Version 3. Center for Watershed Protection. Ellicott City: Center for Watershed

Water Research Foundation, U.S. Environmental Protection Agency; Federal Highway Database: www.bmpdatbase.org Resources Institute of ASCE. (2019). Retrieved from International Stormwater BMP Administration; American Public Works Association; Environmental and Water

CYCLE IMPLEMENTATION EFFORTS FOR THE UPCOMING PERMIT

4.1.1 Record Keeping/Schedule/Frequency/Responsible Agency

necessary only if the initial field observation indicates that there is dry weather flow present, or investigation of storm sewer outfalls for potential suspicious or illicit connections will be some cases, activities are listed to be undertaken on an "as needed" basis. For example, the of the BMPs, the measureable goals, record keeping requirements and the responsible party. In responsible for each activity. These tables also show the anticipated schedule for implementation there is some other evidence of an illicit or suspicious connection. The following tables list the individual BMPs along with the City departments or agencies

Table 5: BMP #1: PUBLIC PARTICIPATION/INVOLVEMENT PROGRAM

Торіс	Implementation BMP	Timeframe	Measurable Goal	Recordkeeping	Responsible Party
		New BMP Topics Identi	ified for Implementation		
SWMP notification to City Departments	Prepare memo for City Departments informing them of SWMP	Throughout permit cycle	Memos informing of latest SWMP at City Departments	Memo	DWSD
SWMP notification to local Organizations	Prepare memo for City Departments informing them of SWMP	Throughout permit cycle	Memo informing of the latest SWMP to FoTR, SEMCOG, FORP, FODR, FOBI	Memo	DWSD
Drainage Charge Program	Finalize drainage charge credits	Complete	Drainage Charge Credits for Stormwater Practices	Tracking of properties within MS4 with stormwater practices	DWSD
		Ongoing BMP To	pics Implemented		
SWMP notification to the Public	Memo on SWMP prepared for local organizations will be posted on the DWSD Website	Ongoing	Link to memo on the DWSD website	NA	DWSD
Participate in Watershed Protection Groups and Neighborhood Organizations	Support ongoing work by the groups and organizations	Ongoing	Provide City of Detroit employee assistance at selected events	Information available on website	DWSD/Public Affairs

Table 6: BMP #2: PUBLIC EDUCATION PROGRAM (PEP)

Торіс	Implementation BMP	Timeframe	Measurable Goal	Recordkeeping	Responsible Party
	New BMP Topic	cs Identified for I	mplementation		
Signage at MS4 Catch Basins	Signage/stenciling similar to the ones at the Rouge Park	2020	All MS4 catch basin signage	Photographs of signs at all MS4catch basins	DWSD
Plan to upgrade SeeClickFix website and Improve Detroit app (both use the same software and are connected)	Include feature providing capability to report illegal discharges specifically into storm sewers and clogged catch basins	2021	Adding the feature to the software program	Maintaining a log of reports	DWSD
	Ongoing 1	BMP Topics Impl	emented		
Provide Stormwater Management Information to the Public	Post stormwater management information including DWSD's Stormwater Management Regulations on DWSD's website	Ongoing	Information on DWSD's website	NA	DWSD
Drainage Charge Program	Implement updated drainage charge program (including credit program) to all customers	Implemented & ongoing	Drainage Charge Credits for Stormwater Practices	Tracking of properties within MS4 with stormwater practices	DWSD
Post-Construction Stormwater Management Ordinance	Finalize and adopt the stormwater ordinance	Adopted Nov 13, 2018	Official ordinance adopted	Ordinance available on DWSD's website	DWSD
Provide Green Infrastructure (GI) Information to the Public	Issue GI annual progress reports for the Upper Rouge tributary areas and post on DWSD's website	Ongoing	Information on DWSD's website	NA	DWSD
Provide Technology Tools to Assist in Educating the Public	Make the "Improve Detroit" app available for download on DWSD's website	Ongoing	Information on City's website	NA	City of Detroit IT
Keep the Public Informed about Relevant Stormwater Management Issues	Issue press releases relevant to stormwater management	Throughout permit cycle	Information on DWSD's website	NA	DWSD
Provide Information about Watershed Protection Groups and Neighborhood Organizations	Provide DWSD website links to Friends of the Detroit River, Friends of the Rouge and similar neighborhood organizations	Ongoing	Links on DWSD's website	NA	DWSD
Collection and Disposal of Hazardous Waste	Provide collection and proper disposal of household hazardous waste	Ongoing	Information on City's website	N/A	GDRRA

Table 7: BMP #3: ILLICIT DISCHARGE ELIMINATION PROGRAM (IDEP)

Торіс	Implementation BMP	Timeframe	Measurable Goal	Recordkeeping	Responsible Party	
		New BMP Topics Identi	fied for Implementation			
Report Illegal Discharges to the Storm Sewers	ERP	As reported throughout permit cycle	Established mechanism for reporting	ERP Spill Notification and Report form	DWSD	
Ongoing BMP Topics Implemented						
Drainage System Mapping	Mapping of the drainage system connected to the MS4 outfalls	Complete	All drainage structures inventoried	Map produced of drainage system connected to MS4	DWSD	
Inspection of Outfalls	Re-inspect the outfalls and sample, if necessary	Completed May 2018 & once every permit cycle going forward	All MS4 outfalls re- inspected	Inspection report	DWSD	

Table 8: BMP #4: CONSTRUCTION STORMWATER RUNOFF CONTROL PROGRAM

Торіс	Implementation BMP	Timeframe	Measurable Goal	Recordkeeping	Responsible Party
		New BMP Topics Identi	fied for Implementation		
None					
		Ongoing BMP To	pics Implemented		
Review of Site Plans	DWSD to review site plans for stormwater management and provide input to BSEED	In process - Ongoing	Site plan reviews	List of site plans reviewed for stormwater management	DWSD/BSEED
Post-Construction Stormwater Management Ordinance	Finalize and issue the stormwater ordinance	Adopted November 2018	Ordinance enacted	Stormwater Management Regulations and Stormwater Design Manual available on DWSD's website	DWSD

Table 9: BMP #5: POST CONSTRUCTION STORMWATER RUNOFF PROGRAM

Торіс	Implementation BMP	Timeframe	Measurable Goal	Recordkeeping	Responsible Party
		New BMP Topics Identi	ified for Implementation		
None					
		Ongoing BMP To	pics Implemented		
Review and Approval of Preliminary Site Plans	Continue current review process by BSEED with input from DWSD regarding stormwater management	Ongoing	Number of site plan reviews. Application requests applicable permits.	List of site plans reviewed for stormwater management	BSEED/DWSD
Post-Construction Stormwater Management Ordinance	Finalize and issue the stormwater ordinance	Adopted Nov 13, 2018	Ordinance enacted	Ordinance available on DWSD's website	DWSD
Review and Approval of Preliminary Site Plans	In addition to BSEED, DWSD will review the site plans to identify any applicable GI credits	In process - ongoing	Participation of DWSD in the review process	List of site plans reviewed for stormwater management	DWSD/BSEED

Table 10: BMP #6: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAM

Торіс	Implementation BMP	Timeframe	Measurable Goal	Recordkeeping	Responsible Party
		New BMP Topics Identi	fied for Implementation		
Catch Basin Cleaning	Plan to add a feature in the SeeClickFix software ("Improve Detroit" App) to allow public to report catch basin clogging in MS4 areas	2021	SeeClickFix updated and public reports being submitted	Database for public reporting catch basin clogging	DPW
Catch Basin Cleaning Program	DWSD is establishing a program for catch basin cleaning. Cityworks maintenance program will be used to schedule	2020 and after that, at a minimum, once every 3 years. More frequently for catch basins that are found with more than 50% sediment	Every catch basin inspected & cleaned, if necessary, at a minimum every 3 years	DWSD GIS log of number of catch basins cleaned	DWSD
		Ongoing BMP To	pics Implemented		
Street Sweeping and Material Disposal	Continue current practices for street sweeping and material disposal in the MS4 areas	Continue following DPW's current street sweeping schedule; request extra sweeping as needed throughout permit cycle	Periodical street sweeping with material disposal by an outside contractor	Maintain log of street sweeping and material disposal	GSD/DPW
Lawn Mowing	Continue current practices for lawn mowing in the MS4 areas with buffer zones between the lawns and water bodies	Ongoing	Periodic lawn mowing, as needed	Records of training DWSD personnel to GSD personnel who conduct lawn mowing	GSD/DPW
Catch Basin Cleaning	Continue current practice of catch basin cleaning	Ongoing – when sump is no more than 50% full	Number of catch basins cleaned during reporting period	DWSD GIS log of number of catch basins cleaned	DWSD
Right of Way Maintenance	Catch basin cleaning and street sweeping. Catch basin blocked off during road repair.	Ongoing	Catch basin cleaning and inspection program	DWSD GIS log of number of catch basins cleaned	DWSD/DPW

5.0 SUMMARY

and the Law Department. and Development Department, the Department of Public Works, the Buildings, Safety including the Water and Sewerage Department, the General Services Department, the Planning not the sole responsibility of any one Department, the SWMP activities involve many entities multi-agency effort by representatives from several City Departments. Because stormwater is Engineering and Environmental Department, the Greater Detroit Resource Recovery Authority, The City of Detroit's Stormwater Management Plan has been developed through a coordinated

Management and control of stormwater discharges will be achieved in a manner consistent with the efforts already underway by the City of Detroit to control wet weather discharges from its the Detroit River and the Rouge River. combined sewer system. However, due to the small size of the MS4, it is expected that the Long Term CSO Control Plan will have the most impact on the wet weather and stormwater runoff on

Attachment 22

Rating

Hours

All filters

Engine 35

No reviews

Fire station · 111 Kenilworth St



Directions

Hamtramck Fire Department

Fire station · 2625 Caniff St

Open 24 hours · (313) 305-4503



Website

Directions





Detroit Fire Engine 39 Medic 1

Fire station · 8700 14th St

Open 24 hours



Website

Directions





Department Highland Park Fire

Fire station · 25 Gerald St







· (313) 852-3068



Directions

5.0 Ladder 7 Chief 5 **Detroit Fire Department Engine 17**

Fire station · 6100 2nd Ave

③

Directions

Detroit Fire Department

Open 24 hours

Fire station · 13939 Dexter Ave

Detroit Fire Department

No reviews

Fire station · 435 W Alexandrine St



Directions

Engine 23 Squad 3

Fire station · 1818 E Grand Blvd

(313) 333-8926



Directions

5.0 Detroit Fire Engine 1

Fire station · 111 W Montcalm St

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Directions

Website

Detroit Fire Department

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No reviews

Fire station

Directions

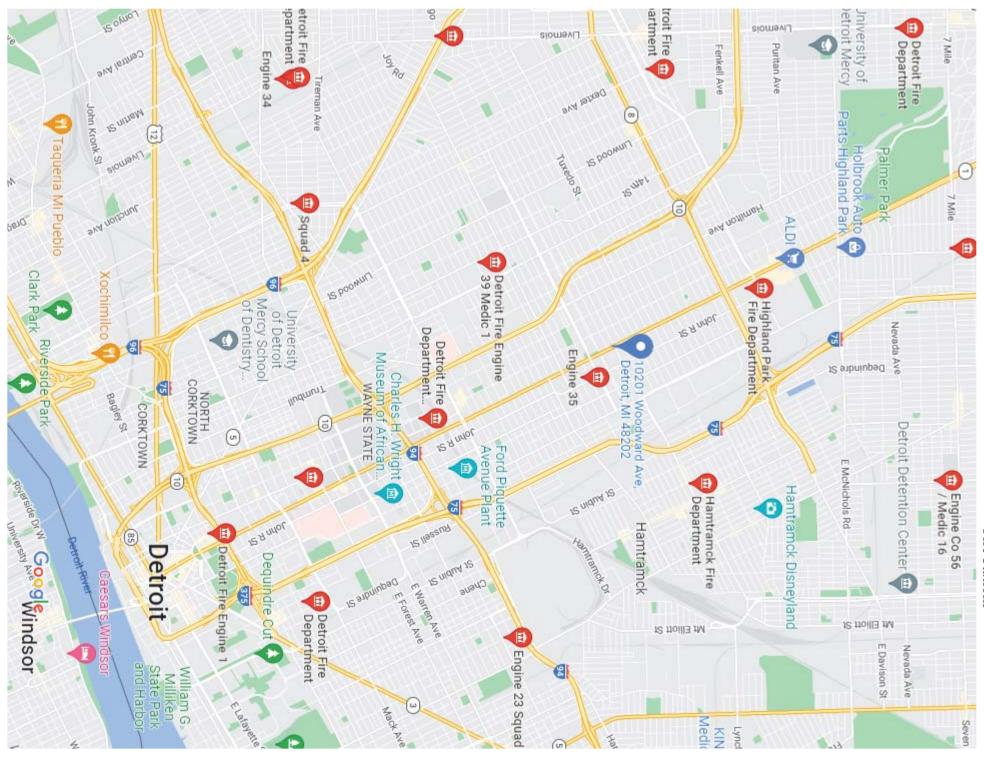
Engine 44 Ladder 18 5.0 (1)

Fire station \cdot 35 W Seven Mile Rd

Directions

Showing results 1 - 20

Fire Stations



Rating

라 All filters

Department **Highland Park Police**

2.8

Police department · 14112

Woodward Ave

· (313) 852-7338









Website

Hamtramck Police

Department

(45)

Open 24 hours · (313) 800-5281 Police department · 3401 Evaline St

Website



0

Directions

3rd Precinct NPO

Police department · 2875 W Grand Blvd

· (313) 596-5300



Directions

Tenth Precinct Detroit Police Department

(20)

Police department · 12000 Livernois

Open 24 hours · (313) 596-1000





Directions

Website

Wayne State University Police

(22)

Police department · 6050 Cass Ave

· (313) 577-2222



Directions

DPSCD Police Department

School administrator · 8500

Cameron St

Open 24 hours · (313) 748-6002

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Directions

Website

Precinct Detroit Police Department Eleventh

Police department · 5100 Nevada Ave

(313) 596-1100



Directions

Detroit Police Department, Twelfth Precinct

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Police department · 1441 W Seven Mile Rd

(313) 596-1200









DPD

No reviews

Police department · 14655 Dexter Ave





Eighth Precinct Police Station

No reviews

Police station · 4150 Grand River Ave





Directions

Detroit Police Department

Police department · Scott St No reviews



Directions

Showing results 1 - 20

15 okuo 7 Jniversity of etroit Mercy etroit Golf Club rtment Tenth... etroit Police LIVernois 7 Mile DPD Central Ave Puritan JOY RO SHOULDNY AVE Dexter Ave John Kronk St 15 ULIEW W Warren Ave (00 Parts Highland Park Ave 12 15 POOMUT Taqueria Mi Pueblo SIOURNI Holbrook Auto Palmer Park Tuxedo St. Highland Park
Police Department Detroit Police Department... 151171 and nothinself aw nothanut (3) Motown Museum (a)
Temporarily closed Disc Highland Park Claimnoum Ave 3rd Precinct NPO IS POOMUT Clark Park Xochimilco 8 25 Andol Nevada 8 Riverside Park 8 Charles H. Wright (Museum of African... WAYNE STATE 10201 Woodward Ave, Detroit, MI 48202 Dequindre St NORTH CORKTOWN Detroit Police Department NORTH END Bagley St. Eighth Precinct Police Station CORKTOWN Detroit Police Benefits-Prtctv (3) B 6 Wayne State University Police 0 ú E McNichols Rd Comerica Park DPSCD Police Department poverside Dr. W Seven Mile E The Whitney de Dr. W. Google Windsor 12 A milos Police Depts. Hamtramck Detroit Police Fatal Squad 85 -Detroit Paver Hamtramck Police Department Dequindre Cut P nidun 12 EASTERN MARKET Department... **Detroit Police** R albritogo Caesars Windson Chene E Walten Ave E Forest Ave Detroit Police Department Ø AR Elliott St E Grand Blvd Greektown Casino E Davison St Detroit Police Department Elafayette Mack Ave ω Medi Seven Ž Lynd

Attachment 23



entertainment

Θ MME Karaoke & DJ Services (Matriarch Music & **Entertainment)**

Address: 2785 E Grand Blvd Unit 160, Detroit, MI 48211

Phone: (313) 282-1675

Website: http://matriarchmusicent.com/

W Madd Money Entertainment

Address: 47 Pingree St, Detroit, MI 48202

Phone: (313) 656-4559

Website: http://www.maddmoneyentertainment.com/

(F) **Detroit Symphony Orchestra**

Address: 3711 Woodward Ave, Detroit, MI 48201

Phone: (313) 576-5111

Website: https://www.dso.org/

0 **Parables Entertainment**

Address: 2785 E Grand Blvd Ste 385 48211

Website: https://www.facebook.com/parablesent/

(o) M-Class Entertainment

Address: 65 Cadillac Sq, Detroit, MI 48226

Website: https://www.facebook.com/M-Class-Entertainme nt-135980796434087/

Thrillseeker Entertainment

Address: 1090 Chene, Detroit, MI

Website: http://www.thrillseekerentertainment.com/

(3) Moskillz Entertainment

Address: Private Address in Detroit, MI

Phone: (313) 694-8178

(5) **Intertwined Entertainment LLC**

Address: Private Address in Detroit, MI

Phone: (517) 708-2020

Website: http://www.intertwinedent.com/

3 The Soulful Underground

Address: 3000 E Grand Blvd, Detroit, MI 48202

Website: https://www.facebook.com/SoulfulUnderground/

(2) Berts Warehouse Entertainment

Address: 2727 Russell St, Detroit, MI 48207

Phone: (313) 567-2030

Website: http://www.bertsentertainmentcomplex.com/

4 Fox Theatre

Address: 2211 Woodward Avenue, Detroit, MI 48201

Phone: (313) 471-7000

Website: https://www.313presents.com/venues-events/fox

6 The City Theatre

Address: 2301 Woodward Ave, Detroit, MI 48201

Phone: (313) 471-3200

(00) SevenTee-One Entertainment

Address: 7401 Woodrow, Wilson, MI 48206

Phone: (313) 949-3140

(a) One & Only Entertainment

Address: 1687 Hazelwood St, Detroit, MI 48206

Phone: (313) 875-1463

(7) **Ern's Entertainment Inc**

Address: 9326 Savery St, Detroit, MI 48206

(Freep Entertainment

Address: 160 W Fort St, Detroit, MI 48226

Phone: (313) 222-6620

Website: http://freep.com/entertainment

(6) **CGS Entertainment**

Address: PO Box 21914, Detroit, MI 4822

Phone: (313) 862-4139

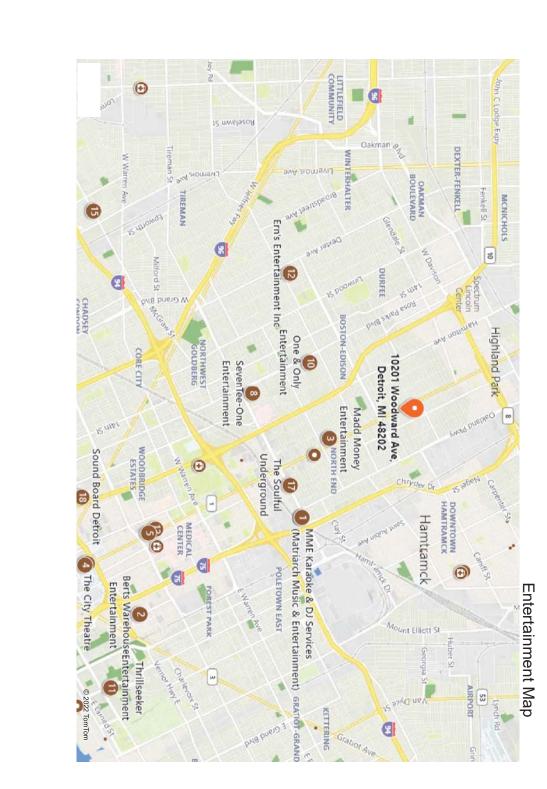
Website: https://www.cgsentertainment.com/

(8) Sound Board Detroit

Address: 2901 Grand River Ave, Detroit, MI 48201

Phone: (313) 309-4700

Website: http://motorcitycasino.com/

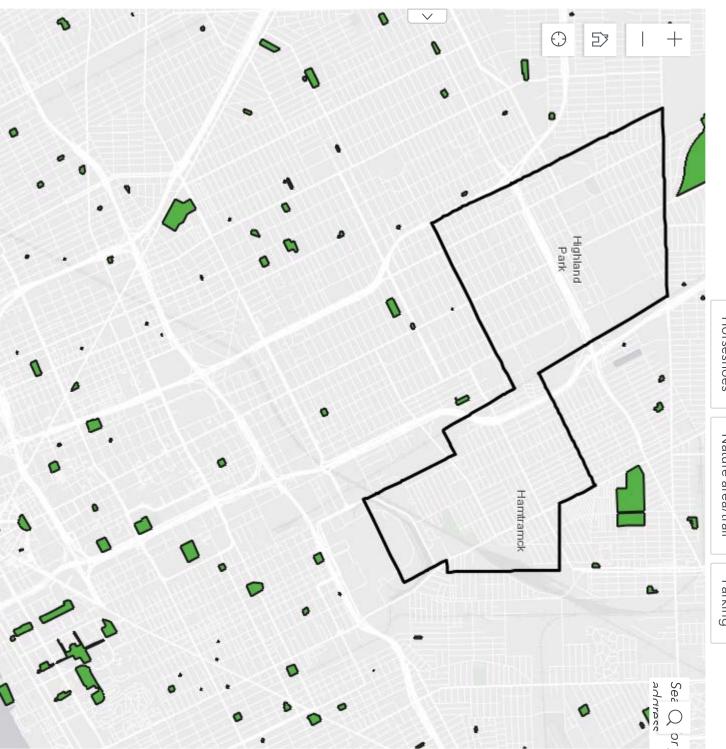




What would you like to do in a park?

Choose a park amenity to filter the list: Baseball Basketball Comfort station Dog park

Horseshoes Fitness equipment Nature area/trail Fishing Football Parking



Attachment 24

snq

Greyhound Bus Lines

Address: 1001 Howard St, Detroit, MI 48226

Phone: (313) 961-8011

Website: https://www.greyhound.com/en-us/bus-station-

240317

3 Transit Windsor

Address: 300 Chatham Street West, Windsor ON N9A

0A8

Phone: 519-944-4111

Website: https://citywindsor.ca/residents/transitwindsor/Pa

ges/Transit-Windsor.aspx

Sosa Parks Transit Center

Address: 1310 Cass Ave, Detroit, MI 48226

Phone: (313) 933-1300

Website: http://www.detroitmi.gov/ddot

On Time Plus Transportation

Address: 1010 Antietam Ave, Detroit, MI 48207

Phone: (313) 567-4945

Website: http://ontimeplus.com/

9 Party Bus Detroit

Address: 442 W Larned St, Detroit, MI 48226

Phone: (313) 312-5466

Website: http://www.limodetroit.com/

(1) Theotis Group Bus Dev the Inc

Address: 6040 Russell St, Detroit, MI 48211

Phone: (313) 758-0100

(13) Detroit Party Bus Rentals

Address: 18411 Goulburn St, Detroit, MI 48205

Phone: (313) 924-3399

Website: https://detroit-party-bus.com/vehicles.html

(5) Turner Tours

Address: 4602 E Davison St, Detroit, MI 48212

Phone: (313) 733-8119

Website: http://turnertours.com/

① School Bus Stop

Address: 2157 York St., Windsor Ontario N8X 1W8

② Greyhound Bus Lines

Address: 11 W Baltimore St, Detroit, MI 48202

Phone: (800) 231-2222

Website: http://www.greyhound.com/

4 Detroit Bus Company

Address: 1990 Bagley St, Detroit, MI 48216

Phone: (313) 444-2871

Website: http://thedetroitbus.com/

6 Smart

Address: 535 Griswold St Ste 600, Detroit, MI 48226

Phone: (313) 223-2100

Website: https://www.smartbus.org,

Detroit–Windsor Tunnel

Address: 100 E Jefferson Ave, Detroit, MI 48226

Phone: (313) 567-4422

Website: https://www.dwtunnel.com/

(10) Carrs Motorcoach, LLC

Address: 9370 Livernois Ave, Detroit, MI 48204

Phone: (313) 931-1240

Website: http://carrsmotorcoach.com/

(12) DHT Transportation

Address: 5150 Rosa Parks Blvd, Detroit, MI 48208

Phone: (313) 895-1300

(14) Total Bus Care

Address: 3601 Bellevue St, Detroit, MI 48207

Phone: (313) 923-0204

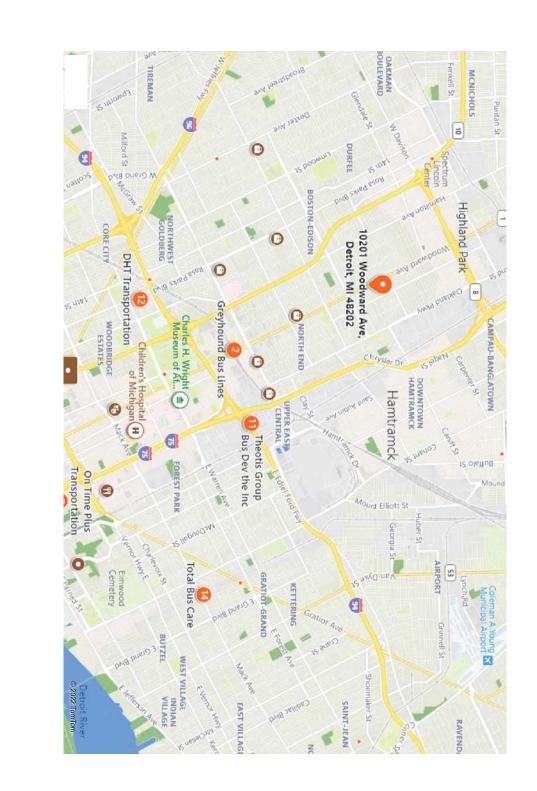
Tornado Bus Company

Address: 1950 Campbell St, Detroit, MI 48209

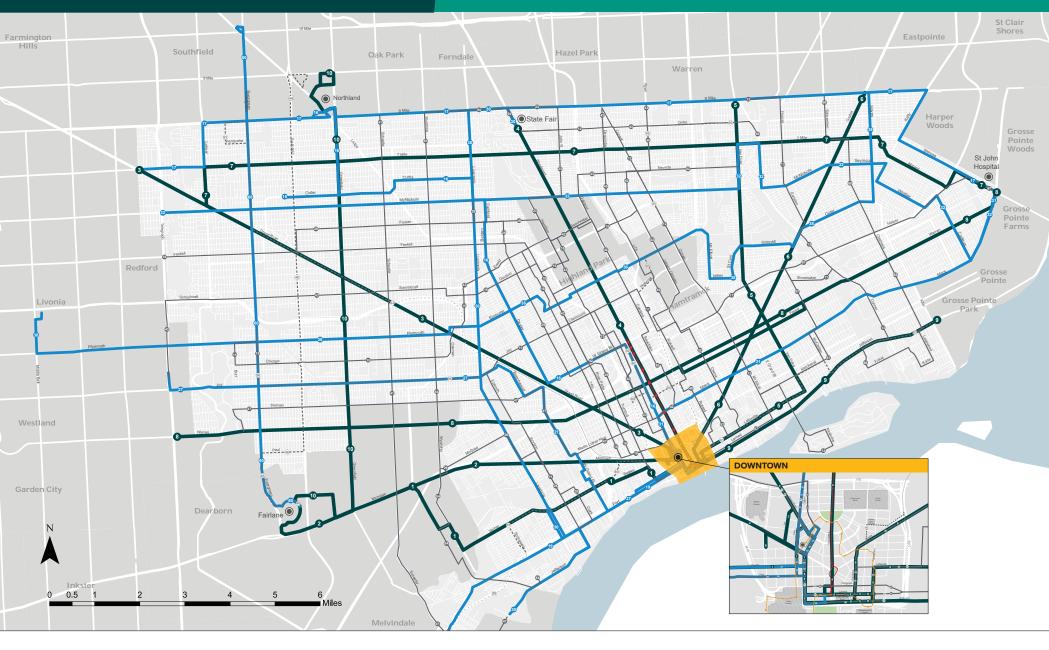
Phone: (313) 554-8930

(18) Giles Bus Stop

Address: 1201-1291 Ouellette Ave., Windsor Ontario N8X



D DDOT System Map





Key Routes		
Cross-city routes operating 18-24 hours	16 Dexter*	31 Mack
a day, with frequency every 15-30 minutes.	17 Eight Mile*	32 McNichols
	19 Fort	33 Plymouth
	27 Joy	60 Evergreen
	30 Livernois	
	* Denotes 24/7 rou	te.

Shorter routes operating	Clairmont	A Hamilton/John R	Schaefer	Chene
during day and early	Clairmont	Mamilton/John K	Schaerer	Chene
evening times, with frequency every	Conant	26 Junction	Mid-City Loop	Wyoming
30-60 minutes.	Conner	2 Linwood	Schoolcraft	
	15 Chicago/Davison	39 Puritan	1 Tireman	68 Chalmers
	Fenkell	40 Russell		

